

Project work completion certificates

The project work of the students is in accordance with the PG syllabus prescribed by the RTM Nagpur University, Nagpur. All students have to carry out research based project work in Semester IV. The guidelines for the same are given below:

RASHTRASANT TUKADOJI MAHARAJ NAGPUR UNIVERSITY
NAGPUR

M. Sc. Botany Syllabus

Semester pattern with Choice Base Credits System

2017 -18 and Onwards

1

S. No.	Semester	Course Code / Paper	Title of the Paper	Course / Paper	Theory (Hours)	Practical (Hours)	Number of Credits
20	Three	3P2	Elective		06	100	04
21	Three	3S1	Seminar		01	25	01
22	Four	4T1	Cell and Molecular Biology-II	I	03	80 + 20	04
23	Four	4T2	Plant Biotechnology and Plant Breeding	II	03	80 + 20	04
24	Four	4T3	Elective II	III	03	80 + 20	04
25	Four	4T4	Foundation II	IV	03	80 + 20	04
26	Four	4P1	Cell and Molecular Biology-II, Plant Biotechnology and Plant Breeding	Pract. I		100	04
27	Four	4P2	Project			100	04

- In each semester student will have to give seminar on any topic relevant to the syllabus encompassing the recent trends and development in that field. The topic of the seminar will be decided at the beginning of each semester in consultation with supervising teachers. The students have to deliver the seminar which will be followed by discussion. The seminar will be open to all the teachers of the department, invitees and students.
- The students will have to carry out the research based project work in lieu of practical in the fourth semester in the department or depending on the availability of placement; he/she will be attached to any of the national/ regional/ private research institute / organization for the duration of the fourth semester. The student will be randomly allotted the priority number for the selection of the supervisor in the third semester. The student in consultation with supervisor will finalize the topic of the project work at the third semester.
- The regular full time teacher of the department / contributory teacher approved by university / scientist of government / private research laboratory appointed by university as a contributory teacher and having M. Phil. or Ph. D. degree can supervise the project work of the student.

5

APPENDIX - I Scheme of teaching under choice based credit system for M. Sc. Program in Botany.

S. No.	Semester	Course Code / Paper	Title of the Paper	Course / Paper	Teaching Scheme		
					Theory (Hours)	Practical (Hours)	Number of Credits
1	One	1T1	Microbiology, Algae and Fungi	I	04	04	04
2	One	1T2	Bryophytes & Pteridophytes	II	04	04	04
3	One	1T3	Palaeobotany and Gymnosperms	III	04	04	04
4	One	1T4	Cytology and Genetics	IV	04	04	04
5	One	1P1	Algae, fungi, Bryophytes	Pract. I	-	-	04
6	One	1P2	Pteridophytes, Gymnosperms, Palaeobotany, Cytology & Genetics	Pract. II	-	-	04
7	One	1S1 Seminar					01
8	Two	2T1	Plant Physiology and Biochemistry	I	04	04	04
9	Two	2T2	Plant Development and Reproduction	II	04	04	04
10	Two	2T3	Cell and Molecular Biology-I	III	04	04	04
11	Two	2T4	Angiosperms-I and Ethnobotany	IV	04	04	04
12	Two	2P1	Plant Physiology, Plant Biochem., Plant Development & Reproduction	Pract. I	-	-	04
13	Two	2P2	Cell and Molecular Biology I, Angiosperms I	Pract. II	-	-	04
14	Two	2S1 Seminar					01
15	Three	3T1	Plant Ecology and Conservation Biology	I	04	04	04
16	Three	3T2	Angiosperms-II	II	04	04	04
17	Three	3T3	Elective - I	III	04	08	04
18	Two	3T4	Foundation I	IV	04	-	04

2

Subject Wise Core Elective Papers:

M. Sc. Subject	Core elective paper to be opted in Semester III	Core elective paper to be opted in Semester IV
Botany	Molecular Biology and Plant Biotechnology - I	Molecular Biology and Plant Biotechnology - II
	Reproductive Biology of Angiosperms - I	Reproductive Biology of Angiosperms - II
	Advanced Phycology and Hydrobiology - I	Advanced Phycology and Hydrobiology - II
	Mycology and Plant Pathology - I	Mycology and Plant Pathology - II
	Plant Physiology - I	Plant Physiology - II
	Palaeobotany - I	Palaeobotany - II
	Palynology - I	Palynology - II

Foundation Course: (Candidate can opt for any one foundation course paper in the Semester III and IV; however, student shall opt for this paper from any other subject other than his /her main subject for post-graduation.

List of foundation courses is available in the Appendix - A of Direction No. 13 of 2017

6

Pooja Dongarwar

Shri Mathuradas Mohota College of Science, Nagpur
Post Graduate Department of Botany

CERTIFICATE

This is to certify that his Project Report contains the bonafied Record of the work of Mr. /Miss/Mrs. **POOJA EKNATH DONGARWAR** of **M.Sc. BOTANY, Semester-IV** during the academic year **2021-2022**

The candidate has satisfactorily presented the project work titled **Study of Ethnomedicinally important plants of Navegaon Bandh** For completion of the syllabus prescribe by **Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur** for the subject **BOTANY**.

Date: 01-06-2022

Place: Nagpur

Good
satisfactorily
completed
project work


Examiner


Dr. A. A. Fulzele *Sawane*

Rakhi Prakash Rangari

Shri Mathuradas Mohota College of Science, Nagpur

Post Graduate Department of Botany

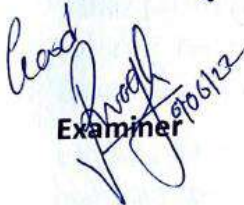
CERTIFICATE


This is to certify that his Project Report contains the bonafied Record of the work of Mr. /Miss/Mrs. **Rakhi P. Rangari** of **M.Sc. BOTANY, Semester-IV** during the academic year **2021-22**.

The candidate has satisfactorily presented the project work titled
**"TO STUDY THE ETHNOMEDICINALLY IMPORTANT
PLANTS OF TAHSIL KATOL OF NAGPUR DISTRICT"**
"For completion of the syllabus prescribe by **Rashtrasant Tukadoji
Maharaj Nagpur University, Nagpur** for the subject **BOTANY**."

Date: 01-06-2022

Place: Nagpur.


Examiner


Dr. A. M. Sawane

Guide

Dr. A. A. Fulzele

Sanjivani Nagorao Lokhande

SHRI MATHURADAS MOHOTA COLLEGE OF SCIENCE, NAGPUR

Post Graduate Department of Botany

CERTIFICATE

This is to certify that this Project contains the bonafide project work of Mr. / Miss / Mrs. **Sanjivani Nagorao Lokhande** of **M.Sc. Botany Semester – IV** during the academic year 2021-2022.

