

MINUTES OF 15TH MEETING OF CGPB COMMITTEE -V ON ENERGY MINERALS AND RESOURCES HELD ON 27TH AUGUST, 2019 AT BIRESHWAR LASKAR CONFERENCE ROOM, NATURAL ENERGY RESOURCES, MISSION-IIB, GSI, KOLKATA

15.1.0	The 15 th Meeting of the CGPB Committee-V on Energy Minerals and Resources was held on 27 th August, 2019 with Shri M. R. Asoka Kumar, Dy. Director General, Natural Energy Resources (NEnR), Mission IIB (M-IIB), GSI, Kolkata as the Convener. The list of participants is appended at Annexure-I.
15.1.1	Shri Gopal Chandra Mukhopadhyay, Member Secretary and Superintending Geologist, GSI welcomed Shri D. Mohan Raj, Additional Director General & Head, National Mission-II and all the participants including Members, Special Invitees and Guests for gracing the occasion. After self-introduction by the participants, Member Secretary requested the Convener, Committee V to give his opening remarks.
15.1.2	Shri M.R. Asoka Kumar, Convener, CGPB Committee-V & Deputy Director General, NEnR, M-IIB, GSI, Kolkata extended a warm welcome to Shri D. Mohan Raj, Additional Director General & Head, National Mission-II,GSI; Deputy Directors General, National Mission-II; Director (Tech), MoM; representatives of different Regions & State Units of GSI attending the meeting through Video conferencing, Director, CGPB Secretariat, DGCO, New Delhi; Director & Member Secretary, NMET, MoM; Director, PSS-P&M; representatives from CMPDI, MECL, NLCIL, SCCL, CIMFR, DGH, ISM, ISRO, State DGMs and Tata Steel. In his address, the convener expressed his desire that this meeting would also give emphasis on the discussions on the issue of making CBM leasehold areas available for coal exploration, expediting the coal analysis by CIMFR among other issues.
15.1.3	Shri D. Mohan Raj, Additional Director General & Head, National Mission-II in his address once again welcomed all the stakeholders across the country engaged in carrying out exploration in energy sector and all the colleagues from GSI including Director (Tech), MOM. He also stated that the Committee would listen to stakeholders and would try to address all the issues in the meeting and if anything is pending would try to resolve those at a later date.
15.1.4	Shri. S. Sengupta, Director, DGCO opined that it was very much satisfying to see a large participation of stakeholders and hoped that the session would be very much interesting and fruitful and the issues would be resolved by mutual discussion among the members and relevant unresolved issues should be identified for discussion in the 59 th CGPB meeting.
15.1.5	Shri A.K. Mohanty, GM (Exploration) CMPDI expressed thanks to the CGPB Committee-V for finalizing the ISP after attending the comments by MoC. Regarding the promotional activities, he told that with the help of MECL and NLCIL the targets are met. Dr. R.P.

	Singh, Manager (Geology), CMPDI stressed the need for release of the area for systematic coal exploration, currently under CBM leasehold, which has hampered the regional exploration and also restricted the National Inventory as well as resources. He requested the CGPB Committee-V to come out with concrete resolution on the problem in the national interest.
15.1.6	Shri B.P. Rathuri, GM (Exploration), MECL stated that MECL is carrying out promotional exploration work in co-ordination with CMPDI and Committee-V and MECL has completed 71877m drilling during 2018-19 and 29271m drilling during 2019-20 and would be completing one lakh m target given for this year.
15.1.7	Shri S. Kamaraj, Dy.GM, NLCIL stated that the CGPB Committee-V is functioning with the most important role of governing the whole coal and lignite exploration and guiding the stakeholders to take timely decisions and guiding to sort out the issues between the stakeholders and also to serve as a platform for sharing the information. He also thanked GSI especially Dr. Subimal Mukherjee, Director (Retd.), GSI and Dr. Manas Roychowdhury, Director, M-IIB, GSI, for their valuable suggestions and for scrutinizing the Lignite Atlas of India which was released during the 58 th Meeting of the CGPB. He also thanked CMPDI and MECL for the corrections and improvements suggested for the Lignite Atlas of India. He also expressed hope for fruitful discussions.
15.1.8	Shri. B. Srinivasa Rao, Chief (Exploration), SCCL stated that SCCL is actively involved in coal exploration activities and is drilling more than 1 lakh m per annum using 25 rigs. He pointed out that the main hindrances are to obtain forest clearances and requested the committee to work out on this issue with MOEF. He also mentioned that SCCL is eager to participate in the proposed 20 kW geothermal power generation project at Manuguru Geothermal field in Godavari Valley Coalfield, Telangana.
15.1.9	Dr. Saurav Rukhaiyar, Sr. Scientist, CSIR-CIMFR, regarding pendency of coal analysis, informed the house that CIMFR has enhanced the capacity of its labs to meet the timeline and requested to provide the list of pending samples to the Director, CIMFR as well as to him so that the issue can be resolved.
15.2.0	Follow up of the action taken report on the decision of the 14th Meeting of the CGPB Committee -V
15.2.1	Under para 14.2.1 on the utilization of funds by DGM, Assam for procurement of machineries, though no representative was present from DGM, Assam, in the ATR submitted, it was stated that DGM, Assam has already procured the Diamond Core Drill Rig, pressure pump and derrick funded by MoC in the month of November, 2018. Action completed
15.2.2	During discussion on para 14.2.2 on the issue of 2D/3D seismic survey in Deccan Trap

