



भारत सरकार  
GOVERNMENT OF INDIA  
भारतीय भूवैज्ञानिक सर्वेक्षण  
GEOLOGICAL SURVEY OF INDIA

Phone No.: (033)-2252 1533  
E-mail: [cgpbcom11@gsi.gov.in](mailto:cgpbcom11@gsi.gov.in)  
[hodm3@gsi.gov.in](mailto:hodm3@gsi.gov.in)

No. ....../NMH-III/GSI/14<sup>th</sup> CGPB Com XI/2018

Date:12.07.2019

From:  
Additional Director General &  
National Mission Head-III & the Convener  
CGPB Committee XI  
Geological Survey of India,  
29, Jawaharlal Nehru Road,  
Kolkata - 700 016

To:  
All Members/ Permanent Invitees  
of CGPB Committee XI

**Sub: Announcement: 15th Meeting of CGPB Committee-XI (Geoinformatics and Data Management)**

Sir,

The **15<sup>th</sup> Meeting** of **CGPB Committee-XI** on Geoinformatics and Data Management is scheduled to be held on **29<sup>th</sup> August, 2019** at 10-30 A.M. in the Conference Hall of 15 A & B, Kyd Street, Central Headquarters, GSI, Kolkata – 700 016. All members and permanent invitees of CGPB Committee-XI are requested to kindly make it convenient to attend the said meeting. Participation of all the member Organizations/Regions is highly desired to achieve the goals and objectives of the committee.

Minutes of the 14<sup>th</sup> Meeting of CGPB Committee-XI are available on GSI Portal ([www.gsi.gov.in](http://www.gsi.gov.in))  
Action Taken Report as per action points on the minutes of the 14<sup>th</sup> meeting of CGPB Committee-XI may please be submitted to the Additional Director General & NMH-III & Convener of CGPB Committee-XI, GSI, 29, J. L. Nehru Road, Kolkata-700 016 by **31<sup>st</sup> July, 2019**. A soft copy in MS Word may also be sent to the email [cgpbcom11@gsi.gov.in](mailto:cgpbcom11@gsi.gov.in).

All the stakeholder of CGPB Committee-XI have to register through GSI OCBIS Portal. It is requested that the members/stakeholders who have not yet registered, may kindly visit on OCBIS Portal and register through *external sign up* (<https://www.gsi.gov.in/webcenter/portal/OCBIS/RegistrationPage>). Once registered, kindly arrange to send Name, Mobile no, Organisation Name & full Address and email Id, so that the list may be updated on GSI OCBIS Portal.

Yours faithfully

(R.Baskaran)

Additional Director General (ADSS) & NMH-III  
Convener, CGPB Committee XI

Copy for information to,

1. The Deputy Director General (PSS-P & M) & Member Secretary, CGPB, GSI, CHQ, Kolkata
2. The Director, CGPB Secretariat, DGCO, GSI, New Delhi

(R.Baskaran)

Additional Director General (ADSS) & NMH-III  
Convener, CGPB Committee XI

**Minutes of the 14<sup>th</sup> Meeting of the Central Geological Programming Board (CGPB) Committee-XI: Geoinformatics and Data Management, held at Kolkata on 30<sup>th</sup> August, 2018.**

The 14<sup>th</sup> meeting of CGPB Committee-XI was held on 30<sup>th</sup> August 2018 at Oldham Hall, CHQ, GSI, Kolkata, under the Chairmanship of Shri G. Vidyasagar, Additional Director General and National Mission Head- III (Addl. Charge) of Geological Survey of India and Convenor of the 14<sup>th</sup> Meeting of the CGPB Committee-XI. The meeting was graced by the presence of Shri Kamalakanta Panda, Additional Director General (Finance), Shri Pradipta Tarafdar, Deputy Director General (PSS, P&M), Smt. Sanjukta Sahoo, Deputy Director General, HRD, Shri P.K. Sinha, Deputy Director General (M-III-A), Smt Neeharika Jha, Deputy Director General (M-III-B), Shri G.Gonnade, Deputy Director General (M-III-C), and Senior Officers of GSI. Delegates from different Government organisations and PSUs, DGM/CGM of Gujarat, Madhya Pradesh, Nagaland, Jharkhand and NSDI-DST, Indian Bureau of Mines National Centre for Seismology, SOI, MECL, NDMA, CGWB and NGRI participated in the meeting. The list of participants is enclosed as Annexure-I.