The candidate has satisfactorily presented the project titled **Diversity of Fungi on Some Medicinal Plants** for completion of the syllabus prescribed by Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur for the subject **BOTANY**.

Date: 01-06-2022

Signature of the Supervisor

Dr Mrs A-M-Sawane -

Good
Satisfactorily
Completed project work

External Examiner

Head
Department of Botany

S.M.Mohota college of science, Nagpur

Savita Sunil Mohanmala

SHRI MATHURADAS MOHOTA COLLEGE OF SCIENCE, NAGPUR

Post Graduate Department of Botany

CERTIFICATE

This is to certify that this Project contains the bonafide project work of Mr. / Miss / Mrs.
Savita Sunil Mohanmala

of **M.Sc. Botany Semester – IV** during the academic year 2021-2022

The candidate has satisfactorily presented the project titled **Phytochemical Analysis And Antimicrobial Activity of some Medicinal Plants** for completion of the syllabus prescribed by Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur for the subject **BOTANY**

Date: 01/06/2022

Signature of the Supervision

Dr Mrs A.M. Sawale -

Lead
Satisfactorily
Completed
Project work
10/06/22
External Examiner

Head

Department of Botany

S.M. Mohota College of Science

Soniya Ashok Lute

Shri Mathuradas Mohota College of Science, Nagpur

Post Graduate Department of Botany

CERTIFICATE

This is to certify that his Project Report contains the bonafied Record of the work of Mr. /Miss/Mrs. ***Soniya Ashok Lute*** of ***M.Sc. BOTANY, Semester-IV*** during the academic year ***2021- 22***.

The candidate has satisfactorily presented the project work titled ***“TO STUDY THE POLLENS OF DIFFERENT TRIBES OF FAMILY ASTERACEAE”*** For completion of the syllabus prescribe by ***Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur*** for the subject ***BOTANY***.

Date: 01-06-2022

Place: Nagpur

Ceased
Satisfactorily
completed project work

Examiner



Dr. A. M. Sawane

Swati Lanjewar

Shri Mathuradas Mohota College of Science, Nagpur

Post Graduate Department of Botany

CERTIFICATE

This is to certify that his Project Report contains the bonafied Record of the work of Mr. /Miss/Mrs. **Swati G. Lanjewar M.Sc. BOTANY, Semester-IV** during the academic year **2021-22**

The candidate has satisfactorily presented the project work titled "**Phylloplane Fungi Of Some Religious Plant Form Nagpur**" For completion of the syllabus prescribe by **Rashtrasant Tukadoji Maharaj Nagpur University**, Nagpur for the subject **BOTANY**.

Date:

Place:

Good
satisfactorily
completed project work
Examiner
[Signature]
01/10/22

Dr. Mrs. A. M. Sawane Mam

[Signature]
Dr Mrs A-M-Sawane

Swati D. Timane

Shri Mathuradas Mohota College of Science, Nagpur

Post Graduate Department of Botany

CERTIFICATE

This is to certify that his Project Report contains the bonafied Record of the work of Mr. /Miss/Mrs. **Swati D. Timane M.Sc. BOTANY, Semester-IV** during the academic year **2021-22**


The candidate has satisfactorily presented the project work titled "**Morphological and anatomical study of leaves of some members of family convolvulaceae Form Nagpur**" For completion of the syllabus prescribe by **Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur** for the subject **BOTANY**.

Date:

Place:

Good
Satisfactorily
Completed project work
Examiner
9/10/22

Dr. Mrs. A. M. Sawane Mam


Dr. Mrs. A. M. Sawane.

Yamini Shankar Moundekar

Shri Mathuradas Mohota College of Science, Nagpur

Post Graduate Department of Botany


CERTIFICATE

This is to certify that his Project Report contains the bonafied Record of the work of Mr. /Miss/Mrs. **Yamini S. Moundekar** of **M.Sc.BOTANY, Semester-IV** during the academic year **2021-22**.


The candidate has satisfactorily presented the project work titled "**TO STUDY THE ADAPTATION IN FLOWERS FOR POLLINATION, POLLEN PRODUCTION AND POLLEN VIABILITY**" For completion of the syllabus prescribe by **Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur** for the subject **BOTANY**.

Date:
Place:

Read
Satisfactorily
Completed
Project work


Examiner

DATE


Dr Mrs A. M. Sawade .

Azim Usman Shaikh

CERTIFICATE

This is to certify that his Project Report contains the bonafied Record of the work of Mr. /Miss/Mrs. **AZIM U SHEIKH** of **M.Sc. BOTANY, Semester-IV** during the academic year **2021-22**.

The candidate has satisfactorily presented the project work titled **"TO CULTURE THE KERATINOPHILIC FUNG AND ISOLATE ENZYME PROTEASE FROM IT"** For completion of the syllabus prescribe by **Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur** for the subject **BOTANY**.

Date:

Place:

Examiner

Prakash J. Patil
01/06/22
Good Satisfactorily completed project work

Dr. A. A. Fulzele

A. A. Fulzele
01/06/22

Gauri Bhange

Shri Mathuradas Mohota College of Science, Nagpur

Post Graduate Department of Botany

CERTIFICATE

This is to certify that his Project Report contains the bonafied Record of the work of Mr. /Miss/Mrs. **Gauri Nandkishor Bhange** of **M.Sc. BOTANY**,

Semester-IV during the academic year **2021-22**.

The candidate has satisfactorily presented the project work titled **"EFFECT OF APPLICATION OF VERMICOMPOST ON VEGETATIVE GROWTH OF WHEAT PLANT AND IMPACT OF VERMICOMPOST ON NUTRIENT QUALITY OF SOIL"** For completion of the syllabus prescribe by *Rashtrasant Tukadoji Maharaj Nagpur University*, Nagpur for the subject **BOTANY**.

Date:

Place: Nagpur

*Examined
Satisfactorily
Completed project work
10/11/22*

Examiner

*Dr. A. A. Fulzele
11/11/22*

Dr. A. A. Fulzele

Isarat Fatima R. Ahmed

Shri Mathuradas Mohota College of Science, Nagpur

Post Graduate Department of Botany

CERTIFICATE

This is to certify that his Project Report contains the bonafide Record of the work of Miss. **ISARAT FATIMA R. AHMED** of **M.Sc. BOTANY, Semester-IV** during the academic year **2021-2022**.

The candidate has satisfactorily presented the project work titled "**PRODUCTION OF ACID PROTEASE BY KERATINOPHILIC FUNGI ISOLATED FROM BIRD'S FEATHERS**" For completion of the syllabus prescribe by **Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur** for the subject **BOTANY**.

