

DRT's
A.E. KALSEKAR DEGREE COLLEGE
KAUSA, MUMBRA
Permanently Affiliated to University of Mumbai
Accredited by NAAC with B++ Grade
DEPT. OF CHEMISTRY
INDUSTRIAL VISIT REPORT

Industry Visited: Bhabha Atomic Research Centre (BARC)
Date of Visit: 04.12.2018

A batch of T.Y.B.Sc. & SY. B.Sc. Chemistry students (65) and three staff coordinators visited the **Bhabha Atomic Research Centre** at Chembur Mumbai on 04.12.2018. This unit is mainly focusing on the Nuclear Research and Development in various fields.

A Safety officer, explained the different steps employed for the safety of the unit. Later he explained the agenda of the day. The agenda was to visit to:

1. BARC auditorium (movie show)
2. Dhruva nuclear reactor
3. Food irradiation lab
4. Supercomputer and tiled display

During this session, a movie made by researchers on BARC was shown to students. Everything about working of nuclear reactor, safety measures, food irradiation plant, nuclear waste management and recent researches were explained. Students interacted with the Manager very effectively. Particularly about how the nuclear reactor works, safety measures to be taken when exposed to radiations. Then Mr. K Balu nuclear waste Manager, explained how the radioactive waste generated, are disposed by underground incineration. Later students visited Dhruva nuclear reactor, where junior researcher explained about nuclear reactor in detail along with model. Then students were shown main control room, from where the whole reactor was controlled. This session was concluded with lunch break.



After this session students were taken to food irradiation plant in two batches. Both the batches were taken to food irradiation laboratory. During the trip students gained practical knowledge about the handling of the raw materials while irradiation. Many of the points explained theoretically in the first session were explained again practically. In radiation chamber students were shown Co 60 radioisotope in swimming pool reactor emitting gamma radiations which are used to increase the shelf life of food. Later food manager also explained about various safety measures to be taken while entering radiation chamber such as use of radiation cerimeter which indicates amount of radiation in chamber. He also explained about different kinds of food irradiated to increase the shelf life while exporting fruits, grains, meat and fish. How healthy food can be send to soldiers by irradiating it, was explained. Also the samples of it were shown.

Information related to biotechnological research was also given, recently a new variety of rice has been developed at BARC which are drought resistant. Other samples of hybrids of green beans and groundnut were shown.

After this session students visited supercomputer, which was designed and developed at BARC itself using spare parts, BARC uses its own software which is also designed by their engineers keeping security in mind. It can connect unlimited no. of clients with the provision of the speed of more than 100 GBPs and data processed are displayed on Tiled display.

All the students expressed their thanks to the officials for the opportunity given.

This trip was highly useful for the students in terms of practical knowledge about the Nuclear Chemistry.

This trip will also be helpful for them to find placement opportunities at BARC.

Ms. Savita Sawant

Mrs. Pooja Shingadia

Ms. Tasneem Baig

Chemistry Staff

-Reported by Humera
Jalgaonkar.





(O) 7718849040

(D) 7718848040

DAAR-UL-REHMAT TRUST'S

A. E. KALSEKAR DEGREE COLLEGE

PERMANENTLY AFFILIATED TO UNIVERSITY OF MUMBAI

Accredited by NAAC with "B++" Grade

Near Bharat Gear Factory, Post Dawla, Kausa, Mumbra, Thane - 400 612

Web page : www.aekalsekarcollege.com

email id. : aekalsekarcollege@yahoo.com

Ref. No.: AEKC/325/18

Date: 19/12/18

To,
PRO, B.A.R.C
Trombay, Mumbai-85

Subject: Permission for industrial study tour for science students.

Respected Sir,

It is to inform that 67 students of second and third year degree classes (B.Sc.) of our college along with 3 faculties would like to visit your organization. The team will be arriving at B.A.R.C. reception at 10:00 am on 24 December 2018 in college bus.

You are requested to arrange study tour for them on said date and lunch arrangement is organized inside B.A.R.C. for 70 members. List of students along with their photo proof and ID card Xerox of 70 members is enclosed. Students whose ID card is not received, we have attached fee receipt.

Kindly acknowledge and confirm the tour visit. Faculties will be responsible for the conduct at B.A.R.C.

