

MINUTES OF THE 5TH MEETING OF THE CGPB COMMITTEE -V ON ENERGY MINERALS AND RESOURCES HELD ON 8TH JUNE, 2011 AT BIRESHWAR LASKAR CONFERENCE ROOM, NATURAL ENERGY RESOURCES, M-IIB, GSI, KOLKATA.

5.1.0 : The 5th Meeting of the CGPB Committee-V on Energy Minerals and Resources was held on 8th June, 2011 under the Chairmanship of Shri R. Jayakumar, Dy. Director General & Head, Natural Energy Resources, M-IIB, GSI, Kolkata.

The list of participants is given in Annexure-I

5.1.1 : Welcoming the participants to the meeting, Shri D. Bhattacharya, Director, Technical Directorate, NEnR, (M-IIB), GSI and Member Secretary introduced the new Convener of CGPB Committee-V on Energy Minerals and Resources, Shri R. Jayakumar, Dy. Director General & Head, M-IIB, NEnR. He explained the importance of the 5th Meeting of CGPB Committee-V and emphasized that since the XI Plan Period is in the last year of completion, it is the proper time to take an account of the work already carried out by the different exploration agencies during the last four years. He pointed out that although the area coverage vis-à-vis the commitment of coverage of 2791 sq km made to PMO by exploration agencies has been somewhat satisfactory, the achievement in terms of meterage drilled is lagging behind considerably. He hoped that critical deliberations in the meeting would be helpful in addressing the issue of backlog in drilling in XI Plan and concerted efforts would be made by all Members to achieve the shortfall.

The Member Secretary lauded the significant contribution by the participating agencies towards the consistent upgradation in the resource position of the country and conveyed that during the XI Plan Period augmentation of 21 b.t. of coal and 2 b.t. of lignite has been achieved. Out of the coal resources, augmented 9 b.t. occur within a depth range of 300m.

He requested all the exploration agencies including the representatives of the State Govts. to complete the formulation of XII Plan Programme immediately and pass on the same to the Committee - V. He stressed upon the availability of the area vis-à-vis data on coal/lignite occurrences in CBM exploration areas from DGH so that different coal and lignite exploration agencies may include such areas relinquished

by CBM exploration agencies in their proposals for XII Plan document.

5.1.2 : Shri R. Jayakumar, Convener of the Committee accorded a warm welcome to all the members and participants of the meeting and stated that he felt extremely honoured to chair the meeting of the Committee which is responsible for coordination of planning and execution of surface/sub-surface exploration of Natural Energy Resources of the country. Emphasizing the importance of solid fossil fuel by virtue of its abundance, reliability and economics, he pointed out that coal/lignite is the single most important contribution catering to the economic growth of the country. Indicating the strategies and priority adopted in exploration for solid fossil fuel, he briefly mentioned the overall achievement of work during the first four years of XI Plan. He pointed out that the dissemination of scientific knowledge base from the already exploited CBM blocks will be enormously helpful in pragmatic planning of future coal exploration and help in speeding up the pace of exploration work. He hoped that DGH would extend their full cooperation in this respect. He mentioned that although the guidelines for diversion of forest land for survey and exploration has been issued, more effective interaction would be needed to put the same into effect at ground level. Emphasizing on the significant contribution of the Committee-V to the PMO, other Ministries and Planning Commission, he hoped that the deliberations of the meeting would be goal-oriented facilitating higher forum in making decisions.

5.1.3 : Appreciating the role of Committee-V, Shri G. Dasgupta, Director, CGPB informed that forthcoming CGPB will be held on 23rd and 24th August, 2011 at New Delhi. He pointed out that the Base Paper in respect of solid fossil fuel exploration should be vetted from ADG, CHQ prior to its final acceptance by MoM. Views expressed by different State Government Agencies need to be incorporated in the Base Paper. He reminded that the Base Paper has to be completed by July, 2011. He has also requested the participants especially State Government Agencies to take up the task of formulation of XII Five Year Plan, since the XI Five Year Plan is in its culmination stage. He informed that the forthcoming CGPB will highlight the

achievement of geophysical exploration techniques adopted for locating hidden mineral deposit including coal as the main theme of exhibition in New Delhi and willing participants may communicate with the CGPB Committee in this regard.