	<p>covered terrain of Wardha Valley Coalfield, Maharashtra and submission of report of 3D seismic survey in Belpahar Area of Ib River Coalfield by NGRI, CMPDI mentioned in the ATR that the revised proposal for 2D/3D seismic survey in Deccan Trap covered areas, as per MoC approved rates, has not been submitted by NGRI till date. The final report on 3D seismic survey in Belpahar Area of Ib River Coalfield, carried out by NGRI under promotional fund is still pending and NGRI has requested for assistance from CMPDI for the finalization of report. CMPDI has identified two geologists who would be deputed to assist NGRI for the preparation of report.</p> <p>No ATR was received from NGRI nor any representative from NGRI was present in the meeting.</p> <p>After discussions on the point of seismic survey in Deccan Trap, it was decided that NGRI may again be requested to convey their decision on the same.</p> <p style="text-align: right;">(Action: CMPDI, Member Secretary, NGRI)</p>
<p>15.2.3</p>	<p>On the issue of approval by the Ministry of Coal (MoC) of modified “Indian Standard Procedure for Coal Reserve Estimation” (ISP), prepared by the Task Force of CGPB Committee-V and forwarded to the Secretary, Ministry of Coal for vetting on 08.03.2018, it was informed that MoC offered a few comments/suggestions to make the document more effective and suited to the recent developments in the field of coal exploration.</p> <p>Member Secretary informed that, in order to address the comments/ suggestions offered by MoC on examination of ISP 2017, a meeting of the Core Group Members of CGPB Committee-V was held on 21st May, 2019 at the office of Natural Energy Resources, Mission IIB, GSI, Salt Lake, Kolkata. The comments / suggestions of MoC were discussed at length and the ISP 2017 was further modified. The modified version of ISP 2017, along with the minutes of the meeting, had been submitted by GSI to the Ministry of Mines (MoM), Government of India, on 20.08.2019 for onward transmission to MoC for its final approval and acceptance.</p> <p>Action Completed</p> <p>However, representative from DMG, Jharkhand referred about Minerals (Evidence of Mineral Contents) Rules, 2015 and raised the issue of importance of framing similar rules applicable for coal, since the above mentioned rules are not applicable for energy minerals. After a prolonged discussion, it was decided that DMG, Jharkhand may submit a concept note to the Member Secretary which, with the concurrence of the members, may be submitted to the main CGPB meeting for further necessary action.</p> <p style="text-align: right;">(Action: DMG Jharkhand, Member Secretary)</p>
<p>15.2.4</p>	<p>On para 14.2.5, regarding making available the CBM leasehold areas for coal exploration, it was decided that as DGH representatives are available and it has been included in the new</p>

	agenda items as well, the same would be taken up during discussions on agenda items.
15.2.5	On para 14.2.8, regarding the proposal of taking up promotional exploration in Mand-Raigarh Coalfield within CBM leasehold areas, it was decided the point would be discussed during discussion on agenda items.
15.2.6	<p>During discussion on para 14.2.11, regarding inordinate delay in receiving coal analysis data from CIMFR, Dr. Saurav Rukhaiyar, Sr. Scientist, CSIR-CIMFR brought to the notice of the house that CIMFR has enhanced its capability including increasing the manpower. If any sample is pending from GSI with CIMFR for more than three months, it may be intimated to the Director and to Dr. Rukhaiyar so that action can be taken to complete the analysis within one month. It was also decided that while sending communications to different CIMFR labs, a copy of the same may be mailed to the Director, CIMFR as well as to Dr. Rukhaiyar for keeping track of the status of analysis. CMPDI informed that they are sending about 50000m of coal core samples per year to CIMFR labs. Till date analysis is pending for about 25000m. CMPDI is regularly monitoring the status, but not getting the response from the CIMFR labs. Even results are pending for more than one year. GSI representatives also informed that the same is the case for the samples submitted by GSI also. It was suggested by GSI that while sending the samples of the last borehole of a particular block, request may be made to CIMFR to complete the pending analysis of other boreholes of the same block so that the results can be provided within three months facilitating the timely circulation of reports. The possibility of alternate arrangements for the analysis from other agencies like NML, Jamshedpur and CSIR-IMMT, Bhubaneswar, was discussed at length and considering that CIMFR has increased its capabilities about five fold, Shri D. Mohan Raj, Additional Director General & Head, National Mission-II suggested that if CIMFR fails to give the analytical results within three months of sample submission, then the other alternatives would be looked for.</p> <p style="text-align: right;">(Action: CIMFR, GSI, CMPDI)</p>
15.2.7	<p>During discussion on para 14.2.12, regarding the proposal of DMG, Rajasthan, seeking geophysical data around northwestern Rajasthan from NLC and MECL and data on geophysical surveys carried out by GSI in seventies and eighties of last century in Rajasthan, DMG, Rajasthan informed that they would collect data from GSI, but they are yet to get the data from NLCIL. It was decided, as proposed by the NLCIL, MECL would provide the data directly to DGM, Rajasthan.</p> <p style="text-align: right;">(Action: MECL, DMG, Rajasthan)</p>
15.2.8	With reference to para 14.2.15 on the release of Lignite Atlas of India NLCIL informed that Lignite Atlas of India has been finalized and released by NLCIL during the 58th CGPB Committee Meeting held at New Delhi on 15th February, 2019. A copy of the Lignite Atlas

