



**Minutes of 15<sup>th</sup> Meeting of Central Geological Programming Board (CGPB) of  
Committee-VIII (Geology and Mineral Resources of North Eastern Region) held on  
30<sup>th</sup> August, 2019, at Shillong**

Para	Proceeding of the Meeting
<b>15.00.00</b>	The 15 <sup>th</sup> meeting of Central Geological Programming Board (CGPB) of Committee-VIII on Geology and Mineral Resources of North Eastern Region was held at Oldham Hall, Shylla Building, NER, GSI, Shillong on 30 <sup>th</sup> August 2019. The Dy. DG and Director TC of different state units, NER, GSI attended the meeting through videoconferencing from their respective places. The meeting was chaired by Dr. J. Rajeshwar, Deputy Director General & HoD, GSI, NER, and Convener of the Committee. List of the participants is appended as Annexure-I.
<b>15.01.00</b>	Dr. Tapan Pal, Director, PSS and Member Secretary, extended warm welcome to all the participants and highlighted the objective and significance of this meeting in terms of establishing the mineral potential of North Eastern Region. He also read out the Term of Reference of this committee. During the welcome address, he emphasized the importance of Quaternary geology, placer gold, environmental geology, geotourism, bauxite, vanadium, graphite, basemetal studies in NER and nickel associated with ophiolites of Manipur and Nagaland. He then requested ADG & HoD, NER, GSI and Convener of the Committee for his opening remarks.
<b>15.01.01</b>	Dr. J. Rajeshwar, Deputy Director General & HoD, GSI, NER, Shillong and the Convener of CGPB committee VIII, welcomed all the participants. He opined that CGPB is a platform to address the emerging challenges in the field of geosciences to facilitate good interaction amongst all the departments, organisations and stakeholders engaged in carrying out geological and mineral exploration in NER. Considering the difficult terrains and unfavourable conditions in the region, he request all stakeholders including the State Government agencies to come forward and extend their co-operation for smooth execution of geo-scientific programmes of GSI in the NER. He further urge to all the participants from various organisations to make full use of the CGPB platform to deliberate and recommend measures for the holistic expansion of geo-scientific activities in NER. He also requested all stakeholders (Central/ State Agencies/ Department/ Organisation) to come forward with updated ideas, focussing on future planning and prospective plan for mineral exploration of potential areas in NER as short and long term proposals. He also requested all stakeholders to come forward with new collaborative proposal in the forthcoming year. For data sharing, all stakeholders can access the OCBIS portal of GSI for various geological data, reports, and maps etc. which are kept under public domain.
<b>15.01.02</b>	Shri. M. Chandra Das, Dy.D.G, CGPB Secretariat, GSI, New Delhi, in his opening remarks welcomed all the participants. He requested all stakeholders to come up with projects related to deep seated deposits under project uncover of the Quaternary deposits of NER. He further added that so many landslide and ground water related issues are discussed during subcommittee meetings of CGPB but very few projects related to these issues comes up in the main CGPB. He also emphasised on the need for increasing awareness of geosciences related activities of NER to the local people and told that BHUVISAMVAD is a very good platform to achieve this. He also discussed about the need for holding SGPB timely to enhance more activities for augmenting natural resources. He added that DMRs and DGMs of states need to take greater role in formulating projects and its implementation.
<b>15.02.00</b>	<b>Discussions on ATR of 14th CGPB Meeting of Committee-VIII and confirmation of the</b>

