



Manoharbhai Shikshan Prasarak Mandal Armori's

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

Dist. Gadchiroli (Maharashtra) 441 208

Affiliated to Gondwana University, Gadchiroli.

Re-accredited by NAAC 'A' with 3.02 CGPA

SELF STUDY REPORT

SSR : 2016~2017 to 2020~2021

CRITERION – I
CURRICULAR ASPECTS

METRIC NO: ~ 1.3.2.

**METRIC NAME: ~ AVERAGE PERCENTAGE OF COURSES
THAT INCLUDE EXPERIENTIAL
LEARNING THROUGH PROJECT WORK
FIELD WORK/INTERNSHIP DURING
LAST FIVE YEARS.**



Web: - mgcollegearmori.ac.in
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Phone: - 07137-266558

MoU between 'Geology Department' and 'Geological Survey of India'

MEMORANDUM OF UNDERSTANDING

DEPARTMENT OF GEOLOGY, MAHATMA GANDHI ARTS, SCIENCE AND LATE N. P. COMMERCE COLLEGE, ARMORI and GEOLOGICAL SURVEY OF INDIA CENTRAL REGION NAGPUR, now recognizing the importance of research and development in the rural areas, as well as imparting training to U.G. & P. G. (Geology) students.

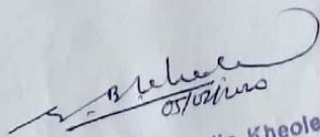
Now, therefore, in consideration of the mutual promises made herein and of good and valuable consideration, the receipt and sufficiency of which both DEPARTMENT OF GEOLOGY, MAHATMA GANDHI ARTS, SCIENCE AND LATE N. P. COMMERCE COLLEGE, ARMORI and GEOLOGICAL SURVEY OF INDIA, CENTRAL REGION NAGPUR, hereby acknowledge & agree to sign a memorandum of understanding (MoU).

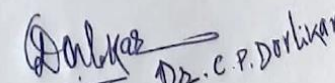
DEPARTMENT OF GEOLOGY, MAHATMA GANDHI ARTS, SCIENCE AND LATE N. P. COMMERCE COLLEGE, ARMORI and GEOLOGICAL SURVEY OF INDIA, CENTRAL REGION NAGPUR, shall encourage interactions among the Research fellows, faculty members and students of college through the following arrangements.

- Practical training of Institute students at GEOLOGICAL SURVEY OF INDIA, CENTRAL REGION NAGPUR, Joint guidance of student projects/thesis in Geology and other areas of national interest at GEOLOGICAL SURVEY OF INDIA CENTRAL REGION NAGPUR, on mutually agreeable terms.
- Would allow the visits of students to provide them with an exposure to various equipment, instrument, and research oriented facilities.
- The students will carry out part of their M.Sc. project at DEPARTMENT OF GEOLOGY and GEOLOGICAL SURVEY OF INDIA, CENTRAL REGION NAGPUR, depending on the nature of work as per rules of the institute depending on facilities and requirements.
- For financial arrangements each specific collaboration will be decided on a case to-case basis and brought on record in each case after due approval from heads of both the Institution.

The duration of the MoU shall be for a period of 3 years from the effective date. The MoU may be extended or terminated by a prior notice of not less than six month by either party. However, termination of the MoU will not in any manner affect the interests of the students/faculty/scientists who have been admitted to pursue a programme under the MoU.

In witness where of parties here to have entered into this agreement effective as on the date and year first written below.


संदिप खेवले / Sandip Kheole
द. भूगर्भशास्त्र / D. Geologist
भारतीय भूगर्भ सर्वेक्षण / Geological Survey of India
मध्य क्षेत्र / Central Region
नागपुर / Nagpur


HEAD
Dept. of Geology
Mahatma Gandhi Arts, Science and Late N. P. Commerce College, Armori

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

Dr. Lalsingh H. Khalsa

M.Sc., Ph.D.

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S.T.D.: 07137

Office: 266558/266043

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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
संदीप भ. खेवले/Sandip B. Kheole
व. भूदोलनिक/Sr. Geologist
भारतीय भूदोलनिक सर्वेक्षण/Geological Survey
रा. इ. महाराष्ट्र, मध्य क्षेत्र, नागपुर
SU Maharashtra, Central Region, Nagpur




PRINCIPAL
M.G. Arts, Science &
Commerce College
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 Bhuvisamvad, 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
ब. 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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PRINCIPAL

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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 B. Kheole
संदीप भ. खेवले/Sandeep B. Kheole
ड. भूविज्ञानिक/Sr. Geologist
भारतीय भूविज्ञानिक सर्वेक्षण/Geological Survey of India
प. ड. महाराष्ट्र, 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

Study Tour Report Geology M.Sc 3 Sem



(Signature)
Principal

Mahatma Gandhi Arts,
Science & Late Page 1
N. P. Commerce College,
Armori, Dist - Gadchiroli

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



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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.

