

Ministry of Mines
National Mineral Exploration Trust
Minutes of the 76th Technical-cum-Cost Committee-1 (TCC-1) meeting held on
30th April and 01st May, 2025 through video conferencing

The 76th meeting of the Technical-cum-Cost Committee-I (TCC-1) of the National Mineral Exploration Trust (NMET) was held via video conferencing under the chairmanship of Dr. S. Ravi, Deputy Director General (DDG), Geological Survey of India Training Institute (GSITI) and Chairman, TCC-1, NMET, on 30th April and 1st May, 2025.

Members of TCC-1, NMET and representatives from DGM Maharashtra, DMG, Karnataka, DGM Odisha, DGM, Chhattisgarh, GSI, MECL, IBM, CMPDI, OMC Ltd., Maheshwari Mining Pvt Ltd, Ecomen Mining Pvt. Ltd., Mining Tech Consultancy Services Limited (MTCS), Geo Marine Solutions Pvt. Ltd., Bhushilp Mines and Minerals Private Limited, Gemcokati Exploration Pvt Ltd, Kartikay Exploration and Mining Services Pvt. Ltd have attended the meeting through their respective VC modes.

The list of participants is enclosed in Annexure-1.

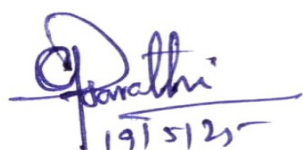
Shri C. Parthasarathi, Director, GSI and Member Secretary, TCC-1, NMET, welcomed Dr. S. Ravi, DDG, GSI and Chairman, TCC-1, NMET, Members of the TCC-1 and participants representing various Notified Exploration Agencies (NEAs) and Notified Private Exploration Agencies (NPEAs).

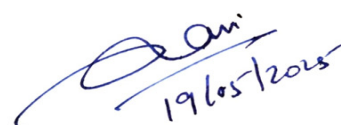
Dr. S. Ravi, Chairman of TCC-1, NMET, extended a warm welcome to all members of TCC-1 and participants representing various NEAs and NPEAs and conducted the proceedings as per circulated agenda. While welcoming the participants, the chairman suggested all the agencies to supply adequate technical inputs in the proposal and seek guidance if needed from the NMET. He further advised the official of NMET to assist the agencies whenever sought in preparation of proposals.

Agenda 76.1: Technical evaluation of new project proposals

Agenda 76.1.1. Preliminary Exploration (G3) for Manganese in Kawalewada Sakkardara Block, Tumsar Tahsil, Bhandara District, Maharashtra.
[Implementing Agency: DGM Maharashtra]

- a) The proposed block falls in Survey of India Toposheet No. 55 O/14 and exposes lithounits of Sausar Belt.
- b) GSI has carried out geological exploration in the area, identifying manganiferous horizons as detached lenticular bands along the contact between biotite gneiss and muscovite schist. Gonditic manganese ore was also observed in trenches and old pits, representing the eastern extension of the ore horizon from the Chikhala MOIL Mine.
- c) MOIL's Chikhala and Sitasaongi deposits lie on the northern range. While past mining occurred east of Chikhala, most of the 5 km ore zone is now inactive. The southern zone was mined near Sakkardara. The manganese ore in the proposed block is the eastern continuation of the Chikla Extension (MOIL) mine, itself an extension of the Chikla 'A' (Main) deposit. The main reef, originally 5–6 m thick, attenuates to about 1 m eastward, while in the proposed block, thickness ranges from 1.5 to 2.5 m. Workable ore mainly comprises secondary oxides, psilomelane and pyrolusite, found as thin, discontinuous lenses within the gondite.


19/5/25


19/05/2025

- d) DGM, Maharashtra informed that they conducted traverses along the east-west direction within the specified area and confirmed the association of manganese-bearing gondite with the Mansar Formation, particularly near old pits. Megascopic sample analyses revealed manganese content ranging from 35% to 45%.
- e) During the review, it was noted that Manganese Ore (India) Limited [MOIL] had been operating in the entire area. Therefore, it was considered necessary to verify whether MOIL had previously worked in, or intends to work in, the area. In response, DGM, Maharashtra informed that MOIL has surrendered the area. In light of this, the committee recommended obtaining formal comments from MOIL before making any decision on the matter.

Recommendations of TCC-1:

The committee decided to consider the proposal further only after obtaining comments from Manganese Ore India Limited [MOIL]

Agenda.76.1.2. Preliminary Exploration (G3) for Bauxite/Aluminous Laterite in area of village - Gudheghar, Tahsil - Mandangad, District-Ratnagiri, Maharashtra.

[Implementing Agency: DGM, Maharashtra]

- a) The proposed block falls in Survey of India Toposheet No. 47 G/1 and the entire area comprises AA type of lava flows of Deccan traps which are capped by lateritic formation underlain by bauxite with lithomargic clay at the base of laterite profile.
- b) During F.S. 2021–22, the DGM, Maharashtra, completed preliminary exploration in the Ambiwali-Kante block, situated approximately 2 km from the currently proposed area, and estimated bauxite and aluminous laterite resources as per existing norms.
- c) A recent field visit by DGM confirmed the presence of in-situ bauxite within the proposed area.
- d) The proposed area lies in close proximity to existing bauxite operations. The Gundeghar Bauxite Mine is located about 500 meters to the west of the proposed block, while the abandoned Sakhari Velas Bauxite Mine (Smt. S.D. Dhanwate) lies approximately 1 to 1.25 km further west. Both mines have been previously explored by the Geological Survey of India (GSI).
- e) The block lies entirely within GSI's ongoing regional level work over a larger area. However, the committee decided to recommend the proposal, as the Directorate of Geology and Mining (DMG), Maharashtra, has proposed to carry out preliminary exploration in a smaller, focused area.