	<p>of India was shown to the house by Shri S. Kamaraj, Dy.GM, NLCIL.</p> <p>Action Completed</p>
15.2.9	<p>With reference to para 14.5.4 on ratification of programme of 2.00 lakh meter of Promotional (regional) Exploration in coal & lignite for financial year 2018-19, CMPDI informed that the Promotional (regional) Exploration in coal & lignite for financial year 2018-19 was executed as per ratification of CGPB Com-V and availability of fund by MoC. CMPDI added that with the co-operation of the CGPB Committee-V and active support from MECL and DGMs they could drill 1.39 lakh metres in 18 coal and 6 lignite blocks. Last year about 2.15 billion tonnes of new resources was added from promotional exploration for coal and the data has been provided to GSI for adding to the National Inventory.</p> <p>Action completed</p>
15.2.10	<p>During discussions on para 14.5.5 on updation of composite map for identification of prognosticated potential area, regionally explored/detail explored area and balance area to be explored, GSI informed that they have already provided to CMPDI all the coalfield maps of Eastern Region as well as the explored blocks of GSI and enquired about the status of progress of work. CMPDI informed that they have already completed the updating of detailed and promotional area to be explored for four coalfields, and for the rest of the coalfields, it is under process and would be sending their geologists to GSI for finalizing the updated status map shortly. Representative from MECL requested to provide them a copy of the updated composite map.</p> <p style="text-align: right;">(Action: GSI, CMPDI)</p>
15.2.11	<p>On the point under para 14.5.6 on regional exploration in Charbhata Block, Mand-Raigarh Coalfield, Chhattisgarh, MECL informed that exploration work in Charbhata Block (Scout Drilling) is over and Geological Report has been submitted in May, 2019. Further MECL proposed Charbhata East Block for regional exploration over an area of 54.00 sq.km. involving 83,705m in 77 boreholes. Subsequently, it was approved on 07.01.2019 and exploration work is in progress.</p> <p>Action completed</p>
15.2.12	<p>On the point under para 14.5.7 on proposal by MECL for outsourcing of exploration work in Lignite Blocks, CMPDIL informed that it has forwarded NLCIL request to MoC for the outsourcing of regional Lignite Exploration under Promotional Exploration scheme of MoC. It needs policy approval from MoC. In the meantime, NLCIL should also follow it up with MoC. MECL informed that they would submit the required data as asked by NLCIL.</p> <p style="text-align: right;">(Action: NLCIL, MECL)</p>
15.2.13	<p>With reference to para 14.5.8 on proposal for regional exploration in Barra Block (Western</p>

	<p>Extension of West of Chhal Block, Mand-Raigarh Coalfields, District-Raigarh, CG, MECL informed that MECL proposed Barra Block for regional exploration over an area of 24 sq.km involving 38,665 m in 34 boreholes. Subsequently, it was approved on 06.11.2018 and exploration work is in progress.</p> <p>Action completed</p>
15.2.14	<p>With reference to para 14.5.9 on proposal for regional exploration in South of Prajapara Deep Block (Area between Block West of Hingiri of GSI and Block area between Hingiri-Meenakshi of MECL), IB Valley Coalfields, District-Sundargarh, Odisha and proposal for regional exploration in Thanatola Block and Murkil Block (South of Sindhawal Block) Singrauli Coalfields, Madhya Pradesh, MECL informed that exploration work is under progress in the area west of Hingiri and Hingiri-Meenakshi Block and Thanatola Block. Member Secretary informed that approval has already been accorded for South of Prajapara Deep Block for regional exploration.</p> <p>Action completed</p>
15.2.15	<p>With reference to para 14.5.10 on providing Geological Reports of Geological Survey of India (GSI) to Integrated Lignite Resource Information System (ILRIS) project), GSI informed that soft copies of the reports have been handed over to NLCIL.</p> <p>Action completed</p>
15.2.16	<p>With reference to para 14.5.12 on the request of DMG, Rajasthan to NLCIL to provide the lignite block map of Barmer and Jaisalmer district as well as maps of lignite blocks overlapped with petroleum blocks in Barmer district, DGM: Rajasthan informed that information is still pending. NLCIL informed that there is an overlap with DGH areas and NLCIL would send block boundary to DGH for checking.</p> <p style="text-align: right;">(Action: NLCIL, DMG, Rajasthan)</p>
15.2.17	<p>With reference to the para 14.5.13, approval on regional exploration in two coal blocks (Mongchen-Dibuia and Tuli-Yimchenkimong) to DGM, Nagaland and request for the submission of detailed proposal to CMPDI, with a copy to the Member Secretary for scrutiny and final approval, no ATR was received from DGM, Nagaland. No representative of DGM, Nagaland was present in the meeting. CMPDI appreciated DGM, Nagaland and told that from 2011 onwards, they are doing very commendable job in coal exploration and they have completed two blocks and have submitted reports and exploration in third block is going on. CMPDI is helping DGM, Nagaland with continuous financing from MoC to acquire more drilling rigs and infrastructure development.</p> <p style="text-align: right;">(Action: DGM, Nagaland)</p>
15.2.18	<p>With reference to para 14.5.14 on the approval in principle of the CGPB Committee-V for the promotional coal exploration in three blocks (Khliehriat-Sutnga, Unithengkut and</p>