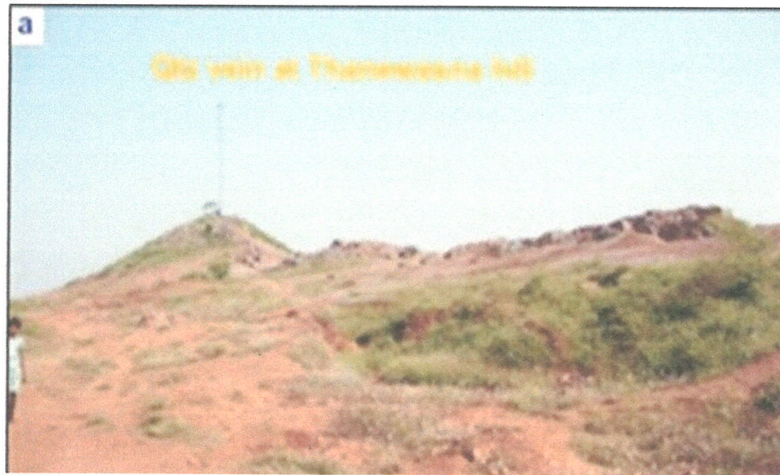
Some gneiss accepts a bright polish and is attractive enough for use as an architectural stone. Beautiful floor tiles, facing stone, stair treads, window sills, countertops, and cemetery monuments are often made from polished gneiss.



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



**Mahatma Gandhi Arts Science & Late Nasaruddinbhai Panjwani
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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.	<i>[Signature]</i>
2	Braj B. Gadpayle	1/12/2000	O +	8530960348	Behind itya doli office Armori	<i>[Signature]</i>
3	Sanchit V. Juve	26/07/2000	O +	8624990491	At. post Armori	<i>[Signature]</i>
4	Tanikaal S. Raut	20/8/2001	B +	8080340697	Armori	<i>[Signature]</i>
5	Kajal Bhajankar	20/08/2000	B +	8830783251	At. Po. Kondheda	<i>[Signature]</i>
6	Sejal Bhajankar	17/07/01	O +	9356069785	At. Po. Kondheda	<i>[Signature]</i>
7	Namrata Juve	25-8-01	O +ve	9145104823	At. post Armori	<i>[Signature]</i>
8	Amam Hicham	12-08-2000	O +ve	9011480493	At. gadchiroli	<i>[Signature]</i>
9	Pradyot Ghatol	25/12/2000	O +ve	7887830879	Near city police station, Gadchiroli	<i>[Signature]</i>
10	Tejas Dheage	2/4/2001	O +ve	8007450167	Palasgota Armori	<i>[Signature]</i>
11	Amrit Kale	16/5/01	O +ve	9325997719	Palasgota Armori	<i>[Signature]</i>
12	Pradip Torc	23-11-2000	B +ve	9168204299	At Gangadgaon Heli, Dist. Chandrapur	<i>[Signature]</i>
13	Teherin Sheikh	25/8/2000	O +ve	9309052881	Armori	<i>[Signature]</i>
14	Mrunmeshwari Sahas	16-11-00	A +ve	9403741098	At. post. Armori	<i>[Signature]</i>
15	Amjali Jankar	6/12/00	O +ve	9404037276	A. Thanegeon	<i>[Signature]</i>
16	Sagar Wankhede	20/10/2000	B -	2218854158	Armori	<i>[Signature]</i>
17	Tannu Barsagad	02/02/2002	A +ve	9130653665 9529761788	At. post, Armori	<i>[Signature]</i>
18	Chetak Nandana	27/02/01	O +ve	7433187063	At. post, Armori	<i>[Signature]</i>
19						
20						
21						
22						



[Signature]
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POST GRADUATE DEPARTMENT OF GEOLOGY

