MINUTES OF THE 11th TECHNICAL COMMITTEE MEETING OF NMET, HELD ON 25th SEPTEMBER, 2017 AT GSI, DGCO, NEW DELHI

The 11th meeting of the Technical Committee of the NMET was held on 25-09-2017 at DGCO, GSI, Pushpa Bhawan, Madangir Road, New Delhi, under the Chairmanship of Dr. Manoranjan Mohanty, Dy. Director General, GSI, RSAS Bangalore. Dr. Manoranjan Mohanty welcomed the members of Technical Committee and other participants from different Organisation. The members participated in the meeting are Shri H.N. Bawane, D.DG, GSI,N.M. II, Nagpur, Dr Joyesh Bagchi, Director (Technical), MoM, Shri Mushtaque HOD (Exploration), MECL, Shri S.K. Adhikari, CMG, IBM, Shri B. P. Raturi, Dy.GM, MECL, Shri J.V. Rama Rao, Director (Geophysics), GSI. Shri P. Tarafdar, Director, GSI, Shri Manish Khar, Director, GSI, Shri A. K. Shukla, Sr Manager (Geology), MECL Shri C. Partahasarathi, Suptdg. Geologist, GSI, N. M.II, Nagpur

The list of participants is annexed.

Chairman appraised the committee regarding proposals to be discussed in the meeting. He requested all the member participants from different organisation to give their introduction as some of the participant in the meeting are new. Detailed deliberations of the meeting are recorded as below:

11.01.00

11.01.01 The Chairman welcomed the participants and initiated the proceedings. He highlighted that the meeting is to discuss the Limestone proposals of DGM, Telangana and to review the proposal of RMMPL exploration block, NEB Range, Sandur Schist Belt, Karnataka.

Chairman advised MECL representative to present the proposal and agenda item wise.

11.01.02 Mr Mushtaque informed the Committee regarding the methodology to be adopted for taking up the Exploration work of Limestone blocks of DGM, Telangana as discussed with officials of GSI, Southern Region and DGM, Telangana. MECL will take up drilling of 2 boreholes for G-3 Level and DGM, Telangana will take up the work of drilling of G-2 level boreholes. MECL, will complete the sampling, analytical work and report preparation work in all the three Blocks.

Shri. B. P. Raturi, Dy G.M. (Exploration) presented the three proposals of Limestone exploration of District Suryapet, Telangana. These proposals were discussed in detail and the details of discussion of individual proposal is given below:-

11.01.03 **Limestone Exploration in Saidulnama Block, Nereducherla Mandal District –Suryapet, Telangana**

The area was studied in detail by the members of the committee and the boreholes were planned following guidelines of Minerals (Evidence of Mineral Contents) Rules, 2015 (MEMC) values of G2 stage investigations. A total nine number of boreholes were planned with a grid interval of 400 meters. Borehole points are PBH-1 to PBH-9. PBH-1 to PBH-6 can be drilled upto 20 meters and PBH-7 to PBH-9 can be drilled upto 30 meters depth as they are located in downdip direction.

As there is forest permission for a total six boreholes for three blocks (2 boreholes in each block), it is decided that two boreholes preferably (PBH-4 and PBH-7) may be drilled and the gap between them is almost 800 meters or a little more. So those two boreholes will help in estimation of resources following the guidelines of G3 stage.

11.01.04 **Limestone Exploration in Sultanpur Block, Mattampally Mandal, District –Suryapet, Telangana**

In block Sultanpur, a total seven number of boreholes were proposed to be drilled following the guidelines of G2 stage investigation. As there is forest permission of two boreholes, the borehole numbers 3 & 5 can be done now. The proposed boreholes PBH-1 to PBH- 4 can be drilled for 20 meter depth and 5, 6 & 7 can be drilled upto a depth of 30 meters as these are in down dip direction. However, if quartzite is intersected before attaining final depth, the boreholes may be closed.

Field party days for two Geologists for a total of six boreholes for three blocks will be 90 days or 180 man-days.

11.01.05 **Limestone Exploration in Pasupulabodu Block, Nereducherla Mandal, District –Suryapet, Telangana**

A total of 7 numbers of boreholes are planned for this block following the guidelines of G2 stage investigation.

Presently, two boreholes (4 & 5) can be drilled on permission received from forest department for 2. Borehole number 4 can be drilled upto a depth of 20 meters and borehole number 5 can be drilled upto a depth of 30 meters. Proposed borehole Number PBH-1, 2, 3, 4 & PBH-7 can be drilled upto 20 meters and number PBH-5 & 6 can be drilled upto 30 meters.

In case, limestone continues beyond a depth of 20 meters, drilling may be continued upto 30 meters. This is applicable for all the three blocks.

Sample length may be maintained as one meter along drill cores.

11.02.00 11.02.01 Review of G-4 Regional Exploration Blocks

Review of three Regional Exploration Blocks for taking up Geophysical Survey in two blocks and drilling work in one block was presented by Shri Ashok Kumar Shukla, Sr, Manager (Geology), MECL. The blocks were discussed in detail and the block wise observations are given below:-

11.02.02 **Regional Exploration (G-4 level) for Basemetals & associated Elements, Gold & REE in Kachola-Amargarh-Jhikri Area (WR Raj-05), in 88 sq. km. area District: Bhilwara, (Rajasthan)**

The area shows a two kilometers shear zone with malachite encrustation. Hence the entire stretch of two kilometers is proposed for surface geophysical investigation. Methodologies to be adopted MAG, SP, IP and Resistivity. The geophysical traverse lines will be 500 meters each with an interval of 100 meters across the strike.