5.1.4 : Director. Monitoring-I, CHQ stated that rolling Plan document should also include man power deployment including status of shortage in a particular item, modernization programme that are being planned in addition to the details of the blocks to be taken up. These data should come from all the members including the State Government Agencies. He also informed that the Base Paper in respect of solid fossil fuel exploration has already been vetted by ADG, CHQ.

5.1.5 : Shri Y. S. Babu Rao, SCCL informed that the Plan document for exploration of coal prepared in relation to the Sub-Group III of MoC deals with all the aspects that are being deliberated and the same have been documented as per the Terms of Reference of the work to be carried out by the Sub Group. He mentioned that SCCL has already prepared its XII Plan document which includes application of modern exploration techniques for shale gas, gas hydrate, induction of state-of-art Information Technology application etc.

5.1.6 : Prof. B. C. Sarkar, ISM Dhanbad requested that aspects of geothermal exploration should constitute part of the XII Plan. Member Secretary drew the attention of all participants to the publication of Geothermal Atlas of India by GSI. He informed that in spite of repeated request no government or private organization engaged in geothermal activities have responded in a positive manner. Considering his valuable expertise in the academic field, Prof. B. C. Sarkar was requested to take up the issue of involving suitable organization engaged in geothermal related work. Shri G. Dasgupta, Director, CGPB suggested involving Bhilwara Group in this regard.

(Action, ISM, Dhanbad)

5.1.7 : DGH informed that CBM exploration in the country is underway and as per agreement with the allottees the exploration programme can continue for 5-8 years and the areas can only be released after that. He mentioned that in respect of CBM

activities there has been extremely close and cordial relationship between them and GSI. He assured the Member Secretary that whenever such information is required, they can be supplied to GSI. A meeting between GSI and DGH is scheduled in Kolkata within a month after DGH confirms its availability of date.

(Action: DGH)

- 5.1.8** : Shri E. Hanumantha Rao, NLC pointed out those areas allotted as lease in respect of a particular mineral cannot be simultaneously explored for a different mineral as per the present legislation. He remarked that in Rajasthan, areas marked for oil and petroleum exploration cannot be explored for lignite which occurs at a relatively much shallower depth. He requested the Convener to raise the issue of dual mineral licenses as an agenda item in the forthcoming CGPB. DGH informed that such an issue is being jointly examined by Ministry of Petroleum and Ministry of Coal.

(Action: Member Secretary/NLC).

- 5.2.0** : **Follow up action taken report on the decision of the 4th Meeting of the CGPB Committee V**

- 5.2.1** : In connection with Para 4.2.1, Member secretary requested the Project Director Lignite, M-IIB, WR, GSI to collect the required data directly from DMG, Rajasthan and DMG, Gujarat and resolve the issue.

(Action: GSI)

- 5.2.2** : As a follow-up of proposed exploration in NER in connection with Para 4.2.2, Member Secretary stated that regarding exploration in Tirap, Margarita area, the block area was finalized but exploration programme had not been taken up. MECL informed and explained the difficulty regarding forest problem and infrastructure and emphasized that permission from the department of environment and forest has not yet been received but the shifting operation of logistics to the proposed area has already started.

(Action: MECL)

- 5.2.3** : The data of DMG, Assam related to exploration in Saraipunj area under promotional funding has not yet been received. Director, NEC stated that the exploration

programme has not yet been taken up by DMG, Assam. Director, NEC assured that Dy. D.G. & HOD, NER, GSI would be requested to take up the issue in the forthcoming meeting of NEC at Shillong. The Committee should be kept updated of the progress in this regard.

(Action: Director, NEC)

- 5.2.4** : Regarding Para 4.2.5, Member Secretary expressed his dissatisfaction regarding unavailability of exploration data from CGM, Gujarat. He hoped that CGM, Gujarat would send the data for inclusion in the upgradation of National Inventory.

