MINUTES OF THE 9th TECHNICAL COMMITTEE MEETING OF NMET, GSI, JAIPUR, RAJASTHAN. HELD ON 08TH & 9th JUNE, 2017

The 9th meeting of the Technical Committee of the NMET was held on 08-06-2017 and 09-06-2017 at WR, Jaipur under the Chairmanship of Dr. P. R. Golani, Dy. DG, GSITI. Dr. L.S. Shekhawat, Dy.DG & RMH-II, WR welcomed the Chairman Technical Review Committee & DyDG, GSITI, Shri S.K.Thakur, GM, MECL, Dr. Koshy John, Dy.DG, DGCO, Dr. Joyesh Bagchi, Director, Technical MOM, Dr. M.K. Somani, RMG, IBM, Dr. M.K.Khandelwal, Regional Director, AMD,WR Shri C. Partahasarathi, Suptdg. Geologist, GSI, Shri D.K. Porwal, Addl. Director (G), DMG, Rajasthan, Hanumanth Rao, CEO, MERIT, DMG, Andhra Pradesh Shri B.P.Raturi, Dy.GM, MECL and representatives of MECL and all other participating members. List of participants is annexed. Detailed deliberations of the meeting are recorded as below:

09.01.00		
	09.01.01	The Chairman welcomed the participants and initiated the proceedings. He highlighted the necessity of higher core recovery for resource estimation and preservation. This is vital as the cores have to be made available to all stake holders especially the prospective bidders in the possible auction of the explored blocks. Dr. Golani asked for views on minimum core recovery which should be there in NMET funded projects. After detailed discussions the following decision were taken: - 1.Core recovery should be at least 95% in mineralized zone and 90% in rest of the borcholes. 2.Less than 80% core recovery should not be accepted as it adversely affects the resource estimation. 3. Any recovery less than minimum level has to be justified by an appropriate technical committee headed by Regional Mission Head-II of GSI who should look to the possible compelling geological reasons, if any for such shortfalls. The committee will also evaluate whether all technical conditions like slow RPM, shorter runs, use of triple tube core barrel, dry drilling etc. to achieve the required percentage of core recovery. 4. The soft rocks like lignite, coal and some blue dust type iron ores the participants suggested for minimum 80% of core recovery. 5. As suggested by Regional Director, AMD, WR, that in case of low core recovery initial one or two boreholes may be observed for obtaining the requisite core recovery. It was decided that the above committee will consider this provision in case of projects with high drilling meterage.
	09.01.02 New Project Proposals	The Chairman informed the house that the project proposals from state governments should be in detail with proper geological, geophysical and geochemical information. He also mentioned that the new proposals are to be submitted to regional committee for peer review and then only it will be forwarded to the technical committee of NMET for final approval.
	09.01.03 Project Review	Shri. B.P.Raturi and his team presented the work carried out by MECL in different blocks for reconnaissance (G4) stage exploration in Rajasthan.

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		The common observation of the technical committee and of the members of the Regional Screening cum Appraisal Committee of WR are summarized below. After evaluating the geological maps of 5 blocks presented by MECL it was observed that: 1. Geological and structural data in the maps are not sufficient 2. Further differentiation of the litho-units need to be done 3. All GSI data should be consulted and integrated and detailed in commensuration with the scale and availability of exposures. 4. Delineation of shear zones need to be done precisely with proper representation on the map. 5. RMH-II, GSI, WR suggested that geophysical work employing SP & IP methods should be judiciously done keeping in consideration that present work is of G4 stage. It is suggested that IP and SP surveys should be done where signatures of mineralization are there by putting one test traverse line and if the results are encouraging then only adjoining traverse line (100m-200m apart) should be taken up otherwise next line should be at other place where mineralization signature including alteration feature are present. 6. Geological cross sections are to be prepared. 7. Available aero-Geophysical data to be consulted **Kala-Khunta Block, Khushalgarh tehsil, District Banaswara, Rajasthan:** Shri B.P. Raturi, Dy.GM, MECL informed about the administrative issues like local people mining in the area and not allowing to collect trench samples. The Chairman conveyed to Shri D. K. Porwal, DMG, Rajasthan to sort out the issue. Dr. Somani, RMG, IBM, Udaipur assured to look into the matter through MSS project and trigger generated will be sent to state government to verify in the field and take necessary action. The review will be done after progress of the work. **Tambesara Block, Khushalgarh Tehsil, District Banswara, Rajasthan:** Shri B.P. Raturi, Dy.GM, MECL informed that the work could not be commenced due to local hindrance and also sought intervention from DMG, Rajasthan. The Chairman addressed to DMG, Rajasthan to complete ground work like forest clearance, settlement of local issues etc. before proposing a new project. **Deravad-Chargharhia-Bansra area, Udaipur, Rajasthan (RAJ 02):** 1. Quality of map to be improved 2. Structural data density to be increased 3. Delineation of shear/tectonic zone 4. Preparation of at least 3 geological cross sections 5. Study of well sections in covered areas 7. Geophysical surveys like IP,SP & Resistivity in adjoining areas.

