



INDSUTSRIAL VISIT REPORT

INDUSTRY VISITED: BHARAT SANCHAR NIGAM LIMITED (BSNL) – BELAGAVI.

ORGANISED BY: CSE Department, HIT Nidasoshi

DATE & TIME: 10/05/2018 at 10:00 AM

An industry visit to Bharat Sanchar Nigam Limited (BSNL) located at Belagavi has been organized for the benefit of 4th Semester students. A batch of CSE second year 47 students and four staff coordinators visited BSNL on 10/05/2018. BSNL is India's oldest and largest communication service provider which is setup by the Government of India. Currently BSNL having 64.8 million customers. It has footprint through India. Students were taken to BSNL's Main Telephone Exchange around 10:30am, which is having 4 floors building consisting of various sections. Students visited important sections and gained the knowledge about how telephone exchange works. BSNL staff provided an excellent orientation about the communication and data consumption in day to day life.



Students visited Main Distribution Frame (MDF) and observed exchange equipment and terminations of local loops which are connected by jumper wires at the MDF. Students then brought to show Broad-Band / Digital Subscriber Line Access Multiplexer (DSLAM) which connects multiple customer digital subscriber line (DSL) interfaces to a high-speed digital communications channel using multiplexing techniques. Students were also shown Internet Protocol transitive extension (IPTAX). PCM / Lease Line, OCB 283(Optical Communication Band), MGW, Power Plant.



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2017-18(Even)

REPORT

INDUSTRY VISITED TO

BHARAT SANCHAR NIGAM LIMITED (BSNL) – BELAGAVI

ORGANIZED BY

**Department of Computer Science & Engineering
Hirasugar Institute of Technology, Nidasoshi**

On

10/05/2018

Coordinator: Prof. Milind R. Pawar



Detailed industrial visit report:

An industry visit to Bharat Sanchar Nigam Limited (BSNL) located at Belagavi has been organized for the benefit of 4th Semester students. A batch of CSE second year 47 students, under the coordination of Prof. Milind R. Pawar along with the staff members Prof. C. R. Belavi, Mrs. Rutuja S. Patil, and Miss. Maheshwari Mudashi visited BSNL on 10/05/2018.

BSNL is India's oldest and largest communication service provider. Currently BSNL having 64.8 million customers. It has footprint though out India. In this visit, the BSNL staff provided an excellent orientation about the communication and data consumption in day to day life.

The following table shows different section and staff in-charge who have given orientation.

S.No	Session	In charge
1	MDF Section	Mr. Padmannavar
2	Power Plant	Mr. Sonepuji
3	Broad Band /DSLAM	Mr. Katamble & Balesh
4	PCM/Lease Line	Mrs. Shila Hosur
5	MGW	Mr. Vinod kulkarni
6	OCB 283	Mr. Chinchanee
7	IPTAX	Mrs. Veena Sankeshwari
8	EB/Oblique Marketing	Mr. N. T. Balekundri

- 1. MDF:** BSNL staff Mr. Padmannavar provided an excellent orientation about the "Main Distribution Frame". It is a single distribution for connecting equipments to copper wired cables. The MDF is a termination point within the local telephone exchange where exchange equipment and terminations of local loops are connected by jumper wires at the MDF. All cable copper pairs supplying services through user telephone lines are terminated at the MDF and distributed through the MDF to equipment within the local exchange.



Taken form world wide web



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2. **POWER PLANT:** BSNL staff Mr. Sonepuji provided an excellent orientation about the power plant, where students got to know about the power supply related issues and around 440 volts power supply is required. And 24X7 online battery backup is also required.
3. **BROAD BAND / DSLAM:** BSNL staff Mr. Katamble & Balesh provided an excellent orientation about the Digital Subscriber Line Access Multiplexer (DSLAM, often pronounced *DEE-slam*). It is a network device, often located in telephone exchanges, that connects multiple customer digital subscriber line (DSL) interfaces to a high-speed digital communications channel using multiplexing techniques. The DSLAM equipment collects the data from its many modem ports and aggregates their voice and data traffic into one complex composite "signal" via multiplexing. Depending on its device architecture and setup, a DSLAM aggregates the DSL lines over its Asynchronous Transfer Mode (ATM), frame relay, and/or Internet Protocol network (i.e., an IP-DSLAM using PTM-TC [Packet Transfer Mode - Transmission Convergence]) protocol(s) stack.
4. **PCM / LEASE LINE:** BSNL staff Mrs. Shila Hosur provided an excellent orientation about the Leased Line. It is a private bidirectional or symmetric telecommunications circuit between two or more locations provided in exchange for a monthly rent. Sometimes known as a private circuit or data line.
5. **BROAD BAND/ MGW:** BSNL staff Mr. Vinod kulkarni provided an excellent orientation about the Media Gateway (MGW) which is a translation device or service that converts media streams between disparate telecommunications technologies such as POTS, SS7, Next Generation Networks (2G, 2.5G and 3G radio access networks) or private branch exchange (PBX) systems. And about broad band service. This service is being given through the state of the art MPLS "Multiple Protocol Label Switching" based IP infrastructure, which is designed to provide reliable router to cover all possible destination and outside the state and countries. To monitor the broad band BNG Gateway can be used.
6. **OCB283:** BSNL staff Mr. Chinchane provided an excellent orientation about the OCB283. OCB283 stands for Organ Command Bersion 2nd Generation 8300 Motorola microprocessor unit. Automatic Recovery is the main feature of OCB283. It is a digital switching system which supports variety of communication need like basic telephony, ISDN, interface to mobile communication, data communication etc. this system was developed by France and brought to India in 1993.