(Action: CGM, Gujarat)

- 5.2.5** : Referring to Para 4.2.6 regarding geophysical logging bills of promotional exploration SCCL pointed out that the bills have not yet been finalized. Member Secretary requested NLC to nominate one member so that the Committee can take up and resolve the issue.

(Action: NLC)

- 5.2.6** : In connection with Para 4.2.7, SCCL informed that HRSS Survey by NGRI in Godavari Valley Coalfield will be taken up after completion of work in Rajasthan. He requested that the current official rate applicable to blast hole drilling is low and , no agency is submitting quotation for taking up work in Godavari Valley Coalfield. As such CMPDIL was requested to examine the issue and SCCL was asked to bilaterally take up the issue with CMPDIL.

(Action: SCCL)

- 5.2.7** : Regarding Para 4.2.9, related to finalization of norms of borehole logging, Member Secretary requested all core members to view the norms draft sent by CIMFR and finalize the same. CIMFR requested Member Secretary to fix a time frame for finalization the norms. Member Secretary requested CIMFR to give a time schedule so that all the concerned agencies can forward their comments. In case any of the agencies have not received the draft norms, they are requested to contact CIMFR.

(Action: CIMFR)

- 5.2.8** : Referring to Para 4.2.10, CIMFR representative said that a letter has been sent to CMPDIL in January 2011 regarding requirements for preparation of consolidated

reports but reply is awaited. CMPDIL indicated that necessary instructions are yet to be received from MoC.

(Action: CMPDIL)

- 5.2.9** : In respect of Para 4.2.13, it was informed that alternate areas for taking up work based on joint traverse by SCCL & MECL has already been forwarded to CMPDIL and the same was being examined. CMPDIL also informed about similar difficulties faced in certain areas of Mand-Raighr, Talcher and Singrauli coalfields.

(Action CMPDIL)

- 5.2.10** : In respect of Para 4.2.14 please refer to Para 5.1.7 of the minutes.

- 5.2.11** : In respect of Para 4.2.15 please refer to Para 5.1.3 of the minutes.

- 5.2.12** : With reference to Para 4.5.3, CMPDIL replied that both ISP norms and JORC is followed by CMPDIL. Member Secretary pointed out that the issue has already been raised in CGPB and is referred to be resolved at Inter-Ministerial level. He emphasized that the Resource Assessment and Inventory are being carried out based on UNFC. In this aspect, NLC also reiterated the importance of UNFC norm and requested the Member Secretary to again take up the issue so that a clear-cut instruction from the Government is issued to follow the UNFC norms strictly. Member Secretary requested CMPDIL to follow up the matter and send the required information to Member Secretary.

(Action: CMPDIL)

Replying to the invitee from ISM, Dhanbad, Member Secretary stated that in Regional and Promotional exploration only the Geology axis of UNFC is followed. In case of detailed exploration the economic and feasibility axes are also attended to.

- 5.2.15** : Referring to Para 4.5.4, the Member Secretary requested all private agencies to follow the modified ISP norm of the year 1989 for resource estimation.

(Action: All Exploration Agencies)

- 5.2.16** While referring to Para 4.5.6&7, the Member Secretary requested DGM, Nagaland to send data for whatever work was carried out under promotional funding to CMPDIL and to Member Secretary. CMPDIL will take up the matter of payment of

bills to DGM Nagaland subsequently.

(Action: DGM, Nagaland)

5.2.17 : In response to Para 4.5.8, CIMFR stated that due to personnel shortage it is very difficult to prepare bills as requested by GSI. Generally bill is sent with band by band analysis.

In view of the recent restructuring of GSI and merging of operational part of work with the respective Regions, the Regions have been designated to take up the issue of payment, instead of earlier practice. However, since the system of working needs to be smoothened, it was agreed that bills of promotional exploration be continued to be sent to M-IIB, NEnR, Kolkata, who would forward the same to the respective Regions of GSI. TCS Division would also inform the respective Regions of GSI regarding the procedure to be adopted in future.