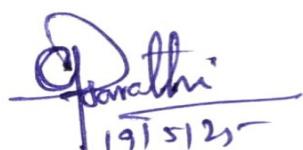
Recommendations of TCC-1:

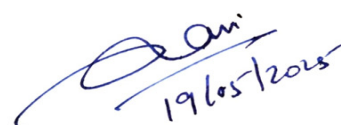
The committee recommended the proposal "Preliminary Exploration (G3) for Bauxite and Aluminous Laterite in Gundheghar Block, Ratnagiri, Maharashtra" for approval of EC with an estimated cost of ₹ 58.14 lakh (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexures - 2A & 2B. The item will be reviewed after 04 and 08 months.

Agenda.76.1.3. Preliminary Exploration (G3) for Limestone in Bhari area, Jiwati Tahsil, Chandrapur District, Maharashtra.

[Implementing Agency: DGM, Maharashtra]

- a) The proposed Bhari block belongs to Pengang Valley, Penganga Group Limestone and falls in Parts of toposheet no 56 M/2 & 56 M/3


19/5/25


19/05/2015

- b) During 1974-76, GSI identified limestone formations in the area with significant potential for cement-grade and blendable-grade limestone and in the Chedvai Limestone Block, a total of 164 million tonnes of cement-grade limestone reserves were estimated.
- c) Further exploration during the 1982-84 field seasons included the drilling of two test boreholes in the Bhari area, which confirmed the presence of both blendable and cement-grade limestone bands.
- d) Recently (2023-25), reconnaissance surveys carried out by the Directorate of Geology and Mining, Regional Office Chandrapur, and supported the mineral potential of the area. Analytical results from collected samples revealed CaO content ranging from 42.19% to 48.32%, MgO from 0.9% to 1.49%, and SiO₂ from 7.67% to 14.66%. In light of these findings and earlier exploration data, the Bhari Limestone Deposit is now proposed for G3 stage exploration.
- e) The committee expressed concern over the fact that part of the proposed area falls within reserved forest, as informed by the agency.
- f) The committee advised to modify the block boundary to exclude the highway on the eastern side. It was further directed that detailed mapping be carried out at 1:4000 scale.
- g) Additionally, the committee advised DGM to provide substantial evidences for proposing borehole in an area covered with alluvium for which the agency responded by saying that, in the adjoining area limestone has been proved below alluvium cover.

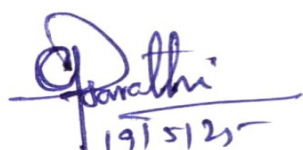
Recommendations of TCC-1:

The committee recommended the proposal "Preliminary Exploration for Limestone in Bhari Block, Chandrapur district, Maharashtra" for approval of EC with an estimated cost of ₹ 172.94 lakh (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure - 3A & 3B. The item will be reviewed after 04 months.

Agenda.76.1.4. Detailed Exploration (G2) for Bauxite/Aluminous Laterite in Byndoor block (2.1037 Sq. Km), Paduvari and Byndoor villages of Byndoor Taluk, Udupi District, Karnataka.

[Implementing Agency: M/s Ecomen Mining Pvt. Ltd.]

- a) The proposed area belongs to Paduvari Plateau and falls in the Survey of India Toposheet no. 48K/9. The block area comprises alluvium, hard ferruginous laterite, aluminous laterite, and bauxite, with significant portions covered by thick deposits of laterite and, in some areas, alluvium.
- b) Geological Survey of India (GSI) has carried out exploration in the area during FS: 1963-64, reported 38.52% to 53.16% Al₂O₃ and recommended systematic prospecting of the area to identify sizable patches of aluminous laterite from Byndoor to Bhatkal sector.
- c) Karnataka DMG has carried out preliminary investigation in the area during 1970s but the work lacks precise location data, making correlation with the current block unfeasible. Hence, the area is proposed for reassessment through G-2 stage exploration.
- d) M/S. Ecomen conducted recent field visit and collected bauxite/aluminous laterite samples which yielded 37.07-42.61% Al₂O₃. The Old working pits of about 5m depth, which is located in the western part of the proposed block, shows good exposure of Bauxite suggesting potentiality of bauxite mineralization in the area.
- e) The committee had detailed discussion on the appropriate stage of exploration and decided to execute the work in two phases. Phase-I will involve preliminary exploration and then Phase-II will proceed to G2 stage exploration.


19/5/25


19/05/2025

Recommendations of TCC-1:

The committee recommended the proposal “General Exploration (G2) for Bauxite and Aluminous Laterite in Byndoor Block, Udupi District, Karnataka” for approval of EC with an estimated cost of ₹ 225.47 lakh (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure - 4A & 4B. The item will be reviewed after 4 and 8 months.

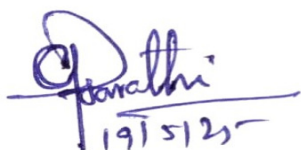
Agenda.76.1.5. Preliminary Exploration (G3) for Molybdenum in Mannadipatti South Block and Ponnaiyar North Block (total 4.75 sq. km area), Krishnagiri District, Tamil Nadu.