Date: 1-6-2022

Place: NAGPUR

Good
Satisfactorily completed
Project work
✓
Examiner
1/6/22


1/6/22

Dr. A. A. Fulzele

Lokesh R. Meshram

**SHRI MATHURADAS MOHOTA COLLEGE OF SCIENCE,
NAGPUR**

Post Graduate Department of Botany

CERTIFICATE

This is to certify that his Project Report contains the bonafied Record of the work of Mr. /Miss/Mrs. **Lokesh R. Meshram** of **M.Sc. BOTANY**, Semester-IV during the academic year **2021-2022**

The candidate has satisfactorily presented the project work titled **INITIATION OF E-DATA BASE TO GENERATE E-HERBARIA OF (...FAMILIES) OF FLOWERING PLANTS FOR NAGPUR DISTRICT**

For completion of the syllabus prescribe by **Rashtrasant Tukadoji Maharaj Nagpur University**, Nagpur for the subject **BOTANY**.

Date:

Place:

*Very Good
Satisfactorily
project work*
completed
[Signature]
01/06/22
Examiner

[Signature]
11/6/22
Dr. A. A. Fulzele

Monika P. Sandel

CERTIFICATE

This is to certify that his Project Report contains the bonafied Record of the work of Miss. Monika Pramod Sandel of **M.Sc. BOTANY, Semester-IV** during the academic year **2021-2022**.

The candidate has satisfactorily presented the project work titled **"Production of enzyme Protease from Keratinophilic Fungi isolated from Bird Feather"** For completion of the syllabus prescribe by **Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur** for the subject **BOTANY**.

Date: 1/6/2022

Place: Nagpur

Examined
Satisfactorily
Completed
Project work
Examiner
1/6/22


1/6/22
Dr. A. A. Fulzele


Visit to Ankur R & D Facility, Neri and Vena Nursery


BRIEF REPORT OF RESEARCH INSTITUTE VISIT TO ANKUR R & D FACILITY, NERI AND VISIT TO VENA NURSERY

A research institute visit to Ankur R & D Facility, Neri and visit to Vena Nursery was organised by Department of Botany for BSc Semester VI and PG students on 10.03.2022. A total of 94 students (63 UG and 31 PG) participated in this field work. 8 teachers and 2 support staff members accompanied them.

In the first part of the excursion, the students visited the Ankur R & D Facility at Neri which is located at a distance of around 22 km from the college. Ankur R & D Facility is one of the leading plant breeding institutes in Maharashtra and was established more than 44 years ago. A brief introduction about the research activities conducted at the center was given by Dr. Kashikar and Dr. Pratiksha Kashikar, the directors of Ankur Seeds Pvt. Ltd. The students visited various laboratories like entomology, pathology, tissue culture, etc. and got a chance to interact with the scientists working there. They observed the working of various high-end instruments, callus and tissue cultures, seeds of developed varieties, as well as pathogens and pests attacking the plants. The visit ended with feedback from teachers and students.

After the research institute visit, the students visited Vena Nursery. Here the students observed horticulturally important plant varieties and interacted with the staff. They also learnt about some of the vegetative propagation techniques widely used in horticulture.


Ms. S. D. Khalatkar
Teacher incharge


Dr. A. J. Fulzele
Head, Dept. of Botany

Permission letter from Principal for organising the visit

Application for grant of permission Study Tour / Excursion

To

The Principal,
Shri Mathuradas Mohota College of Science,
Nagpur

Sir,
We the students of class B.Sc./M.Sc Semester VI/II & IV Batch
B.Gis, ICB intend to go to
Ankur Seeds Pvt. Ltd. and Vena Nursery on / from
on 10 March 2022 by BUS.

We have hired MSRTE / Private bus of
Sawan tours and travels travel company bearing number

Signature list of students, their vaccination certificates and permission letters from parents are attached herewith.

The following staff has agreed to accompany us on the study tour / excursion.

Name of Staff	Mobile	Department	Signature
1 Ms. S. D. Khalatkar	86000 44153	Botany	<i>[Signature]</i>
2 Dr. A. A. Fulzele	9890233688	Botany	<i>[Signature]</i>
3 Dr. (Mrs) A. M. Sawane		Botany	<i>[Signature]</i>
4 Mr. Manish Merhmen	9860466872	Botany	<i>[Signature]</i>
5 Mr. Pawan K. Tete	9766237615	Botany	<i>[Signature]</i>
6 Mr. Lokesh G. Salame	8390492990	Botany	<i>[Signature]</i>
7 Ms. Harsha D. Mankar	7387264834	Botany	<i>[Signature]</i>
8 D. G. Dhasbade		Botany	<i>[Signature]</i>

9. S. Y. Aigiwale 7387674195 Botany *[Signature]*
10. Dr. Shubhagini M. Baspande 7875359516 Botany *[Signature]*

The teachers shall not be responsible for accident and mechanical fault of the transport vehicle that may develop during the journey.

We the above mentioned teachers are accompanying the students and do undertake the responsibility of the management of the trip / tour / excursion.

[Signature]
Ms. S. D. Khalatkar *[Signature]*
Name and signature of Teacher Incharge: Dr. Manish Merhmen

Name and signature of Student Tour Organiser

1. Mayank H. Yawalkar *[Signature]*
2. Prathmesh R. Chauhan *[Signature]*
3. Niraj R. Parare M.Sc *[Signature]*
4. Ku. Soniya A. Lute *[Signature]* (M.Sc. IV sem)
5. Mahima Kothadi *[Signature]*

Permitted

Finan

Remarks of Principal
S.M.M. College of Science
Nagpur



Request letter to Dr. Kashikar for permission to visit institute



Nagpur Shikshan Mandal's
**SHRI MATHURADAS MOHOTA COLLEGE OF
SCIENCE, NAGPUR**

Sakkardara Square, Umrer Road
Nagpur- 440024 Tel. : 0712-
2744992 Fax : 0712-2744992

E-Mail : mohotacollege@yahoo.co.in Website : www.mohotasci.edu.in

President
A.K. Gandhi
Tel: 2426883

Secretary
DR. HARISH RATHI
Tel: 9730037001

Principal
DR. J.R. DONTULWAR
Tel: 9890943225

To

Dr. Pratiksha Mayee
Deputy General Manager
Ankur Seeds Pvt. Ltd.
Nagpur

Date: 04.03.2022

Subject: Request to visit Ankur Seeds

Dear Madam,

Season's Greetings!