(Action: GSI)

5.2.18 : Regarding 2D HRS survey in Rajasthan by NGRI for DGM, Rajasthan no information is received from DGM, Rajasthan.

5.2.19 : In connection with Para 4.5.11, SCCL informed that seismic survey would be conducted in the area.

5.2.20 : Referring to Para 4.5.12, NLC is requested to take necessary permission from MoC regarding availability of GSI reports.

(Action: NLC)

5.2.21 : Regarding Para 4.5.16 related to analysis of coal core samples, CIMFR informed that due to storage problem, it is not possible to keep the coal core samples beyond two months from the date of receipt. GSI informed that the matter was already been discussed and communicated to all concerned officers of GSI.

5.2.22 : Regarding Para 4.5.17 CIMFR requested the Committee to enhance the rate of analysis particularly for GSI and CMPDIL as it is not possible for them to analyse the sample at present rates. CMPDIL informed that queries sent to CIMFR may be attended to prior to MoU finalization. CIMFR suggested that the charge should be fixed as per CSIR norm although the rate was fixed between CIMFR and CMPDIL.

Member Secretary requested CMPDIL and CIMFR to solve the problem in a bilateral meeting and inform the Committee.

(Action: CMPDIL & CIMFR)

- 5.2.23** : In respect of Para 4.5.18 please refer to Para 5.2.17 of the minutes.
- 5.2.24** : CMPDIL also informed that no rate for palynological samples is received so far from MoC. Issue discussed under Para 5.5.1 of the items for Agenda.
- 5.2.25** : Regarding Para 4.5.19, MoEF was requested to attend the meeting. However no response has been received so far.
- 5.2.26** : Referring to Para 4.6.0, the Member representative Dart Energy (formerly Arrow Energy) requested GSI to take up CBM exploration in Sonhat Coalfield. He also informed that the western part of Sonhat Coalfield has already been allotted to Dart Energy Limited and requested DGH to consider geological report prior to allocation of CBM blocks to the party. Representative of DGH assured that the matter will be discussed in the follow up meeting.

(Action: DGH)

DGM, Jharkhand requested M-IIB, GSI to depute at least one officer for two to three days every month to complete the report and other technical help. M-IIB, GSI stated that it may be possible to depute one officer for one or two times, but not on a regular basis. Earlier a single officer had been visiting DGM, Jharkhand for offering expertise. However, due to shortage of personnel GSI cannot immediately provide a suitable replacement. He requested DGM, Jharkhand to send one officer to M-IIB, GSI Kolkata for report finalization or alternatively to nearby Kuju Training Centre of GSI, TI for required training. He requested DGM to send the specific areas under which help is being sought.

(Action: DGM, Jharkhand)

- 5.3.0** : **Confirmation of the minutes of the 4th Meeting of the Committee on Energy Minerals & Resources.**
The minutes of the above meeting was confirmed.
- 5.4.0** : **Review of work:**
Representative of respective agencies presented the achievements and highlights

of the work carried out. The Member Secretary requested CMPDIL, to send the achievement and highlights of CBM work being carried out by CMPDIL. Member Secretary also emphasized on submission of the progress of work being carried out by different State Govt. Agencies so that the Committee can integrate and compile the information.

(Action: CMPDIL/State Govt. Agencies)

5.5.0 : Discussion on Agenda Items.

5.5.1 : Prior approval for inclusion of Studies under Promotional Exploration:

CMPDIL requested all the implementing agencies conducting promotional exploration to undertake only such studies included in the rate charts approved by Ministry of Coal. In this regard, GSI pointed out the relevance and importance of certain studies like Palynological studies etc. on case to case basis for unraveling the stratigraphy of the area. Accordingly, CMPDIL requested the executing agencies to convey the inclusion of such studies well in advance so that approval from MoC can be taken by CMPDIL

(Action: All Exploration Agencies)

5.5.2 : Identification of blocks for XII Plan.

CMPDIL informed that identification of new blocks for XII Plan may be taken up and completed quickly in view of shortage of time. The Member Secretary informed that new areas would be finalized after holding such a discussion among the Core Group Members. CMPDIL has been requested to hold such meeting among Core Group Members at the earliest.