- 7. DIGITAL TRANSMISSION STATION / IPTAX:** BSNL staff Mrs. Veena Sankeshwari provided an excellent orientation about the Internet Protocol Transitive Extension which is based on JTE technology, which is a gateway worked based on soft switch which is a main power processing bank where call details are stored. There are 2 types of terminals 1) Optical terminal and 2) electrical terminal. Global System to mobile (GSM) communication in which communication is done through 2 frequencies such as 900MHz and 1800 MHz. in this technology mainly 2 techniques are used 1) FDMA(frequency division multiple access) TDMA(Time division multiple access). GSM is a mobile communication modem, and it is an open and digital cellular technology used for transmitting mobile voice and data. it operated at the 850MHz , 900MHz , 1800Mhz and 1900 MHz frequency bands.
- 8. OBLIQUE MARKETING:** At the end sessions was conducted by Mr. N. T. Balekundri, Dept. Officer EB/OM, illustrated products, plans and their features.



Permission Letter - I

From

Prof. M. R. Pawar

Dept of CSE

HIT Nidasoshi

Through

The HOD, Dr. Parashuram Baraki

Dept of CSE

HIT, Nidasoshi

To

The principal

HIT Nidasoshi

Respected Sir,

Date: 9/05/2018

Sub: Permission for Industrial visit to BSNL.

With reference to the above cited subject, the BSNL, Belagavi has given the consent to visit their centre for IV sem students of CSE department on 10/5/18. The students will leave the campus on 10/5/18 morning and return on the same day evening.

Hence I kindly request you to grant the permission.

Thanking you,
Principal sir,

Requested to do the needful

P. Pawar
Date: 9/05/2018

Place: Nidasoshi

Permitted
9/5/18

Yours faithfully.

M. Pawar
Prof. M. R. Pawar



Permission Letter-II

From
Prof. M. R. Pawar
Dept of CSE
HIT, Nidasoshi

Date: 9/05/2018

To
The Principal
HIT, Nidasoshi

Respected Sir,

Sub: Providing the bus facility to Belagavi
for industrial visit to BSNL office.

With the reference to the subject cited above, I the undersigned Prof. M. R. Pawar with IV sem CSE students want to visit BSNL Belagavi on 10 May 2018. For this purpose we are in need of college bus.

From CSE IV sem HIT, $4\frac{1}{2}$ students and 3 faculties are visiting. The detailed list of students & faculty is attached with this letter.

Sir, we hope you kindly do the needful and help the students to visit BSNL office Belagavi.

Thanking you,

Forwarded to Principal sir
for consideration

Date: 9/05/2018

Place: Nidasoshi

Yours faithfully

Prof. M. R. Pawar



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List of Student Participants and Faculty Details



S. J. P. N. Trust's
Hirasugar Institute of Technology,
Nidasoshi - 591 236

Dist. : Belagavi, Karnataka.

"INCULCATING VALUES, PROMOTING PROSPERITY"

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Prof. S. C. Kamate, Ph.D.
Principal



Ref. : HIT/NSD/CS/27/2018-19

Date : 09/05/2018

LIST OF 4th SEM STUDENTS FOR INDUSTRY VISIT TO BSNL, BELAGAVI (on 10 May -2018)

