



**GOVERNMENT OF INDIA  
GEOLOGICAL SURVEY OF INDIA  
WESTERN REGION  
Khanij Bhawan,  
15-16, Jhalana Doongri, Jaipur – 302004**

**Announcement**

**15<sup>th</sup> Meeting of CGPB Committee-III  
(Non-ferrous and Strategic Minerals)**

The **15<sup>th</sup> Meeting of the CGPB Committee-III on Non-Ferrous and Strategic Minerals** is scheduled to be held on **20<sup>th</sup> September 2019** at Geological Survey of India, **Western Region, Jaipur**. The deliberations proposed include taking stock of the progress of delineation of the new target areas for mineral exploration work by various governmental organizations, PSUs and private exploration agencies, with an objective to evolve new strategies for augmentation of tonnage of known deposits and search of additional resources in respect of base metals and strategic minerals. In addition, following are some of the agenda items that are proposed to be discussed during the meeting:

1. Development of a comprehensive database of entire exploration of base metals and strategic minerals being carried out by various organizations. Such an exercise will help in identification of gap areas and formulation of new mineral exploration programs.
2. Futuristic requirements and strategy of exploration for Non-ferrous and Strategic minerals in the Country.
3. Application of advancements in beneficiation technology in Indian scenario with respect to non-ferrous and strategic minerals.
4. GSI, WR has successfully carried out digitization of mineral exploration reports. A similar line of action is desired from other stake holders also for dissemination of data that will help in bridging the information gap pertaining to mineral exploration activities for identification of target areas.
5. Preparation of GIS complianced updated status map of exploration activities by all agencies.
6. Sharing of specialized labs amongst the member orgnaizations.
7. Any other agenda with the permission of the chair.

**All stakeholders and members are requested to attend the said meeting.**

In this connection all stakeholders and members are requested to kindly arrange to send the following documents as detailed below, both in hard and soft copy through email at **[gsiwrte@gmail.com](mailto:gsiwrte@gmail.com)**:

1. The reply pertaining to actionable points in the minutes of the 14<sup>th</sup> meeting of CGPB Committee-III (enclosed herewith) held on October 01<sup>st</sup>, 2018, may also be furnished, **latest by 24<sup>th</sup> August, 2019**.
2. Agenda items for the 15<sup>th</sup> meeting, latest by **24<sup>th</sup> August, 2019**.
3. Progress of work carried out by your Organization/Department/Region/State Unit/Project, on the relevant mineral commodities in the proforma enclosed herewith, for the period spanning from 01<sup>st</sup> September, 2018 to 31<sup>st</sup> August, 2019, **latest by 05<sup>th</sup> September, 2019**.

It has been already informed that all the stakeholders of CGPB Committee-III have to register through OCBIS Portal of GSI. It is once again requested that the members/stakeholders who have not yet registered, may kindly visit OCBIS Portal and register through external sign up (<https://www.gsi.gov.in/webcenter/portal/OCBIS/Registration> Page). Once registered, kindly arrange to send Name, Mobile no., Organization Name with complete address and E-Mail ID.

*Debasish Bhattacharya*  
18.7.19

**(Debasish Bhattacharya)**  
Member Secretary, CGPB Comm. -III.  
& Director PSS, WR, GSI, Jaipur  
Contact no. 99833187

**PROFORMA-A (for organizations directly engaged in field investigations)**

**PROGRESS OF WORK DONE FROM 01<sup>st</sup> SEPTEMBER 2018 TO 31<sup>st</sup> AUGUST 2019**

1. (a) Investigating Agency:  
(b) Name of Prospect:  
(c) Code No. (if any) in FSP etc:  
(d) Location with co-ordinates & Toposheet Nos.:

2. (a) Geology and structure of the area:

- (b) Nature of mineralization:

3. Quantum of work done:

Nature of work	Target	Previous achievement	Work done during the period under review

4. Mineralization details:

- (a) Strike length of mineralized zone:
- (b) Average width and grade of the zone:
- (c) Resource estimated:
- (d) Potentiality of the prospect/deposit:
- (e) Assessment (objective has been achieved or not):

5. Future work proposal in respect of the prospect/deposit:

Action taken on the minutes of 14<sup>th</sup> Meeting (held on 01-10-2019):

Agenda items:

**PROFORMA-B (for organizations not engaged in field investigations)**

**PROGRESS OF WORK DONE FROM 01<sup>st</sup> SEPTEMBER 2018 TO 31<sup>st</sup> AUGUST 2019**

- I. Organizations/laboratories who are engaged in R&D/Beneficiation/any other special type of activities may submit their material in running text, highlighting the achievement during the period under review:
- II. Future work proposal:

