

Mahatma Gandhi Arts, Science and Late N. P. Commerce College, Armori

One Day Geological Field Training for M.Sc. Students

Conducted by

Department of Geology

In Collaboration with

**Geological Survey of India, SU Maharashtra,
Central Region, Nagpur**



MANOHARBHAI SHIKSHAN PRASARAKMANDAL'S

**MAHATMA GANDHI ARTS, SCIENCE &
LATE NASARUDDINBHAI PANJWANI COMMERCE COLLEGE**

ARMORI, DIST. GADCHIROLI (M.S.) 441 208

Re-accredited by NAAC 'A' with 3.02 CGPA

PRINCIPAL

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Letter No. 295/2021

Date 20/11/2021

To,

Mr. Sandeep Kheole

Sr. Geologist

Geological Survey of India,
Central Region, Nagpur.

Subject – Regarding one day geology students' field visit cum training programme.


Dear Sir,

The institution is committed to provide practical and field experience to the respective students. The department of Geology is one of the prime branch offering UG and PG courses. In view of Gondwana University Norms, academic development through field training is an obligatory process and hence, I forward request to accompany our geology students for one day field visit cum training programme at GSI project work area in Chamorshi Taluka, Dist. – Gadchiroli.

Looking forward for positive reply.

Received
20/11/2021
संविप म. खेवले/Sandeep B. Kheole
व. भूविज्ञानिक/Sr. Geologist
भारतीय भूविज्ञानिक सर्वेक्षण/Geological Survey
ऑ. इ. महाराष्ट्र, मध्य क्षेत्र, नागपुर
SU Maharashtra, Central Region, Nagpur




PRINCIPAL
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ARMORI, Dist. Gadchiroli



संदिप भ. खेवले,
वरिष्ठ भूवैज्ञानिक
Sandip B. Kheole,
Senior Geologist



भारत सरकार / Government of India
खान मंत्रालय / Ministry of Mines
भारतीय भूवैज्ञानिक सर्वेक्षण / Geological Survey of India
राज्य इकाई महाराष्ट्र, नागपूर / State Unit Maharashtra, Nagpur

To,
The Principal,
Mahatma Gandhi Arts, Science & Commerce College,
Armori-441208

Subject: One day geological field training for MSc. Geology students -reg.


Sir,

The Geological Survey of India, an attached office of the Ministry of Mines, Government of India is involved in carrying out variety of Geo-scientific studies in India. As a part of this programme, State Unit Maharashtra, Nagpur an operational unit of GSI in Maharashtra State has taken up the project titled, Reconnaissance survey for copper and associated base metal mineralization in the Chamorshi, Kurul, Bhiwapur area, Gadchiroli District, Maharashtra for field season 2021-22.

As a part of Bhuvismvad, a platform promoting interaction between Department of Geology/Earth Sciences in different institutions/Universities and the Geological Survey of India, one day geological field training has been arranged for the MSc students of Department of Geology from your college after telephonic conversation with Dr. C. P. Dorlikar, Head of Dept. of Geology and kind approval from the Dy. Director General, State Unit Maharashtra, GSI, Nagpur. In this connection, you may please be requested to spare and allow the MSc geology students of M. G. College for one day geological field training to be carried out in and around Chamorshi tahsil of Gadchiroli District and part of Chandrapur District, Maharashtra on 30/11/2021.

This is for your kind perusal and necessary action in this regard.

भवदीय/ Yours sincerely


24/11
2021

संदिप भ. खेवले/Sandip B. Kheole
व. भूवैज्ञानिक/Sr. Geologist
भारतीय भूवैज्ञानिक सर्वेक्षण/Geological Survey of India
रा.इ. महाराष्ट्र, मध्य क्षेत्र, नागपूर
SU Maharashtra, Central Region, Nagpur



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Letter No. 305/2021

Date 25/11/2021

To,

Mr. Sandeep Kheole

Sr. Geologist

Geological Survey of India,
Central Region, Nagpur.

Subject – Regarding one day geology students' field visit cum training programme.

Reference – Our letter dated: 25/11/2021
Your letter dated: 24/11/2021

Dear Sir,

On behalf of reference cited, 44 students of the department of Geology are visiting at GSI project work area in Chamorshi Taluka, Dist. – Gadchiroli for one day field visit cum training programme on 30/11/2021.

Kindly accompany.

Regards...

