

**GEOLOGICAL SURVEY OF INDIA**  
**REGIONAL TRAINING INSTITUTE, EASTERN REGION, KOLKATA**  
**“Refresher course for Laboratory Assistants posted in Chemical Divisions”**  
**(21.05.2018 – 26.05.2018)**

**Course Report**

The Regional Training Institute, Eastern Region, Geological Survey of India, Kolkata conducted the FSP 2018-19 approved training program entitled “Refresher course for Laboratory Assistants posted in Chemical Divisions” from 21<sup>st</sup> May, 2018 to 26<sup>th</sup> May, 2018. The training course was conducted with an aim to equip the Laboratory Assistants of Chemical Division in GSI, State DGMs and other Govt. organisations with the skills and knowledge on the solutions and reagents preparation, sample preparation, laboratory safety, handling of chemicals. The aim and objective of the program was also to equip them with the requisite knowledge related to Classical as well as Instrumental methods of geochemical analysis. The program evoked remarkable response from the target officials and a total 24 request letters were received for the training. Total 24 nominations were accepted by the competent authority for the weeklong programme keeping in view the availability of infrastructure. Altogether 23 officials (Eastern Region-13, Southern Region-03, Central Region-04, Western Region-01 and CHQ-02) attended the training (Annexure-I).

The program was inaugurated on 21<sup>st</sup> May, 2018 by Shri S.R. Kisku, ADG & HOD, ER in the august presence of Shri Francis Kharshing, DDG (Chemistry), CHQ along with the Director, Core Faculty of RTI-ER and Course Facilitator. Shri Amit Mandal, Senior Geologist and Core faculty, RTI-ER welcomed all the trainees and dignitaries. Shri Md. Aminul Islam, Director, RTI-ER briefed the course content (Annexure-II) and explained the aim and objective of the training program. He also requested the trainees to use the opportunity to the utmost so that their selection proves significant. Trainees were also requested by him to interact with the faculties with full liberty. In the opening remarks, Shri Kharshing emphasized that the training of Laboratory Assistants is needed as many times as possible as they have to deal with such laboratory related matters as their regular official assignments. Shri Kharshing opined that this type of programme is essential keeping in view to understand the basic knowledge of science involved in different analytical packages and techniques for contamination free preparation of reagents meant for different packages, so that the officials can carry out day to day laboratory work keeping in mind all the precautions and safety measures. Shri Kisku in his inaugural speech thanked the faculties of RTI-ER for arranging this important training programme and requested the trainees to take the training very seriously as there are every precautions and safety measures required for daily analysis of different analytical packages. Shri Kisku stressed that in the prevailing scenario, there is a need for arranging such training courses to keep up-to-date knowledge on various procedures and various instrumental techniques. Both Shri Kisku and Shri Kharshing appreciated the course content and wished every success of the programme to the trainees. At the end of the inaugural session, Shri Sanjeev Kumar, Superintending Chemist offered vote of thanks.

In order to achieve the objective of the program, both lectures and practical/lab. demonstration were conducted. A full session was devoted for the subject related to precaution and safety measures, use of fire extinguishers and its practical demonstration in which all the trainees and other officers/officials of the Bhu-Bijnan Bhavan actively took part and notable among them was Shri C.K. Sengupta, Deputy Director General, M-IIB-NEnR. The demonstration was made by Shri Barin Bhattacharya, Ultra Marketing (Fire People), Kolkata. Besides these, practical training on the use of different reagents, chemical was also given to the trainees.

The valedictory session was chaired by Shri Md. Aminul Islam, Director, RTI-ER in the presence of Shri Amit Mandal, Senior Geologist and Core faculty, RTI-ER and Shri Vikas Arora, Assistant Chemist and Course Facilitator. The feedback from the trainees was meticulously read out by Director, RTI, ER and he congratulated the trainees for successfully completing the programme. The program generated a lot of enthusiasm and involvement by all the trainees and at the end it was found that all the trainees were highly satisfied, whereas many of them suggested such training should be arranged frequently and for longer duration. Shri Md. Aminul Islam, Director, RTI-ER Shri handed over the completion certificates to trainees and the event ended with the vote of thanks offered by Shri Vikas Arora.