GEOLOGICAL STUDY TOUR 2021-22

CLASS- M.Sc. Sem III

SR. NO.	NAME OF STUDENT	DATE OF BIRTH	BLOOD GR.	MOBILE NO.	ADDRESS	SIGNATURE
1	ANKITA SUGUJI TADAM	27-04-1998	O+ve	9403737068	Vidya Nagar, Armori	<i>[Signature]</i>
2	ASHWINI VASANT BHANDEKAR	23-04-1999	B+ve	9420513430	Near Nundunwar Colony, Armori	<i>[Signature]</i>
3	KAJAL ARUN KUTHE				Absent	
4	KETAN SHANKARRAO GHOSE	05-09-1999	O+ve	9423681771	Armori Vidya Nagar Bad.	<i>[Signature]</i>
5	LINA PANDHARI MISAR	09-07-1999	B+ve	9359928796	At. Po. Shivani Tah. Armori	<i>[Signature]</i>
6	MAMTA BHAGWAN SAHARE	23-05-1999	O+ve	9623373944	At. Talodhi, Tah. Bhrompuri Dist. Chandrapur	<i>[Signature]</i>
7	NANDINI VINOD GEDAM	16-09-1999	O+ve	9823369002	Near gov. hosp. Katagota road	<i>[Signature]</i>
8	NISHA RAMDS THAKARE	22-7-1999	B+ve	9422871193	At. post Kadhoi, Armori	<i>[Signature]</i>
9	POOJA TARACHAND GANVIR	16-10-1999	O+ve	9075911077	At. Lod chowk, Armori	<i>[Signature]</i>
10	PORNIMA PUNDALIK CHOUDHARI	05-10-1998	A+ve	9370669687	At. adpalli, post. gogav dist. Gadchiroli	<i>[Signature]</i>
11	PRANALI VIJAY KUTHE	01-12-1998	O+ve	9763687725	At. Po. Gothan-gon Tah. Kurkheda	<i>[Signature]</i>
12	PUJA RAJENDRA JUARE	16-09-1999	O+ve	8010809087	Bayar Peth, Armori	<i>[Signature]</i>
13	SAPNA DIWAKAR TITIRMARE				Absent	
14	SAYALI RAMESH GADHAWA	19-05-1999	B+ve	9699841623	At. gogam, Tah. Bhrompuri, Dist. Chandrapur	<i>[Signature]</i>
15	SHITAL DEVANAND VATGURE	15-7-1999	B+ve	7030128187	At. post. Kurkheda Dist. Gadchiroli	<i>[Signature]</i>
16	SHWETA ANIL KHADKE	24-08-1998	O+ve	7875911741	A. Post. Armori, Dist. Gadchiroli	<i>[Signature]</i>
17	SHWETA ANIL KUNGHADKAR				Absent	
18	TEJASWINI SANJAY BEHARE	19-11-1998	B+ve	8830014166	At. post. Armori Dist. Gadchiroli	<i>[Signature]</i>
19	TRUPTI DHANPALLANDGE	5-5-1999	A+ve	9307674539	At. post. Tarkhi Dist. Gadchiroli	<i>[Signature]</i>
20	VAIBHAV SHANKAR SALVE	3-12-1998	O+	8605269591	At. post. Bannu Bhalapuri	<i>[Signature]</i>
21	VAISHNAVI VIJAY BUTLE				Absent	



Principal,
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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	Jalghata Bardi, Amori	Bawangade
3	BODNE VAISHNAVI ARUN				Absent	
4	BORKAR PRASHANT SUNIL	20-10-97		7773956755	Bardi, Amori	Borkar
5	DESHMUKH VAIBHAV JITENDRA				Absent	
6	DHANDARE VAIBHAV BHAIYYAJI	24-07-2000	B ⁺ ve	9825827953	Amori	Dhandare
7	DOMALE MAYUR HARISHCHANDRA				Absent	
8	DONADKAR ACHAL NANAJI DADAJI	03-11-2000	B ⁺ ve	9548428192	Waghata Bardi Amori	Donadkar
9	DONADKAR DIMPAL GIRIDHAR				Absent	
10	DUMANE ASHIWINI NARESH RAMESH	26-05-2000	AB ⁺ ve	9049455124	Hanuman Mandir Bardi Amori	Dumane
11	JANBANDHU HARSHALATA HARIDAS				Absent	
12	KAWALE HINA VINAYAK	03-07-2000	A ⁺	9406356585	Hanuman Nagar Kalgota Amori	HKawale
13	KHAPARDE PARAG ARVIND					
14	KOPULWAR ARTI VASANT	17-6-2000	A ⁺	9545392259	Gaytoi Nagar Bardi Amori	AKopulwar
15	MANE PURVE BIKESHWAR				Absent	
16	PELANE KOMAL VINAYAK				Absent	
17	PRADHAN YASHASHRI CHANDU	10-8-2000	A ⁺	8080314293	Hanish mane leout Amori, Bardi Dis - gadchiroli	Pradhan



Principal
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Science & Late
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Armori Dist - Gadchiroli

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 @	7497195405	Kasturbward, wadsa	Prilkey.




Principal
 Mahatma Gandhi Arts,
 Science & Late
 N. P. Commerce College,
 Armori, Dist - Gadchiroli