**MINUTES OF THE 14<sup>th</sup> MEETING OF THE CGPB COMMITTEE - III**  
**(NON –FERROUS & STRATEGIC MINERALS)**  
**HELD ON 01.10.2018 AT GSI, WR, JAIPUR**

The **Fourteenth Meeting of the CGPB Committee Group-III** on Non Ferrous and Strategic Mineral (Base metal, Tin, Tungsten and Bauxite) was held at GSI Western Region Office, Jaipur on **01<sup>st</sup> October 2018** under the Chairmanship of **Shri Brij Kumar**, Additional Director General & HOD, Western Region, GSI and Convener of the Committee.

14.1.0	<b>Shri Debasish Bhattacharya</b> , Director, PSS, WR and Member Secretary, extended warm welcome to all the participants and highlighting on the importance of the meeting, emphasized on the initiative of achieving self-sufficiency in mineral resources. He asserted that the mineral exploration is slowly transforming into a capital intensive venture as the exploration for deep-seated resources is gaining momentum. He optimized that some meaningful outcome will definitely emerge from this meeting and stressed on the discussions concerning the difficulties and issues of the stakeholders.
14.1.1	<b>Shri Brij Kumar</b> , ADG & HOD, Western Region, GSI and Convener, welcomed one and all and according due weightage to the fact that CGPB being a cross-organizational platform, opined for public-private partnerships in exploration sector. He stressed on the sharing of scientific data amongst member organizations and stakeholders and desired for co-operation form one and all in this regard. He stated that the activities undertaken by Private organizations are to be kept in mind before framing the policies. He expressed concern over the under-achievement of the objectives of CGPB but extended words of hope concerning concrete conclusions from such meetings.
14.2.0	<b>Action Taken Report on the minutes of 13<sup>th</sup> meeting of CGPB Committee-III.</b>
14.2.1	<p>Para - 13.1.3: The committee recommended that the bulk samples of Phulan and Batikhhera REE Deposit of Barmer District, Rajasthan, is to be sent to suitable Metallurgical Laboratories, for assessment of extractability.</p> <p style="text-align: right;">(Action: AMD, for undertaking extractability study from samples of Phulan and Batikhhera Deposit)</p> <p><b>Shri Brundaban Mishra, Regional Director, AMD, WR, Jaipur, intimated that the bulk samples from Phulan and Batikhhera REE Deposits of Barmer District, Rajasthan, have been sent to Mineral Processing Unit of AMD, for assessment of extractability.</b></p> <p style="text-align: right;"><b>(Action: AMD)</b></p>
14.2.2	<p>Para - 13.2.1: The committee recommended that the LETTER OF CONSENT signed between GSI and AMD is to be modified after being duly reviewed. Dr. M.K.Khandelwal, Regional Director, AMD, WR, asserted that GSI can very well take the drill cores from non-radioactive portion but with Nb values less than the threshold value, for study, from Ambadongar area in Gujarat. He also agreed for handing over samples for undertaking petrological studies.</p> <p style="text-align: right;">(Action: GSI, AMD)</p> <p><b>Shri Brundaban Mishra, Regional Director, AMD, WR, Jaipur, informed that in case of intersection of Base Metals alongwith radioactive elements, in drill cores, the analytical data pertaining to the Base metallic components are being analyzed by AMD.</b></p>