(Action: CMPDIL)

5.5.3 : Pertaining to National Inventory.

GSI pointed out that Public/Private entrepreneurs engaged in detailed exploration are sending reports without proper classification of the assessed resources, and unless properly classified it is not possible to incorporate the resources in the National Inventory. MoC was requested to instruct all the agencies carrying out

detailed drilling for strict adherence to category-wise, depth-wise, grade-wise classification of resources. The same should be intimated while granting of lease and CMPDIL was requested to convey the same.

(Action: CMPDIL)

The lignite Resources generated in the last few years pertaining to Gujarat are not available for incorporation in the National Inventory. It was decided to request Govt. of Gujarat for sending the information and take up the issue as an Agenda in CGPB.

(Action: Member Secretary)

5.5.4 : Payment of bills raised by CIMFR.

GSI requested CIMFR that bills pertaining to F. S. 2010-2012 and onwards are to be raised and sent to the respective Directorate of Projects in different Regions of GSI from which samples are received for analysis. CIMFR in turn requested GSI to inform the different Projects/Regions sending samples to indicate the address where the reports and bills are to be sent.

(Action: GSI)

5.5.5 : Timely Receipt of Analysis Results

GSI informed the Committee regarding the current norms relevant to submission of Progress Reports and requested CIMFR to send the analysis results within three months of receipt of samples. Representatives of CIMFR indicated that it was not possible to adhere to the indicated time schedule as CIMFR carries out analysis for different agencies and time scheduling is undertaken depending on date of arrival. However, selected samples in some cases could be taken up on priority, if indicated. She also requested that representative from Regional Offices of GSI may get in touch with the respective CIMFR unit for their benefit.

(Action: GSI)

5.5.6 : Approval of rates for additional components

Please refer to Para 5.5.1 of the minutes.

5.5.7 : Interpretation of GP Borehole data

GSI informed that MECL is carrying out Geophysical borehole logging in Rajasthan Lignite fields and sending the digitized borehole geophysical data in LAS format to GSI, Kolkata for further processing and interpretation. The data is then processed by Log Plot-7 software for preparation of GP Logs and interpretation of log parameters. Due to shortage of personnel in view of restructuring of GSI, MECL is requested to take up interpretation of GP Log data and preparation of the report. MECL expressed their regret as they are also facing shortage of personnel.

5.5.8 : Conversion of density parameter:

To a request of GSI, MECL informed that under present circumstances they were unable to undertake conversion of density parameter in count per second to a realistic gram per cubic centimeter.

5.5.9 : Ratification of CBM proposals of GSI

The following changes in the approved work related to CBM was ratified :

(i) To carry out CBM Study in the remaining two boreholes (out of 5) of F. S. 2010-2011 the subsequent year i.e. F. S. 2011-12. CBM study will be taken up in Grindola block, Ib-River Coalfield instead of south of Hingla River of Raniganj Coalfield.

(ii) CBM study in Reonti (west) block, Tatapani-Ramkola Coalfield and Simlisahi-Kunjabiharipur blocks to be taken up in F. S. 2011-12. It was originally proposed for taking up in F. S. 2009-10. Similarly, instead of Naurazabad (North) area of Johilla Valley Coalfield, CBM studies will be taken up in Maiki (North) block of Sohagpur Coalfield.

5.5.10 : Ratification of Exploration Proposals of GSI:

1. Time extension for carrying out spill over drilling and excess drilling of 287.35m in Piplimal-Khairkuni block, Ib-River Coalfield completed in 29.12.2010.

2. Time extension of Simlisahi-Kunjabiharipur block, Talcher Coalfield, Orissa upto August, 2011.
3. Extension of time frame of exploration in Harichandanpur block, Talcher Coalfield, Orissa by six months i.e. upto 30.09.2011.
4. Modification in boundary of Korara-Danara sector, Talcher Coalfield has been undertaken as part of the proposed block has already been taken on lease by JSPL. The total area has been reduced from 20 to 15 sq. km.
5. The norms of Giddhi block is changed to Vijoyanagar-Giddhi block and modification of existing block boundary considering overlap with earlier explored block and CBM awarded areas.