Since, it is our first visit, a brief by Analytical chemistry division may please be arranged.

Thanking You.

Yours faithfully

Principal

Contact person: Ms. Savita Sawant (Faculty of Chemistry) (98600 21603) (savita.sawant11@gmail.com)
Ms. Pooja Shingadia (Faculty of Chemistry) (99675 05355) (poojapshingadia@gmail.com)
Ms. Tasneem Baig (Faculty of Chemistry) (8452050763) (tfbaig4@gmail.com)





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Web page : www.aekalsekarcollege.com

email id. : aekalsekarcollege@yahoo.com

Ref. No.: Aekc/429/18

Date: 27/11/18

Head
Media Relations & Public Awareness Section
Scientific Information Resource Division
Bhabha Atomic Research Centre
Trombay
Mumbai 400 085

Subject: Visit of faculties of A.E. Kalsekar Degree College.

Sir/ Madam,

Please refer my discussion with on above subject. We want to take our B.Sc. students to your esteem organization at part of Industrial visit. You have kindly agreed in principle. We already submitted the list of 67 students. Now we give below the details of three faculties who are going to a company the students.

1. Ms. Savita D Sawant (Contact number: 9860021603) savita.sawant11@gmail.com
2. Ms. Pooja P Shingadia (Contact number: 9967515355) poojapshingadia@gmail.com
3. Ms. Baig Tasneem Fatima Siraj (Contact number: 8452050763) tfbaig4@gmail.com

We request you to give permission to visit your organization on 4th December 2018. .

In case require further details please let us know.

Thanking you.

- 1) Ms. Savita D. Sawant
- 2) Ms. Pooja P. Shingadia
- 3) Ms. Tasneem Baig

Sawant
Shingadia
Fatima

(Name & Signature of faculty accompanying the students)

Recd. P. W. Chaturvedi
29/11/2018.

[Signature]
(Signature of the Principal)
Principal
DAAR-UL-REHMAT TRUST'S
A.E. KALSEKAR DEGREE COLLEGE
Kausa, Mumbra, Thane - 400 612.



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email id. : aekalsekarcollege@yahoo.com

Ref. No.: AEKC/437/18

Date: 29/11/18

The details of three faculties of A.E . Kalsekar Degree College Mumbra are as follows.

1. Ms. Savita D Sawant (Contact number: 9860021603) savita.sawant11@gmail.com
2. Ms. Pooja P Shingadia (Contact number: 9967515355) poojapshingadia@gmail.com
3. Ms. Baig Tasneem Fatima Siraj (Contact number: 8452050763) tfbaig4@gmail.com



Signature of the Principal

Principal

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Undertaking

Head

Media Relations & Public Awareness Section

Scientific Information Resource Division

Bhabha Atomic Research Centre

Trombay

Mumbai - 400 085

1. I assure you that all the students and faculty will reach BARC North Gate Reception by 9.30 am and all will carry valid college photo identity card.
2. I assure you that all the students/faculty visiting BARC are Indian Nationals and will follow the discipline.
3. I assure you that students and faculty will not carry mobile phones and its accessories, Electronic gadgets like CD, floppy, pen drive, memory card, charger, camera, SIM card, Head phones, any Electrical and Cosmetic items, bag and baggages etc.,
4. I assure you that no foreign/NRI student and faculty are included in the visit to BARC.
5. I assure you that the students will come decently dressed or in college uniforms (wherever applicable).
6. I assure you that if we violate any of the rules, (name of faculty and phone number) will be held responsible.

1) Ms. Savita D. Sawant

2) Mrs. Pooja P. Shingadia

3) Ms. Tasneem Beg

(Name & Signature of faculty accompanying the students)

Sawant
Shingadia
Beg

(Signature of the Principal)

Principal
DAAR-UL-REHMAT TRUST'S
A.E. KALSEKAR DEGREE COLLEGE
Kausa, Mumbra, Thane - 400 612



BARC Visit

1:01 PM

4G 80



Dear Sir,

This has reference to your College visit request to BARC which has been considered on December 04, 2018. Kindly send the documents immediately as per instructions given below.