The contribution of Ankur Seeds Pvt. Ltd towards the agriculture sector is very well known. We have immense respect towards the founders of this establishment and wish to create awareness about the work done at this laboratory among our students. As plant tissue culture, hybridization, plant breeding, and seed technology form an integral part of the undergraduate and postgraduate syllabus of Botany, we are interested in organising an institute visit to Ankur Seeds. This would be an opportunity for our students to gain first-hand knowledge from the scientists and experts working at the laboratory. Nearly 110 students along with staff would be visiting the institute. We were thinking of organising the visit on March 10th, 2022. Kindly let us know if it is possible to visit the laboratory and whether this date is convenient.

We would be highly obliged if a visit can be arranged for the students where they would be explained about the ongoing work, laboratory facilities and other details of seed technology.

Hoping for a positive response from your end.

Thank you.

Best regards ,

Dr. Jeevan R. Dontulwar

Principal
S.M.M. College Of Science
Nagpur



Request to visit Ankur Seeds

Fri, Mar 4, 2022 at 3:14 PM

Pratiksha <pratiksha@ankurseeds.com>
Reply-To: Pratiksha <pratiksha@ankurseeds.com>
To: Shamali Khalatkar <shamalidkhalatkar@gmail.com>
Cc: "Dr. Ashwin Kashikar" <ashwinkashikar@ankurseeds.com>

Dear Madam,
Thank you for your interest in visiting Ankur Seeds Research and Development facility at Ner. Yes, 10th March is convenient for us. You can reach here around 10am. The students would be split in smaller batches and laboratory visit would be planned for them.


Please note that canteen facility is available in our premises. Simple Food (Roti, Aloo Gobi, Jeera rice, Dal fry, Papad, Salad, Pickles) can be arranged for them at a nominal rate of Rs 100 per person. Let us know in advance if you wish to avail this facility. You can carry your own tiffins too.

Kindly consider this reply as a confirmation for the visit.

Have a good day,

Rtn. Dr Pratiksha Mayee (Kashikar)
Deputy General Manager (Research)
Ankur Seeds Pvt Ltd
Nagpur
India
+918886803974
Vice President Rotary Club of Nagpur Downtown 21-22.

[Quoted text hidden]

 Request to visit Ankur Seeds.pdf
379K

Screenshot of email communication with Dr. Kashikar

Gratitude letter to Dr. Kashikar



Nagpur Shikshan Mandal's

SHRI MATHURADAS MOHOTA COLLEGE OF SCIENCE, NAGPUR

Sakkardara Square, Umrer Road Nagpur- 440024

Tel. : 0712-2744992 Fax : 0712-2744992

E-Mail : mohotacollege@yahoo.co.in Website : www.mohotasci.edu.in

President
A.K. Gandhi
Tel: 2426883

Secretary
DR. HARISH RATHI
Tel: 9730037001

Principal
DR. J.R. DONTULWAR
Tel: 9890943225

Date: 10.03.2022

To

Dr. Pratiksha Mayee
Deputy General Manager
Ankur Seeds Pvt. Ltd.
Nagpur

Respected Madam,

We express our deep sense of gratitude towards you and your team at Ankur Seeds R & D Facility for allowing the Botany students of B.Sc. Semester VI and M.Sc. Botany Semester I and IV students to visit your institute. I am sure that our students have definitely benefitted from the valuable knowledge shared by you.

We extend our thanks and hope for guidance and support from you in such academic endeavor in the future.

Thanking you.

With regards,

Jivan

Dr. Jeevan R. Dontulwar
Principal
S.M.M. College of Science
Nagpur



List of students participating in the field visit

Department of Botany
Sri Mahatma Jyoti College of Science, Nagpur
B.Sc. SEMESTER VI (SESSION 2021-22)
Research Institute Visit To Ankur Seeds R & D Facility and Nursery Visit To Venu Nursery
DATE: 10.03.2022
Batch III and III2

Sr. No.	Name of students	Attendance (Departure from college)	Attendance (Departure from Ankur Seeds)	Attendance (Departure from Venu nursery)
1	Prathmesh Chavan	P	P	P
2	Dipin Kavale	P	P	P
3	Prayag Sanyal	P	P	P
4	Chaitali Pawar	P	P	P
5	Vinaykumar	P	P	P
6	Pratik Kulkarni	P	P	P
7	Arushi Shinde	P	P	P
8	Milal Phansare	P	P	P
9	Arati Thakre	P	P	P
10	Mahesh Gawade	P	P	P
11	Arushi Shinde	P	P	P
12	Ashwini Bhatnagar	P	P	P
13	Pratik Revankar	P	P	P
14	Sukhvi Ghosh	P	P	P
15	Mihir Mahajan	P	P	P
16	Khushi Jangit	P	P	P
17	Aayush Dhangar	P	P	P
18	Amit Madan	P	P	P
19	Aniket Gadhane	P	P	P
20	Anshul Dabke	P	P	P
21	Bhuvanika Yadav	P	P	P
22	Hemant Bhargava	P	P	P
23	Sakshi Khandekar	P	P	P
24	Sakshi Mishra	P	P	P
25	Himanshi Lakshmi	P	P	P
26	Pooja Thakur	P	P	P
27	Shreya Khatke	P	P	P
28	Prinjal Gaur	P	P	P
29	Falguni Shinde	P	P	P

29 + 19 = 48 AP 7334

Department of Botany
Sri Mahatma Jyoti College of Science, Nagpur
B.Sc. SEMESTER VI (SESSION 2021-22)
Research Institute Visit To Ankur Seeds R & D Facility and Nursery Visit To Venu Nursery
DATE: 10.03.2022
Batch III and III2

Sr. No.	Name of students	Attendance (Departure from college)	Attendance (Departure from Ankur Seeds)	Attendance (Departure from Venu nursery)
1	Mayank Vanskar	P	P	P
2	Chaitali Tamankar	P	P	P
3	Sajal Pillare	P	P	P
4	Vishal Ninje	P	P	P
5	Aarav A. Shah	P	P	P
6	Shravan Tambekar	P	P	P
7	Prachi Gite	P	P	P
8	Sairoh Nagare	P	P	P
9	Tejasvi Gadhane	P	P	P
10	Himani Bhogdar	P	P	P
11	Srushti Mishra	P	P	P
12	Surajit Yadav	P	P	P
13	Sakshi Pilevan	P	P	P
14	Shradha Kumbhar	P	P	P
15	Shruti Kulkarni	P	P	P
16	Uzama Khan	P	P	P
17	Durga Kothale	P	P	P
18	Shruya Shelik	P	P	P
19	Sirasa Khan	P	P	P
20	Sanskriti Prasad	P	P	P
21	Anvita Chaudhari	P	P	P