All the exploration proposals of GSI have been ratified.

(Action: GSI)

5.5.11 : HRS Survey by NGRI, Hyderabad

Please refer Para 5.2.7 of the minutes.

(Action: SCCL)

5.5.12 : Approval of alternate area of exploration in Godavari Valley Coalfield

In light of delay in getting forest permissions and villager's objection in the Lingala-Gundala area of Godavari Valley Coalfield for continuing promotional exploration by MECL, alternate areas suggested in the northwest of Dorli, Adilabad District and southeastern part of Goleti, Adilabad District was approved.

(Action: SCCL)

5.5.13 : Taking up deep drilling blocks in Godavari Valley Coalfield

The request of SCCL to take up blocks in Godavari Valley Coalfield with depth of drilling between 600m and 2000m was considered and GSI and CMPDIL assured that the areas will be taken up subject to availability of drilling machine of the desired depth capacity.

(Action : GSI & CMPDIL)

5.5.14 : Supply of Geological Report for ILRIS Project.

The issue of supply of Geological Report by GSI for ILRIS Project raised by NLC is already under the consideration of CGPB at an appropriate level.

5.5.15 : Supply of Digital Slim Hole Geophysical Logs to ILRIS Project:

Digital slim hole logging is being done by MECL in the Promotional/Contractual lignite exploration blocks. The digital logging data is being stored at MECL, Nagpur. The digital logs for various lignite blocks will be used to study characteristics of rock strata through software. The Committee was requested to take up the matter with MECL and facilitate for issue of digital borehole geophysical logs to ILRIS projects. MECL informed that raw data can be supplied in this regard and Member Secretary requested NLC and MECL to resolve the issue bilaterally.

(Action: NLC & MECL)

5.5.16 : Deputation of GSI Office for coal exploration by Directorate of Geology, Jharkhand.

The issue of deputation of GSI officer for providing assistance to Directorate who has taken up around 12 blocks for exploration was discussed in detail. GSI informed that on a similar request one officer had already been sent for offering help in the exploration work. Since the drilling is nearly completed and the work is in an advanced stage, GSI offered help in assessment of resources, correlation of coal seams and other works related to finalization of report at its Kolkata office. DGM, Jharkhand has however insisted sending an officer to assist in field activities. GSI requested that DGM, Jharkhand may send a letter outlying the requirement of work immediately so that further action can be taken up. DGM, Jharkhand was also requested to identify suitable personnel for attending training in RTC, Kuju which regularly conducts training in coal exploration.

(Action: DGM, Jharkhand)

5.5.17 : .Exploration in alternative Rapilivada block of Godavari Valley Coalfield by MECL

The proposal of MECL to take up exploration in Rapilivada block by drilling 3 boreholes initially in lieu of Lingala-Gundala block of Godavari Valley Coalfield was

approved.

(Action: MECL)

5.5.18 : Additional drilling in Ramgarh Lignite block, Jaisalmer district, Rajasthan.

Approved for additional drilling of 3900m over the approved quantum of 13,750m was accorded in order to accommodate additional borehole in the area.

(Action: MECL)

5.5.19 : Revision of Rates for Promotional Exploration of Coal and Lignite.

MECL requested that due to tremendous increase in input cost, revision of rates for exploration activities under promotional exploration may be considered. CMPDIL was requested to take up the issue with MoC.

(Action: CMPDIL)

5.5.20 : Ratification of excess meterage drilled in Blocks completed by MECL during financial year 2010-11

Details of drilling carried by MECL in blocks completed during financial year 2010-11 as mentioned below was ratified.

5.5.21 : Rationalised Norm of borehole core logging

Please refer Para 5.2.7 of the minutes.

(Action: CIMFR)

5.5.22 : Raising of bills & payments

Please refer Para 5.2.17 of the minutes.

(Action: GSI)

5.5.23 : Basic Geological Information

Please refer Para 5.2.8 of the minutes.