[Implementing Agency: MECL]

- a) Mannadipatti South Block and Ponnaiyar North Block form part of the Uttangarai sector of Harur Uttangarai Molybdenum Belt (HUB) located in the southeastern part of Krishnagiri District of Tamil Nadu and falls in the Survey of India Toposheet no. 57L/8.
- b) Reconnaissance exploration for molybdenum was carried out by GSI during Field Seasons 1998–2000 under an MoU with TAMIN (a Tamil Nadu state undertaking) in the Uttangarai sector which comprises several sub-blocks, namely Ponnaiyar North (PN), Mannadipatti South (MNS), Mannadipatti Central (MNC), Mannadipatti North (MNN), and Nochipatti (NP). Exploration has been conducted in different stages in these blocks by GSI.
- c) The Mannadipatti Central Block was kept for auction in the 1st tranche by the Ministry of Mines in 2023–24, but was annulled due to its small size and low resources. The MoM subsequently advised to amalgamate adjoining blocks for future auctions. Accordingly, the Central Block was handed over to GSI, while the South and Ponnaiyar North Blocks were assigned to MECL for further G2 stage exploration and block amalgamation.
- d) MECL informed the committee that Scout boreholes drilled in the Mannadipatti South and Ponnaiyar North sub-blocks of the Uttangarai sector intersected significant molybdenum mineralized zones, indicating strong potential for further exploration.
- e) Based on these developments, MECL has proposed to undertake G3 stage exploration in the Mannadipatti South and Ponnaiyar North Blocks.
- f) After a detailed review, the committee found that the mineralized body's thickness and grade were not very encouraging. However, considering the annulment of earlier blocks due to their small size, the committee decided to recommend the block for G3 stage exploration

Recommendations of TCC-1:

The committee recommended the proposal “Preliminary exploration (G3) for molybdenum in Mannadipatti South Block & Ponnaiyar North Blocks (4.75 sq.km.), Uttangarai Sector, Harur-Uttangarai Belt, District-Krishnagiri, Tamil Nadu” for approval of EC with an estimated cost of ₹ 799.63 lakh (including GST) within time schedule of 15 months for carrying out the proposed work and submission of report as per Annexure - 5A & 5B. The item will be reviewed after 06 and 10 months.


19/5/25


19/05/2025

Agenda.76.1.6. General Exploration (G2) for Graphite and Associated Minerals in Nagapuzha-Vadakhol Block (2.60 sq. km), Ernakulam District, Kerala.

[Implementing Agency: MECL]

- a) The Nagapuzha-Vadakhol Block comprises Precambrian metamorphic rocks belonging to the Khondalite-Charnockite Complex and falls in the Survey of India Toposheet no. 58C/9.
- b) GSI reported graphite occurrence in Nagapuzha during 1965-66 and has carried out further work in and around the area and a total of 5,050,938 tonnes with more than 3% F.C. cut off has been estimated in Vadakod area.
- c) The Kallookad Graphite Mine, inactive since 2017, has exposed graphite-bearing zones in laterite and kaolinized clay. Field evidence suggests that mineralization extends beyond the lease area, indicating potential for further exploration.
- d) Previous exploration by GSI yielded encouraging results, and the proposed area lies near the Kallookad Graphite Mine (M/s Thomson Graphite Mines & Crucible Works), with the graphite band extending to the block.
- e) After thorough review, the committee recommended planning boreholes judiciously, using GSI's level plan to determine the vertical depth of lode intersections. A marker lode should guide borehole placement, and resource estimation should be carried out sector-wise.

Recommendations of TCC-1:

The committee recommended the proposal "General Exploration (G-2) for Graphite and Associated Minerals in Nagapuzha-Vadakhol Block, District: Ernakulam, Kerala" for approval of EC with an estimated cost of ₹ 393.08 lakh (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure - 6A 6B. The item will be reviewed after 04 and 08 months.

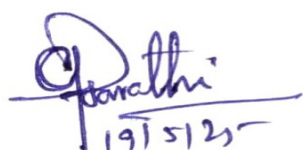
Agenda.76.1.7. Preliminary Exploration (G3) for Aluminous Laterite, Vanadium and Associated Minerals in Kodom Block (2.00 sq. km), Kasaragod District, Kerala.

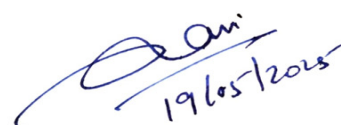
&

Agenda.76.1.8. Preliminary Exploration (G3) for Aluminous Laterite, Vanadium and Associated Minerals in Kallar Block (4.19 sq. km), Kasaragod District, Kerala.

[Implementing Agency: MECL]

- a) The proposed blocks, located in Survey of India Toposheet No. 48P/03, comprises mainly charnockites and pyroxene granulites of the Charnockite Group, intruded by younger granite gneiss of the Peninsular Gneissic Complex and numerous quartz veins.
- b) GSI conducted a reconnaissance survey during 1971-72 in parts of Kanhangad and Kasaragod taluks, Cannanore district, Kerala, and reported bauxite occurrences closely associated with laterite. Further investigations in and around the area confirmed the presence of laterite, bauxite, and clay.
- c) Subsequently, MECL carried out exploration (G-4 stage) in the Kasaragod East Block (291.00 sq km; Block-ID: SR-KRL-03) and identified high-alumina bauxite in isolated patches or lenses with irregular distribution. Bedrock samples also showed elevated concentrations of vanadium (up to 1,019.7 ppm), gallium (up to 46.7 ppm), and rare earth elements (REEs).