To cover the other limb of the synformal fold traverse lines can be laid at 1250 meters each with a separation of 500 meters. Thus total 21 lines will be covered out of which four will be of 1250 meters and rest will be of 500 meters length. Station interval will be 10 meters along the traverse lines. Total stations would be 1371 in 13.50 cumulative line kilometers.

11.02.03 **Regional Exploration (G-4 level) for Basemetals & Gold in Vasu-Jagat-Kharwach & Saran-Bharwawat area (WR-RAJ-21) in 124 Sq Km Area, District: Udaipur, (Rajasthan)**

A one kilometer E-W trending zone has been identified to the western part of the area in BGC. The area shows quartzo-feldspathic vein in the quartzite and gneissic rock with anomalous copper values. A one kilometer E-W baseline will be laid with 500 meters traverse lines laid with uniform interval of 50 meters. Station intervals along traverse line may be maintained as 10 meters. A total 10.50 line kilometers is to be covered by ground geophysics employing Magnetic, SP, IP and Resistivity methods.

11.02.04 **Regional Exploration (G-4 level) for Basemetals in Iswal- Selu-Kathar-Tula (Thala) area (WR- RAJ-14) in 95 Sq. Km Area, District: Udaipur, Rajsamand, (Rajasthan)**

Area was taken up for searching base metals. Value of basemetals were not encouraging in the area. A north south trending zone of magnesite has been delineated along the contact of dolomite and phyllitic country rocks. The depth extension of the magnesite bodies is to be delineated. Therefore, 16 boreholes of 30 meters depth each as proposed by MECL on magnesite and four boreholes on dolomite body are recommended to assess the grade of dolomite to be qualify as blast furnace grade or not.

11.03.00 11.03.03 **Review of Proposal for Detailed Exploration for Estimation of Iron Ore reserves / resources in respect of M/S RMMPL (ML No.2010), NEB Range, Sandur Schist Belt, District: Ballari, Karnataka**

The RMML block has been mapped (geology & topography) by MECL. The committee has studied the map and decided the map the pattern of ore body, which doesn't warrant to be treated irregular shape inspite of the complexity of the structure, specially when the lithobands are clearly visible in the mine faces.

4000 meters NE-SW trending zone of iron ore bands occur with 70° to 80° dip towards south west. It is recommended to drill 33 boreholes. Initially, it may be done with an interval of 400 meters (Proposed Borehole No. PB-1, PB-2, PB-5, PB-7, PB-8, PB-11, PB-11, PB-12, PB-15, PB-18, PB-21, PB-22, PB-24, PB-25, PB-27, PB-28, PB-30, PB-31 & PB-33) followed by the infilling boreholes (Proposed Borehole No. PB-3, PB-4, PB-6, PB-9, PB-10, PB-11, PB-11, PB-13, PB-14, PB-16, PB-17, PB-19, PB-20, PB-23, PB-26, PB-29 & PB-32) to develop the block in G2 stage. Some of the boreholes to be given vertically on the iron ore band and some to be planned as angular borehole keeping in view of the geological requirement. Services of Surveyors are needed to locate the boreholes and RL connections.

It was decided earlier by the NMET Technical Committee that all proposals may be initially evaluated by Regional Committees before placing to the NMET Technical Committee.

After detailed discussions the Technical Committee decided that the Regional Screening Committee is not required for evaluation of proposals.

The DGM's/DMG's of different State Governments and other agencies preparing proposals through NMET funding are requested to send the proposals to NMET Secretariat, New Delhi and then will be sent for evaluation to Technical Committee of NMET through Member Secretary, Technical Committee. In case Technical Committee feels to evaluate the proposals separately it will be sent to the group of officers of GSI, MECL, IBM & Other Agencies.

MECL has informed that CMPDI is charging supervision charges/technical supervision charges.

The 11th Meeting of the Technical Committee of NMET ended with vote of thanks.

25/09/2017

(Maneesh Khar)
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25/9/17

(J.V. Rama Rao)
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(S.K.Adhikari)
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(H.N.Bawane)
Dy.Director General
GSI, NMH-II, Nagpur

25/9/17

(Mushtaque)
HoD (Exploration), MECL &
Member Secretary
Technical Committee of NMET

25.9.17

(Dr Manoranjan Mohanty)
Dy Director General GSI &
Member Technical Committee NMET (As Chairman)
RSAS, GSI, Bangalore
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Attendance Sheet

"11th Meeting of Technical Committee of National Mineral Exploration Trust (NMET)", DGCO,GSI, New Delhi. Date: 25.09.2017

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7	C. Parthasarathi Supdtg Geol, GSI, NM-II nagpur	NM-II, GSI, Nagpur.	25/9/17
8	I.V. Rama Rao Director (Geophysics)	Geophysics Division, GSI SR 9440691254 ramajammi@rediffmail.com	25/9/17
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