<b>“Refresher course for Laboratory Assistants posted in Chemical Divisions”</b>				
<b>21<sup>st</sup> May 2018 to 26<sup>th</sup> May 2018</b>				
<b>at Regional Training Institute, Eastern Region, Geological Survey of India</b>				
<b>List OF Trainees</b>				
<b>Sl. No.</b>	<b>EMP ID</b>	<b>Name of the Officials</b>	<b>Designation</b>	<b>Region / Station/ State DGMS</b>
1.	120926	Mrs. Sanhita Sengupta (Dutta)	Lab. Asst. (Chem), Gr-III	Chemical Divn, ER, GSI
2.	120886	Mrs. Atosi Bhar (Mondal)	Lab. Asst. (Chem), Gr-III	Chemical Divn, ER, GSI
3.	121012	Mrs. Kakali Gayen	Lab. Asst. (Chem), Gr-III	Chemical Divn, ER, GSI
4.	121098	Miss Malancha Bag	Lab. Asst. (Chem), Gr-III	Chemical Divn, ER, GSI
5.	121010	Shri Gopal Biswas	Lab. Asst. (Chem), Gr-III	Chemical Divn, ER, GSI
6.	120972	Shri Manotosh Mahato	Lab. Asst. (Chem), Gr-III	Chemical Divn, ER, GSI
7.	121096	Shri Debbrata Paul	Lab. Asst. (Chem), Gr-III	Chemical Divn, ER, GSI
8.	105922	Shri Biswajit Mondal	Lab. Asst. (Chem), Gr-III	Chemical Divn, ER, GSI
9.	105972	Shri Chandan Kr. Nandy	Lab. Asst. (Chem), Gr-III	Chemical Divn, ER, GSI
10.	105906	Shri Gobinda Ch. Sardar	Lab. Asst. (Chem), Gr-I	Chemical Divn, ER, GSI
11.	105909	Shri Biswajit Paul	Lab. Asst. (Chem), Gr-I	Chemical Divn, ER, GSI
12.	119343	Shri A.N. Rasool Khan	Lab. Asst. (Chem), Gr-III	Chemical Divn, SR, GSI
13.	110368	Shri B.K. Amarnath	Lab. Asst. (Chem), Gr-III	Chemical Divn, SR, GSI
14.	110779	Shri A. Laxman Rao	Lab. Asst. (Chem), Gr-III	Chemical Divn, SR, GSI
15.	114171	Shri K.B. Khobragade	Lab. Asst. (Chem), Gr-II	Chemical Divn, CR, GSI
16.	114344	Shri J.M. Dabare	Lab. Asst. (Chem), Gr-III	Chemical Divn, CR, GSI
17.	121003	Smt. S.M. Ilme	Lab. Asst. (Chem), Gr-III	Chemical Divn, CR, GSI
18.	106549	Shri Manas Ranjan Beuria	Lab. Asst. (Chem), Gr-I	SU: Odisha, ER, GSI
19.	121082	Shri Indrajit Rudra	Lab. Asst. (Chem), Gr-III	SU: Gujarat, WR, GSI
20.	106001	Shri Atanu Nath	Lab. Asst. (Chem), Gr-III	Chemical Divn, ER, GSI
21.	121011	Shri Mangal Sah	Lab. Asst. (Chem), Gr-III	CCL, CHQ, GSI
22.	100626	Shri Avijit Saha	Lab. Asst. (Chem), Gr-II	CCL, CHQ, GSI
23.	114648	Shri Satish Kumar Verma	Lab. Asst. (Chem), Gr-I	SU: MP, Bhopal, CR, GSI