Received
Sandeep Kheole
25/11/2021
संदीप भ. खेवले/Sandeep B. Kheole
Sr. Geologist
भारतीय भूवैज्ञानिक सर्वेक्षण/Geological Survey of India
T. E. मसाराख, मध्य क्षेत्र, नागपूर
SU Maharashtra, Central Region, Nagpur



[Signature]
PRINCIPAL
M.G.Arts, Science &
Late N.P.Commerce College
ARMORI, Dist. Gadchiroli

Chapter 1

INTRODUCTION

1.1 Purpose of field work:

Geology is essentially a field science best studied and understood through extensive field work. A thorough knowledge of the subject therefore demands a good deal of field work and a proper understanding of rocks and their structures observed in the field itself. A student of geology should be familiar with usual techniques and procedures of geological field work associated with it. Geological field work is a serious exercise and any casual approach may affect its accuracy and hamper its usefulness.

Adequate theoretical knowledge of Mineralogy, Petrology, Structural Geology and Stratigraphy helps one in drawing responsible inferences from his/her observations during field work.

Things in nature are very different and complicated than in laboratory, because every process in nature is acted by so many conditions.



Fig 1- Department of Geology Students with Dr. C.P. Dorlikar Sir, Prof Ganvir Sir, Lecturer Miss. Diksha Wanmali Mam.

Mahatma Gandhi Arts, Science & Late N. P. Commerce College, Armori.

2021-2022



(Signature)
Principal

1.2 Aim and objectives:

The main aim and objectives of geological field excursion are as follows;

- 1) To do geological mapping of the area under study.
- 2) To study the mineralogy, petrography of different rocks found in the areas.
- 3) To study the different structures and micro structures of the areas.
- 4) To interpret the geological activities undergone in the area.
- 5) To determine the geological age and sequence of rocks and to interpret the environment of deposition of sediment on the basis of fossil contents.
- 6) To know the economically important minerals potential of the area.

1.3 Scope of Present Work:

The present tour program is a part of curriculum of the M.Sc. Geology, Gondwana University, Gadchiroli (M.S.). This tour provides an opportunity to learn the field Geology and also enables to facilitate the technical report writing.

The scope of present work is though limited to preliminary investigations, but it is also a worthy document of the sum of accurately measured sections and large scale gridded maps. Therefore the present report could be considering an important document to further a detailed geological investigation of the areas.

1.4 Previous work:

The copper mineralisation at Thanewasna, Chandrapur district, Maharashtra occur in the quartz veins, hosted within granitoid rocks and are exposed intermittently for about 30km along the western margin of Bastar Craton. The quartz veins show a preferred orientation in NW-SE to NNW-SSE along shear zone and endure signs of brittle deformation and occasionally associated with Cu+Fe+Ba±Au mineralisation. Mineralisation comprises of mainly chalcopyrite and pyrite with minor barite. Significant concentrations of trace elements such as Ba, Sr, Co, Cu, Ni and Zn occur in the quartz veins, albeit their indiscriminate



Some gneiss is durable enough to perform well as a dimension stone. These rocks are sawn or sheared into blocks and slabs used in a variety of building, paving, and curbing projects.

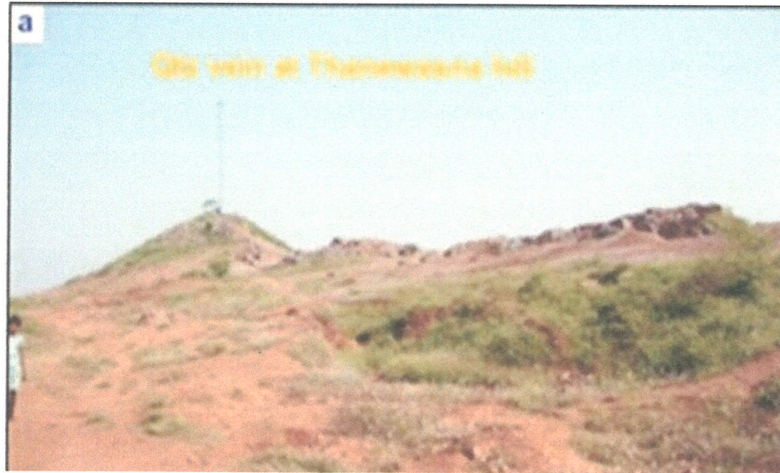
Some gneiss accepts a bright polish and is attractive enough for use as an architectural stone. Beautiful floor tiles, facing stone, stair treads, window sills, countertops, and cemetery monuments are often made from polished gneiss.