Attached along with are documents that have to be typed on the College letterhead and duly signed by the Principal. Faculties have to give their names on a different letterhead (with signatures and telephone no.) approved by Principal.

Please ensure that all students and faculty members carry their valid ID cards without which entry will not be granted for the visit.

PLEASE DO CALL UP FOR ANY CLARIFICATIONS AND ALSO MAIL YOUR CONTACT NUMBER TOO.

Thanking you,

Prabha Pednekar/S. Nambiar
25590828/25592829

1:02 PM

4G 80



Fwd: Student visit to BARC



Inbox



savita sawant 27/11/2018

----- Forwarded message ----- From: savita sawant <savita.sawant11@gmail



savita sawant 27/11/2018

to me



----- Forwarded message -----
From: <mrpas@barc.gov.in>
Date: Mon, Nov 26, 2018, 16:31
Subject: Student visit to BARC
To: <savita.sawant11@gmail.com>

Dear Sir,

This has reference to your College visit request to BARC which has been considered on December 04, 2018. Kindly send the documents immediately as per instructions given below.

Attached along with are documents that have to be typed on the College letterhead and duly signed by the Principal. Faculties have to give their names on a different letterhead (with signatures



Industrial Visit Report

Industry visited: B.A.R.C. (BHABHA ATOMIC RESEARCH CENTER), Trombay.

Date of visit: 04/12/2018

A batch of degree students (Chemistry) students and three staff coordinators visited the B.A.R.C at Chembur, Mumbai on 4/12/2018. This unit is mainly focusing "Nuclear Research & Development" in various field.

A safety officer explained the different steps employed for the safety of the unit. Later he explained agenda of the day. The agenda was to visit to:

1. BARC auditorium (movie show)
2. Dhruva Nuclear Reactor
3. Food Irradiation Laboratory
4. Super Computer and field display

During this section, a movie made by researchers on BARC were show to students. Everything about working of nuclear reactors, safety measures, food irradiation plant, nuclear waste management and recent researches were explained. Students interacted with manager very effectively. Particularly about how the nuclear reactor works, safety measures to be taken when exposed to radiation. Then Mr. K. Balu, Nuclear waste manager explained how the radioactive waste generated are disposed by underground incineration.

Later students visited Dhruva Nuclear Reactor, where junior researcher explained about Nuclear reactor in details along with models. There students shown main control room, from where the whole reactor was controlled. This session was concluded with lunch break.

After this session students were taken to food irradiation plant in two batches. Both the batches were taken to Food Irradiation Laboratory. During the trip, students gained practical knowledge about the handling of the raw material while irradiation. Many of the point explained theoretically in the first session were explained again practically. In radiation chamber students were show Co_{60}



radioisotope in swimming pool reactor emitting gamma radiation which are used to increase the shelf life of food.

Later food manager explained about various safety measures to be taken while entering radiation chamber such as use of radiation cerimeter which indicates amount of radiation in chamber. He also explained about different kinds food irradiated to increase the shelf life while exporting fruits, grains, meat and fish. How healthy food can be send to soldiers by irradiating it, was explained. Also the sample of it were shown.

Information related to bio technological was also given, recently a new variety of rice have been developed at BARC which are drought resistant. Other sample of Green beans and Groundnuts were shown this session was concluded to Super Computer and field display.

Pooja P Shingadia

Reported by,
Mrs. Pooja P Shingadia
Department of Chemistry



Rules & Regulations while entering BARC

1. Valid College Photo Identity Card for students and faculty is mandatory.
2. Phone, charger, headphone, SIM Card, Memory Card etc. are not allowed to carry inside BARC for anybody.
3. Electrical and Electronic gadgets like CD, floppy, pen drive, camera etc. and even cosmetic items are not allowed to carry inside BARC.
4. All the students and staff shall be Indian.
5. No foreign students and faculty are allowed to visit BARC.
6. Neither new names will be added nor Interchange is possible on the day of the visit.
7. Students shall carry pen, blank writing pad and identity card while entering the BARC premises. Strictly No bag baggages, hand bags ladies purse etc.
8. All the students and staff should report at BARC North Gate Reception by 9.30 a.m.
9. Discipline shall be maintained in the BARC premises.
10. The staff shall take the responsibility of all the students. If students do not carry photo identity card and/or is caught with any electronic gadgets/electrical/cosmetic items and/or any indiscipline behavior the college authorities shall take necessary action against the student and responsible faculty member.