<b>“Refresher course for Laboratory Assistants posted in Chemical Divisions”</b> <b>21<sup>st</sup> May 2018 to 26<sup>th</sup> May 2018</b> <b>at Regional Training Institute, Eastern Region, Geological Survey of India</b> <b>Course schedule</b>		
Schedule	Programme	Faculty
<b>21.05.2018</b>		
10:00-11:30 hrs	Inauguration by ADG & HOD, ER and Introduction to the training course by Course Co-ordinator and Core faculties	
	<b>Lecture/ Practical /Lab. Demonstration</b>	
11:30-13:30 hrs	Brief overview of science involved in different NGCM packages	MCS
13:30-14:30 hrs	<i>Lunch Break</i>	
14:30-16:00 hrs	Pulverization, preparation and preservation of geological samples: NGCM and Non-NGCM	AKM
16:00-18:00 hrs	<b>Practical</b> on pulverization, preparation and preservation of geological samples: NGCM and Non-NGCM	HMS
<b>22.05.2018</b>		
10:00-11:30 hrs	Maintenance of glass-wares and cleanliness of the lab	JMK
11:30-13:30 hrs	Chemical reactivity and related handling and storage techniques	AKS
13:30-14:30 hrs	<i>Lunch Break</i>	
14:30-16:00 hrs	Preparation and application of deionised/distilled water in different analytical packages	VKA
16:00-18:00 hrs	<b>Practical demonstration</b> on preparation and application of deionised/distilled water in different analytical packages	AKN
<b>23.05.2018</b>		
10:00-11:30 hrs	Measures for safely handling of chemicals	SPS
11:30-13:30 hrs	<b>Theory and Lab. demonstration</b> on Preparation of different solutions and reagents for contamination free chemical analysis of geological samples	BJM
13:30-14:30 hrs	<i>Lunch Break</i>	
14:30-16:00 hrs	Precautions to be taken during analysis of water samples	BBH
16:00-18:00 hrs	<b>Practical demonstration</b> of analysis of water samples	BMJ
<b>24.05.2018</b>		
10:00-11:30 hrs	Routine maintenance of the Instruments	SDP
11:30-13:30 hrs	<b>Practical demonstration</b> on bead preparation for package A (XRF) and precautions to be taken	NRJ
13:30-14:30 hrs	<i>Lunch Break</i>	
14:30-16:00 hrs	Brief overview and <b>practical demonstration</b> on analysis of As and Se by FIAS in geological samples	RJD
16:00-18:00 hrs	Theory and <b>practical demonstration</b> on fluoride analysis by ISE	MND
<b>25.05.2018</b>		
10:00-11:30 hrs	Lecture on safety measures and first aid	BRB
11:30-13:30 hrs	<b>Practical demonstration</b> on safety measures and use of fire extinguisher	BRB
13:30-14:30 hrs	<i>Lunch Break</i>	
14:30-16:00 hrs	<b>Practical demonstration</b> on sample preparation and precautions to be taken during ICPMS analysis	VKA
16:00-18:00 hrs	<b>Practical demonstration</b> on sample preparation and precautions to be taken during analysis of gold in NGCM and Non- NGCM samples	ARK
<b>26.05.2018</b>		
10:00-11:30 hrs	Laboratory Accreditation (NABL) Awareness	VKA
11:30-13:30 hrs	Group discussion, evaluation & feed back	AMI & AMD
13:30-14:30 hrs	<i>Lunch Break</i>	
14:30-16:00 hrs	Valediction and distribution of certificate	

**Core Faculty**

AMI

Md. Aminul Islam, Director, RTI-ER

AMD

Shri Amit Mandal, Sr. Geologist, RTI-ER

**Guest Faculty (GSI)**

MCS

Dr. M.C. Saha, Sr. Chemist, ER, GSI

AKM

Dr. A. K. Maurya, Chemist, ER, GSI

HMS

Shri Hemant Sharma, Chemist, ER, GSI

JMK

Dr. J. Mohan Kumar, Sr. Chemist, ER, GSI

AKS

Shri A. K. Singh, Sr. Chemist, CHQ, GSI

VKA

Shri Vikas Arora, Asst. Chemist, ER, GSI

AKN

Shri A. Koman, Sr. Chemist, ER, GSI

SPS

Dr. S.P. Sharma, Sr. Chemist, ER, GSI

BJM

Shri Brij Mohan, Chemist, ER, GSI

BBH

Dr. B. Behera, Sr. Chemist, ER, GSI

BMJ

Shri B. Majumdar, Sr. Chemist, ER, GSI

SDP

Dr. S. Deepthi, Chemist, ER, GSI

NRJ

Shri Neeraj Raj, Chemist, ER, GSI

RJD

Shri Raju D., Asst. Chemist, ER, GSI

MND

Shri Manish De, Sr. Chemist, ER, GSI

ARK

Shri Arun Kumar, Asst. Chemist, ER, GSI

**Guest Faculty (outside)**

BRB

Shri Barin Bhattacharya, Ultra Marketing (Fire People),  
Anwar Shah Road, Kolkata

## Glimpses of Activities



Inaugural Session of "Refresher course for Laboratory Assistants posted in Chemical Divisions". The program was inaugurated on 21st May, 2018 by Shri S.R. Kisku, ADG & HOD, ER in the august presence of Shri F. Kharshing, DDG (Chemistry), CHQ along with the Director, Core Faculty of RTI-ER; Course Facilitator; .Shri S. Kumar, Supdg. Chemist.



Shri Md. Aminul Islam discussing the course content



Shri Kisku interacting with the trainees



Shri F. Kharshing addressing the trainees



View of the lecture hall



View of the lecture session





Practical demonstration in Chemical Laboratories



Practical demonstration on safety measures and use of fire extinguisher



Certificates of completion of the training were distributed by Md. Aminul Islam, Director, RTI-ER



Valedictory Session Group Photograph