		8. Coznigence and integration of available data. **Jhalara-Matasula-Manpur-Bhabrana-Amalva area, Udaipur and Dungarpur district, Rajasthan (RAJ 03):** Shri B.P. Raturi, Dy.GM, MECL, presented the work carried out in the block and informed the house that upto 70 ppm of silver have been analyzed in samples collected near Padwa village, Udaipur Dist. The Chairman appreciated the results received and asked to recheck the samples before upgradation of the project. He further suggested collecting more samples from the area. The suggestion made during the meeting are as follows: 1. Quality of map to be improved 2. Structural data density to be increased 3. Delineation of shear/tectonic zone 4. Preparation of at least 3 geological cross sections 6. Cognizance and integration of geological data of GSI 7. Lithological characterization for identifying the host lithology 8.Analysis of 2 samples in different labs with suitable SRMs and EPMA analysis of high silver bearing samples. 9. Available aero-geophysical maps of AMSE, GSI should be consulted. **Kanawat-Chala-Karath-Bagholi area, Jhunjhunu district, Rajasthan (RAJ 07):** 1. Quality of map to be improved 2. Structural data density to be increased 3. Cognizance and integration of geological data of GSI 4. Available aero-geophysical data to be incorporated 5. Ground Geophysics to be carried out at an interval of 250m and profile distance at 25 to 50m station interval 6. Continuous Chip sampling of 2m length at an interval of 500m. 7. IP survey should be carried out on positive magnetic responses at 250m interval. **Kukra-padwa-Ven area, Udaipur district, Rajasthan (RAJ 04):** 1. Quality of map to be improved 2. Structural data density to be increased 3. Delineation of shear/tectonic zone 4. Preparation of at least 3 geological cross sections 5. Cognizance of integration of geological data of GSI **Isarwas-Karavalli-Baroliya-Angeni-Beras area, Udaipur Dist., Rajasthan (RAJ 13):** Shri B.P. Raturi, Dy.GM, MECL, presented the work carried out in the block and informed the committee that up to 212 ppm of silver have been analyzed in quartzite and siliceous dolomite collected from the investigation area. The Chairman asked to recheck the samples and