(Action: CMPDIL)

5.5.24 : Overall Analysis of coal/lignite core samples

Please refer Para 5.2.21 of the minutes.

(Action: GSI)

5.5.25 : MoU about rate for Chemical Analysis of coal/lignite core samples

Please refer Para 5.2.22 of the minutes.

(Action: CMPDIL)

5.5.26 : Proposal of NGRI

NGRI has called open tenders for drilling work under the subject project in Rajasthan and Andhra Pradesh and lowest tendered was allotted the work. The price offered by LI for AP (area1) and Rajasthan (area2) are same and very high for area1. In view of this, rates fixed for Rajasthan and AP shall be the same. NGRI requested that approval may be given to take up the work in AP immediately.

Please refer Para 5.2.6 of the minutes.

(Action: NGRI)

5.5.27 : Concluding Remarks:

Member Secretary pointed out that shortfall in drilling target in regional exploration of M-IIB, GSI and asked Director, TC to take adequate action in this regards. Director, TC, M-IIB, GSI informed that the shortfall lies in case of drilling in Rajasthan which will be resolved soon.

Director, CGPB advised CGPB Committee to give the clear cut policy in case of other aspects like conservation of mineral potential, environment pollution, R&D aspects, coal beneficiation and blending for getting clean coal etc. Member Secretary answered that as per XI Five Year Plan the appropriate action has already been taken. For XII Five Year Plan the preparation of policy matter are in progress.

Member Secretary, stressed upon the importance of application of remote sensing in case of concealed mineral deposits including of coal and also in case of mining problem. He invited ISRO to come up with a positive and appropriate proposal in this regards. The Member Representative ISRO informed the house that they are thinking upon this problem and the proposal is in under progress.

Agenda Items for 49 th CGPB meeting

As per the suggestions of the Director, CGPB, the Committee through its deliberations in the meeting proposes the following items for consideration in

the 49 th. CGPB Meeting to be held during August, 2011 in New Delhi.

- 1. MoEF may be approached to allow search, through exploration, for coal/lignite deposits that may occur within Buffer zones at the periphery of Sanctuary areas.**
- 2. MoC and MoM may be requested to introduce Dual Mineral Licensing Policy.**
- 3. MoC may be requested to categorically instruct all allottees of coal/lignite exploration to send Geological Reports to NEnR, M-IIB, GSI, Kolkata and CMPDIL, Ranchi for timely incorporation of resources in the National Inventory.**
- 4. CGM, Govt. of Gujarat may be requested for data sharing.**

The meeting ended with vote of thanks.

ANNEXURE-I

LIST OF PARTICIPANTS ATTENDING 5TH MEETING OF THE CGPB COMMITTEE -V ON ENERGY MINERALS AND RESOURCES HELD ON 8TH JUNE, 2011 AT BIRESHWAR LASKAR CONFERENCE ROOM, NATURAL ENERGY RESOURCES, M-IIB, GSI, KOLKATA.