14.01.01	Welcome Address by Member secretary	Shri Aneel Kumar, Director (TC) Mission III and Member Secretary of CGPB Committee-XI introduced Member organisations attending the meeting and welcomed all the delegates
14.01.02	Address by the Convener of 14 <sup>th</sup> Meeting of CGPB Committee- XI	Shri G. Vidya Sagar, ADG & NMH III (Addl. Charge) and Convener of the meeting welcomed all the delegates and gave a brief account of the activities of the Mission-III of GSI and its importance to the stakeholders. He emphasized the use of Bhukosh/OCBIS and stated as per National Mineral policy all national geoscience data should be compiled and brought on to one platform.
14.01.03	Address by the ADG Finance of GSI	Shri K.K. Panda, Addl. Director General (F), GSI, emphasised on data integration and data dissemination by all the members of CGPB.
14.01.04	Brief account of Modalities of Meeting by Member Secretary	Shri. V. Aneel Kumar, Director, TC, Mission-III, CHQ also welcomed the delegates from the different Regions of GSI, participating through video conference. He informed the house that the minutes of 13 <sup>th</sup> meeting were sent with invitation letter and were also printed in the current meeting volume (P76-83). <ul style="list-style-type: none"> <li>• Action taken reports on few issues have been received from, DGM, Jharkhand, Odisha and West Bengal</li> <li>• He requested the member organisations to raise Agenda items if any and SGPB proposals during their presentations.</li> </ul> The main issues raised during 13 <sup>th</sup> meeting and action taken are as follows:
<b>Discussions and Confirmation of minutes of 13<sup>th</sup> Meeting of CGPB Committee-XI</b>		
14.01.05	Issue-1	<b>Magnetic &amp; Gravity Data generated by AMD need to be shared with GSI as per MOD guidelines as requested by Dr Dinesh Gupta now Director General GSI ( Para 13.01.04)</b> No Action taken report in this regard has been received from AMD. <p style="text-align: right;"><b>( Action: AMD)</b></p>
	Issue-2	<b>As desired by Secretary Mines, MECL intends to digitise and upload all the geological reports prepared on behalf of Ministry of mines to GSI portal ( Para 13.01.04)</b> Shri K Kaushik confirmed a total of 136 nos. of reports were prepared on behalf of Ministry of Mines( MoM) and uploaded to

		MECL website and are now accessible on GSI portal
	Issue-3	<p><b>All member organisations to submit their Data Dissemination Policy and Negative List at the earliest as per the requirement of National Mineral Policy 2016. (Para 13.01.04)</b></p> <p><b>DMM, West Bengal:</b></p> <p>The information on Data Dissemination Policy and negative list has already been submitted to the Dy.D.G,IT vide letter no.1064 MD dated 18.12.2013.</p> <p>No other Action taken Report on the issue has been received.</p>
14.01.06	Message by Shri S.N. Bhagat, Director, CGPB Secretariat, DGCO, GSI, New Delhi	<p>Shri S.N. Bhagat requested all participants for coordinating and monitoring the activities of the CGPB Committee-XI.</p> <ul style="list-style-type: none"> <li>• He requested all to promote the use of Information Technology (IT) in Geo-Scientific activities.</li> <li>• The problems of data-sharing by the members of CGPB Committee XI to be analysed and a solution to be found out.</li> <li>• He emphasised on the participation of all the State DGMs in CGPB meeting.</li> <li>• He requested the participants to discuss the agenda and the problems.</li> <li>• The Data Sharing Policy need to be discussed in a common platform and finalised.</li> </ul>
14.01.07	Brief of the activities of Mission-IIIA	<p>Shri P.K.Sinha, Dy. Director General, M-IIIA welcomed all the participants and briefed about the activities of M-IIIA. He discussed the following;</p> <ul style="list-style-type: none"> <li>• The OCBIS and the various Modules and their utility.</li> <li>• The utility of BHUKOSH by the stakeholders and citizens.</li> <li>• He gave an account of the expenditure incurred by GSI in the general upkeep and maintenance of the services of OCBIS.</li> </ul>
14.01.08	Brief of the activities of Mission-IIIB	<p>Smt Neeharika Jha, Dy. Director General, M-IIIB, presented the activities of Publication Divisions of GSI:</p> <p>She informed the Committee members about the different publications already published and available in OCBIS Portal. The publications include: Records of GSI, Compendiums, Indian Journal of Geosciences, Extended Scientific Abstracts, Selective Disseminations of Research articles on Indian geology, News Bulletin of CHQ, Brochures, booklets, Special Publications and briefed on the forthcoming Publications from GSI, from the Regional Headquarters and State Units of GSI.</p> <p>Dr. O.P. Mishra, appreciated the service of Publication Division, GSI. He requested all the member organisations to link-up with GSI, Publication Division to publish their data in the form of papers or articles.</p>
14.01.09	Brief of the activities of Mission-IIIC	<p>Shri G.Gonnade, Dy. Director General, M-IIIC, presented the activities of Map &amp; Cartography Division, CHQ.</p> <p>Shri G. Gonnade informed the members about the different projects of Map Division, GSI, CHQ. He also briefed about the Bhukosh and status of NGDR.</p>
<b>Presentation by Member Organisations</b>		
14.01.10	National Spatial Data Infrastructure,	Dr. P.S. Acharya, CEO, NSDI gave an account of the activities of NSDI.