	<p style="text-align: right;">(Action: AMD)</p> <p><b>The ADG and HOD, WR and Convener, advised that GSI officers from all regions, who are undertaking geoscientific activities in areas in the vicinity of which AMD is also carrying out their investigation, must interact with concerned AMD officers associated with the investigation.</b></p> <p style="text-align: right;">(Action: Concerned GSI personnel from all regions)</p>
14.2.3	<p>Para - 13.2.2: Shri G.R.Chouhan, Deputy Director, DGM, Chattisgarh, intimated that cross-checking has been carried out within the DGM laboratories only and have been satisfactory. However, on being advised for undertaking such cross-checks in outside DGM laboratories, Shri G.R.Chouhan, informed that decision will be taken after discussion with senior officials of DGM, Chattisgarh.</p> <p style="text-align: right;">(Action: DGM, Govt. of Chattisgarh)</p> <p><b>One being informed by Shri Deepak Kosre, Dy. Director, DGM, Govt. of Chattisgarh, regarding cross-checking of analytical results within the three labs of DGM, Chattisgarh, the Member Secretary advised for sending samples to the labs of organizations other than that of DG, Chattisgarh, for such cross-checks.</b></p> <p style="text-align: right;">(Action: DGM, Govt. of Chattisgarh)</p>
14.2.4	<p>Para - 13.2.3: Representative from IBM, Dr. P.K.Jain, Chief Mineral Economist, emphasized that the matter pertaining to revision of threshold values of minerals, is being duly taken care of and have been discussed recently during in-house meetings. He requested for suggestions with supplementary documents from all stakeholders, pertaining to revision of the threshold values of the specified minerals. Dr. P.R.Golani advised for sending Wolframite samples from Degana, Nagaur District, Rajasthan, to DMRL and NML, to ascertain whether samples with 600-800ppm W can be beneficiated.</p> <p style="text-align: right;">(Action: IBM, All Members)</p> <p><b>During the course of the discussion on the threshold values of specific minerals being published vide Gazette Notification No.: C-284/3/CMG/2017, dated 25th April, 2018, Dr. P.K. Jain, Chief Mineral Economist, IBM and Dr. V.G.K. Bhagavan Gumma, Regional Mining Geologist, IBM, apprised that the threshold values are meant for mining/industrial purpose and not for exploration, as it ventilates on the grade of the ore that can be thrown out as waste during mining operations and it is subject to periodic revision. While deliberating on the fixation of such threshold values for REE Minerals, the representatives from IBM asserted on accomplishing it once commercial production of REE Minerals commences in the country. Further, it was also apprised that IBM is responsible for such REE minerals which are below the threshold value as mentioned under schedule A of Atomic Mineral Concession Rules 2016. REE minerals above such threshold value and minerals specified in Part B of First Schedule of MMDR Act are</b></p>

	<b>under the purview of AMD.</b>
14.2.5	<p>Para - 13.2.4: Shri R.K.Sharma, Superintending Geologist, DMG, Rajasthan, highlighted that the issue pertaining to Baniwala-Ki-Dhani area is under consideration by State Government and will be solved in due course of time. However, in response to the assertion from Shri Sharma regarding mismatch of co-ordinates in Geological Reports of Khera area, Dr. L.S.Shekhawat, DDG (Retd.), GSI, intimated that the correct co-ordinates were marked on the toposheet in consultation with DMG personnel and in future also, such issues will be definitely looked into.</p> <p style="text-align: right;">(Action: DMG, Rajasthan)</p> <p><b>Shri Pradeep Agarwal, Additional Director, DMG, Rajasthan, informed that the issue pertaining to Khera Block has been resolved. However, while elaborating on the issue pertaining to Baniwala-Ki-Dhani blocks, intimated that the said block is falling within the Aravalli Hills and hence requested GSI to estimate the resources outside this block area. Replying to this, Shri K.C.Sahoo, Dy.DG and RMH-II, GSI, WR, offered for mutual discussions in this regard with DMG, Rajasthan.</b></p> <p style="text-align: right;"><b>(Action: GSI, WR; DMG, Rajasthan)</b></p>
14.2.6	<p>Para - 13.2.6: The house agreed to the proposal from Dr.J.S.Mehta, Director, CGPB Secretariat, DGCO, GSI, New Delhi, for taking up the issue of forest clearance in the main CGPB Meeting at New Delhi.</p> <p style="text-align: right;">(Action: CGPB Secretariat, DGCO, GSI, New Delhi)</p> <p><b>Ms. Tanvi Gupta, Geologist, CGPB Secretariat, GSI, New Delhi, reiterated that the issue of forest clearance was discussed during the 57th CGPB meeting and as per the advise of the Ministry of Mines, the state DGM/DMGs are to take up the forest issues with MoEFCC through their respective state PCCF.</b></p> <p style="text-align: right;"><b>(Action: DMGs/DGMs of State Governments)</b></p> <p><b>However, Shri Rakesh Kumar, Director, SU:Rajasthan, GSI, WR, requested for formulation of specific guidelines in this regard from the CGPB Secretariat, DGCO, GSI, New Delhi, for interacting with MoEFCC. Shri Debasish Bhattacharya, Director, PSS and Member Secretary, highlighted on the VAQ Workshop during the course of which AS (Mines) had intimated of taking up the said issue with MoEFCC and requested for follow-up in this regard from the side of CGPB Secretariat, DGCO, GSI, New Delhi.</b></p> <p style="text-align: right;"><b>(Action: CGPB Secretariat, DGCO, GSI, New Delhi)</b></p>
14.2.7	<p>Para - 13.2.9: Representative from Hindustan Zinc Limited, apprised the house that 20 PLs, pertaining to Greenfield Exploration, have been applied and the said issue will be placed in the</p>