Sl.No	Name	Gender	Sl.No	Name	Gender
1	AKSHATA PATIL	FEMALE	24	RAHUL YARANDOLI	MALE
2	AKSHATHA ARIBENCHI	FEMALE	25	RAJANI M.DADDIMANI	FEMALE
3	ARPITA KHADAKABHAVI	FEMALE	26	RAMYA S. BAVACHE	FEMALE
4	ASMA NADAF	FEMALE	27	SAINATH KAMBLE	MALE
5	ASMITA BONGALE	FEMALE	28	SANDHYA NEMAGAUD	FEMALE
6	AYESHA M NAIKWADI	FEMALE	29	SAVITA B. PATIL	FEMALE
7	BHEEMAPPA KAGALI	MALE	30	SHRADDHA R. KHOT	FEMALE
8	CHAITRA PATTAR	FEMALE	31	SHREYA R. JANAJ	FEMALE
9	DEEPA CHIKKOPPA	FEMALE	32	SHREYA JANAJ	FEMALE
10	JAGADALE NAMRATA	FEMALE	33	SHRUTI B. KILLEDAR	FEMALE
11	JYOTI SHEKHAR PATIL	FEMALE	34	SHWETA S.DHARMATTI	FEMALE
12	JYOTI SONDAKAR	FEMALE	35	SNEHA CHOUGALE	FEMALE
13	ROHINI KALASGONDA	FEMALE	36	SOUMYA A PATIL	FEMALE
14	KAVERI S.KHANAGODAR	FEMALE	37	SWAPNA S. HARAKE	FEMALE
15	KIRAN J. HIPPARAGI	MALE	38	SWATI M. NERLI	FEMALE
16	SAMIKSHA SANJAY LAKADE	FEMALE	39	SWATIKA NALAWADE	FEMALE
17	MURALIDHAR U. KULKARNI	MALE	40	TEJASWINI T. BHOSALE	FEMALE
18	NEHA B. MATHAPATI	FEMALE	41	VEERESH TUKKANAVAR	MALE
19	NEHA M. HULMANI	FEMALE	42	VIDYASHREE PHANTINATH	FEMALE
20	PALLAVI SUNIL NAIK	FEMALE	43	MEENAXI SANJAY PATIL	FEMALE
21	PRACHI M. RATNAPPAGOL	FEMALE	44	POORNIMA POWAR	FEMALE
22	PRAGATI B. GURAV	FEMALE	45	SOHEL S BAGAWAN	MALE
23	PRIYANKA CHOUGULE	FEMALE	46	TANUJA KALYANI	FEMALE

Faculty Details:

1. Prof. Milind. R. Pawar (Team Coordinator)
2. Prof. Chandrakant R. Belavi
3. Mrs. Rutuja S. Patil
4. Miss. Maheshwari Mudashi

47 RAGHAVENDRA. SAMANE, MALE. *[Signature]*

[Signature]
PRINCIPAL
Hirasugar Institute of Technology
NIDASOSHI.


☎ : Off: (08333) 278887, Fax.: 278886, Res.: 278889 E-mail : principal@hsit.ac.in, www.hsit.ac.in




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Thanking Letter

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**Prof. S. C. Kamate, Ph.D.**
Principal


Ref. : HIT/NDS/CS/87/2018-19 Date : 09/05/2018

THANKING LETTER

It's our immense pleasure to visit the globally recognized organization BSNL head office, at Belagavi on 10-05-2018. We felt privileged and had valuable interactions with the organization's team. We thank you for accepting our request and allowing our staffs and students to visit.

We expect the similar kind of co-operation in the future.

Accepted for tour and industrial visit by at BSNL Belagavi
10/05/2018
उप मडल अभियंता (मा.स.वि.)
Sub Divisional Engineer (HRD)
दू.मप्र.का कार्यालय बेलगाम-1
O/o. G.M.T Belgaum-1


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Sample Feedback Form



DEPT. OF COMPUTER SCIENCE & ENGINEERING

**POST INDUSTRIAL VISIT TO BSNL BELAGAVI
 QUESTIONNAIRE FORM**

INSTRUCTIONS:

- This form should be completed by the students who visited the industry
- Please write the marks in the shown for each question. Based on your experience give rating in the range of 1 to 4. Where, 4- Excellent, 3- very good, 2- Good, 1- Satisfactory

S.No	Descriptions	Rating
1	Students were able to understand the importance of Main Telephone Exchange (MTE) in BSNL.	<input type="checkbox"/>
2	Students were able to understand the Main Distribution Frame (MDF) and its importance.	<input type="checkbox"/>
3	Students were able to understand the importance of Power Plant which will give 24X7 online battery backup.	<input type="checkbox"/>
4	Students were able to know the importance of Internet Protocol TAX (IPTAX).	<input type="checkbox"/>
5	Students were able to know how Leased Line will work and maintained by BSNL.	<input type="checkbox"/>
6	Students were able to understand the importance of Optical Fibers Communication (OFC) System.	<input type="checkbox"/>
7	Students were able to know the importance of Digital Subscriber Line Access Multiplexer (DSLAM), Media Gateway (MGW).	<input type="checkbox"/>
8	Students were able to know the importance of OSI 7 Layer Model for Network Protocol.	<input type="checkbox"/>
9	This visit helped the students to visualize the importance of subjects such as Computer Organization, Digital Communication, Electronics Circuits, Logic Design and Programming Skills.	<input type="checkbox"/>
10	By this Industrial visit students were able to understand the importance of professional ethics.	<input type="checkbox"/>

STUDENT NAME	USN	SIGNATURE



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Photo Gallery





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