		enquired about the repeatability of the SRM. The suggestion made by the committee are as follows: 1. Quality of map to be improved 2. Structural data density to be increased 3.Cognizance and integration of geological data of GSI 4. Delineation of shear/tectonic zone 5. Preparation of at least 3 geological cross sections 6. Analysis of 3 samples in different labs with suitable SRMs and EPMA analysis of high silver bearing samples. **Gothra-Parasrampura, Nawalgarh Tehsil, Dist. Junjhunun, Rajasthan:** Shri D.K.Porwal, Addl. Director, DMG, Rajasthan informed the house that the limestone horizon may be encountered after 80m depth from surface. Shri S.K. Thakur, GM, MECL, Dr. Joyesh Bagchi, Director Technical, MOM and Shri Hanumant Rao commented that as per existing dataset the limestone horizon starts at 40m depth. The Chairman asked the DMG, Rajasthan to submit a report on depth of exploration of limestone with respect to auctionability within seven days. Dr. SK Thakur, GM, MECL opined to carry out DGPS survey for identifying the block boundary. **Nahardih-Madhaipur block, Tehsil, Tilda, Dist. Raipur, Chattisgarh:** Shri B.P. Raturi, Dy.GM, MECL, presented the work carried out in the block and informed the committee that out of 22 samples 19 samples indicate cement grade limestone. The regional committee suggested carrying out 8 boreholes at 800m interval and the alternate boreholes should be of 70m depth. The Chairman directed to invite all RMHs and respective state DGM to participate in next review meeting of the ongoing projects so as to maintain uniformity in reviewing process. **South of Kesharpura Block, Odisha (ODS 09):** 1. Quality of map to be improved 2. Structural data density to be increased 3. Cognizance and integration of geological data of GSI 4. Delineation of shear/tectonic zone 5. Preparation of at least 3 geological cross sections **Agnigundla North Block, Andhra Pradesh (AP 09):** 1. Quality of map to be improved 2. Structural data density to be increased 3. Cognizance and integration of geological data of GSI 4. Delineation of shear/tectonic zone 5. Preparation of at least 3 geological cross sections **Agnigundla South Block, Andhra Pradesh (AP 10):**

		Shri B.P. Raturi, Dy.GM, MECL, presented the work carried out in the block and informed the committee that two samples in the area indicate anomalous concentration of copper i.e. 0.14% and 0.15%. The suggestions made by the committee are as follows: 1. Quality of map to be improved 2. Structural data density to be increased 3. Cognizance and integration of geological data of GSI 4. Delineation of shear/tectonic zone 5. Preparation of Legend in chronological order. **Sindurkhar and Saraipani Bauxite Blocks, Kabirdham (Kawardha), Chhattisgarh :** Shri B.P. Raturi, Dy.GM, MECL, presented the work carried out in the blocks and informed the committee of poor assay results of alumina in the area. The Chairman suggested to carry out REE analysis of Saprolitic/basal part of bauxitic horizons. The GR for the above two blocks is to be submitted after incorporating analyses of REE. MECL requested The report would be submitted by August 2017.
	09.01.04 Approval for time over run of NMET Blocks	**Ranigaon Gondiya Lime Stone:** The final report was to be submitted by April 2017. However, the drilling could be commenced in March 2017 instead of August 2016 due to harvesting season. MECL conveyed that the drilling work has been completed and chemical analyses are under progress. The final report of G3 level investigation would be submitted by November 2017. The decision of upgrading the level of exploration to G2 will be considered after appraisal of chemical analysis. The justifications submitted by MECL appears to be reasonable and therefore the time overrun is recommended. **Saraipani and Sendurkhar Bauxite Blocks:** As per the approval the GR was scheduled to be submitted in January 2017. The MECL has requested for extension of the timeline for submission of report due to delay in drilling and chemical analysis. The delay in work components was due to local issues and harvesting. The committee advised to analyze saprolite in the core samples for REE's and submit the report by August 2017. **Lanjera Phutala Manganese Block:** The work was to be initiated in August 2016 and report was to be submitted in June 2017. The mapping and surface sampling is completed. However, MECL conveyed that there is delay in initiation of drilling work due to delay in obtaining forest permission. Forest

		permission has been received in February 2017. Drilling work has commenced after obtaining of the permission. The progress of the project will be reviewed after drilling and analytical work. **Mandari Panchala Manganese Block:** The work was to be initiated in August 2016 and report was to be submitted in April 2017. The mapping and surface sampling is completed. However, MECL conveyed that there is delay in commencement of drilling work due to non-availability of forest permission which were received in January 2017. Drilling work is under progress. The progress of the project will be reviewed after drilling and analytical work.

Dr. L. S. Shekhawat, Dy. DG & RMH-II expressed the vote of thanks to all the participants.

The 9th Meeting of the Technical Committee of NMET ended with vote of thanks

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