	<p>upcoming SGPB Meetings.</p> <p style="text-align: right;">(Action: Hindustan Zinc Limited)</p> <p><b>While deliberating on the upcoming SGPB Meeting of Govt. of Rajasthan, Shri K.C.Sahoo, Dy. DG and RMH-II, GSI, WR, stressed that there should not be any overlap amongst GSI and DMG blocks/areas and items are to be formulated accordingly. Shri Pradeep Agarwal Addl. Director, DMG, Rajasthan, replied that the issue will be looked into.</b></p> <p style="text-align: right;"><b>(Action: GSI, WR; DMG, Rajasthan)</b></p>
14.2.8	<p>Para - 13.2.10: Dr. Tapan Pal, Director, PSS, GSI, NER, Shillong, informed that samples from both the in situ and residual soils have been sent for analysis and the results are yet to come. The house recommended that National Mission-II, GSI, Nagpur, will be undertaking preparation of the SOP for REE, in consultation with experts from AMD and other stakeholders who are engaged in such exploration. Shri H.N.Bawane, Deputy Director General, National Mission-II, Nagpur, asked for nominating suitable personnel, for this purpose, from all concerned stakeholders. Representatives from all concerned stakeholders, like AMD, IBM, MECL, assured for sending nomination for this purpose, at the earliest, preferably within a week. Member Secretary asked DDG, NM-II, to correspond with the stakeholders in this regard.</p> <p style="text-align: center;">(Action: NMH-II; GSI, NER, Shillong; All concerned organizations)</p> <p><b>The House recommended that the Director, PSS, GSI, WR and Member Secretary, CGPB Committee-III, will correspond with the Director, AMD, Hyderabad, for updation of the Base Document for REE which is pending for being vetted by AMD, and for formulation of a committee under his chairmanship for preparation of Standard Operating Procedure (SOP) for REE Exploration. The said committee will have representatives from GSI (from National Mission-II, GSI, Nagpur), AMD, IBM, Indian Rare Earths Limited (IREL), Kerala Rare Earths Limited (KREL) and Ramgad Mines and Minerals Limited (Baldota Group).</b></p> <p style="text-align: right;"><b>(Action: Member Secretary, CGPB Committee-III)</b></p>
14.2.9	<p>Para - 13.2.13: Shri Paradipta Tarafdar asked Dr. M.K.Khandelwal, Regional Director, AMD, WR, to correspond with Convener, CGPB Committee-X, regarding collaborative R &amp; D Projects with GSI and Universities.</p> <p style="text-align: right;">(Action:AMD)</p> <p><b>Shri Brundaban Mishra, Regional Director, AMD, WR, Jaipur, informed that such collaborations with Universities/Institutions are regularly being undertaken.</b></p>
14.2.10	<p>Para - 13.3.0: <b>Development of a comprehensive database of entire exploration carried out by various organizations:</b> Shri Pradipta Tarafdar, Director, PSS-P&amp;M, GSI, Kolkata, apprised the house that a suitable template is proposed to be developed and tender document for its development is in the final stage. Once it is developed and incorporated in the GSI Portal</p>