	NSDI	<ul style="list-style-type: none"> <li>• He emphasized on the BIS standards for geospatial metadata which is discoverable and searchable on Geoportal of NSDI through National Data Registry (NDR).</li> <li>• Appreciated the progress of work on 1:50 K maps with GSI</li> <li>• BHUKOSH WMS service needs to be accessible.</li> <li>• Geo-scientific data management skill need to be developed and Training on Standardisation of data to be imparted to younger Geoscientists by GSITI</li> </ul> <p>Shri Basab Mukhopadhyay, Director, GSI, requested NSDI to register on BHUKOSH for accessibility of data through link of WFS service, and informed that the data dissemination policy is yet to be finalised and approved by the Ministry of Mines</p> <p>Shri G.Vidya Sagar, ADG &amp; NHM-III (Addl. Cahrge) requested the Dy. Director General, HRD, GSI to identify two Officers for NSDI-GSI work</p> <p style="text-align: right;"><b>( Action NSDI and GSI)</b></p>
14.01.11	GIS &RS DTE Survey of India	<p>Col. Sunil S Fatehpur, Director, SOI presented about the SOI portal and the in-house mobile app developed by SOI.</p> <ul style="list-style-type: none"> <li>• Point of Interest App to be launched, which can provide/generate information/maps automated and can analyse synthesize and give output based on the query by the end member/user. There is provision for uploading data for user from his local drive in csv, shp,etc, format.</li> <li>• For integrating data of other organisation with geospatial data of SOI it is important to define and promote interoperability of spatial data infrastructure.</li> </ul> <p>Dr. P.S. Acharya suggested that the policy of pricing SOI data for all Govt. Organisation needs to be re-examined</p>
14.01.12	IBM	<p>Dr. Sudhakara T.L. presented on 'Status of Mining Tenement System (MTS) A web based automating the entire life-cycle of Indian Mines.</p> <p>He enquired about the status of Draft MOU between IBM &amp; GSI for 1:50 K data.</p> <p>Shri V.Aneel Kumar GSI informed that it is in the stage of vetting and finalisation. He said GSI would be interested in commodity wise inventory from IBM in GIS format.</p> <p>Shri P.K. Acharya, recommended for a need of a single coherent National Policy for Data Sharing.</p>
14.01.13	Department of Mines & Geology, Jharkhand	<p>Shri Manoj Kumar, briefed on the GIS Cell and Geo-Portal of Directorate of Geology, Govt. of Jharkhand. Shri Manoj Kumar highlighted the achievements of Directorate of Geology, Jharkhand.</p> <ul style="list-style-type: none"> <li>• A GIS Enabled Geo-portal was launched on 22-06-18. <a href="http://www.geology.jharkhand.gov.in">www.geology.jharkhand.gov.in</a></li> <li>• The Directorate of Geology, Jharkhand does not have a policy for data sharing, planning for formulating a policy for data sharing.</li> <li>• Digitization of Mineral Exploration Reports are in progress.</li> </ul>
14.01.14	Central Ground Water Board, ER, Kolkata	<p>Shri Sanjib Chakraborty presented the details of the projects of CGWB.</p> <p>CGWB has developed two mobile apps (a) Metabhujal and (b)</p>