	<b>minutes</b>
<b>15.02.01</b>	<p>As per discussions in 14th CGPB meeting, DDG, SU: M&amp;N replied that an item on limestone investigation was proposed for FS 2020-21 but the same was dropped. MS informed the house that it was suggested to DCI, Manipur to take up the item from their end and GSI will provide technical guidance. But no concrete projects have come up from the side of DCI, Manipur.</p> <p style="text-align: right;"><b>(Action: DCI, Manipur)</b></p>
<b>15.02.02</b>	<p>DGMR, Mizoram informed that one Meso-scale landslide Zonation in Serchhip to Buarpui via Thenzawl road is being taken up in the current field season. Regarding the remaining 2 site specific landslide study it was suggested by Shri. Chandra Das, to DGMR, Mizoram to submit a detailed and concrete proposal to GSI on priority basis and will be taken up depending upon the availability of manpower.</p> <p style="text-align: right;"><b>(Action: DGMR, Mizoram)</b></p>
<b>15.02.03</b>	<p>Regarding a proposal of Director, DMR, Meghalaya to find a scope for study in collaboration with AMD and GSI, it was informed that several discussions was held with DMR and they had shown interest for collaborating in drilling related investigation in Sung Valley for REE in carbonatite. And one such programme is being proposed for FS: 2020-21, which was also discussed in the recently held SGPB meeting of Meghalaya.</p> <p>Shri. R.L. Sarkar, Director, PSS P&amp;M-6 suggested to DMR to come up with a concrete program with a well defined role of GSI (MoU if possible).</p> <p style="text-align: right;"><b>(Action: DMR, Meghalaya, AMD &amp; GSI, NER, Shillong)</b></p>
<b>15.02.04</b>	<p>Regional Director, AMD informed that Sanchampi and Barpung is very potential areas for REE. However, the investigation programmes were hampered due to law and order problems in these areas.</p> <p>MS requested DGM Assam to take up the investigation on Sanchampi and Barpung from their side and GSI will provide technical guidance. He further added that GSI is very much interested in taking up an item in the area provided the law and order improves.</p> <p style="text-align: right;"><b>(Action: DGM, Assam)</b></p> <p>DGMR, Mizoram informed the house that Initiative was being taken up for the awareness programme in the field areas to educate local people about the kind of work carried out by GSI and State DGM from time to time. But the remaining DGMs and DMRs of NER gave no reply.</p> <p style="text-align: right;"><b>(Action: All state DGMs, NER)</b></p>
<b>15.02.05</b>	<p>Regarding taking up of the investigation of Placer gold in Subansiri, MS informed the house that a project may be taken up by GSI in FS 2020-21.</p> <p style="text-align: right;"><b>(Action: GSI, NER)</b></p>
<b>15.02.06</b>	<p>Director, DMR, Meghalaya informed that they have received analysis of 6 EPMA and 9 SEM studies.</p> <p>MS requested DMR, Meghalaya to send their geologist to GSI with the result to discuss regarding its interpretation and future action.</p> <p style="text-align: right;"><b>(Action: DMR, Meghalaya)</b></p>
<b>15.02.07</b>	<p>Regional Director, AMD suggested to plan for collaborative programmes and joint work along Nongchram Fault to find out the polymetallic minerals exploration programmes, if possible, in future. It was replied by SU: Meghalaya that one item from GSI is being proposed for FS 2020-21.</p> <p>Shri. Chandra Das, suggested taking up FSP in collaboration with GSI. He also added that BHUVISAMVAD platform can be utilised to spread awareness to local people regarding the</p>

	<p>activities of GSI and state DMR. MS requested DMR to implement the idea and to take joint traverse to access the ground condition of the study area.</p> <p style="text-align: right;"><b>(Action: DMR, Meghalaya and Director TC, SU: Meghalaya)</b></p>
<b>15.02.08</b>	<p>Regarding the training and capacity Building, GSI is always imparting training to the officials of state DGMs and in this regard, MS requested all state DGMs to look upon the GSI calendar for training programmes and to submit their training proposal well in advance.</p> <p style="text-align: right;"><b>(Action: All state DGMs, NER)</b></p>
<b>15.02.09</b>	<p>As GSI being the nodal agency for landslide study, MS requested all state DGMs to submit the report of each landslide study carried by them to GSI. DGMR Mizoram replied that it will be shared to GSI after finishing such compilation. MS further suggested submitting the completed reports one by one instead of sending as bulk.</p> <p style="text-align: right;"><b>(Action: All state DGMs, NER)</b></p>
<b>15.02.10</b>	<p>DGM, Nagaland has submitted a proposal to CGWB for assessment of the aquifer mapping, ground water recharging and ground water resource assessment in Nagaland. Shri. Chakraborty, CGWB replied that aquifer mapping of Dimapur district is completed. MS requested CGWB to write a letter to DGM Nagaland for this information within 7 days and if possible to hand over the reports of the already completed projects.</p> <p style="text-align: right;"><b>(Action: CGWB and DGM, Nagaland)</b></p>
<b>15.02.11</b>	<p>Regarding installation of display board at the proposed geoheritage sites, DGMR Mizoram replied that project will be taken up in consultation with GSI after funds are allocated from state government. MS suggested to select the spot and GSI will help in preparing the technical details.</p> <p style="text-align: right;"><b>(Action: All state DGMs, NER)</b></p>
<b>The house unanimously accepted the minutes of 14<sup>th</sup> CGPB meeting of Committee-VIII</b>	
<b>15.03.00</b>	<p>The overview of the work carried out under M-I, II, III &amp; IV by GSI, NER were presented by Shri Janak Raj, DDG &amp; RMH-I, Dr. Mansoor Ahmad, Director, RMH-II, Shri. R. R. Raul, DDG &amp; RMH – III and Shri. Sabyasachi Shome, DDG &amp; RMH- IV respectively.</p>
<b>15.04.00</b>	<b>Review of work done by the State DGMs/DMR/DMMG/DCI</b>
<b>15.04.01</b>	<p>DGM Arunachal Pradesh</p> <p>Shri. Kupong Aboh, DGM, Arunachal Pradesh requested DGPS training for geologists. MS suggested to follow GSITI training calendar and send their geologists accordingly. Shri. R.L. Sarkar requested DGM to get acquainted with the various M-II projects being taken up in Arunachal and to assist GSI in its implementation. MS further requested DGM to resolve GSI land issue.</p> <p style="text-align: right;"><b>(Action: DGM, Arunachal Pradesh)</b></p>
<b>15.04.02</b>	<p>DMR, Meghalaya</p> <p>Shri L. S. Lyngdoh, Director, informed the house that they have taken up 5 items in FS 2018-19. MS requested to submit some core samples from coal for germanium (Ge) and REE analysis. Director, SU: Meghalaya informed that a field season programme has been taken up by M-II B, NEnR, in collaboration with IIT (ISM) Dhanbad for identifying GE in coal fields of Meghalaya.</p> <p>Shri. R.L. Sarkar requested DMR to prepare a master plan and vision document for the next 5 years for future planning of projects. MS further suggested taking the help of CMPDI regarding the problem faced in coal drilling.</p> <p style="text-align: right;"><b>(Action: DMR, Meghalaya)</b></p>
<b>15.04.03</b>	<p>DGM, Assam</p> <p>Shri. C.D. Nath, Senior Geologist, DGM, Assam presented the work. All projects involve</p>