	<p>Damal Asim-Dadengiri) in Meghalaya to DMR, Meghalaya and requesting them to submit the detailed proposal to CMPDI, with a copy to the Member Secretary for scrutiny and final approval, no ATR was received from DMR, Meghalaya. No representative was also present in the meeting. CMPDI informed that they have extended all support to DMR and in March, 2019 there was a meeting with MOC and all exploration agencies of northeastern region. CMPDI had requested to outsource the work and told that all the technical help and funding would be provided by CMPDI. DMR should outsource the work.</p> <p style="text-align: right;">(Action: Directorate of Mineral Resource, Meghalaya)</p>
15.3.0	<p>Confirmation of the minutes of the 14th Meeting of the CGPB Committee-V on Energy Minerals & Resources: The house approved the minutes of the 14th Meeting of the CGPB Committee-V.</p>
15.4.0	<p>Discussion on Agenda Items</p> <p>Member Secretary initiated discussion on Agenda items by requesting all the Members to give their views.</p>
Agenda 1	<p>a). GSI, Central Region, RHQ is carrying out coal exploration in coalfields situated in Madhya Pradesh, Maharashtra and Chhattisgarh. The entire known coal bearing areas in all coalfields in these two states within 900m depth have been explored regionally by GSI and other exploration agencies barring the CBM leasehold areas. At present, there is no area left outside CBM leasehold areas to take up new exploration block. Immediate action needs to be taken to make the CBM leasehold areas available for coal exploration by national agencies.</p> <p style="text-align: right;">(Suggestion: GSI, Central Region, RHQ)</p> <p>b). Release of Coal Bed Methane Block area in Talcher Coalfield: Erstwhile Coal Wing, GSI was associated with coal exploration in Odisha since 1970s and carried out investigation of a number of blocks in Talcher and Ib basins. Potential exploration area for coal is gradually diminishing in Talcher Coalfield. Khandanal Block, Talcher Coalfield (G2 stage) will continue during FS 2019-20 and after the completion of this block one more block (Total area:8 sq. km) for 2-year duration will be taken in G2 stage in FS 2021-22. It is pertinent to mention here, that a lot of coal potential area is reserved as leasehold area for CBM, which now is not under any exploration activity. If part of the CBM area is released for exploration to GSI, the exploration will continue in future in this area and add the resources in national inventory.</p> <p style="text-align: right;">(Suggestion by GSI, State Unit: Odisha)</p> <p>c). Expediting relinquishment of non-potential CBM blocks by MoP &NG for enabling promotional exploration by MECL</p> <p style="text-align: right;">(Suggestion by MECL)</p>