19

Batch G3

Sr. No.	Name of students	Attendance (Departure from college)	Attendance (Departure from Ankur Seeds)	Attendance (Departure from Venu nursery)
1	Mahima Kothadi	P	P	P
2	Mayuri Sonwane	P	P	P
3	Anjali Jadhav	P	P	P
4	Mayur Bhatnagar	P	P	P
5	Pratik Devtale	P	P	P
6	Manchika Gokwad	P	P	P
7	Orkeshwari Kute	P	P	P
8	Vishal Giri	P	P	P
9	Sandip Katore	P	P	P
10	Disha Dalpande	P	P	P
11	Aditya Nimbhorkar	P	P	P
12	Dhiraj Dhanvijay	P	P	P
13	Kasturi Bawane	P	P	P
14	Kashik Mishra	P	P	P
15	Durga Shende	P	P	P

M.Sc. Botany Semester I

Sr. No.	Name of students	Attendance (Departure from college)	Attendance (Departure from Ankur Seeds)	Attendance (Departure from Venu nursery)
1	Aishwarya Narayan Dhanraj	P	P	P
2	Ashwini Sanyal, Roke	P	P	P
3	Hema Biparna Dhanraj	P	P	P
4	Idhika Manoj Shaha	P	P	P
5	Kirti Sahasini Saha	P	P	P
6	Maheshwari Manohar Dhanraj	P	P	P
7	Nikhil Prady Dhanraj	P	P	P
8	Poojita Chandrakant Sharma	P	P	P
9	Ritika Khemraj Shingde	P	P	P
10	Rupali Govardhan Nimbhorkar	P	P	P
11	Sakshi Mahesh Dhanraj	P	P	P
12	Sneha Sunil Dhanraj	P	P	P
13	Vandana Kanwar Jante	P	P	P
14	Rajashree Kawale	P	P	P

M.Sc. Botany Semester IV

Sr. No.	Name of students	Attendance (Departure from college)	Attendance (Departure from Ankur Seeds)	Attendance (Departure from Venu nursery)
1	Ashu Umashree Shinde	P	P	P
2	Gauri Namdeo Bhargava	P	P	P
3	Jyoti Anam Alimud Rashedi	P	P	P
4	Lokesh Karikshana Nestrani	P	P	P
5	Meha Prasad Sarda	P	P	P
6	Murali Prasad Sarda	P	P	P
7	Niraj Rajesh Parate	P	P	P
8	Prathmesh Prasad Meplicar	P	P	P
9	Sakshi Dhanraj Chitambar	P	P	P
10	Sanjivani Nagare Lechande	P	P	P
11	Savita Suresh Mankar	P	P	P
12	Sayalee Vinita Ghante	P	P	P
13	Sriya Ashok Late	P	P	P
14	Swaraj Rajesh Bawankar	P	P	P
15	Swati Diliprao Tirase*	P	P	P
16	Swati Govind Laxkar	P	P	P
17	Yashika Shankar Mankar	P	P	P

Glimpses of research institute visit to Ankur R & D Facility, Neri





Visit to Vena Nursery

Tour report submitted by MSc student

Shri Mathuradas Mohota College Of Science, Nagpur

Ku. Soniya Ashok Lute



TOUR REPORT

SHRI MATHURADAS MOHOTA COLLEGE OF SCIENCE,
NAGPUR

CERTIFICATE

This is to certify that Mr. / Ms. Ku. Soniya Ashok Lute of
class M.Sc Semester IV batch _____ participated actively in the
Research Institute visit organized by Department of Botany to
Ankur Seeds, Nexi & Vena Nursery, Nagpur
on 10-02-22 during the session -2021-2022

He / She has successfully completed the field duty.

Signature of Teacher in-charge

Signature of Head

Date: 20-04-22

Scanned with OKEN Scanner

Scanned with OKEN Scanner

Name :- Ku. Soniya Ashok Lute

Class :- M.Sc. sem IV

Subject :- Botany

Topic :- Botany Excursion Tour Diary

Place visited :- 1] Ankur's Seed Pvt Ltd.

2] Vena Nursery

Scanned with OKEN Scanner



ACKNOWLEDGMENT

I express my deep sense of gratitude to Dr. A. A. Fulzele, Associate Professor, Head of Department, Botany, for his valuable guidance. I thank him for constantly backing throughout the course of this tour visit, which helped us to sustain our interest.

I extend my sincere regards and heartily thank for the precious help and coordination received from the Dr. A. Sawane, Dr. M. Meshram and Dr. S. Khalatkar.

I would also like to thank Pooja Yeto sir and Lokesh Salame sir.

It gives my unbounded pleasure in expressing my sincere gratitude to all those who have lent a helping hand and guided us.

Ku. Soniya A. Lude

Scanned with OKEN Scanner



Centrifuge



Automated PCR machine



Stereoscopic microscope

ANKUR BREEDING SUPPORT CENTRE

March 10, 2022 ; Nagpur : An educational short day tour was arranged for PG & UG students. The visit was to an Ankur Breeding Support Centre, Neri, Nagpur. We were so excited for this tour as we were going to learn something new apart from our daily college studies. All the teachers and students gathered at college at 8 am. We reached on time by travels to Ankur seeds, Neri at 9:45 am which was our first stop.

The visit started with grouping the students into three groups and one of the member of Ankur Seeds team was the as a guide for each group & Dr. Ashutosh Khobragade sir guided our group.

Firstly we visited Molecular Biology lab. Here we learned about hybrid formation, difference between hybrid and variety & applications of these lab. Next we saw the PCR machine and also the automated PCR machine.

Scanned with OKEN Scanner



Bioinformatics Lab



Cytology lab



Callus Culture



Pathology Lab

Next we moved towards the **Bioinformatics lab** which was used for data analysis. Then next to it was a **Tissue Culture lab**, where we learned about the techniques used in tissue culture. There they done the anther culture of chilli and Rice. Next to it was an autoclave lab & then the **cytology lab**. In these lab there was a **Platly Analyser** which works on the principle of capillary flow. Also there was a **stereoscopic microscope**. Then beside it, there was a culture room then **dirflow laminar room** with heat sterilizer, **Dry heat sterilizer** and then the **Callus culture room** of Anther.

Then next on the first floor there was a **Pathology Lab** were study of the plant diseases and causal organism was done. Beside to it was a **Fluor testing laboratory** followed by **yeast plasma room** & **Rice milling lab**. After that we moved towards **Bio-chemistry lab** were with the help of **TLC plate** & **spectrophotometer** quality of chilli was determined. Here, there



Tissue Culture Lab



Entomology Lab



GNG Lab



Conference Room

components i.e. Capsicine, astacalox & oleosin were taken into consideration to select a best variety. They also told us about the three different varieties of chilli i.e. Pride, Tejasmini & Sarange.

Next to it was an **Entomology Lab** and **Extra tissue culture lab** for cotton stem and shoot. And also there was a new branch named as **GNG** i.e. **Genetic Engineering Pvt. Ltd.** In front of Entomology Lab there was a **Dark room** used as seed bank.

