



भारत सरकार
GOVERNMENT OF INDIA
भारतीय भूवैज्ञानिक सर्वेक्षण प्रशिक्षण संस्थान
GEOLOGICAL SURVEY OF INDIA TRAINING INSTITUTE



पाठ्यक्रम प्रतिवेदन / Course Report

REFRESHER COURSE ON GROUND GEOPHYSICS IN MINERAL EXPLORATION

28th January to 8th February, 2019

Refresher Course on “Ground Geophysics in Mineral Exploration” was conducted from 28th January to 8th February 2019 by Geological Survey of India Training Institute at FTC, Chitradurga, Karnataka, as a part of FSP 2018-19 and also as a part of VAQ theam-2 recommendations.

The programme was attended by twenty three (23) trainee officers of GSI. Training started with class room geology lectures covering Geodynamics with special reference to Indian Tectonics, Shear zone and its implications in mineralization and geology of Karnataka with special reference to mineral prospects of Chitradurga schist belt. The faculty of geophysics delivered lectures on fundamentals of exploration geophysical methods (Gravity, Magnetic, SP, IP and Resisitivity) and geophysical mapping methodology for mineral exploration.

Trainees were imparted geological field training in and around Ingaldal copper mines, Ingaldal Village, Chitradurga, Karnataka. Based on observed geological signatures, close spaced geophysical surveys were planned. Geophysical observations were taken over five traverses with traverse spacing of 50m and station interval of 5m.

The trainee officers were imparted training on deployment of Gravity, Magnetic, Self-Potential, Induced Polarisation and Resistivity methods of geophysical exploration techniques to delineate the potential mineralized zone.

The trainee officers were made into three groups for data collection by deploying CG-5 Gravimeter, GEM Magnetometer, DGPS (Leica-GS10 Model), DDR-3, IRIS Electro Pro (10 Channels) instruments.

Along with field data collection the trainee officers were imparted training on data processing, plotting of anomaly profiles and attributing them on to the surface geology. All the three groups have submitted final report.

The refresher course was well appreciated and the participants expressed their happiness and satisfaction towards the technical contents and field work related to the theme. The glimpses of activities are shown in photographs.

Course Coordinator:

Shri. R.R. Singh, Suptdg Geophysicist, GSITI, Hyderabad.

Core faculty of GSITI and FTC:

- 1) Dr. Taraknath Pal, Director (TC)
- 2) Shri K. Raju, Director, FTC- Chitradurga
- 3) Shri B K Chakraborty, Director, RTD, SR
- 4) Dr. P. Mahadevappa, Sr. Geologist, FTC- Chitradurga
- 5) Dr. S. Bangaru Babu, Sr. Geophysicist
- 6) Shri. M. Lakshmana, Sr. Geophysicist

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Dr.Taraknath Pal, Director(TC), GSITI during inaugural session of the course at FTC Chitradurga, Karnataka



Interaction of faculty with trainee officers during geological field work in and around Ingaldal village



Glimpses of geophysical field work in and around Ingaldal village

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Glimpses of geophysical field work in and around Ingaldal village



Glimpses of class room lectures at FTC Chitradurga



Glimpses of geophysical data processing and plotting

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Glimpses of geophysical data processing and plotting



Distribution of Certificate to the participants



Group photograph of participants during valedictory programme

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List of participants

Sl No.	Name & Designation	Present place of posting
1	Miss Chandani Barnawal	Geophysicist, GSI Eastern Region
2	Shri Raja Babu	Assistant Geophysicist, GSI Eastern Region
3	Shri Biswajeet Lenka	Sr.Geologist, GSI SU Odisha
4	Shri Haraman Mohanta	Sr.Geologist, GSI SU Odisha
5	Shri Praveen Kumar Tailor	Geologist, GSI SU Jharkhand
6	Smt Niharika Das	Geophysicist, GSI Southern Region
7	Smt Anasuya Das	Geophysicist, GSI Southern Region
8	Shri Debapratim Datta	Geophysicist, GSI Southern Region
9	Shri Pranav Muktibodh	Assistant Geophysicist, GSI Southern Region
10	Shri A.Praveen Kumar	Assistant Geophysicist, GSI Southern Region
11	Smt Naga Divya	Assistant Geophysicist, GSI Southern Region
12	Shri Ch. Ravikumar	Sr.Geophysicist, GSI RSAS, Bengaluru
13	Shri Ramachandrappa	Sr.Geophysicist, GSI RSAS, Bengaluru
14	Smt Eswari.V	Assistant Geophysicist, GSI RSAS, Bengaluru
15	Smt Preeti	Assistant Geophysicist, GSI RSAS, Bengaluru
16	Shri Muddammagari Ramesh	Assistant Geophysicist, GSI RSAS, Bengaluru
17	Shri Ankit Kumar Saini	Geophysicist, GSI Central Region
18	Shri Upananda Low	Geophysicist, GSI Central Region
19	Shri Satya Narayan Rana	Geologist, GSI Central Region
20	Shri Raja Shekhar Halelly	Assistant Geophysicist, GSI Central Region
21	Miss Asna Siddiqui	Geophysicist, GSI Western Region
22	Miss Sirsha Das	Geophysicist, GSI Northern Region
23	Shri Jayanta Ghosh	Geophysicist, GSI Northern Region