19/5/25


19/05/2015

- d) The proposed Kodom Block, (2.00 sq km) has been carved out from the larger Kasaragod East Block. Three bedrock samples from the area report vanadium (V) concentrations ranging from 355 to 745 ppm, gallium (Ga) between 23 to 37 ppm, and alumina (Al_2O_3) content from 22.7% to 27.8%. Additionally, five pit samples reveal Al_2O_3 values varying between 22.37% and 30.20%.
- e) Similarly, in the proposed Kallar Block, three bedrock and two pit samples showed vanadium values of 407–531.9 ppm, gallium 29.30–32.60 ppm, and alumina content of 26.94–30.64%.
- f) Based on these encouraging results reported by MECL, Kodom and Kallar blocks are proposed for G3 stage investigation.
- g) The committee noted that MECL's G4 map shows patchy laterite distribution with no clear demarcation of mafic/ultramafic rocks. Moreover, satellite imagery indicates dense vegetation. Random bedrock samples showed Al_2O_3 values of 25.46% (Kodom) and 28.96% (Kallar), indicating aluminous laterite.

Recommendations of TCC-1:

The committee did not recommend the proposals due to the lack of systematic data in G4 level and poor lithological clarity. It unjustifiable to recommend G3 exploration at this stage.

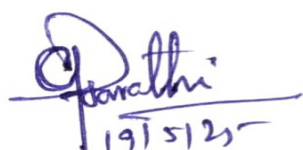
Agenda.76.1.9. Preliminary Exploration (G3) for Limestone in Dongargaon-Kasara Block (5.59 sq. km), Yavatmal District, Maharashtra.

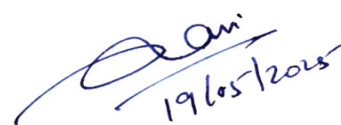
[Implementing Agency: MECL]

- a) The Dongargaon-Kasara Limestone Block, falling under Section 10(A)(2)(B) of the MMDR Act, 2015, lies in and around two lapsed limestone leases—M/s Taj Lime Industries (30.70 ha) and Shri Prabin Wamanrao Kasawar (41.00 ha)—in Dongargaon area. MECL has been requested by DGM, Maharashtra, to carry out exploration through NMET. The block is part of the Penganga Beds (Penganga Series) and falls under Survey of India Toposheet No. 56I/13.
- b) M/s Taj Lime Industries and Shri Prabin Wamanrao Kasawar conducted prospecting over 30.70 ha and 41.00 ha, respectively, in the Dongargaon area.
- c) Taj Lime Industries analyzed 5 samples from trial pits, reporting limestone resources of 3.75 MT with CaO: 31.18–57.07%, MgO: 0.77–23.13%, and SiO_2 : 2.82–5.18%.
- d) Kasawar analyzed 4 samples, estimating 4.25 MT of resources with CaO: 32.62–54.16%, MgO: 0.19–18.58%, and SiO_2 : 0.98–2.09%.
- e) Based on existing data and a field visit, MECL has proposed Preliminary (G-3) Exploration in the Dongargaon-Kasara Block to support the growing limestone demand.
- f) DMG, Maharashtra informed the committee that only 4.05 sq km of the proposed block area is available for exploration.
- g) After detailed review the committee agreed to recommend the proposal to EC for approval.

Recommendations of TCC-1:

The committee recommended the proposal “Preliminary Exploration (G3) For Limestone In Dongargaon-Kasara Block, District- Yavatmal, Maharashtra” for approval of EC with an estimated cost of ₹ 122.58 lakh (including GST) within time


19/5/25


19/05/2015

schedule of 10months for carrying out the proposed work and submission of report as per Annexure - 7A &7B. The item will be reviewed after 5 months.

**Agenda 76.1.10.Preliminary Exploration (G3) for Limestone in Dongargaon-Ruikot Block (4.34 sq. km), Yavatmal District, Maharashtra.
[Implementing Agency: MECL]**

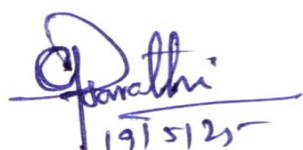
- a) The Dongargaon-Ruikot Limestone Block lies within the two expired limestone lease areas of M/s Taj Lime Industries (30.70 Ha) and Shri Prabin Wamanrao Kasawar (41.00 Ha), granted under Section 10(A)(2)(B) of the MMDR Act, 2015. DGM, Maharashtra, has requested MECL to conduct exploration in these lapsed lease areas (letter no. Tech/1848/2023/260, dated 23/01/2024).
- b) To the north of the proposed block, M/s Taj Lime Industries (30.70 Ha) and Shri Prabin Wamanrao Kasawar (41.00 Ha) have conducted prospecting and identified limestone, with CaO ranging from 31.18% to 57.07% in trial pit samples.
- c) MECL geologists visited the area surrounding the lapsed leases, collected geological data, and identified potential exploration zones. Two samples collected yielded 36.84–38.09% CaO, 13.00–13.13% MgO, and 2.46–3.94% SiO₂
- d) As DMG, Maharashtra informed that they could not verify the overlapping issue, hence the committee decided to review the item after getting comments from DGM, Maharashtra.

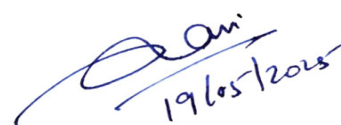
Recommendations of TCC-1:

The committee will review the item after obtaining comments from DGM, Maharashtra.