We all gathered together in a conference hall which was situated on 2nd floor were the manager **Dr. Kashika** six interacted with us. Some students among the UG and PG shared their views. After that we all together had a lunch in canteen.



Amaryllis sp.

VENA NURSERY

We visited Vena Nursery, Amravati road, Nagpur at about 2:30 pm. There we saw many beautiful plants. The nursery was distributed over several acres. Different varieties of plants were there, among which some were of medicinal values and some were of ornamental use in gardens. Some of us bought plants from nursery like Gerbera and Adenium. Our teachers well explained the different varieties of plants & their special characters. Some of them are as follows,

1] Amaryllis sp.

Kingdom : Plantae
 Clade : Angiosperm
 Order : Asparagales
 Family : Amaryllidaceae
 Genus : Amaryllis

Common name - Belladonna lily.

Scanned with OKEN Scanner



Adenium obesum



Bougainvillea

Uses : Alkaloids help for depression, zigueus & anxiety.

2] Adenium obesum

Kingdom : Plantae
 Clade : Angiosperm
 Order : Gentianales
 Family : Apocynaceae
 Genus : Adenium
 Species : obesum

Common name - Desert rose

Uses - Adenium obesum produces a sap in its roots and stem that contains cardiac glycosides. This sap is used as arrow poison for hunting large game throughout much of Africa & as a fish toxin.

3] Bougainvillea

Kingdom : Plantae
 Clade : Angiosperm
 Order : Caryophyllales
 Family : Nyctaginaceae
 Genus : Bougainvillea
 Species : glabra

Scanned with OKEN Scanner



Gerbera jamesonii



Plumeria alba

Common name - Bougainvillea
Uses - Bougainvillea is used to treat stomach aches, inflammation and as an antiseptic.

4] Gerbera jamesonii
Kingdom : Plantae
Clade : Angiosperm
Order : Asterales
Family : Asteraceae
Genus : Gerbera
Species : jamesonii

- Common name - Gerbera
- Uses - Gerbera is widely used as decorative garden plant or as cut flowers.

5] Plumeria alba
Kingdom : Plantae
Clade : Angiosperm
Order : Geraniales
Family : Apocynaceae
Genus : Plumeria
Species : alba
Common name - Chafa



Dracaena reflexa



Rhapsis excelsa

Uses - It is often cultivated as an ornamental plant. Sometimes used to make necklaces which decorate coffins.

6] Dracaena reflexa
Kingdom : Plantae
Order : Asparagales
Family : Asparagaceae
Genus : Dracaena
Species : reflexa

- Common name - Song of India
- Uses - It is used to cure malarial symptom, Poisoning, dysentery, diarrhoea, dysmenorrhoea.

7] Rhapsis excelsa
Kingdom : Plantae
Clade : Angiosperm
Family : Araceae
Order : Araceales
Species : Rhapsis
Species : excelsa

- Common name - Bamboo palm
- Uses - The plant has proven successful in removing air-borne toxins within the home.



Ficus benghalensis



Ficus religiosa

8] Ficus benghalensis

Kingdom : Plantae
 Clade : Angiosperm
 Order : Rosales
 Family : Moraceae
 Genus : Ficus
 Species : benghalensis

- Common name - Banyan tree
- Uses - Fruit cooling, useful in diseases of head & blood, depression, nose bleed, etc.

9] Ficus religiosa

Kingdom : Plantae
 Clade : Angiosperm
 Order : Rosales
 Family : Moraceae
 Genus : Ficus
 Species : religiosa

- Common name - Fig tree
- Uses - F. religiosa is used in traditional medicine for about fifty types of disorders including asthma, diabetes, diarrhea, epilepsy & sexual disorders.



Erythrina sp.

10] Erythrina sp.

Kingdom : Plantae
 Clade : Angiosperm
 Order : Fabales
 Family : Fabaceae
 Genus : Erythrina

- Common name - Coral tree
- Uses - It is used as nerve sedative, collyrium in ophthalmia, antiasthmatic, antiseptic and as an astringent.

After that we spent some time having snacks and some dance. We all enjoyed a lot and learned many things from this visit.

I would like to thank all our teachers who made their efforts to take us to a tour and make it successful.

Geology field excursion to Ramtek

Report of Geological Study Tour

Geological field visit is an indispensable part of curriculum. Without field study it is difficult to understand the subject as a whole, this is why Geology is also called as Field science. The grace of this subject lies in the field hence, it is very important to understand various aspects of field training. Final year students were taken to Ramtek for geological field study. Ramtek has a very complex metasedimentary terrain shows prominent structural deformation i.e., Folds. Students were trained to handle Brunton Compass, to identify folds in the field and most important were made familiar with the general lithology of Ramtek. Students were provided with writing pad and pen for field analysis and within a week had to submit the tour report in the department. |

Date: 3rd March 2022 – G1 and G2 batch

4th March 2022 – G3 and G4 batch

Location: Ramtek, Maharashtra.



Permission granted from principal for organisation of geology tour

PERMISSION LETTER

To
The Head
Department of Geology
S.M.M. College of Science
Nagpur

Sir,

Permission is granted for the field excursion of B. Sc Sem-VI to Ramtek dated 3rd and 4th March 2022. You are requested to take necessary steps for the smooth conduct of field trip.

Date: 09-02-2022



Shri
Principal,
Shri. M. Mohota College of Science,
S.M.M. College of Science,
Nagpur

Notice to students

DEPARTMENT OF GEOLOGY NOTICE

All B.Sc. VI Sem students should note that a field excursion is arranged in and around Ramtek on 3rd and 4th March 2022. Interested students should give their names on or before 24th February to the undersigned.

Date: 18/02/2022



Head
Department of Geology

List of students participating in the field work

GEOLOGICAL STUDY TOUR 2021-22

G1

SHRI MATHURADAS MOHOTA COLLEGE OF SCIENCE, NAGPUR
DEPARTMENT OF GEOLOGY, SEM-V ACADEMIC SESSION-2021-22
Batch- G1

Sr. No.	Names of Students	
1.	ABHISHIK R. SARODE	
2.	HARSH D. KOHLAD	
3.	MOHAK O. YSOLKAR	
4.	VEDANT P. AMBARKAR	
5.	MAYURI J. BARAPATRE	
6.	ABHILEET V. MUKHYPYER	
7.	ALISHA A. SHIRAME	
8.	DHRAVISHA A. JAISWAL	
9.	PRATIK S. ROKADE	
10.	SHATAYU D. BHOKRE	
11.	SAYNKA B. RAWALE	
12.	KARINA G. LOCHANDE	
13.	SHRUTIKA H. BORKUTE	
14.	DHANSHERI V. MESHRAM	
15.	RHITU G. BHAYANI	
16.	NEHA R. BHARNE	
17.	ZAFISHAN SAMREEN R. SHAIKH	
18.	SHAHJEEN HANO NAIM SHAIKH	
19.	SABA MEHVISH JAVED ALI SAYYED	
20.	RESHABI K. RANDE	
21.	SHRIVYANGSHU V. KHO BRAGADE	
22.	YOGESH B. LINGANNHAR	
23.	SAHIL F. KULE	