Sl. No.	Name, Designation & Organization		Telephone, Mobile & E-mail
1.	Shri R. Jayakumar, Dy. Director General, NEnR, M-IIB, GSI, Kolkata	Convener	hod.cw@gsi.gov.in 033-2321-0641; 9432015175
2.	Shri Sumant Gupta, Dy. Director General, SRO, GSI, Hyderabad	Member	07702555867; sumant.gupta@gsi.gov.in
3.	Dr. S. Mukherjee, Director, GSI, M-IIB.	Member	9433468201
4.	Shri D. Bhattacharya, Director, GSI.	Member Secretary	9433468201
5.	Shri G. Dasgupta, Director, CGPB Secretariat, GSI, New Delhi.	Member	011-29054957 ;09810361636
6.	Shri Rajib Chakraborty, Supdtg. Geologist,,GSI, CHQ,	Member Representative	09432642921
7.	Shri V. K. S. Visen,, , HOD (Exploration), MECL	Member	mecl_ngp@sancharnet.in 09423685584
8.	Shri Y. S. Baburao , General Manager (Exploration), SCCL	Member	ys.baburao@scclmines.com 08744-242418
9.	Shri E. Hanumantha Rao, Dy. General Manager & HOD (Geology), NLC.	Member Representative	dgn-geo@nlcindia.com 04142-218134
10.	Mrs. N. Choudhury, Scientist & Head, RQA Division, CIMFR, Dhanbad.	Member Representative	nanditafri@yahoo.com 0326-2388336
11.	Dr. U. K. Mishra, Director (Science & Technology) NEC, Shillong.	Member Representative	mishra uk53@yahoo.co.in 09436117943
12.	T. Mar imchen, Geologist, DGM, Nagaland	Representative Special Invitee	09436602492
13.	YNRV Prasad, Dy. Director, Mines & Geology, Deptt. Of Mines & Geology, Govt. of Andhra Pradesh	Member Representative	09440817727
14.	Shri T. Seshunarayana, Scientist-G, Head Engineer Geophysics Group, NGRI, Hyderabad.	Member	tanseshu@ngri.res.in 09440790327
15.	Dr. B. C. Sarkar, Prof. & Head, Applied Geology.	Member Representative	
16.	Shri P. K. Bargi, Chief Mining Officer, DMM, West Bengal.	Member Representative	
17.	Shri T. A. Subbiah, Joint Director, DMG, Tamil Nadu.	Member Representative	
18.	R.K.Pandey, Geologist, DGM, Jharkhand	Member Representative	
19.	Arun Kumar, Geologist, DGM, Jharkhand	Member Representative	
20.	Shri J. S. Savant, Manager (Geology), MECL	Invitee	
21.	Shri Amitava Das, GM (Geology), CMPDI, HQ, Ranchi	Member Representative	09437307994
22.	Dr. B.V. Naidu, AGM (Geol), SCCL, Kothagudem	Invitee	
23.	Shri S. Adhikari, Country Manager, Dart Energy Limited.	Permanent Invitee	
24.	Ms. Swati Singh, Scientist 'SC', RRSC-E, Kolkata,	Member	09903880789

	ISRO	Representative	
25.	Sanjay Chawla, Head, Alternate Energy, DGH	Member Representative	
26.	Dr. Prathap Reddy, Geologist, Mines & Geology, Deptt. Of Mines & Geology, Govt. of Andhra Pradesh	Invitee	
27.	Shri S. Shivanna, Director, GSI.	Invitee	
28.	Shri S. Ramakrishna Setty, Director, GSI	Invitee	
29.	Shri Amitava Bandyopadhyay, Director, GSI.	Invitee	09432669266
30.	Shri S. Chakraborty, Director, M-IIB, GSI, Kolkata.	Invitee	
31.	Shri D.R. Datta, Director, CR, GSI, Nagpur.	Member	
32.	Shri P. K. Nanda, Director, Proj. Lignite, Western Region, GSI.	Member	
33.	Shri S. Sengupta, Director, Eastern Region, GSI.	Invitee	
34.	S,C.Sharma, HOD, Shale Gas, DGH	Invitee	
35.	Shri B. Gangopadhyay, Senior Geologist, GSI.	Invitee	9831477299
36.	Dr. Manas Roychoudhuri, Senior Geologist, GSI.	Invitee	manas@gmail.com 09433256075
37.	Dr. A. Mondal, Senior Geologist, GSI.	Invitee	
38.	Shri D.P. Chatterjee, Senior Geologist, GSI.	Invitee	09231982652
39.	Shri S. Gupta, Senior Geologist, GSI.	Invitee	shivajigupta@gsi.gov.in 09433073293
40.	Dr, S. C. Mitra, Senior Geologist, GSI	Invitee	
41.	Shri B.K.Chakraborty, Senior Geologist, GSI	Invitee	
42.	Md. Aminul Islam, Senior Geologist, GSI	Invitee	
43.	Dr. A. Rai Choudhuri, Senior Geologist, GSI	Invitee	
44.	Dr. S. Bhattacharyya, Senior Geologist, GSI	Invitee	