	<p>geological mapping on 1:50,000 scale. Shri. Chandra Das, DDG, suggested using 50K map prepared by GSI instead of duplicating the same work. They were also suggested to follow GSI pattern of FSP formulation and take assistance of GSI, SU: Assam for the formulation of FSP.</p> <p style="text-align: right;"><b>(Action: DGM Assam)</b></p> <p>MS suggested to consult CMPDI for coal project as CMPDI has identified 3 blocks for FS 2019-20.</p> <p style="text-align: right;"><b>(Action: DDG, SU: Assam)</b></p>
<b>15.04.04</b>	<p>DGMR, Mizoram</p> <p>Shri. Lalhmachhuana, Director, DGMR informed that they are taking up minor mineral exploration and exploitation programme of sandstone and sand in West Phaileng area of Mamit District. He further requested to take up geotechnical and landslide investigation along NH-54, Sairang to Kawnpui Sector and geological condition study of Power &amp; Electricity Department at 132 KV Sub-station, Zuangtui, Aizwal.</p> <p>MS suggested to submit a detailed project proposal at the earliest so that it can be taken up by GSI on priority basis.</p> <p style="text-align: right;"><b>(Action: DGMR, Mizoram)</b></p>
<b>15.05.00</b>	<b>Review of work done by Other Central Agencies</b>
<b>15.05.01</b>	<p>AMD, Shillong</p> <p>Dr. Rahul Banerjee, Regional Director, AMD, Shillong presented the work carried out by AMD in the States of NER. He highlighted the sub-surface exploration activities West Siang district, Arunachal Pradesh and Khetabari Formation of Bomdila Group. He also added that as law and order condition is not suitable for work in Meghalaya they are focussing more on the other states of NER.</p> <p>Regarding joint field traverses by the officers of GSI and AMD for study of Lower Mahadek and Nongcharam Fault. It was replied that joint traverse could not be taken up due to suspension of exploration activities by AMD in Meghalaya at present.</p>
<b>15.05.02</b>	<p>IBM, Nagpur</p> <p>Shri D. Dash, Sr. Mining Geologist presented the work carried out by IBM during the assessment period. He requested that all the reports of exploration should be as per IBM guidelines (Form 4).</p> <p>MS suggested IBM to share the form with DMRs and DGMs of NER.</p> <p style="text-align: right;"><b>(Action: IBM, Nagpur)</b></p>
<b>15.05.03</b>	<p>CMPDIL, Ranchi</p> <p>Shri. R. K. Singh, Sr. Manager (Geology), CMPDIL presented the work carried out for identification of blocks for coal exploration in North Eastern Region. He informed the house that CMPDI has informed NE states regarding blocks for taking coal exploration in 2019-20 as approved by MoC. However, except DGM Nagaland no other state government has taken up work for regional /detailed exploration for coal in NER. CMPDIL has repeatedly requested state governments to undertake regional /detailed exploration for which adequate fund is available under CSS (Central Sector Scheme of MoC).</p> <p>MS suggested submitting and starting regional / detailed exploration of the identified blocks in consultation with CMPDIL.</p> <p style="text-align: right;"><b>(Action: All DGMs, NER)</b></p>
<b>15.05.04</b>	<p>CGWB, Shillong</p> <p>Shri T. Chakraborty, Officer In-charge, CGWB, Shillong gave detailed account on Aquifer Mapping and Management, Groundwater Exploration, Groundwater Regime Monitoring, Soil</p>