Department of Geology B.sc & M.sc students and faculty, GSI Officers. Wainganga River

GSI officers Explained about Gneiss





QTZ Vein at Thanewasana Hill

M.sc Students batch 2021-2022



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Mahatma Gandhi Arts,
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Armori, Dist - Gadchiroli

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Commerce College
Armori Dist. Gadchiroli (M.S.) 441208
DEPARTMENT OF GEOLOGY
GEOLOGICAL STUDY TOUR 2021-22
CLASS- B.Sc. Sem-V**

| SR. NO. | NAME OF STUDENT | DATE OF BIRTH | BLOOD GR. | MOBILE NO. | ADDRESS | SIGNATURE |
|---------|------------------------------|---------------|-----------|--------------------------|--------------------------------------|-----------|
| 1 | Pranay W. Meshram | 16-4-00 | B + | 9404937372 | Behind cooperative bank Armori. | |
| 2 | Brajal B. Gadpayle | 1/12/2000 | O + | 8530960348 | Behind itya doli office Armori | |
| 3 | Sanchit V. Juve | 26/07/2000 | O + | 8624990491 | At. post Armori | |
| 4 | Tanikal S. Raut | 20/8/2001 | B+ | 8080340697 | Armori | |
| 5 | Kajal Bhajankar | 20/08/2000 | B+ | 8830783251 | At. Po. Kondhala | |
| 6 | Sejal Bhajankar | 17/07/01 | O+ | 9356069785 | At. Po. Kondhala | |
| 7 | Namrata Juve | 25-8-01 | O +ve | 9145104823 | At. post Armori | |
| 8 | Amran Hichami | 12-08-2000 | O +ve | 9011480493 | K. t. gadchiroli | |
| 9 | Pradyot Ghatol | 25/12/2000 | O +ve | 7887830879 | near city police station, Gadchiroli | |
| 10 | Tejas Dhenge | 2/4/2001 | O +ve | 8007450167 | Palasgota Armori | |
| 11 | Amrit Kale | 16/5/01 | O +ve | 9325997719 | Palasgota Armori | |
| 12 | Pradip torc | 23-11-2000 | B +ve | 9168209299 | At Gangasagar Heli, Dist. Chandrapur | |
| 13 | Tehsin Sheikh | 25/8/2000 | O +ve | 9309052881 | Armori | |
| 14 | Mruneshwari Sahas | 16-11-00 | A +ve | 9403741098 | At. post. Armori | |
| 15 | Amjali Janane | 6/12/00 | O +ve | 9404034276 | A-Thanegaon | |
| 16 | Sagar Wankhede | 20/10/2000 | B- | 2218854158 | Armori | |
| 17 | Tannu Barsagade | 02/02/2002 | A +ve | 9130653665 9529761788 | At. post, Armori | |
| 18 | Chetak Nasiruddin | 27/02/81 | O +ve | 743318706 | At, po. st, Armori | |
| 19 | A | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
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Commerce College**

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**POST GRADUATE DEPARTMENT OF GEOLOGY
GEOLOGICAL STUDY TOUR 2021-22**

CLASS- M.Sc. Sem III

| S.R. NO. | NAME OF STUDENT | DATE OF BIRTH | BLOOD GR. | MOBILE NO. | ADDRESS | SIGNITURE |
|----------|----------------------------|---------------|-----------|------------|---|--------------------|
| 1 | ANKITA SURESHJI TADAM | 27-04-1998 | O+ve | 9403737068 | Vidya Nagar, Armori | Tadam |
| 2 | ASHWINI VASANT BHANDEKAR | 23-04-1999 | B+ve | 9420513430 | Near Nundemwar Colony, Armori. | Bhandekar |
| 3 | KAJAL ARUN KUTHE | | | | Absent | |
| 4 | KETAN SHANKARRAO GHOSE | 05-09-1999 | O+ve | 9423681771 | Armori Vidya Nagar Bud. | Ghose |
| 5 | LINA PANDHARI MISAR | 09-07-1999 | B+ve | 9359928796 | At. Po. Shivani Tah. Armori | Misar |
| 6 | MAMTA BHAGWAN SAHARE | 23-05-1999 | O+ve | 9623373944 | At. Taladhi, Tah. Bhrompuri Dist. Chandrapur. | Sahare |
| 7 | NANDINI VINOD GEDAM | 16-09-1999 | O+ve | 9823369002 | Near gov. hosp. Katagota road | Jr. |
| 8 | NISHA RAMDS THAKARE | 22-7-1999 | B+ve | 9422871193 | At. post Kadhoi, Armori | Thakare |
| 9 | POOJA TARACHAND GANVIR | 16-10-1999 | O+ve | 9075911077 | Aizod chowk, Armori | Ganvir |
| 10 | PORNIMA PUNDALIK CHOUDHARI | 05-10-1998 | A+ve | 9370669687 | At adpalli, post gogav dist. Gadchiroli | Pornima Choudhary. |
| 11 | PRANALI VIJAY KUTHE | 01-12-1998 | O+ve | 9763687725 | At. Po. Jothan-gon Tah. Kurkhedu | Kuthe |
| 12 | PUJA RAJENDRA JUARE | 16-09-1999 | O+ve | 8010809087 | Bajur Peth, Armori | Juare |
| 13 | SAPNA DIWAKAR TITIRMARE | | | | Absent | |
| 14 | SAYALI RAMESH GADHAWE | 19-05-1999 | B+ve | 9699841623 | At. gogam, Tah. Bhrompuri, Dist. Chandrapur. | Gadhawe |
| 15 | SHITAL DEVANAND VATGURE | 15-7-1999 | B+ve | 7030128167 | At. post. Kurkheedu Dist. Gadchiroli | Vatgure |
| 16 | SHWETA ANIL KHADKE | 24-08-1998 | O+ve | 7875911741 | A. Post Armori, Dis. Gadchiroli | Khadke |
| 17 | SHWETA ANIL KUNGHADKAR | | | | Absent | |
| 18 | TEJASWINI SANJAY BEHARE | 19-11-1998 | B+ve | 8830014166 | At. post Armori Dis. Gadchiroli | Behare |
| 19 | TRUPTI DHANPALLANDGE | 5-5-1999 | A+ve | 9307674539 | At. post. Tarkhi Dist. Gadchiroli | Dhange |
| 20 | VAIBHAV SHANKAR SALVE | 3-12-1998 | O+ | 8605269591 | At. post. Banne Bhatapur | Salve |
| 21 | VAISHNAVI VIJAY BUTLE | | | | Absent | |