		<p>Jalsanchayan. Shri V. Aneel Kumar, Director requested that GSI is yet to receive GIS compliant data from CGWB as per MOU.</p> <p style="text-align: right;"><b>(Action CGWB)</b></p>
14.01.15	National Disaster Management Authority (NDMA)	<p>Shri Raja Chakraborty, Consultant (GIS), requested GSI to share Landslide related data to their Central and State-wise servers on node wise basis. Shri Debkumar Bhattacharya, Director, GSI, suggested to send a detailed proposal of requirement.</p> <p style="text-align: right;"><b>(Action NDMA)</b></p>
14.01.16	NGRI	<p>Shri N. Kalyan talked on the scope for sharing of data with authorised organisations. He also indicated that it is difficult to share sponsored project data.</p>
14.01.17	Geological Survey of India	<p>Shri A. Saha, Director, GSI, briefed on the different applications of OCBIS Portal. He requested the members to send articles that will be uploaded in OCBIS Portal. He said that 87% of the modules are successfully implemented.</p> <p>Dr. O.P. Mishra enquired about the system of technical evaluation of OCBIS portal applications/modules. Shri Saha replied that, wide usage by the end-users itself is the mechanism of evaluation of the successful implementation. Dr. Mishra also suggested in-house and third party evaluation of OCBIS project at every stage for better understanding the execution and sustainable product delivery aspects of OCBIS.</p> <p>Shri Diptangshu Sengupta, Sr. Geologist demonstrated the 'BHUKOSH: Gateway to Geoscientific Data Repository', highlighting the different map services available in Bhukosh. Shri Basab Mukhopadhyay, Director, GSI gave an account on National Geoscience Data Repository NGDR programme to be launched by GSI. Data will collected from all Stakeholder on a common Mineral Exploration Report Template (MERT) He emphasised on: a) Importance of management of non-georeferenced data b) Cooperation from all the stakeholders need to be ensured for implementation and success of NGDR project. Dr .O. P. Mishra, appreciated the initiative of GSI in Geoinformatics and NGDR project. Dr. Mishra also agreed to share Seismic Hazard Assessment data (ArcGIS platform) with GSI</p> <p style="text-align: right;"><b>(Action NCS)</b></p>
14.01.18	GSI-Regions on VC	<p><b>Issues related to the Regional Headquarters of GSI</b></p> <p>The different Regional Headquarters of GSI participated in the meeting through Video Conferencing for the first time and this initiative of GSI is appreciated by all the members.</p> <p><b>Northern Region, Lucknow:</b> Water Quality Data from CGWB is required. Request for Water Quality Data has been sent to CGWB, but not received till date. Pre-monsoon data is collected by CGWB and the status of request of data will be communicated by CGWB.</p> <p style="text-align: right;"><b>(Action CGWB)</b></p> <p><b>Western Region, Jaipur:</b> Shri S.S. Dutta, Director, informed that for revision of OGP area in Rajasthan, data is required from</p>

		<p>DGM Gujarat, DGM Rajasthan, MECL, Gujrat and Nagpur. Correspondence with the concerned departments made but no response received. Copy of the requisition sent to PPM, CHQ. Shri G. Vidyasagar assured that necessary correspondence will be done from CHQ and requested them to send a copy to NMH.</p> <p style="text-align: right;"><b>(Action WR)</b></p> <p><b>North-eastern Region, Shillong:</b> Shri Basab Mukhopadhyay, Director, instructed the Director, Map to upload the DRMs of NER to OCBIS Portal.</p> <p style="text-align: right;"><b>(Action NER)</b></p>
14.01.19	Concluding remarks by Shri G.Vidya Sagar, ADG&NMH-III (Addl. Charge) and convener	<p>Shri G. Vidya Sagar, Convener concluded the 14<sup>th</sup> Meeting of CGPB Committee-IX with the following remarks:</p> <ul style="list-style-type: none"> <li>• He appreciated all the presentation made in the meet</li> <li>• Emphasized on standardisation of data</li> <li>• Uniform Data-sharing Policy need to be evolved.</li> <li>• Actual sharing of data to be given more prominence.</li> </ul>
14.01.20	Vote of thanks	The meeting ended up with the vote of thanks proposed by Smt. Rosy Samantaray, Suptdg. Geologist, Map Division, CHQ.