	<p>Infiltration studies, Short Term Water Supply investigation, GW Year Book, Groundwater Resources Assessment during the assessment.</p> <p>Regarding ADG &amp; HoD, GSI's request to make arrangement for one bore well (tube well) at the New GSI campus at Rynjah, Shillong, it was replied that when the rig will be available in Shillong it will be taken up.</p> <p>MS requested CGWB to share their reports and data with DGMs and DMRs of NER.</p> <p style="text-align: right;"><b>(Action: CGWB, Shillong)</b></p>
<b>15.06.00</b>	<b>Concluding Remarks</b>
<b>15.06.01</b>	<p>Shri. R.L. Sarkar, Director, PSS, P &amp; M - 6, congratulated all the participants for a fruitful meeting. He observed that SGPB should be held before the CGBP subcommittee and the agenda discussed during SGPB should be brought out in this meeting. If collaboration with other agencies is to be taken up it should be finalised before the main CGPB. All DMRs and DGMs are requested to submit a master plan/ vision document for 5 year to avoid duplication of work taken up by different agencies. He requested RMH-I to identify priority areas for NGCM items for future as OGP areas are nearly complete. He emphasised the need to give thrust to REE and RM for future projects. He also suggested all the DMRs and DGMs to consult GSI reports available in GSI OCBIS portal.</p> <p style="text-align: right;"><b>(Action: All DGMs of NER and RMH-I, GSI, NER)</b></p>
<b>15.06.02</b>	<p>Shri. M. Chandra Das, DDG, CGPB Secretariat congratulated all the participants for their keenness in their item taken and good interaction and hope for a fruitful outcome in the future. GSI may extend all technical guidance to all the State DGMs with their proposal. GSI may take up items of FS 2019-20 in fast track mode in term of chemical analysis so that it can be upgraded to G3 stage in the subsequent FSP. Priority should be given to REE and RM. He requested DGM Assam in particular to take the help of GSI, SU: Assam for formulation of projects similar to FSP items of GSI. Arunachal DGM has problem regarding technical manpower of geology to know the importance of their natural resource for revenue generation. DGMR Mizoram should also come up with concrete projects on coal exploration and should take the help of CMPDIL. He also requested MS to call the respective State unit of GSI to contact DGM Nagaland and DCI Manipur regarding their material, ATR and agenda so that they can be incorporated in the CGPB minutes. He thanked Regional Director, AMD for a very good presentation. He also expressed his happiness regarding findings of GSI for Vanadium, Tungsten, Graphite and Poly-metallic occurrences of Arunachal Pradesh. He also thanked CMPDI for their presentation on coal exploration of NER.</p> <p style="text-align: right;"><b>(Action: All DGMs of NER and GSI, NER)</b></p>
<b>15.06.03</b>	<p>Dr. J. Raheshwar, DDG &amp; HoD, GSI, NER, and Convener, CGPB Committee-VIII, First of all, thanked all members and stake holders of this 15th CGPB committee-VIII for their active participation during the discussions. He added that the presentation delivered on various aspects during this meeting were very much informative. He requested all DGMs to be more proactive and hold their SGPB meeting prior to the CGPB meeting and that they should come forward for collaboration. He further added that if collaboration is required, state govt. agencies should submit concrete proposal, clearly indicating role of GSI. DGM Arunachal Pradesh was requested to extend their support to GSI as GSI have many promising M-II items in Arunachal Pradesh. GSI being the nodal agency and custodian of the landslide data, state DGMs are requested to submit the reports of the work carried out by them to GSI. Regarding funding DGMs were requested to approach NMET or Ministry of DoNER with concrete proposal. He urged heads of all DGMs to attend the CGPB meetings in future. He advised DGM Assam to attend the meeting in preparedness.</p>

He finally thanked all participants for their active deliberation and interaction during the 15th CGPB meeting.
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Shri. J. K. Naik, Director TC, SU: Meghalaya, NER, GSI presented the vote of thanks.
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### **Salient features of 15<sup>th</sup> Meeting of CGPB Committee-VIII**