	<p>(www.gsi.gov.in), the stakeholders will be intimated and then they will be able to upload their exploration data vide this template.</p> <p style="text-align: right;">(Action: GSI)</p> <p><b>Shri Subrata Sarkar, Director, PSS-P&amp;M, GSI, Kolkata, remarked that a contract has been signed in this regard with PwHC and the preparation of the said template is under process.</b></p> <p style="text-align: right;">(Action: GSI)</p>
14.2.11	<p>Para - 13.3.0: <b>Digitization of Mineral exploration reports:</b> The Convener, CGPB Committee-III, advised all the stakeholders to get their mineral exploration reports digitized and uploaded in Public Domain, in the line of GSI, at the earliest, without which the very objective of data sharing will remain unachieved.</p> <p style="text-align: right;">(Action: All Stakeholders)</p> <p><b>The Member Secretary requested all stakeholders to get the maps of exploration reports digitized and GIS compliance and uploaded in public domain alongwith the text part, in line of GSI.</b></p> <p style="text-align: right;">(Action: All Stakeholders/Member organizations)</p> <p><b>The ADG and HOD, WR and Convener, requested Shri Sunil Vashishth, AGM, Hindustan Zinc Limited, to interact/discuss with the Mission-II officers of GSI, WR, to sort out the problems concerning Rajpura-Dariba area, when the issue of non-availability of proper GIS compliance map in GSI Portal was raised by Shri Vashishth.</b></p> <p style="text-align: right;">(Action: HZL; GSI, WR)</p>
14.2.12	<p>Para - 13.3.0: <b>Clearance of reservation proposals of exploration in time:</b> Dr. L.S.Shekhawat, Deputy Director General (Retd.), GSI, emphasized that as per Rule No. 74 of MCR, 1960 and Rule 4 of MMDR Act, 1957, it is mandatory for State Government to honour the request of GSI pertaining to area reservation and apprised the house this very issue was raised during the last SGPB Meeting also.</p> <p style="text-align: right;">(Action: DMGs/DGMs of State Governments)</p> <p><b>During the course of the discussion, Shri K.C.Sahoo, Dy.DG and RMH-II, GSI, WR raised the issue of overlap of area of a G4 stage investigation of GSI with RMML in Sarnu-Dandali, Barmer District, Rajasthan. Shri O.P.Somani, Vice-President (Exploration), RMML assured that only 03 sq.km of area in that part is lying with RMML. Hence, the issue raised by Shri Sahoo was resolved.</b></p>
14.2.13	<p>Para - 13.3.0: <b>Ventilation of Resource Data as per Data Dissemination Policy:</b> Shri Subrata Sarkar, Superintending Geologist, PSS-P&amp;M, GSI, Kolkata, raised the issue of presenting the Mineral Resource Data in the presentations/deliberations made by the stakeholders, as per Data</p>

	<p>Dissemination Policy. The Convener advised all the stakeholders to adhere to the said request in future.</p> <p style="text-align: right;">(Action: All stakeholders/member organizations)</p> <p><b>Shri Brij Kumar, ADG and HOD, WR and Convener, advised all stakeholders to ventilate the resource data pertaining to their organization periodically to the Member Secretary, CGPB Committee-III, and also as and when such data are presented in any meetings. Shri P.K.Jain, Chief Mineral Economist, IBM, requested to provide UNFC complianced resource data to IBM regularly on annual basis.</b></p> <p style="text-align: right;">(Action: All stakeholders/member organizations)</p>
14.2.14	<p>Para - 13.4.4: <b>Shri Asutosh Prasad</b>, Dy. Director (Geology), Department of Industries, Mines and Geology, Government of Jharkhand presented the progress of work carried out during the period. The Member Secretary advised for carrying out analysis for REE, Sc and Ga, mandatorily, for the Bauxite/Laterite samples.</p> <p style="text-align: right;">(Action: Dept. of Industries, Mines and Geology, Government of Jharkhand)</p> <p><b>Shri O.P.Somani, Vice-President (Exploration), RMML, desired for the exact content of the elements analyzed by Directorate of Geology, Jharkhand.</b></p> <p style="text-align: right;">(Action: Directorate of Geology, Jharkhand)</p>
14.3.0	<b>AGENDA ITEMS:</b>
14.3.1	<p><i>Development of a comprehensive database of entire exploration carried out by various organizations:</i></p> <p>The House recommended that all stakeholders should provide GSI Regions with pertinent/desired exploration data for updation of OGP areas.</p> <p style="text-align: right;">(Action: All stakeholders/member organizations)</p>
14.3.2	<p><i>Futuristic requirements and strategy of exploration for Non-ferrous and Strategic minerals in the Country:</i></p> <p>The Member Secretary, CGPB Committee-III, while deliberating on the said issue, emphasized on the ever increasing demand for REE. He highlighted that mineral exploration in present day, has turned into a capital intensive exercise.</p> <p><b>Shri S.K.Vashishth, AGM, HZL</b>, enlightened the house with his inputs on <i>Deeper and Faster Drilling</i>, for achieving the maximum. He cited the case of Sindhesar-Khurd area in connection with this, where drilling upto 1.5km vertical depth have been accomplished. He highlighted on the adoption of ore-body modelling with Geophysical and Geological inputs, for achieving success in exploration and mine expansion.</p> <p><b>Shri Brundaban Mishra, Regional Director, AMD, WR</b>, opined on the adaption of Geophysical Surveys namely IP, SP, Resisitivity and Heliborne survey, as exploration strategies.</p>