	d). Para 15.2.4 and 15.2.5																																																																																																								
15.4.1	<p>Members expressed that as on today exploration agencies are left with almost no potential area for regional exploration and requested for permitting coal exploration in areas awarded for CBM exploration. Representative from DGH suggested to submit a proposal to them, detailing the specific blocks/areas where coal exploration is to be carried out, for obtaining approval from MoP& NG. DDG, PSS: P&M, GSI suggested to submit the proposal by GSI to CHQ for onward transmission to MoM for forwarding to DGH/MoP& NG. DGH requested to mention in the proposal that the CBM related data generated would be shared with DGH. GSI informed that all its reports are uploaded in its OCBIS portal which can be viewed by everybody. CMPDI informed that they would be writing to MoC regarding the sharing of data. It was decided that the committee would finalise the proposal for regional/ promotional coal exploration by collecting the data from CMPDI and on behalf of the Committee-V, Member Secretary would submit the proposal to PSS; P&M, GSI for onward transmission to MoP&NG and DGH through MoM. CMPDI raised the query regarding the detailed exploration in CBM leasehold areas also. It was suggested that CMPDI may submit the proposal to DGH/MoP& NG through MOC.</p> <p style="text-align: right;">(Action: Member Secretary, CMPDI)</p>																																																																																																								
Agenda 2	<p>Ratification of programme of 1.53 lakh meter of Promotional (Regional) Exploration in coal & Lignite under Central Sector Scheme (CSS) of MoC for financial year 2019-20 submitted vide letter no CMPDI/DG/532 A)/505 dt 23.07.2019.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="8" style="text-align: center;">Proposed Promotional Exploration Programme in Coal & Lignite from: 2019-20 BE</th> </tr> <tr> <th style="text-align: center;">Sl. No.</th> <th style="text-align: center;">Agency</th> <th style="text-align: center;">State</th> <th style="text-align: center;">Coalfield</th> <th style="text-align: center;">Block</th> <th style="text-align: center;">Drilling</th> <th style="text-align: center;">Exploration Status</th> <th style="text-align: center;">Estimated Drilling cost for 2019-20 (Rs. Cr)</th> </tr> </thead> <tbody> <tr> <td colspan="8">I. 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11	MECL	Chhattisgarh	Hasdeo Arand	Kedma	7500	New block	
12	MECL	Chhattisgarh	Hasdeo Arand	Pendarkhi Eastern Extension	3000	New block	
13	MECL	Odisha	Ib Valley	South of Prajapara Dip side	10000	New block	
14	MECL	Odisha	Ib Valley	Area between Himgir & Meenakshi	2000	Continuing from previous year	
15	MECL	MP	Singrauli	Thanatola	5000	New block	
16	MECL	Chhattisgarh	Sonhat	Pardol	2500	New block	
17	MECL	Chhattisgarh	Sonhat	Borar	2500	New block	
18	MECL	Chhattisgarh	Sonhat	Kewrabahra	4000	New block	
19	MECL	Chhattisgarh	Mand Raigarh	Taulipalli	500	Continuing from previous year	
20	MECL	Chhattisgarh	Mand Raigarh	West of Chhal	500	Continuing from previous year	
21	MECL	Chhattisgarh	Mand Raigarh	Rajadahi	500	Continuing from previous year	
22	MECL	Chhattisgarh	Mand Raigarh	Kotmer	500	Continuing from previous year	
23	MECL	MP	Singrauli	Barhimahauli	500	Continuing from previous year	
24	MECL	Andhra Pradesh	Godavari Valley	Sitanagaram	1000	New block	
Total MECL- Promotional Non CIL Blocks					100000		70.00
1	CMPDI	Jharkhand	North Karanpura	North of Piparwar (including 2D Seismic)	2000	Continuing from previous year	8.00
2	CMPDI	Maharashtra	Wardha Valley	Astona-Wadki-Kothurla-Mangli	2000	New block	
3	CMPDI	MP	Sohagpur	Nigwani Bakeli (including 2 D seismic)	2000	New block	
4	CMPDI	MP	Singrauli	Hatta Dudhmania	2000	Continuing from previous year	
5	CMPDI	Odisha	Talcher	Dipside of Sakhigopal A	2000	Continuing from previous year	
6	CMPDI	Odisha	Ib Valley	Tangradih (including 2D seismic)	2500	New block	
7	CMPDI		In Different Coalfields	CBM Studies- 8 boreholes	8 bore-holes		15.00
8	CMPDI		In Different Coalfields	Shale Gas Studies- 5 boreholes	5 bore-holes		
9	CMPDI		In Different Coalfields	2 D Seismic Survey	150 LKM		
10	CMPDI		In Different Coalfields	Electrical resistivity	50 LKM		
Total CMPDI-Promotional Non CIL Blocks					12500		23.00
Total Drilling in Promotional Non CIL Blocks (Ex-NE)					112500		93.00
II Coal NE							
1	DGM Nagaland	Nagaland	Mokokchung District	1.Changki-B	500	Continuing from previous year	
2	DGM, Nagaland	Nagaland	Mokokchung District	2. Mogchen Dubia	500	New Block	

3	DGM, Nagaland	Nagaland	Mokokchung District	3.Tuli-Yimchenkimong	500	New Block	
4	DGM Assam	Assam	Karbi Anglong District	4.Klurdung, Sarpo Teron Gaon & Lal Dera Nepali Basti	500	Continuing from previous year	
5	DGM Mizoram /CMPDI	Mizoram	Mizoram	5. Lusaicheera (Thinglum) / West of Rotlang	500	New block	
6	DGM Meghalaya	Meghalaya	Meghalaya	6.Umthengkutkut / Damal Asim Dadangiri/Kahaliehriat-Sutanga	2000	New block	
7	CMPDI	Assam	Singrimari	7.Phatapara	1000	New block	
Total Drilling in Promotional Non CIL Blocks (NE)					5500		10.00
Total Drilling for Coal in Promotional Non CIL Blocks (Ex-NE & NE)					118000		103.00
III. Lignite							
	Agency	State	Lignite field	Block	Drilling	Other Investigations/Remarks	Rs in Cr
1	NLCIL/MECL	Rajasthan	Nagaur	1.Matasukh Lunsera	500	Continuing from previous year	
2	NLCIL/MECL	Rajasthan	Nagaur	2. Kuchera Lunsera	500	Continuing from previous year	
3	NLCIL/MECL	Rajasthan	Nagaur	3.East of Gangardih-Ucharda	5000	Continuing from previous year	
4	NLCIL/MECL	Rajasthan	Nagaur	4.Basini	5000	New block	
5	NLCIL/MECL	Rajasthan	Nagaur	5. Kawas	4000	New block	
6	NLCIL/MECL	Rajasthan	Nagaur	6. Kheduli	500	Continuing from previous year	
7	NLCIL/MECL	Tamil Nadu	Neyveli	7.Sikkal	5500	New block	
8	NLCIL/MECL	Tamil Nadu	Neyveli	8.South of Sikkal	5000	New block	
9	NLCIL/MECL	AP	KG Basin	9. KG Basin	4000	New block	
10	NLCIL (outsourcing)	Tamil Nadu	Ramnadh Basin	10.Pandiyur	5000	New block (New Block subject to approval from MoC for outsourcing)	
Total Drilling by NLCIL/MECL in Promotional Non-NLCIL Lignite Block					35000		17.00
Grand Total of Drilling Promotional (Coal + Lignite) by All Agencies					153000		120.00
(Suggestion by CMPDI)							
15.4.2	The Committee ratified the programmes as proposed by CMPDI. (Action: CMPDI) During the discussions, representative from DGM, Mizoram raised the issue of drilling target of 500m in the proposal and were willing to enhance the target. CMPDI informed that the drilling meterage can be modified later, it is only for approval purpose of blocks.						