**Agenda 76.1.11.Preliminary Exploration (G3) for Nickel (Ni), Chromium (Cr) & Rare Metals (RM), Vemula area, YSR (Kadapa) District, Andhra Pradesh.
[Implementing Agency: MTCS]**

- a) The proposed area falls in SOI toposheet no 57J/7 and it belongs to Lower Cuddapah. The item was given in-principle approval for the item during 74thTCC-1 meeting.
- b) The NGCM of GSI indicated copper values of 61-104 ppm in 19 composite samples near Midipenta and Rachigaripalle, along with elevated nickel (14-406 ppm) and chromium (up to 774 ppm) values near Vemula. In addition to these, few good values of V and Sc were also reported.
- c) A G4-level reconnaissance survey (FS 2019–20, FS 2020–21) around Rachigaripalle reported nickel (430 to 1000 ppm in BRS and 88 to 965.8ppm in PCS) and chromium (440 to 800ppm in BRS and 122.1 to 2959.24ppm in PCS) within differentiated gabbro near Vemula.
- d) Previous gravity and magnetic surveys in the area by GSI indicated presence of ferromagnesian minerals in the area.
- e) The item was presented in 74th TCC-1 meeting and after detailed review, the committee found the area to be promising for Ni, Cu, and Sc mineralization and advised the agency to conduct a field visit, collect samples from areas not previously explored by GSI, analyze them, and present a DPR with the analytical data.
- f) The committee reviewed the DPR in 76th TCC-1 meeting and agreed to recommend the proposal, advising that the drilling component to be fixed judiciously after review of phase-I work.


19/5/25


19/05/2025

Recommendations of TCC-1:

The committee recommended the proposal “Preliminary Exploration (G3) for Nickel, Chromium & Rare Metals in Vemula Block, YSR (Kadapa) District, Andhra Pradesh” for approval of EC with an estimated cost of ₹ 480.33 lakh (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure - 8A & 8B. The item will be reviewed after 6 and 10 months.

76.2 Project Evaluation for In-Principle Approval

**Agenda 76.2.1.Preliminary Exploration (G3) for limestone in Illupaiyur block, Ariyalur District, Tamil Nadu
[Implementing Agency: Geomarine solutions]**

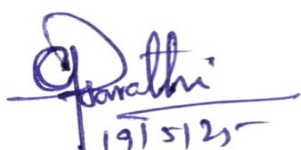
- a) During 1983–89, GSI explored limestone deposits in Ariyalur and Perambalur taluks (erstwhile Tiruchirappalli district), reporting CaO content of 45–55%, indicating cement-grade quality. In 1984–85, GSI reassessed limestone in Ariyalur taluk and estimated 68.3 million tonnes with CaO >45% and MgO <0.1%.
- b) During 1975–88, DGM conducted multi-phase investigations in Ariyalur on behalf of TANCEM, assessing reserves both quantitatively and qualitatively. In 2018–19, GSI carried out G2 stage investigation in Puthuppalayam and Periyathirukonam blocks, estimating 81.3 million tonnes of cement-grade limestone (average CaO 49%), confirming its suitability for cement industries
- c) According to IBM (2019), 75 limestone quarries (both mechanized and non-mechanized) were operational in Ariyalur district. However, many have ceased operations due to factors such as expired licenses and misconceptions about deposit characteristics stemming from inadequate geological inputs.
- d) Based on the available geological records and reports of GSI and DGM, the present proposal for the Illupaiyur block in Ariyalur district aims to assess and explore the hidden resources of industrial-grade limestone in the northeastern part of Ariyalur, Tamil Nadu.
- e) The committee observed that 60% of the proposed block falling outside the limestone band shown in the 50K geological map. However, Geomarine Solutions stated that limestone exposures are present on the eastern side. Additionally, comments from the CGM, Tamil Nadu, on the proposal are still awaited.

Recommendations of TCC-1:


The committee decided to take a final decision on this item after receiving comments from the CGM, Tamil Nadu. However, the committee recommended that Geomarine Solutions may submit the proposal in the forthcoming TCC-1 meeting, without seeking in-principle approval at this stage.

**Agenda 76.2.2.Reconnaissance Survey (G4) for Tungsten in Jashpur area, Balod District, Chhattisgarh
[Implementing Agency: Bhushilp Mines and Minerals Private Limited]**

- a) The proposed area forms a part of SOI toposheet no. No. 64N/15.
- b) GSI worked for Tungsten (Scheelite) in parts of Jashpur and Dharamjaygarh Tehsil, Raigarh District, in the year 1989-1990 in parts of Toposheet number 64N/15 and reported sporadic occurrences of tungsten (scheelite) in an area of about 15km length between Lawakera in the east and Dumaria in the west. The



Geomarine
19/5/2015



19/05/2015

scheelite bearing veins, attaining a maximum thickness of 1m also reported in Junwain. The surface data have given the encouraging results. Scheelite occurs mostly within microcline syenite veins and tourmaline veins.

- c) Based on the previous working, four zones have been identified: a. Junwain area: ten trenches have been excavated, W ranges between 0.01 to 6.65%. b. Dumaria area: Range of WO_3 -0.0040 to 0.0140% c. Kokia Nala (Daltoli) area: 0.1512 to 0.4662%, d. Lawakera Village: W value ranges between 150 ppm-1.08%.
- d) Based on previous data, the G4 stage item has been proposed in Jashpur area.
- e) After a detailed review, the committee noted that the proposed area overlaps with two of GSI's ongoing items; however, the specific commodity being explored by GSI is not clear. Additionally, DGM, Chhattisgarh informed the committee about the possible local issue in the area. Consequently, the committee instructed that clearance is to be obtained from GSI and detailed comments be sought from DGM, Chhattisgarh.