	<p>On the request placed by Shri K.C.Sahoo, for sharing of Heliborne Data with GSI, he requested for contacting Director, AMD, in this regard.</p> <p style="text-align: right;"><b>(Action: GSI, WR)</b></p>
14.3.3	<p><b><i>Application and scope for incorporation of State-of-the Art technology in exploration:</i></b></p> <p>While deliberating on the said agenda, Shri O.P.Somani, VP, RMML, shared his experiences at the SEG Seminar held at Colorado, USA, and extended his observations on the usage of 3D Seismic Models for modelling fault zones and application of hyperspectral imaging and state of the art softwares.</p> <p>On the issue of adoption of Mineral Systems approach in exploration, raised by the Member Secretary, the Regional Director, AMD, WR, intimated on its implementation for concealed deposits.</p> <p>While elaborating on this issue, the Dy.DG and RMH-II, GSI, WR, apprised on the two ambitious projects of GSI, namely <i>Uncover</i> and <i>Regional Mineral Targetting (RMT)</i>. He emphasized on the application of Deep Seismic Surveys (DSS) and Magnetotelluric Surveys (MT) in Project: Uncover, which will enable undertaking Mineral System Modelling beyond 2 km depth upto Moho. While deliberating on the RMT Projects undertaken by the Regions of GSI, he remarked on the integration of all sorts of pertinent data followed by its validation through field checks. Shri K.C.Sahoo requested for co-operation from all stakeholders in the execution of these two projects, as and when required.</p> <p style="text-align: right;"><b>(Action: All stakeholders/member organizations)</b></p> <p>Shri V. Singaraju, Dy. DG, NM-II, GSI, Nagpur, stressed on non-repetition of exploration activities and hence strongly opined for sharing of data amongst the stakeholders/member organizations, especially from AMD.</p> <p style="text-align: right;"><b>(Action: All stakeholders/member organizations)</b></p>
14.3.4	<p><b><i>Sharing of specialized labs amongst the member organizations:</i></b></p> <p>Responding to the deliberations made by Shri Rakesh Kumar, Director, SU: Rajasthan, GSI, WR underlining the importance of timely receipt of chemical analytical results for effective planning of exploration strategy and requesting for collaboration with other member organizations in institutionalized manner regarding sharing of labs, Dr. P.K.Jain, Chief Mineral Economist, IBM, apprised that the services of the Ore Dressing Labs of IBM at Ajmer, Bengaluru and Nagpur, can be explored for this purpose.</p> <p style="text-align: right;"><b>(Action: GSI; IBM)</b></p>

14.3.5	<p><b>Launching of items for Rare Metals in known mica belts of India. (Request from GSI, SU: Bihar, Patna):</b></p> <p>Shri S.K.Dutta, Director, SU:Bihar, GSI, Patna, suggested that all the mica belts of India should be investigated for Rare Metals especially Lithium. The view expressed was duly endorsed by Shri V.Singaraju, Dy.DG, NM-II, GSI, Nagpur.</p> <p style="text-align: center;"><b>(Action: All pertinent stakeholders/member organizations)</b></p>
14.3.6	<p><b>Revamping of CGPB Committees:</b></p> <p>The house consented to the suggestion from Shri Subrata Sarkar, Director, PSS-P&amp;M, GSI, Kolkata, for implementation of the proposal pending with MoM, regarding constitution of one cell under each committee that will be responsible for pursuing of the issues with stakeholders regularly.</p> <p style="text-align: center;"><b>(Action: Member Secretary, CGPB Committee-III)</b></p>
14.4.0	<p><b>Review of the work done during the period from September 2017 to latest updates</b></p>
14.4.1	<p><b>Shri S.K.Vashishth, AGM, Hindustan Zinc Limited and Shri Santosh Lohar, Principal Geologist, Hindustan Zinc Limited,</b> presented the review of work carried out during the period. It was so ventilated that presently HZL does not have any Greenfield operation and are working with Brownfield exploration activities only. Shri Vashishth also emphasized on the importance of Composite Licences (PL cum ML) for exploration based on Universal Grid System and also placed before the house the issue of timely grant of PLs/MLs. On the issue of auctioned blocks with extremely small area, Shri R.K.Sharma, Suptdg. Geologist, DMG, Rajasthan assured to look into the matter during the upcoming pre-bid conferences.</p>
14.4.2	<p><b>Shri Brundaban Mishra, Regional Director, AMD, WR,</b> presented the review of work carried out during the period in the states of Rajasthan and Gujarat. He highlighted on the exploration activities undertaken by AMD in Siwana Ring Complex (Bhatikhera and Phulan areas) and Ambadongar area of Gujarat. On the issue of local resistance from villagers in Ambadongar area, the ADG and HOD, GSI, WR and Convener, advised the Dy.DG, SU:Gujarat, GSI, Gandhinagar, to contact AMD, WR, for conducting <i>outreach programmes</i> in Ambadongar area.</p> <p style="text-align: center;"><b>(Action: GSI, SU:Gujarat; AMD, WR)</b></p>
14.4.3	<p><b>Shri O.P.Somani, Vice-President (Exploration), RMML,</b> presented the review of work carried out during the period. He stressed on the fact that no major activity has been carried out during the period under review as the ML application is lying pending with DMG, Rajasthan and requested DMG, Rajasthan to expedite the process. He highlighted on the usage of portable XRF as a means to narrow down samples for ICPMS analysis, with only samples with 0.5% REE or more being sent for ICPMS analysis.</p>
14.4.4	<p><b>Shri Deepak Kosre, Dy. Director, DGM, Chattisgarh,</b> presented on the two Bauxite investigation items undertaken during the sad period and also on the blocks proposed under NMET. The Convener advised for preparation of background information with clarity and due justifications, while formulating/submitting proposals. Shri Subrata Sarkar, Director, PSS-P&amp;M, CHQ, GSI, Kolkata, advised for consulting with the officers of GSI, CR, Raipur, with</p>