	<p>They also raised the issue of tendering, where CMPDI informed that CMPDI can only assist, but DGM, Mizoram has to do the tendering. CMPDI agreed to share the NIT, etc. and mentioned that DGM can visit CMPDI office for further assistance.</p> <p style="text-align: right;">(Action: DGM, Mizoram)</p>
Agenda 3	<p>Additional approval for conducting 2D Seismic, Resistivity imaging and magnetic surveys for promotional exploration of coal in Nigwani Bakeli A Block, Sohagpur Coalfield, District- Umaria & Shahdol, M.P. submitted vide letter no. CMPDI/DG/532 A)/549 dt 07.08.2019.</p> <p style="text-align: right;">(Suggestion by CMPDI)</p>
15.4.3	<p>The committee approved the proposal.</p> <p style="text-align: right;">Action: CMPDI)</p>
Agenda 4	<p>Additional meterage for regional exploration in West of Chhal Block, Mand-Raigarh Coalfields, District Raigarh, CG:</p> <p>CGPB approved West of Chhal Block for regional exploration vide letter No. NEnR/(M-IIB)/Com-V/2018/30 dated 02-07-2018. MECL is carrying out regional exploration in West of Chhal Block. During its exploration, potential coal horizon has been noticed during drilling. So, MECL proposes additional meterage of 11420m in West of Chhal Block for regional exploration to establish the continuity of coal seam.</p> <p style="text-align: right;">(Suggestion by MECL)</p>
15.4.4	<p>The committee approved the proposal of additional meterage of 11420m by MECL.</p> <p style="text-align: right;">(Action: MECL)</p>
Agenda 5	<p>Closure of exploration work in Mandaria block, Sohagpur Coalfields, District-Anuppur, MP.</p> <p style="text-align: right;">(Suggestion by MECL)</p>
15.4.5	<p>Representative from MECL informed that the area is falling in the buffer zone of the sanctuary. Out of the planned 24400m, only 7300m of drilling has been completed, but Forest Department is not allowing for any further work. Only a few thin coal seams have been intersected. It was also informed by CMPDI that the block is not potential and also recommend for the closure. The committee approved the closure of exploration work in Mandaria block.</p> <p style="text-align: right;">(Action: MECL)</p>
Agenda 6	<p>Premature closure of boreholes in Blocks being explored by MECL</p> <p style="text-align: right;">(Suggestion by MECL)</p>

	Block	Borehole No.	Drilled Meterage	Status												
	Charbhata East	MCEP-7	1079.25m	Approval from CGPB is awaited												
	Mandaria	MJM-1	604m	Approval from CGPB is awaited												
		MJM-2	632m													
		MJM-3	485m													
	West of Chhal	MWC-7	1167m	Recommendation of CMPDI is awaited												
15.4.6	The committee approved the premature closure of the boreholes of the above 5 boreholes. (Action: MECL)															
Agenda 7	It is requested to take up promotional exploration by MECL in below mentioned blocks identified for the year 2019-2020 in GVCF as proposed vide letter No. CRP/EXP/B-47/124 dated 12-02-2019.															
	<table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Block Name</th> <th>Area</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Mandaram Dip side Block</td> <td>11.98 sq.km</td> </tr> <tr> <td>2</td> <td>Bellampalli Dip side Block</td> <td>9.64 sq.km</td> </tr> <tr> <td>3</td> <td>ShanthiKhani Dip side Block</td> <td>8.26 sq.km</td> </tr> </tbody> </table>			Sl. No.	Block Name	Area	1	Mandaram Dip side Block	11.98 sq.km	2	Bellampalli Dip side Block	9.64 sq.km	3	ShanthiKhani Dip side Block	8.26 sq.km	
Sl. No.	Block Name	Area														
1	Mandaram Dip side Block	11.98 sq.km														
2	Bellampalli Dip side Block	9.64 sq.km														
3	ShanthiKhani Dip side Block	8.26 sq.km														
	(Suggestion by SCCL)															
15.4.7	It was approved by the committee in principle and requested SCCL to put up the proposal to MECL who in turn would submit the proposal to Member Secretary through CMPDI. MECL has agreed to take up the exploration. (Action: SCCL, MECL, CMPDI, Member Secretary)															
Agenda 8	Discussion on ‘Guidelines for stipulating the norms for survey and investigation (prospecting of ores) on forest land reg. dated 24 th December, 2018. (Suggestion by SCCL)															
15.4.8	The committee felt that it does not come under the ambit of CGPB Committee V. Action completed															
Agenda 9	NLCIL provided only map of lignite exploration of Bikaner & Nagaur Distt by various agencies. The map of Barmer, Jaisalmer, Jalore and Pali districts has not been provided by NLCIL to DMG, Rajasthan (DMGR). The other information such as summary of lignite block, borehole location plan with Lat/Long, borehole logs etc of each block has not been provided. The DMGR required this information to complete his own data base and accordingly make plan for further lignite exploration strategy. The maps are required in autocad(.dwg)/ JPEG image. (Suggestion by DMG, Rajasthan)															