### **Outcome and recommendations of the meeting**

- All Regions of GSI participated through video conferencing for the first time
- A total of 136 nos. of reports were prepared on behalf of Ministry of Mines( MoM) and uploaded to MECL website and are now accessible on GSI portal
- Data will be collected from all Stakeholders on a common Mineral Exploration Report Template (MERT) for NGDR project.
- Magnetic & Gravity Data generated by AMD need to be shared with GSI as per MOD guidelines as requested by Dr Dinesh Gupta, currently Director General GSI, in 13<sup>th</sup> CGPB meeting.
- The CEO of NSDI suggested on standardisation for geospatial metadata which is discoverable and searchable on Geoportal of NSDI through National Data Registry (NDR).
- A brief presentation on “BHUKOSH”; “OCBIS” and “NGDR” made from GSI for the benefit of the all stakeholders.
- The CEO of NSDI and Convener of the meeting emphasized on standardisation of data for sharing and interoperability.
- Many members of the meeting suggested for a “Uniform Data-sharing Policy” for all stakeholders, needs to be evolved under one umbrella at National level.

List of Participants in the 14<sup>th</sup> Meeting of CGPB Committee-XI

Sl. No.	Name	Designation	Organization/ Division	Phone/ Email ID
1.	Shri G. Vidya Sagar	ADG & NMH-III (Addl. Charge), Convener	NMH-III, GSI	<a href="mailto:hodm3@gsi.gov.in">hodm3@gsi.gov.in</a> <a href="mailto:godise.vidyasagar@gsi.gov.in">godise.vidyasagar@gsi.gov.in</a> 7013548344
2.	Shri Kamalakanta Panda	ADG (F)	CHQ, GSI	<a href="mailto:kamalakanta.panda@gsi.gov.in">kamalakanta.panda@gsi.gov.in</a> 8017172980
3.	Shri Pradipta Tarafdar	Dy. DG	PSS, P & M	<a href="mailto:pradipta.tarafdar@gsi.gov.in">pradipta.tarafdar@gsi.gov.in</a> 9503088847
4.	Smt. Sanjukta Sahoo	Dy. DG	HRD	<a href="mailto:sanjukta.sahoo@gsi.gov.in">sanjukta.sahoo@gsi.gov.in</a> 9437020292
5.	Shri G. Gonnade	Dy. DG	Mission-IIIC	<a href="mailto:g.gonnade@gsi.gov.in">g.gonnade@gsi.gov.in</a> 9766497054
6.	Shri P. K. Sinha	Dy. DG	Mission-IIIA	<a href="mailto:praveen.sinha@gsi.gov.in">praveen.sinha@gsi.gov.in</a> 9490032864
7.	Shri Neeharika Jha	Dy. DG	Mission-IIIB	<a href="mailto:neeharika.jha@gsi.gov.in">neeharika.jha@gsi.gov.in</a> 9448968417
8.	Shri. V. Aneel Kumar	Director (TC), M- III & Member Secretary	TC, M-III, CHQ, GSI	<a href="mailto:v.kumar1@gsi.gov.in">v.kumar1@gsi.gov.in</a> 9848822402
9.	Shri S. N Bhagat	Director	CGPB Secretariat	<a href="mailto:sambhu.bhagat@gsi.gov.in">sambhu.bhagat@gsi.gov.in</a> 7578002890
10.	Dr. C. Joshi	Director	PSS-Planning & Monitoring-4, GSI	<a href="mailto:joshich@gmail.com">joshich@gmail.com</a> 9420212107
11.	Shri Asit Saha	Director	Mission-IIIA	<a href="mailto:asit.saha@gsi.gov.in">asit.saha@gsi.gov.in</a> 9432012109
12.	Shri Debkumar Bhattacharyya	Director	Mission-IIIA	<a href="mailto:debkumar@gsi.gov.in">debkumar@gsi.gov.in</a> 9830031059
13.	Shri Basab Mukhopadhyay	Director	Map-II	<a href="mailto:basab.mukhopadhyay@gsi.gov.in">basab.mukhopadhyay@gsi.gov.in</a> 9836230594
14.	Smt. Pushp Lata	Director	Director	<a href="mailto:pushp.lata@gsi.gov.in">pushp.lata@gsi.gov.in</a> 9868593947
15.	Dr. S. K. Kulshrestha	Director	Director (P)	<a href="mailto:s.kulshrestha@gsi.gov.in">s.kulshrestha@gsi.gov.in</a> 9413330658
16.	Shri S. S. Wase	Director	Map-I, CHQ	<a href="mailto:sharad.wase@gsi.gov.in">sharad.wase@gsi.gov.in</a> 9433903560
17.	Dr. Susmita Gupta	Director	Publication-I, CHQ	<a href="mailto:susmita.gupta@gsi.gov.in">susmita.gupta@gsi.gov.in</a> 8902751581
18.	Smt. Rosy Samantaray	Suptdg. Geologist	Mission-IIIC, CHQ	<a href="mailto:rosy.samantaray@gsi.gov.in">rosy.samantaray@gsi.gov.in</a>
19.	Smt. Nabanita Nandy	Suptdg. Geologist	Mission-IIIB, CHQ	<a href="mailto:nabanita.ray@gsi.gov.in">nabanita.ray@gsi.gov.in</a>
20.	Shri Pralay Mukherjee	Suptdg. Geologist	Mission-IV, CHQ	<a href="mailto:pralay.mukherjee@gsi.gov.in">pralay.mukherjee@gsi.gov.in</a>
21.	Shri Dilip Kumar Soni	Senior Geologist	M-IIIC	<a href="mailto:dksoni74@gmail.com">dksoni74@gmail.com</a>