Recommendations of TCC-1:

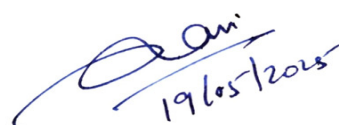
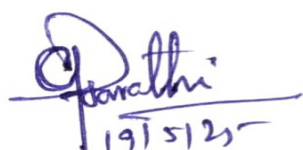
The committee recommended Bhushilp to resubmit the item again for in-principle approval.

Agenda 76.2.3.Preliminary Exploration (G3) for Iron Ore, Gidhali-Chiklakasa block, Balod District, Chhattisgarh [Implementing Agency: Bhushilp Mines and Minerals Private Limited]

- a) The proposed area forms a part of SOI toposheet no. No. 64H/2.
- b) GSI conducted a G4 stage survey for iron ore in the Gidhali–Chiklakasa–Putarwahi area, Balod district, Chhattisgarh, identifying eight BIF bands. Among these, two prominent and continuous bands were noted—one near Gidhali (NW–SE) and another near Kokan (NNE–SSW). Of 170 BRS samples analyzed, only 34 showed Fe over 35%, while the rest were below the threshold limit. Silica content was consistently high across all samples, ranging from 19% to 84% SiO_2 .
- c) In the Jhamni–Shikaritola block, 10 out of 14 samples showed Fe (total) content above 30%, with a maximum of 41.78%. In the Konkan iron ore block, 10 samples also recorded Fe (total) values above 30%, with the highest reaching 49.59%.
- d) The committee advised Bhushilp to modify the block boundary to avoid the railway line passing through it. The committee also recommended to plan five boreholes, with only one located in the northwest direction. explored by AMD for Uranium and reported with U above the threshold values.

Recommendations of TCC-1:

The committee did not recommend the item for the approval of EC, however suggested BMMPL to prepare and submit a Detailed Project Report (DPR) for one of the two proposed for discussion again.



76.3 Technical Evaluation of Procurement Proposals

Agenda 76.3.1. Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities (Procurement of Deep Seismic Reflection Survey (DSRS) Equipment for capacity augmentation).

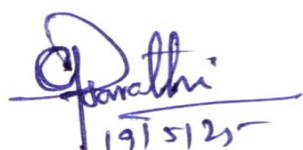
[Implementing Agency: MECL]

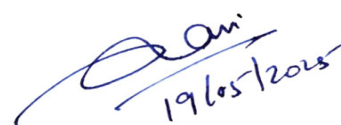
- a) Highlighting the importance of role of deep seismic reflection surveying in augmenting the mineral exploration technique, MECL proposed purchasing of 03 DSRS system vibrators along with other peripherals for an estimated amount of Rs. 54.39 crores (Rs. 46.39 crores for imported items + Rs. 8.0 crores for Indian items).
- b) MECL highlighted that this technique is important in revealing hidden structures and potential ore deposits beneath the Earth's crust.
- c) The details of the proposal are as given below:

Proposed Budget for DSRS

A) Imported Items				
S.No	Item Description	Quantity	Imported items Cost (Rs)	Estimated Cost (Rs)
1	DSRS System Vibrators	3	202564890.00	202564890.00
2	DSRS Recording System 1500 Channels	1	112960775.76	112960775.76
3	Insurance Charges		1262102.66	1262102.66
4	Transport Charges		12350000.00	12350000.00
5	CIF Value (1 to 4)			329137768.42
6	1% Landing Charges on CIF			3291377.684
7	Customs Duty @ 7.5% on (5+6)			24932185.96
8	IGST Charges @ 18% on (5+6+7)			64325039.77
9	Social Welfare Surcharges @ 10% on (5+6+7+8)			42168637.18
	Total			463855009.02

B) Indian / Local Items				
S.No	Item Description	Quantity	Local items Cost (Rs)	Estimated Cost (Rs)
1	Recording Truck, 5KV, 10 KV generators, Mesa Software	1	31337544.00	31337544.00
2	Processing & Interpretation Software	1	25000000.00	25000000.00
3	CAMC Charges for 2 years After completion of Warranty	2	10347792.00	10347792.00
4	Insurance Charges			125350.17
5	Transport Charges			1000000.00
6	Value (1 to 5)			67810686.17
7	GST 18% on 6			12205923.51
	Total			80016609.68


19/5/2015


19/05/2015

- d) Upon review TCC-1 enquired and asked MECL to deliberate on the following lines
- Organization that is likely to be benefitted or utilize this technique for exploration.
 - Capital needed for use and maintenance of these instruments.
 - Road map of utilization of DSRS instrument for acquisition of deep seismic data if yes please submit geological domain, mineral system etc.
- e) The Committee concerns on judicial utilization of these instruments, once purchased. Further, the committee was not convinced about the capital needed for use and maintenance of these instruments and opined that the MECL should present more data-based model in terms of ROI (return on investment). MECL should also present the program highlighting the utilization of this survey in initial ten years.

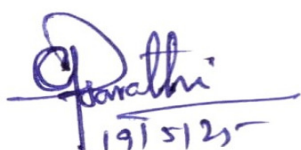
Recommendations of TCC-1:


The TCC-1 recommended MECL to resubmit the proposal by adhering the comments, concerns and substantial actions mentioned above.