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POST GRADUATE DEPARTMENT OF GEOLOGY
GEOLOGICAL STUDY TOUR 2021-22
CLASS- M.Sc. Sem I**


| Sr.No. | Name Of Student | Date Of Birth | Blood Gr. | Mobile No. | Address | Signature |
|--------|-------------------------------|---------------|-----------|------------|--|-----------|
| 1 | AMBATKAR SHIVANI ANIL | | | | Absent | |
| 2 | BAWANGADE KHUSHBOO MURLIDHAR | 13-12-1999 | B+ve | 9075926756 | Jaleghala Bardi, Amrosi | Bawangade |
| 3 | BODNE VAISHNAVI ARUN | | | | Absent | |
| 4 | BORKAR PRASHANT SUNIL | 20-10-97 | | 7773956755 | Bardi, Amrosi | Borkar |
| 5 | DESHMUKH VAIBGAV JITENDRA | | | | Absent | |
| 6 | DHANDARE VAIBHAV BHAIYYAJI | 24-07-2000 | B+ve | 9325827953 | Amrosi | Dhandare |
| 7 | DOMALE MAYUR HARISHCHANDRA | | | | Absent | |
| 8 | DONADKAR ACHAL NANAJI DADAJI | 03-11-2000 | B+ve | 9548428192 | Waghala Bardi Amrosi | Donadkar |
| 9 | DONADKAR DIMPAL GIRIDHAR | | | | Absent | |
| 10 | DUMANE ASHIWINI NARESH RAMESH | 26-05-2000 | AB+ve | 9049455127 | Hanuman Mandir Bardi Amrosi | Dumane |
| 11 | JANBANDHU HARSHALATA HARIDAS | | | | Absent | |
| 12 | KAWALE HINA VINAYAK | 03-07-2000 | A+ | 9406356585 | Hanuman Nagar Kalgota Amrosi | HKawale |
| 13 | KHAPARDE PARAG ARVIND | | | | | |
| 14 | KOPULWAR ARTI VASANT | 17-6-2000 | A+ | 9545392259 | Gaytoi Nagar Bardi Amrosi | AKopulwar |
| 15 | MANE PURVE BIKESHWAR | | | | Absent | |
| 16 | PELANE KOMAL VINAYAK | | | | Absent | |
| 17 | PRADHAN YASHASHRI CHANDU | 10-8-2000 | A+ | 8080314293 | Harish mane leant Amrosi, Bardi Dis - gadchiroli | Pradhan |



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| | | | | | | |
|----|------------------------|-----------|--------|------------|--------------------|--------|
| 18 | SANGOLE ROHINI MADHAV | | | | Absent | |
| 19 | SARVE ANKITA DADAJI | | | | Absent | |
| 20 | SAYAM GAYATRI SHRIHARI | | | | Absent | |
| 21 | SHELOTE CHETNA RAMESH | | | | Absent | |
| 22 | SAYAM ABHILASHA NITIN | | | | Absent | |
| 23 | UIKEY PRACHI KAWADU | 10-5-1999 | Bt (e) | 7498195405 | kasturbawad, wadsa | Uikey. |




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