Sl. No.	Name	Designation	Organization/ Division	Phone/ Email ID
22.	Dr. Pradip Kumar Mukherjee	Senior Geologist	M-IIIC	<a href="mailto:pradip.mukherjee@gsi.gov.in">pradip.mukherjee@gsi.gov.in</a>
23.	Shri Arun Bhadran	Senior Geologist	M-IIIA	<a href="mailto:arun.bhadran@gsi.gov.in">arun.bhadran@gsi.gov.in</a>
24.	Shri Tanmoy Mukherjee	Senior Geologist	M-IIIA	<a href="mailto:tanmoy.mukherjee@gsi.gov.in">tanmoy.mukherjee@gsi.gov.in</a>
25.	Shri Gargi Chakraborti	Senior Geologist	M-IIIA	<a href="mailto:gargi.chakraborti@gsi.gov.in">gargi.chakraborti@gsi.gov.in</a>
26.	Smt. Priyanka Chatterjee	Senior Geologist	M-IIIA	<a href="mailto:priyanka.chatterjee@gsi.gov.in">priyanka.chatterjee@gsi.gov.in</a>
27.	Shri Suman Das	Senior Geologist	M-IIIB	<a href="mailto:suman.das@gsi.gov.in">suman.das@gsi.gov.in</a>
28.	Smt. Snehalata Mukherjee	Senior Geologist	M-IIIA	<a href="mailto:snehalata.kumari@gsi.gov.in">snehalata.kumari@gsi.gov.in</a>
29.	Shri Ritam Konar	Senior Geologist	M-IIIB	<a href="mailto:ritam.konar@gsi.gov.in">ritam.konar@gsi.gov.in</a>
30.	Shri Ananda Modak	Senior Geologist	M-IIIB	<a href="mailto:anandamodak@gmail.com">anandamodak@gmail.com</a>
31.	Shri Shiba Chandra Shukla	Senior Geologist	M-IIIA & TC, M-III	<a href="mailto:s.shukla1@gsi.gov.in">s.shukla1@gsi.gov.in</a>
32.	Shri Samar Ranjan Mahanty	Senior Geologist	M-IIIA	<a href="mailto:s.mohanty@gsi.gov.in">s.mohanty@gsi.gov.in</a>
33.	Shri Diptansu Sengupta	Senior Geologist	M-IIIC	<a href="mailto:diptansu.sengupta@gmail.com">diptansu.sengupta@gmail.com</a>
34.	Smt Anamika Mukherjee	Senior Geologist	M-IIIC	<a href="mailto:anu_samy2001@yahoo.co.in">anu_samy2001@yahoo.co.in</a>
35.	Smt. Pushpita Bhaduri	Sr. Geophysicist (Instrumentation)	M-IIIA	<a href="mailto:pushpita.bhaduri@gsi.gov.in">pushpita.bhaduri@gsi.gov.in</a>
36.	Smt. Swati Maondal	Geologist	M-IIIC	<a href="mailto:swati.mondal@gsi.gov.in">swati.mondal@gsi.gov.in</a>
37.	Smt. Joohi Naz	Geologist	M-IIIB	<a href="mailto:joohi.naz@gsi.gov.in">joohi.naz@gsi.gov.in</a>
38.	Shri. J. M. Patel	Assistant Geologist	M-IIIC	<a href="mailto:jpatel.gsi@gmail.com">jpatel.gsi@gmail.com</a>
39.	Shri. Soumya Ghosh	Assistant Geologist	M-IIIA	<a href="mailto:soumya.ghosh@gsi.gov.in">soumya.ghosh@gsi.gov.in</a>
40.	Smt. Harshika Kishore	JTA(Geology)	M-IIIA	<a href="mailto:harshikakishore@gmail.com">harshikakishore@gmail.com</a>
41.	Shri. Biswarup Akhuli	JTA(Geology)	M-III	<a href="mailto:bakhuli@gmail.com">bakhuli@gmail.com</a>