**Agenda 76.3.2.Proposal for undertaking Geo-chemical Analysis of Mine samples.
[Implementing Agency: IBM]**

- a. Consequent to constitution of National Critical Mineral Mission (NCMM) on 29.01.2025 and announcement of Hon'ble Union Finance Minister to bring out a policy for "recovery of critical minerals from tailing" on 01.02.2025, IBM proposed a National Project to create a reliable national level geochemical data base of all the mines and identify possibilities of Critical minerals in mine waste.
- b. IBM proposed to undertake systematic collection of mine dump (including Red mud, Mine overburden, Mine tailings and Metal slag) samples and their chemical analyses.
- c. As per proposal 290 mines and 50 processing plants are targeted, with an average collection of 10 samples from each. As such a target of 3400 samples are set (2900 mines + 500 processing plant samples). A total of 3740 samples (3400 samples+ 340 check samples) to be analysed.
- d. Out of 3740, 400 samples are proposed to be analyzed at IBM and the rest will be out sourced.
- e. The details of proposal are as follows:

S. No.	Target Sites	No. of Samples to be generated
1	Mines	2900
2	Processing Plants	500
	Sub total	3400
3	Check Samples (10%)	340
4	Total Samples	~ 3740
5	Sample proposed to be analyzed at IBM	400
6	Proposed to be outsourced (required financial assistance)	3340


19/5/25


19/05/2025

- f. The committee instructed that all samples must be analyzed under similar specifications. The analysis should be done by labs following similar standards for any particular method. The committee also suggested that analysis should be done in discussion with IIT-ISM, Dhanbad, which is planning to carry similar studies.

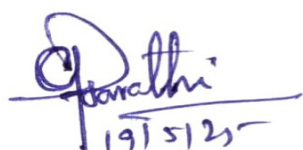
Recommendation TCC

The TCC-I recommended financial assistance of Rs. 1280.49 lakhs (Rupees Twelve crore Eighty Lakhs Forty Nine Thousand) from NMET for analysis of 3340 samples as given at Annexure 10A & 10B.

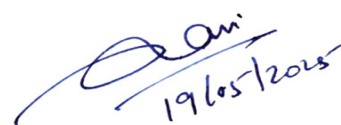
Agenda 76.3.3. Proposal for requirement gathering cum preparation of SRS Design, development and deployment of Next Generation Portal (Portal-NG) of GSI, migration of legacy data of OCBIS Portal

[Implementing Agency: GSI]

- a) GSI informed that the Online Core Business Integrated System (OCBIS) has been in operation since Field Season (FS) 2016-17. with M/s Accenture Solutions Pvt. Ltd as the Implementation Agency (IA) for Development, implementation, Operation and Maintenance (O&M) of OCBIS business modules. The (O&M) phase of M/s Accenture Solutions Pvt. Ltd. as IA was first extended up to 28.02.2026 with the condition for GSI to develop Next Generation Portal (Portal-NG) by Bhaskaracharya National Institute for Space Applications and Geo-informatics (BISAG-N).
- b) In accordance to the same, GSI presented their proposal to engage Bhaskaracharya National Institute for Space Applications and Geo informatics (BISAG-N) as System Integrator (SI) and Implementation Agency (IA) for preparation of SRS document and development of Portal-NG of GSI as well as O&M for 3 years after Go-Live.
- c) GSI informed that OCBIS has provided GSI the firm platform for furthering its organizational IT enablement process. However, a lot of technological development has taken place in recent years. The National Geospatial Data Repository (NGDR) has already been developed by BISAG-N and is being administered by GSI. Furthermore, lot of application like eHRMS, SPARROW, CPGRAMS, RTI online, PFMS etc. have been developed by NIC, which have been adopted by various Ministries and Central Government Departments. Hence, GSI wants to adopt the next level of high-end IT tools and practices including data analytics as followed by global geological survey organizations.
- d) GSI apprised that the Next Generation GSI portal will be essentially a FSPMIS based system with other supporting applications like Laboratory Management System (LMS), Drilling Management System (DMS), Vehicle Management System (VMS), etc.



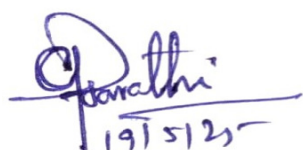
G. Parathi
19/5/25



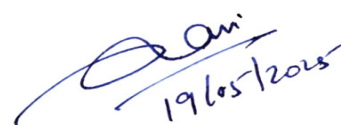
A. Anil
19/05/2015

- e) In view of the above, GSI proposed approval of NMET for preparation of SRS document, Design, development and deployment of Next Generation Portal (Portal-NG) of GSI. GSI informed that this project includes migration of legacy data of OCBIS Portal, Go-Live of Portal-NG in one year and Operation and maintenance (O&M) of Portal-NG for next 3 years after Go-Live” by BISAG-N with timeline for development and complete migration of data is decided to be done by 31st May 2026.
- f) GSI informed that approval was received from Ministry of Mines in this regard vide letter dated 08.04.2025. Further, GSI presented their timeline and costing for the proposed procurement as given below:

Milestone	Activities	Timeline	Milestone-wise Cost (Exclusive of GST)	Payment mode
M1	1. Detailed Study, requirement gathering & Documentation 2. Designing of various modules and preparation of SRS document	T0+ 3 Month	₹ 2 Crore	After completion of Milestone
M2	Development of applications And Technical Infrastructure	T0+ Till 28/02/2026 (Go-live date)	₹20.94Crore*+ 5Crore(Technical Infra#)	After completion of these Milestones (M2-M5)
M3	Migration of Legacy Data			
M4	Testing and Go-live			
M5	Testing post Go-live and Development of remaining Applications/modules	T0+12Months @		
M6 (Y1toY4)	Cloud Infrastructure	T0+48months (1 year development phase till 31/05/2026+3 Years O&M)	Estimated Cost ₹ 8 Crore/year=₹32 Crore (or will be charged as per actual)	At the beginning of each year from T0 (Y1to Y4)