SHRI MATHURADAS MOHOTA COLLEGE OF SCIENCE, NAGPUR
DEPARTMENT OF GEOLOGY, SEM-V ACADEMIC SESSION-2021-22
Batch- G2

G2

Sr. No.	Names of Students	
1.	VAISHNAVI P. TUDKE	
2.	TEJAL V. NIRWAN	
3.	SAKSHI N. CHORE	
4.	ARTIK GAIKWAD	
5.	ACHAL R. BHUJADE	
6.	PRAJAKTA R. SUKHDEVE	
7.	YASMINKAUSAR MOH. EZAZ	
8.	SAKSHI B. PISAL	
9.	DANISH A. PATHAN	
10.	RITIKA T. NIMGE	
11.	MANSI R. SAKHANE	
12.	ANIKTA O. BHAGAT	
13.	KOMAL O. BHONGE	
14.	DIMPLE R. WANJARI	
15.	DUDHNATH M. SHIVANKAR	
16.	GHANSHYAM R. DAWARE	
17.	PAJWAL S. PAWAR	
18.	ANSHUL R. BALI	
19.	SAURABH C. WANDHARE	
20.	YOSHIN N. CHAUDHARI	
21.	ANKIT D. TUMSARE	

G3

SHRI MATHURADAS MOHOTA COLLEGE OF SCIENCE, NAGPUR
DEPARTMENT OF GEOLOGY, SEM-V ACADEMIC SESSION-2021-22
Batch- G3

Sr. No.	Name of Students	
1.	MAYURI A. BADIHE	
2.	KASTURI S. BAWANE	
3.	DIHRAJ L. DHANVIJAY	
4.	DISHA V. BALFANDE	
5.	AJWAD H. SAYYED	
6.	ADITYA R. NIMBHORKAR	
7.	SANDIP B. KATORE	
8.	MAYURI P. SONWANE	
9.	MANCHIKA R. GAIKWAD	
10.	ANJALI N. JADHAV	
11.	MAHIMA P. KOTHADI	
12.	PRAJAKTA S. DEVTALE	
13.	DURGA P. SHENDE	
14.	PAJWAL S. UKEYE	
15.	VISHAL R. GIRI	
16.	VINIT H. KHAPEKAR	
17.	KSHITHI V. MULE	
18.	ONKESHWARI D. CHUTE	
19.	MONA R. TEKAM	

G4

SHRI MATHURADAS MOHOTA COLLEGE OF SCIENCE, NAGPUR
DEPARTMENT OF GEOLOGY, SEM-V ACADEMIC SESSION-2021-22
Batch- G4

Sr. No.	Name of Students	
1.	YAHYA NASIT KHAN N. PATHAN	
2.	TANUSHREE V. NIKHARE	
3.	SANJANA K. MAHALLE	
4.	ANJALI A. JADHAV	
5.	GAURI P. SHRIKHANDKAR	
6.	SANJANA M. TIRPUDE	
7.	TRUPTI R. BANGADKAR	
8.	PAYAL N. CHANDEKAR	
9.	JAI A. SAKARBE	
10.	VEENA R. SAHARE	
11.	SHAYANA R. KARANGAMI	
12.	JAGRUTI M. DODKE	
13.	KOMAL H. SAUDAGAR	
14.	PRITI N. SHARNAGAT	
15.	SHWETA D. MAHALE	
16.	SANJANA B. BANDELE	
17.	KUNAL P. MOHADIKAR	
18.	KAJAL P. SHARMA	
19.	HIMANSHU P. JOSHI	
20.	POOJA ANIL DAHAT	
21.	NEHA M. KATRE	

Geology tour report submitted by a student

SHRI MATHURADAS MOHOTA COLLEGE OF SCIENCE, NAGPUR



DEPARTMENT OF GEOLOGY

Geological Excursion Near Ramtek Area

Submitted by :-
Sandip Bhagwan Katore
B.Sc. 6th Semester
Batch : G3

Guided By :-

- Dr. Natasa Talekande
- Ms. Shradha Deshpande
- Mrs. Nikhil Tijare

Head of Department
Dr. S. P. Joshi

INTRODUCTION

Without field work it is difficult to understand the subject as a whole therefore study of geology incomplete, that's why it is geology is known as field science. The study of geology in the classroom is quite different as compared to the study done during a field work on a particular area. The grace of the subject lies in the field and hence it is very important for a student of geology to understand the various aspects to which it can be done only by means of field training.

The Ramtek town is situated about 58km from Nagpur city to the Northeast side. It is connected to Nagpur by road NH7 and rail. The study area falls in Latitude 21 18' 29" N and Longitude 79 21 ' 26". The area falls under toposheet number 55 O/7. The study area is in general is gently undulating plain with isolated positive landforms. Average elevations are about 300m above mean sea level. The Precambrian rocks of the Ramtek area suffered from three stages of folding.

Lithologically, Ramtek area is covered by metamorphic terrain exposing rocks quartzite, feldspathic quartzite and micaceous quartzite and garnetiferous mica schist. This metamorphic terrain is after the deformation of sedimentary basin

Stratigraphic Succession

Table No. 1 : Succession of Sausor Group

Formation	Lithology
Sitapur Formation	Hornblende schist and Amphibolites.
Bichua Formation	Dolomitic marbles, Quartzites and Schist
Junewani Formation	Moscovite-biotite schists and Granulites
Chorbaoli Formation	Quartzites and Mica schist.
Mansar Formation	Mica schist with beds of Manganese ore.
Lohangi Formation	Dolomitic marbles and Manganese ore.
Uttalata Formation	Banded calc granulites.
Kadakhers Formation	Granulitic rocks with biotite and magnetite
Sitasongl Formation	Feldspathic schists and Quartzites.

Sausor Group : The Archean rocks of Nagpur-Chindwara are called the "Sausor group". This group consist of about 4.5 km thick succession of highly metamorphosed rocks. The chief rock types are hornblende-granulites, marble, gondites, quartzites and garnetiferous schists. This group is of economic important as it contains deposits of manganese ore. The rock of this group are mostly of sedimentary origin. Subsequence they were metamorphosed and intruded by plutonic igneous rocks of acid and basic composition.