15.4.9	<p>The representative of DMG, Rajasthan informed that the matter was discussed with NLCIL who has agreed to send the maps/data. However, NLCIL insisted that DMG, Rajasthan should send a specific request to NLCIL along with the status map, boundary coordinates and salient details of lignite blocks explored by them.</p> <p style="text-align: right;">(Action: NLCIL/DMG, Rajasthan)</p>
Agenda 10	<p>The DGM, Assam will carry out exploration of Coal in following areas in the field-season 2019-20.</p> <ol style="list-style-type: none"> 1) Exploration of Coal with drilling in Klur dung area, near Bokolia town, Karbi-Anglong District, Assam, Toposheet No. 83 G/1. 2) Geological investigation of Coal deposit with drilling at Lal Pahar (Long 95° 50' 55'' East and Lat 27° 18' 45'' North) & Paharpur (Long 95° 52' 00'' East & Lat 27° 19' 45'' North) near Lekhapani, Tinsukia District, Assam. Toposheet No. 83 M/15. 3) Geological investigation of Coal deposit with drilling at Kuli Gaon, Hidipi, Karbi Anglong District, Assam. Toposheet No. 83 F/12. 4) The Government of Assam is going to sign the bi-partite agreement with MECL to explore the Coal blocks namely in Jagun, Lekhapani area of Tinsukia district. <p style="text-align: right;">(Suggestion by DMG, Assam)</p>
15.4.10	<p>No representative of DMG, Assam was present in the meeting. The Committee suggested that DMG, Assam may submit the detailed proposal to Committee-V through CMPDI for promotional exploration.</p> <p style="text-align: right;">(Action: DMG, Assam)</p>
Agenda 11	<ol style="list-style-type: none"> 1. Necessary guidance /instruction may be provided to DGM, Nagaland for finding private parties for drilling works while Geologists of DGM would carry out all geological works including report writing. 2. Shri. T. Mar Imchen, Joint Director & HOD, DGM, Nagaland may be allowed to perform as Principal Investigator to supervise, administer, maintain all machineries & equipments including maintenance of financial matters till the pending approved Coal blocks (Regional Coal Exploration in Mongchen-Dibuia coal block, Yimjenkimong-Molungyimsen coal block and detailed investigation in Changki Block-A) are completed, even after his retirement from state Government service in March, 2020 for which Government of Nagaland may be informed of the necessity. <p style="text-align: right;">(Suggestion by DMG, Nagaland)</p>
15.4.11	<p>No representative of DMG, Nagaland was present in the meeting. Regarding point 1, DMG, Nagaland may discuss the matter with CMPDI. Regarding point 2, it is beyond the</p>

	<p>purview of CGPB Committee V.</p> <p style="text-align: right;">(Action: DMG, Nagaland)</p>
Agenda 12	<p>First time report of peat/ lignite in Gandhalpada West Block, Kendujhar and Sundargarh districts, Odisha: SU: Odisha, GSI brought to the notice of the house that during preliminary exploration for iron ore in Gandhalpada West Block, out of 12 boreholes, in three boreholes thick lignite (45.95m, 18m, 21m) with carbonaceous shale intercalations have been intersected. With the available chemical data, a tentative inferred resource of 1.36MT has been assessed.</p> <p style="text-align: right;">(SU: Odisha, GSI)</p>
15.4.12	<p>After discussion on the first time report of peat/lignite, it was decided that GSI may submit 2-3 samples to MECL for analysis and once it is confirmed as lignite, decision will be taken on inclusion of the data in the inventory.</p> <p style="text-align: right;">(Action: SU: Odisha, GSI ; MECL)</p>
15.4.13	<p>NLCIL informed that they are not getting data from CGM, Gujarat on the lignite exploration carried out in Gujarat for updating inventory. Representative from CGM, Gujarat informed that they are not carrying out any lignite exploration currently, but GMDC is carrying out exploration. CGM, Gujarat agreed to collect the required data from GMDC and hand over to NLCIL.</p> <p style="text-align: right;">(CGM, Gujarat)</p>
15.4.14	<p>DGH informed that the government has undertaken one National seismic programme in all the sedimentary basins of India. Till date approximately 85% of the appraisal work by way of acquiring 2D seismic data have been completed. The appraisal work could not be undertaken in a few areas like Nagaland, Manipur, southern parts of Mizoram, North Cachar Hills, parts of Arunachal Pradesh, Bastar, Spiti-Zaskar, Karewa and Cauvery areas due to agitation by local people, inaccessibility in certain terrains, etc. DGH would like to undertake appraisal in those areas by aeromagnetic surveys in collaboration with GSI.</p> <p>It was decided that DGH may submit the proposal to ADG & Head, National Mission-II, GSI, Nagpur.</p> <p style="text-align: right;">(Action: DGH)</p>
15.4.15	<p>Regional Mission Head-II, GSI, SR queried about the 3 months' time given to CIMFR for coal analysis and the modalities to be followed if analysis is not done within the time frame. ADG & NMH-II suggested that before sending samples to CIMFR, initially write to CIMFR lab and if CIMFR replies within one week agreeing to do the analysis within three months, the samples may be sent. If no reply is received within one week, the samples can be sent to other labs. Regional Mission Head-II, GSI, SR requested that CGPB Committee-V should identify alternate labs. It was decided that NEnR, M-IIB will shortlist the labs and</p>