100 - 20	2000
200 - 3	6000
500 - 4	2000
50 - 6	3000
	<u>10300</u>
Σ - 4900	



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Web page : www.aekalsekarcollege.comemail id. : aekalsekarcollege@yahoo.comRef. No.: AERC/325/18Date: 19/9/18

To,
PRO, B.A.R.C
Trombay, Mumbai-85

Respected Sir,

The below mentioned names are our college bonafied students of second and third year of B.Sc.
2018-19.

Sr. No	Name of the students and class	Roll No.	DOB
1	SHAIKH NOOREEN ASHFAQUE (T.Y.B.Sc)	05	1/10/1998
2	GUPTA PREETI TRIBHUVAN (T.Y.B.Sc)	06	27/09/1998
3	KHAN FAUZIYA KHATOON ALTAF AHMED (T.Y.B.Sc)	07	27/03/1997
4	KHAN NAMRA MAHFOOZ UR REHMAN (T.Y.B.Sc)	08	2/11/1997
5	JALGANKAR HUMERA NOOR MOHAMMED (T.Y.B.Sc)	09	29/05/1998
6	SOBIYA BANO JAVED ALAM (T.Y.B.Sc)	12	25/05/1998
7	CHODHARY AZRA IRAM SHAMIM AHMED (T.Y.B.Sc)	13	20/10/1998
8	KHAN ZIYAUDDIN HAKIMUDDIN (T.Y.B.Sc)	15	29/05/1998
9	SAKEENA KHATOON ABDUL MUTALLIB (T.Y.B.Sc)	18	17/05/1998
10	NAIK FARZEEN FAROOK NAZIMA (T.Y.B.Sc)	27	30/11/1998
11	SIDDIQUI INJILA SHUJAUDDIN (T.Y.B.Sc)	28	29/03/1999
12	GOLANDAZ REHANA ABDUL AZIZ (T.Y.B.Sc)	29	7/06/1998
13	SHAIKH FAUZIYA QAMAR AHMED (T.Y.B.Sc)	30	21/12/1995
14	KHAN NASEEME SABA MUBASHSHIRALI (T.Y.B.Sc)	37	3/04/1999





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15	AFSANA WAJID ALI (T.Y.B.Sc)	43	15/11/1997
16	SHAIKH HEENA REHMAT JAHAN HAFIZ FAZLU REHMAN (T.Y.B.Sc)	44	21/03/1998
17	SHAIKH TAHURA BI CHAND (T.Y.B.Sc)	31	10/11/1998
18	KANIZ ZAHRA KALBE ABBAS (T.Y.B.Sc)	58	16/02/1997
19	KHAN SANA JALALUDDIN (T.Y.B.Sc)	60	27/09/1997
20	KHAN FALAKNAAZ HABIBUR RAHMAN (T.Y.B.Sc)	61	15/03/1999
21	RUBINA PARVEEN MOHD.NASEEM (T.Y.B.Sc)	66	12/11/1998
22	MIRZA JAMEELA SHEHZADE AFZAL (T.Y.B.Sc)	67	22/11/1998
23	MALDAR FARHEEN HANIF (T.Y.B.Sc)	68	5/01/19980
24	CHOUDHARY TABASSUM SALAHUDDIN (T.Y.B.Sc)	77	6/12/1997
25	ANSARI SABA ASIF (T.Y.B.Sc)	78	25/03/1998
26	GAIBEE ANAM ALI HUSSAIN (S.Y.B.Sc)	01	3/10/1999
27	PETKAR HEENA GULAM DASTAGEER (S.Y.B.Sc)	02	23/05/1999
28	PIRANI AISHA ABU BAKER (S.Y.B.Sc)	05	1/05/2000
29	QURESHI FIRDOUSE FATIMA MOHD. WASIM (S.Y.B.Sc)	08	10/07/1999
30	CHOUDHARY IQRA MOHD. JALIL (S.Y.B.Sc)	09	20/05/2000
31	CHOUDHARY REMSHA IQBAL (S.Y.B.Sc)	10	10/03/1999
32	SHAIKH RUMANA RAFIQUE (S.Y.B.Sc)	11	16/10/1999
33	ASMA BANO ABDUL AZIZ (S.Y.B.Sc)	12	15/06/1999
34	KHAN HAJRA SHOEB (S.Y.B.Sc)	17	14/12/1998
35	SAYED NIKHAT FAZAL (S.Y.B.Sc)	18	24/08/1999