The structure of the Sausor group is very complex. The rocks have been deformed intensely. There is a southern belt of overturned isoclinal folds and a northern belt of recumbent fold and nappes. The rocks of the Sausor group exhibit a regional dip towards south or SSE.

The Sausor group has been classified into nine division as shown in Table No. 1. Due to intrusion of igneous rocks composite gneisses of granitic and granodioritic composition are found associated with rocks of this group.

The deposits of manganese ore occur mainly in the Mansar formation at two or three different horizon. In addition there is also a little manganese ore in the marbles of the Lohangi Formation.

The rocks of Mansar and Chorbaoli formation are exposed in the study area. The outcrops related to these formation have been studied and described according to given format in the following pages :-

SPOT 1

Date : 04/03/2022

Location : Mansar Area

Geographic Coordinates : Latitude - 21 194590 Longitude - 79 266475

Spot Description : Altitude 265 Meter

Description of Rocks/ Rock types : Mica igneous

- Colour : Leucocratic
- Granularity : fine to medium
- Texture : Phaneritic
- Mineral contents : Mica & hornblende
- Association : Slightly metamorphosed

Description of structure : 009/55 → 270

- Foliation : Foliated
- Lineation : Lined
- Fabric : No planar fabric

Stratigraphic features : Mansar Formation

Name of the rock : Mica Granite



SPOT 2

Date : 04/03/2022

Location : Ramtek

Geographic Coordinates:

- Longitude : 21.386953°
- Latitude : 79.346285°

Spot Description : Altitude - 288 Meters

Description of Rocks/ Rock types:

- Colour : Yellowish pink
- Granularity : Sand grains
- Texture : Granoblastic
- Structure : Dome and Basin
- Mineral contents : Quartz

Description of structure:

- ❖ Foliation : Non - Foliated
- ❖ Lineation : Secondary lineation
- ❖ Fabric : Interference of Fold (Recumbent Fold)

Stratigraphic features : Chorbaoli Formation

Name of the rock : Quartzite & biotite Micaschist



SPOT 3

Date : 04/03/2022

Location : Ramtek

Geographic Coordinates :

- Latitude : 21.386795°
- Longitude : 79.346766°

Spot Description : Altitude - 265 meters

Description of Rocks/ Rock types:

- Colour : Choccolatic
- Granularity : Coarse grained
- Texture : foliated
- Mineral contents : Feldspar, quartz
- Association : Feldspar rich

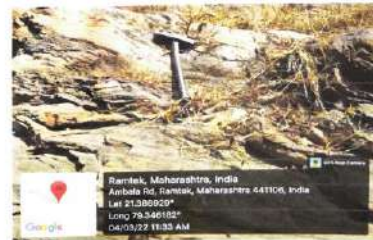
Description of structure:

310, /65, -> 40°

- ❖ Foliation : Non-foliated
- ❖ Lineation : Intersection lineation
- ❖ Fabric : thermal metamorphism
- ❖ Fold : Regional fold

Stratigraphic features : Chorbaoli formation

Name of the rock : Feldspar Quartzite



SPOT 4

Date : 04/03/2022

Location : Ramtek

Geographic Coordinates:

- Latitude - 21.390350°
- Longitude - 79.345016°

Spot Description:

Altitude - 285 metre

Description of Rocks/Rock types : Metamorphic

- Colour : Whitish, Medium grey
- Granularity : Small size coarse
- Texture : Foliated
- Mineral contents : Quartz
- Association : Sandstone (Feldspar rich)

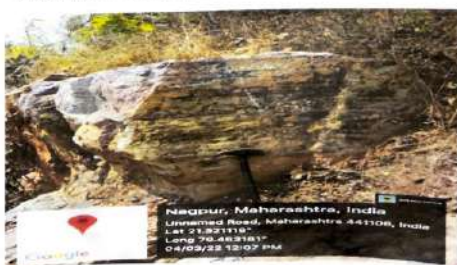
Description of structure:

310/80 -> 410°

- ❖ Foliation : Non-Foliated
- ❖ Lineation : Linear Intersection
- ❖ Fabric : Regional metamorphism
- ❖ Folds : Symmetrical folds

Stratigraphic features : Chorbaoli Formation

Name of the rock : Micro Schist / Quartzite



SPOT 5

Date : 04/03/2022

Location : Ramtek

Geographic Coordinates:

- Latitude - 21.391847°
- Longitude - 79.342457°

Spot Description:

Altitude - 289 meters

Description of Rocks/ Rock types: Metamorphic

- Colour : Shiny, Whitish
- Graduality : fine to medium
- Texture : Foliated
- Structure : crystalline metamorphic
- Mineral contents : Garnet-ferrous
- Association : Mass wasting

Description of structure:

- ❖ Foliation : Foliated, Schistosity is present
- ❖ Lineation : Split into Layers
- ❖ Fabric : Middle grade regional metamorphism

Stratigraphic features : chorbaoli formation

Name of the rock : Garnet-ferrous Mica schist



SPOT 6

Date : 01/03/2022

Location : Ramtek

Geographic Coordinates:

- Latitude - 21.398546°
- Longitude - 79.333044°

Spot Description : Altitude: 400 meters

Description of Rocks/ Rock types :

- ↓ Colour : Yellowish pink/reddish
- ↓ Graduality : Medium grainy, glossy brown
- ↓ Texture : clastic
- ↓ Mineral contents : Feldspar, quartzite
- ↓ Association : Protolith-Sandstone (Arkose)

Description of structure:

300°/85° → 30°

- ◇ Foliation : Non - Foliated
- ◇ Lineation : Secondary Lineation
- ◇ Fabric : Regional Metamorphism

Stratigraphic features : Chitback Formation

Name of the rock : Quartzite-feldspar

Toposheet No : 50 D/7



Topographical Map :

Maps which represent a symbolic or conventional pictures of the physical and cultural landscape of small area on very large scale are known as topographical maps or toposheet.

These maps are based on actual survey of the area. Features on the map are represented by specific symbol signs and colours. Toposheet are available on scale of 1 : 25000 and 1 : 50000.

Topographic sheets contain information about an area like roads, railways, settlements, canals, river, electric poles power grade lines, contours, levels, and important landmarks. These sheets are made on suitable Projection for that area and also contain lat/long information at the corners. These any point on the toposheet can be identified with its corresponding latitude and longitude depending upon the scale.

Uses of Toposheets :

1. Toposheet can be used for fieldwork or field surveys carried out for various purposes.
2. It is used for geological mapping.
3. It is helpful to design a plan for construction buildings.
4. It enables the proper design irrigation projects.
5. It is important in any kind of geotechnical survey.
6. It helps in finding out railways.
7. It guides on/about roads.
8. It helps in designing.



THANK YOU