	regards to sampling for REE in Bauxite.  <b>(Action: DGM, Chattisgarh)</b>
14.4.5	<b>Shri Asutosh Prasad</b> , Dy. Director (Geology), Department of Industries, Mines and Geology, Government of Jharkhand presented on the progress of work carried out during the period pertaining to Bauxite investigation in Lodhapat, Hathizoda and Jobhipat areas of Jharkhand. Shri V.Singaraju, Dy.DG, NM-II, GSI, Nagpur advised for analysing the samples for Gallium. Shri Brij Kumar, ADG and HOD, GSI, WR and Convener, advised for strict compliance of MEMC Rules, 2015, during the exploration. <b>(Action: Dept. of Industries, Mines and Geology, Government of Jharkhand)</b>
14.4.6	<b>Shri Vijay Kumar B. Salve</b> , Dy. Director, DGM, Maharashtra, presented the progress of work carried out pertaining to the two Bauxite investigations being undertaken. Shri Subrata Sarkar, Director, PSS-P&M, GSI, Kolkata, commented that resource figures without grade is unacceptable and hence, resource figures must be accompanied by grade. <b>(Action: DGM, Maharashtra)</b>
14.4.7	<b>Shri R.K.Sharma, Superintending Geologist, DMG, Rajasthan</b> , presented the progress of work carried out during the period and highlighted on the projects of exploration for base metal and strategic minerals that have been undertaken during the said period. On the issue of Pahari area, Bharatpur District being raised by HZL, Shri Sharma asserted that DMG, Rajasthan will go ahead with the project in Pahari area.
14.4.8	<b>Dr. V.G.K. Bhagwan Gumma, Regional Mining Geologist, IBM, Nagpur</b> , presented the overview of work pertaining to the Ore Dressing labs in Ajmer, Bengaluru and Nagpur and also deliberated on the Resource/Reserve scenario pertaining to Bauxite, Copper, Lead, Zinc, Molybdenum, Tin, Nickel, Tungsten and Vanadium and also on the lease distribution status with regards to Bauxite, Copper, Lead, Zinc and Tin. The issue of leases, which are non-operational for a long time, was raised by Shri S.K. Vashishth, AGM, Hindustan Zinc Limited, responding to which Dr. Bhagavan Gumma, deliberated on the Chapter-VII of Minerals Concession Rules, 2016, dealing with lapse, surrender or termination of leases, and asserted that the responsibility for termination of such non-operational leases vests with state DMGs/DGMs. The Convener advised that if required the said issue can be taken up during main CGPB meeting <b>(Action: State DMGs/DGMs)</b>
14.4.9	The review of work for the period under review, pertaining to the six Regions of GSI, were presented as detailed below, through videoconferencing: <ul style="list-style-type: none"> <li>• <b>Shri K.C.Sahoo, Deputy Director General and RMH-II, GSI, WR, Jaipur</b>, presented the work undertaken in GSI, Western Region</li> <li>• <b>Shri Ajai Nirwan, Director, GSI, NR, Chandigarh</b>, presented the work undertaken in GSI, Northern Region</li> <li>• <b>Shri S.K.Dutta, Director, GSI, ER, Patna</b>, presented the work undertaken in GSI, Eastern Region.</li> <li>• <b>Shri J.Prabhakar, Director, GSI, SR, Chennai</b>, presented the work undertaken in GSI, Southern Region</li> <li>• <b>Shri L.M.S.Maura, Director, GSI, CR, Nagpur</b>, presented the work undertaken in GSI, Central Region</li> </ul>

