

### **COLLABORATIVE GEOLOGICAL FIELDWORK AND SKILL BASED TRAINING**

The PG students of Geology department have been doing collaborative geological fieldwork with faculty and PG students of Pt. R.S.University, Raipur, since last three years. It gave them an opportunity to interact with the students of other institute and they also learnt about technical skills related to geological mapping, instrumentation, sampling and other aspects of field geology in a better way. They were immensely benefitted from the knowledge of faculty of Pt. R. S. University, Raipur.



## A REPORT ON COLLABORATIVE FIELDWORK FROM 18.01.2019 TO 22.01.2019

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SCHOOL OF STUDIES IN GEOLOGY & WRM

PT. RAVISHANKAR SHUKLA UNIVERSITY

RAIPUR (CHHATTISGARH) - 492010 - INDIA

Ref. No. 236/Geol/2019

Raipur

10-01-2019

To

Dr. S. D. Deshmukh

Department of Geology

Govt. V.Y.T.PG Autonomous College

Durg

**Subject:-** Collaborative geological field work with Dr. M. Santosh, China University of Geosciences Beijing (China) and Dr. T. Tsunogae, University of Tsukuba, Japan from 18-01-2019 to 24-01-2019

Dear Sir

You are invited to carry out geological field work around Dongargarh with M. Santosh, China University of Geosciences Beijing (China), Dr. T. Tsunogae, University of Tsukuba, Japan and myself from 18-01-2019 to 24-01-2019. This is going to be a part of the collaborative research work leading to meaningful conclusions about the geological and tectonic history of Dongargarh Supergroup

Dr. K. R. Hari

Collaborative geological fieldwork was carried out around Dongargarh from 18.01.2019 to 24.01.2019 with Prof. M.Santosh (Beijing University, China), Prof. T. Tsunogae( University of Tsukuba, Japan) and Prof. K.R. Hari( Pt. R.S. University, Raipur).

During the fieldwork, the geology and tectonic framework of Dongargarh belt was studied. The general geological succession of the study area observed during the fieldwork is as follows:

<i>Group</i>	<i>Formations/Dominant Lithology</i>
<b>Khairagarh Group</b>	Mangikhu'a Volcanics
	Karulola Formation
	Sitagota Volcanics
	Bortalao Formation
	Unconformity
<b>Dongargarh Granite</b>	Porphyritic microgranite, granophyre, coarse granite
<b>Nandgaon Group</b>	Pitepani Volcanics
	Bijli Rhyolites
	Unconformity
<b>Amgaon Group</b>	Quartz-sericite schist, feldspathic quartzite
	garnet-epidote quartzite, hornblende-biotite
	quartzite, quartz feldspar biotite gneiss horn-
	blende schists and amphibolite



Field photographs of Pyroxenite, Layered Gabbro and Gabbro, Near Gadhmata Temple, Khallari









## A REPORT ON COLLABORATIVE GEOLOGICAL FIELDWORK FROM 2.11.2019 TO 7.11.2019

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**SCHOOL OF STUDIES IN GEOLOGY & WRM**

**Pt. RAVISHANKAR SHUKLA UNIVERSITY**

**RAIPUR, CHHATTISGARH – 492010, INDIA**

Raipur, Dated 15.10.2019

To,

Dr. S. D. Deshmukh,

Department of Geology,

Govt. V.Y.T. PG Autonomous College, Durg(C.G.)

**SUBJECT :** Collaborative geological fieldwork with Dr. J.G. Shellnutt, National Taiwan Normal University, Taiwan from 2<sup>nd</sup> November, 2019 to 7<sup>th</sup> Nov. 2019.

Dear Sir,

With reference to our collaborative research work in the Sonakhan area, I am happy to Inform you that the we have plan to carry out the field work w.e.f. 2<sup>nd</sup> Nov. 2019 to 7<sup>th</sup> Nov. 2019. Our team involves the following members:

1. Prof. K. R. Hari, School of Studies in Geology and WRM, Pt. Ravi Shankar University, Raipur (C.G.)
2. Prof. J.G. Shellnutt, Department of Geology, National Taiwan Normal University, Taipal, Taiwan.
3. Dr. S. D. Deshmukh, Department of Geology, V. Y. T. P. G. Autonomous College
4. Dr. Neeraj Vishwakarma, Department of Applied Geology, National Institute of Technology, Raipur (C.G.)

Therefore, you are requested to kindly join us for the smooth completion of the field work.

Looking forward for an active participation.

With best regards



(Dr. K. R. Hari )

Geological fieldwork was carried out from 2<sup>nd</sup> November, 2019 to 7<sup>th</sup> November, 2019 in the Sonakhan area with Prof. K. R. Hari, School of Studies in Geology and WRM, Pt. Ravi Shankar University, Raipur (C.G.), Prof. J.G. Shellnutt, Department of Geology, National Taiwan Normal University, Taipal, Taiwan and Dr. Neeraj Vishwakarma, Department of Applied Geology, National Institute of Technology, Raipur.

The fieldwork was carried out to understand the field relationships of various components of Sonakhan Group in the area around Baghmara, Arjuni, Devpur and Jungle Pahar. Many features of geological importance were observed during the fieldwork. These include:

1. Contact between basement granitoids and BIF in the Jonk river section.
2. Deformation in the pillowed metabasalts of Sonakhan Greenstone Belt.
3. Occurrence of plagiogranite in the area.
4. Deformation in Jonk Conglomerate.



Contact of BIF and basement granitoids in Jonk river section near Maharaji, on the way to Arjuni.



Outcrop of plagiogranite on the way from Achanakpur to Devpur.



Contact of metabasalt and plagiogranite on the way from Achanakpur to Devpur.