	intimate ADG&NMH-II for approval. Till then, decision under para 15.2.5 will continue. (Action: Member Secretary)
15.5.0	Review of work: The highlights of the exploration work were submitted before the Committee by GSI, CMPDI, MECL, NLC, SCCL, DMG, Assam, DGM Nagaland and DMG Rajasthan. Highlights of the work were presented before the house by CMPDI, MECL, NLC, SCCL and SU: Odisha, GSI.
	Concluding remarks: Shri Pradeep Singh, Director(Tech), MOM mentioned that the resolution of CGPB is 10 years old and in the meantime a lot of things have changed and now it is high time to modify the base document of CGPB and all the CGPB Committees. CGPB should be made more vibrant by including those members or stakeholders who are now relevant in the respective commodities. Shri. S. Sengupta, Director, DGCO reiterated the need for reorganizing every CGPB Committee. He also observed that it was a very well organized meeting and it meant serious business and a number of agenda items came up. He congratulated the committee and team who modified the ISP. He expressed that the two major issues discussed in the meeting, i.e. pending chemical analysis and relinquishment of CBM leasehold areas for coal exploration may be further pursued. Shri Manoj Kumar, Director & Member Secretary, NMET, MoM told that NMET is coming up with a revised SOC and the stake holders like CMPDI and MECL are well aware of the development. Shri. Subrata Sarkar Director, PSS-P&M told that this is one of the best CGPB Committees. He extended thanks to all participants and added that from next meeting representatives from Chemical and Geophysical Division may be requested to attend the meeting. Shri D. Mohan Raj, Additional Director General & Head, National Mission-II told that the day's deliberations were very fruitful and informed that two projects from MECL have been approved by NMET and two more projects are to be approved based on the outcome of the approved projects. NMET has also approved three projects from CMPDI. Regarding the analysis of coal samples, he expressed hope that CIMFR would be analyzing samples from GSI on priority basis with in a time period of three months. He told that the modalities for data sharing between GSI and DGH would be worked out. He also requested the stakeholders to share the agenda points for forwarding to the main CGPB meeting. He thanked all the stakeholders especially the outside agencies who have enthusiastically participated in the deliberations. Shri M.R. Asoka Kumar, Convener, CGPB Committee-V & Deputy Director General,

	<p>NEnR, M-IIB, GSI, Kolkata in his concluding remarks expressed satisfaction over the significant discussions especially on the issues of pending coal analysis and CBM leasehold areas. He also assured that timely action would be initiated on actionable points on the minutes. He also thanked all the participants.</p> <p>The meeting ended with vote of thanks proposed by Shri A.K. Mohanty, GM (Exploration) CMPDI.</p>
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ANNEXURE-I

LIST OF PARTICIPANTS OF THE 15th MEETING OF THE CGPB COMMITTEE-V ON ENERGY MINERALS AND RESOURCES HELD ON 27th AUGUST, 2019 AT NATURAL ENERGY RESOURCES, M-IIB, GSI, KOLKATA

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2.	Shri Pradeep Singh	Director (Tech), MoM
3.	Shri K. Basavaraja	DDG, National Mission-II, GSI, Nagpur
4.	Shri V. Singaraju	DDG, National Mission-II, GSI, Nagpur
5.	Shri A.V. Satya Kumar	DDG, National Mission-II, GSI, Nagpur
6.	Dr. Ashutosh Mondal	Director, GSI, CR,, Nagpur
7.	Shri Vishal Vasantrao Sakhare	Director, GSI, CR,, Nagpur
8.	Shri Bharat Singh Jodha	DDG, GSI, SR, Hyderabad
9.	Ms. Manju S	Superintending Geologist, SU: Telangana, GSI
10.	Shri Lakhan Lal Vishwakarma	DDG, SU: Odisha, GSI
11.	Shri Jaydip Mukherjee	Director, SU: Odisha, GSI

12.	Shri Amit Soni	Superintending Geologist, GSI, WR
13.	Shri P.S.Adhau	Superintending Geologist, GSI, WR
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