	<ul style="list-style-type: none"> <li>• <b>Shri B.N.Mahanta, Superintending Geologist, GSI, NER, Shillong</b>, presented the work undertaken in GSI, North-Eastern Region</li> </ul>
14.5.0	<p><b>Concluding remarks by the Convener, CGPB Committee-III:</b></p> <p><b>Shri Brij Kumar</b>, ADG &amp; HOD, WR and Convener, CGPB Committee-III, extended his heartfelt thanks to all the participants for their participation and fruitful interactions and discussions and also for according constructive suggestions. He expressed hope that in the next meeting of CGPB Committee-III, the attendance will be much higher in comparison to this meeting.</p>
14.6.0	<p><b>Shri Amit Soni</b>, Superintending Geologist, Mission-II, GSI, WR presented the vote of thanks.</p>

## LIST OF THE PARTICIPANTS

14<sup>th</sup> Meeting of CGPB committee-III at GSI, WR, Jaipur.

S.No	Name	Designation & Organisation
<b>Officers of GSI who attended across the table</b>		
1	Shri Brij Kumar	ADG & HOD, WR and Convener, CGPB Committee-III
2	Shri Debasish Bhattacharya	Director, PSS, WR and Member Secretary, CGPB Committee-III
3	Shri R.S.Garkhal	Dy. DG, SU: Rajasthan, GSI, WR, Jaipur
4	Shri K.C.Sahoo	Dy.DG and RMH-II, GSI, WR, Jaipur
5	Shri Subrata Sarkar	Director, PSS-P&M, CHQ, Kolkata
6	Shri Rakesh Kumar	Director, TC, SU:Rajasthan, GSI, WR, Jaipur
7	Shri Amit Soni	Suptdg. Geologist, RMH-III, WR, GSI
8	Shri Praveen Sharma	Suptdg. Geologist, PSS, WR, GSI
9	Shri Bijoy Ashish Sen	Sr. Geologist. PSS, GSI, WR, Jaipur
10	Ms. Tanvi Gupta	Geologist, CGPB Secretariat, DGCO, New Delhi
<b>Officers of GSI who attended through videoconferencing</b>		
11	Shri N.V. Nitaware	Dy.DG, SU : Gujarat, GSI, WR, Gandhinagar
12	Shri V.Singaraju	Dy.DG, National Mission-II, GSI, Nagpur
13	Shri Sudhibrata Ray	Dy.DG and RMH-II, GSI, CR, Nagpur
14	Shri Alok Chitranshi	Director, SU:Gujarat, GSI, WR, Gandhinagar
15	Shri Prem Shankar Misra	Director, Mission-II, GSI, NR, Lucknow
16	Shri S.K.Dutta	Director, SU : Bihar, GSI, ER, Patna
17	Shri LMS Maura	Director, SU: MP, GSI, CR, Bhopal
18	Shri J. Prabhakar	Director, SU : TNP, GSI, SR, Chennai
19	Shri Ajai Nirwan	Director, SU:PH & HP, GSI, WR, Chandigarh
20	Dr. B.N.Mahanta	Suptdg. Geologist, GSI, NER, Shillong
<b>Representatives of Private Entrepreneurs</b>		
21	Shri O.P. Somani	Vice-President (Exploration), RMML, Baldota Group
22	Shri S.K.Vashishth	AGM, Geology, HZL
23	Shri Santosh Lohar	Principal Geologist, HZL
<b>Representatives from State Governments</b>		
24	Shri Pradeep Agarwal	Additional Director, DMG, Rajasthan
25	Shri Ashutosh Prasad	Deputy Director, Geology, Dept. Of Industries, Mines and Geology, Govt. of Jharkhand
26	Shri Vijay Kumar B. Salve	Dy. Director, DGM, Maharashtra
27	Shri Deepak Kosre	Dy. Director, DGM, Chattisgarh
28	Shri R.K.Sharma	Suptdg. Geologist, DMG, Rajasthan
29	Shri Rajeev Kashyap	Sr. Geologist, DMG, Rajasthan
<b>Representatives from other Central Government Agencies and PSUs</b>		
30	Shri Brundaban Mishra	Regional Director,AMD, DAE, Jaipur, WR.
31	Dr. P.K. Jain	Chief Mineral Economist, IBM, Nagpur
32	Shri Kanhaiya Lal Mundra	Scientific officer-H, AMD, WR, Jaipur
33	Dr. V.G.K. Bhagavan Gumma	Regional Mining Geologist, IBM, Nagpur.