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36	SHAIKH AASIYA BEGAM ALI (S.Y.B.Sc)	19	25/05/1999
37	SHAIKH TEHNEET DAWOOD (S.Y.B.Sc)	21	13/01/1999
38	SHAIKH TEHREEM AJMER AHMED (S.Y.B.Sc)	22	24/07/1999
39	KHAN RAHAT PARVIN ANEES (S.Y.B.Sc)	23	1/04/1998
40	KHAN RUBEENA BANO MUSTAFA (S.Y.B.Sc)	24	02/04/2000
41	ANSARI TUBA MOHAMMED YUSUF (S.Y.B.Sc)	26	30/07/1999
42	KULSUM KHATOON MOHD. MOGHEES (S.Y.B.Sc)	29	11/09/1999
43	SHIRGAOKAR REHAN SATTAR (S.Y.B.Sc)	30	31/12/1995
44	KHAN NASHRA SARFARAZ ALAM(S.Y.B.Sc)	32	22/05/1999
45	KUPE SHUMAEDA RIYAZ AHMED (S.Y.B.Sc)	34	3/10/1999
46	SHAIKH SHEMAMA MOHD. ASIM (S.Y.B.Sc)	35	28/02/1999
47	SAYYED BISMILLAH KAUSAR ABDUL RAUF (S.Y.B.Sc)	39	20/12/1999
48	SAYYED TASMIYA NASEM HUSAIN (S.Y.B.Sc)	44	
49	RUKHSAR FATIMA IMTIYAZALAM (S.Y.B.Sc)	46	
50	KHAN NAGMA PARVEEN HAFIZUR REHMAN (S.Y.B.Sc)	47	6/07/1998
51	HAMDULE AYESHA HAMZA (S.Y.B.Sc)	48	26/12/1999
52	SHAIKH AREEBA ANAS AHMED (S.Y.B.Sc)	50	07/05/1999





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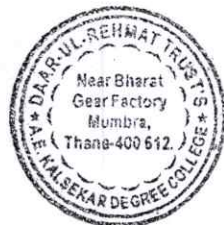
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53	SHAIKH SHUMAILA FAIZAN AHMED (S.Y.B.Sc)	51	1/1/2000
54	SHAIKH NABILA ARSHI KHALID IQBAL (S.Y.B.Sc)	52	12/06/1999
55	ANSARI ANAN ALI HUSSAIN (S.Y.B.Sc)	61	28/11/2000
56	SHAIKH FATIMA BI MOHD. ASGAR (S.Y.B.Sc)	62	
57	KHAN MARYAM MOHD. TAHIR (S.Y.B.Sc)	65	4/02/1999
58	KHAN FALAK SAID AHMED (S.Y.B.Sc)	67	1/06/1999
59	SHAIKH AAYESHA AKHTAR (S.Y.B.Sc)	69	4/06/1999
60	NAIK AAFIYA ISMAIL (S.Y.B.Sc)	72	18/11/1999
61	SHAIKH FATIMA AFZAL (S.Y.B.Sc)	73	2/01/2000
62	SHAIKH ANAM ANDUL RAUF (S.Y.B.Sc)	75	
63	SHAIKH ASRA BI MOHD. QURESH (S.Y.B.Sc)	81	21/06/1998
64	SAYYED NAMIRA GUFAN ALAM (S.Y.B.Sc)	89	06/01/2000
65	SHAIKH UZMA AFREEN IQHLAQUE (S.Y.B.Sc)	53	03/12/1998
66	THOKAN NIDA ABDUL GAFFAR (S.Y.B.Sc)	45	07/04/2000
67	ANSARI SHAHANA MOHAMMAD FURQAN (S.Y.B.Sc)	27	16/10/1998

**Principal**DAAR-UL-REHMAT TRUST'S
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