1. As all the central agencies like GSI, AMD, CGWB are facing lot of local issues while executing the field items, the state DGMs may work in collaboration with the central agencies and extend their support for smooth execution of the work.
2. It was discussed that all DGMs of NER may propose one viable programme as a collaborative work with GSI. This will offer opportunity to State DGM officers to work with GSI team and sharing knowledge of work and simultaneously address capacity building of State DGMs.
3. All DGMs were advised to come forward and take opportunity for training conducted by RTI, GSI, Shillong for skill up gradation and knowledge.
4. More focuses should be given to the proposals on REE, RM, basemetal and strategic minerals etc. in future planning. It was also advised to focus on ground water exploration in NER. Finalisation of Master Plan and 5 year vision document on mineral exploration should be expedited by all State DGMs and State Units of NER, GSI.
5. All stakeholders were advised to share their data to GSI for future collaborative programmes.

**LIST OF PARTICIPANTS**

SL. No.	NAME	DESIGNATION	ORGANISATION
<b>GSI</b>			
1	Dr. J. Rajeshwar	Dy. Director General & HoD, NER	GSI, Shillong
2*	Shri. P. V. Ramana Murthy Murthy	Dy. Director General, SU: M & N, Dimapur	GSI, Dimapur
3	Shri. M. Chandra Das	Dy. Director General, CGPB	DGCO, GSI Delhi
4	Shri. Janak Raj	Dy. D. G. & RMH-I	GSI, Shillong
5*	Shri. T. L. Shitiri	Dy. D. G., SU: Arunachal	GSI, Itanagar
6*	Shri. Kajal Mondal	Dy. D. G., SU: ASM, MEG,	GSI, Guwahati
7	Shri. R. R. Raul	Dy. D. G. & RMH-III	GSI, Shillong
8	Shri. Sabyasachi Shome	Dy. D. G. & RMH-IV	GSI, Shillong
9	Dr. Tapan Pal	Director, PSS & Member Secretary	GSI, Shillong
10	Shri. R. D. Mehrotra	Director, RMH-I	GSI, Shillong
11	Shri. R. L. Sarkar	Director, PSS, P & M - 6	CHQ, Kolkata
12*	Shri. S. P. Dhanvijay	Director TC, SU: M & N	GSI, Dimapur
13*	Dr. P. K. Singh	Director, TC, SU: Arunachal	GSI, Itanagar
14*	Dr. P.K. Shrivastava	Director, TC, SU: Sikkim	GSI, Sikkim
15	Shri. Manoj Kaistha	Director, RMH-IV	GSI, Shillong
16	Shri. J. K. Naik	Director TC, SU: Meghalaya	GSI, Shillong
17	Dr. Mansoor Ahmad	Director, RMH-II	GSI, Shillong
18*	Shri. C. Yanthan	Supdtg. Geologist, TC, SU: T & M	GSI, Agartala
19*	Shri. N.B. Singha	Director, TC, SU: Assam	GSI, Guwahati
20	Shri. Ramesh Laishram	Senior Geologist	PSS, GSI, Shillong
21	Shri. Rohit V. Gajbhiye	Senior Geologist	PSS, GSI, Shillong
22	Ms. Annie D. Nelson	Senior Geologist	PSS, GSI, Shillong
<b>Central Agencies/Department/Organisation</b>			
23	Dr. Rahul Banerjee	Regional Director	AMD, Shillong
24	Shri. Santu Patra	Scientific Officer D	AMD, Shillong
25	Shri D. Dash	Senior Mining Geologist	IBM, Nagpur
26	Shri T. Chakraborty	Officer In-charge	CGWB, Shillong
27	Shri Rajiva Kumar Singh	Senior Manager (Geology)	CMPDIL, Ranchi
28	Shri. A. K. Mohanty	General Manager (Exploration)	CMPDIL, Ranchi
29	Shri Rampher	Assistant Engineer	BRO, Shillong
<b>State DGMs</b>			
30	Shri M. S. Lyngdoh	Director	DMR, Meghalaya
31	Shri. J.W. Sangma	Dy. Director	DMR, Meghalaya
32	Shri. Lalhmachhuana	Director	DGMR, Mizoram
33	Shri. Kupong Aboh		DGM, Arunachal Pradesh
34	Shri. C.D. Nath	Senior Geologist	DGM, Assam
35	Shri. M. Konwar	Senior Geologist	DGM, Assam
36	Shri. P.K. Baruah	Senior Geologist	DGM, Assam

\* Attended the 15<sup>th</sup> CGPB Committee-VIII meeting through videoconferencing.