**Representatives from Central Govt. Organisation and State DGM's**

	<b>Name</b>	<b>Designation</b>	<b>Organization/ Division</b>	<b>Mobile/ Email ID</b>
42.	Dr. P. S. Acharya	CEO, NSDI	NSDI, New Delhi	<a href="mailto:psa@nic.in">psa@nic.in</a> 9818879402
43.	Dr. O. P Mishra	Scientist 'F'	National Centre for Seismology; Ministry of Earth Sciences, New Delhi	<a href="mailto:opmishra2010.saarc@gmail.com">opmishra2010.saarc@gmail.com</a> 08447346687
44.	Col Sunil S Fatehpur	Director, GIS & RS	SOI, Hyderabad	<a href="mailto:sunilsfatehpur.soi@gov.in">sunilsfatehpur.soi@gov.in</a> 9910318777
45.	Dr. Sudhakara T.L.	Senior Mining Geologist	IBM, Nagpur	<a href="mailto:sudhakara@ibm.gov.in">sudhakara@ibm.gov.in</a> 09900881047
46.	Shri Krishna Kumar Kaushik	Dy General Manager (Exploration)	MECL, Nagpur	<a href="mailto:kkaushik47@gmail.com">kkaushik47@gmail.com</a> <a href="tel:9422805475">9422805475</a>
47.	Dr. Raja Chakraborty	Consultant (GIS)	NDMA, New Delhi	<a href="mailto:chakraborty@ndma.gov.in">chakraborty@ndma.gov.in</a> 09999106925
48.	Dr. Sanjay Khare	Dy. Director (Geology)	DGM, Chhatisgarh	<a href="mailto:drsanjaykhare@hotmail.com">drsanjaykhare@hotmail.com</a> 09425510191
49.	Shri Sumit Chauhan	Geologist (Exploration)	CGM, Gujarat	<a href="mailto:geologist-tech-gm@gujarat.gov.in">geologist-tech-gm@gujarat.gov.in</a> 09909039662
50.	Shri. Manoj Kumar	Dy. Director (Geology)	DGM, Jharkhand	<a href="mailto:ddgeodumka@gmail.com">ddgeodumka@gmail.com</a> 9431531529
51.	Shri M. S. Khatodia	Assistant Geologist	DGM, Madhyapradesh	<a href="mailto:rhdgmind@mp.gov.in">rhdgmind@mp.gov.in</a> 9826731929
52.	Smt. Tsino Viya	Asst. Geologist	DGM, Nagaland	<a href="mailto:tsinoviya@gmail.com">tsinoviya@gmail.com</a> 9402680871
53.	Smt. Rose Anita Kujur	Scientist - D	CGWB, Kolkata	<a href="mailto:kujurar02@gmail.com">kujurar02@gmail.com</a> 8420004923
54.	Mr. Sanjib Chakraborty,	Scientist - B	CGWB, Kolkata	<a href="mailto:sanjibc_2007@rediffmail.com">sanjibc_2007@rediffmail.com</a> 9836926274
55.	Shri Kalyan Netti	Sr. Scientist	NGRI, Hyderabad	<a href="mailto:netti_kalyan@ngri.res.in">netti_kalyan@ngri.res.in</a> 07893137342