19/5/25



19/05/2025

M7(Q1to Q12)	Adaptive changes/ Change management	T13+36 Months	₹1.8Crore(Estimated, however will be charged as per actual)	After completion of each changes
M8(Q1to Q12)	Maintenance and Support (3Years)	T13 +36 Months	₹4.08 Crore*3 = ₹ 12.24Crore	Quarterly after M5
M9(Q1to Q12)	Help Desk (3Years)	T13+36Months	₹1.08 Crore*3 = ₹ 3.24 Crore	Quarterly after M5
M10(Q1to Q16)	Travelling & Accommodation (4Years)	T0+ 48Months	₹4 Crore	Quarterly from T0
(Q1to Q16)	Maintenance of devices being used at Data Center (DC) at Dharitri building	T0 + 48 Months	₹ 10 Lakh * 4 = 40 Lakh	At the beginning of each year from T0 (Y1 to Y4)
Total Cost			₹ 81.62 Crores (Exclusive of GST)	
			Tax as on 10/11/2024 is 18%	
			₹ 81.62 Crore + 18% = ₹ 96.31 Crore	

If, T0 may be considered from 01/06/2025,

Then, first year (Y1) may be considered from 01/06/2025 to 31/05/2026;

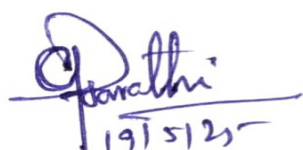
2nd year (Y2) may be considered from 01/06/2026 to 31/05/2027;

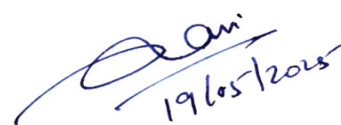
3rd year (Y3) may be considered from 01/06/2027 to 31/05/2028;

4th year (Y4) may be considered from 01/06/2028 to 31/05/2029

Technical Infra includes the hardware (Laptop/Desktops, Mobile Devices, Tab) to be procured for the development.

After Go-live, the quarter from 1st March, 2026 to 31st May, 2026, BISAG-N will also carry out adaptive changes, trouble-shooting related to Portal-NG and O & M.


19/5/25


19/05/2025

g. The TCC-1 opined that establishment of Portal-NG will enable GSI in efficient monitoring of its exploration activities and formulating quality programmes of Mineral exploration particularly for Critical Minerals. The committee also suggested to omit the module which may already exist in NGDR portal. In view of the same the committee agreed to recommend the proposal for approval of EC.

Recommendations of TCC-1:

The TCC-1 recommended the proposal to EC for “ Requirement gathering cum preparation of SRS, Design, development and deployment of the Next Generation Portal (Portal-NG) , migration of legacy data of OCBIS portal, Go-Live for Portal-NG and O & M of Portal NG “ at a total cost of ₹ 96.31 Crores only (including applicable taxes) with timeline of 4 years, i.e. 01 year for development (from 1st June 2025 to 31st May 2026) + 03 years of O&M of portal-NG (from 1st June 2026 to 31st May 2029)

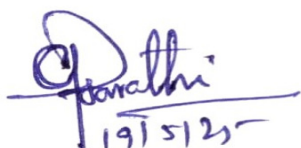
76.4 Review of Ongoing Procurement Project & Timeline Extension


Agenda 76.4.1.Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities
[Implementing Agency: DMG Karnataka]

DMG Karnataka did not present the item

Agenda 76.4.2.Multi-sensor aero-geophysical surveys over blocks 7 & 9 (extension of project contract timeline of NAGMP Blocks 7 & 9)
[Implementing Agency: GSI]

- a) RSAS, GSI, Bengaluru, informed the committee that the Block-9 project was approved during the 14th EC Meeting held on 9th November 2019, with an approved cost of INR 2,35,37,487/-. Additionally, the Block-7 project received approval in the 31st EC Meeting held on 12th September 2023, with approved cost of INR 35,74,52,623/-.
- b) Furthermore, Secretary, Mines & Chairperson, EC approved the timeline extension over Obvious Geological, Potential (OGP) Block 7 & Block 9 upto 30th June 2025 and accordingly, OM was issued on 17.08.2023.
- c) A consortium of M/s Xcalibur McPhar Private Limited (formerly known as M/s McPhar International Private Limited) in consortium with M/s Xcalibur Aviation (Australia) Pty Ltd, subsidiary company of Xcalibur Multiphysics Group S.L., Spain and M/s Geovale Services Pvt. Ltd., India was awarded Project Implementing NAGMP Blocks 7 & 9 MoA was signed on 11.08.2023 for Block-7 and 03.08.2023 for Block-9 with contract validity of both NAGMP blocks till 31.03.2025.
- d) The PIA has assured to complete the data acquisition over Block 7 & 9 by May, 2026 in eleven months. Further, seven additional months are required to complete the data processing, compilation, interpretation, integration & submission of final deliverables and three more months for reviewing & acceptance by GSI.


19/5/25


19/05/2025

- e) In view of the above, The PIA, M/s. Xcalibur McPhar Private Limited of NAGMP Blocks-7 & 9 had submitted a letter to RSAS, GSI on 01.04.2025 and 09.04.2025 with request for the extension of contract timeline for 21 months from 01.07.2025 to 31.03.2027. and the detailed break up of timelines for completion of the project are furnished as below:

Detail of the work	Timelines	Justification
Mobilization and completion of data acquisition & demobilization of aircrafts	11 Months (July, 2025 to May, 2026)	M/s Xcalibur intend to commence the data acquisition in October 2025 and complete all phases of the project as per the timeline mentioned.
Data Processing, compilation, final processing, integration & interpretation and submission of final deliverables and final reports.	7 months after completion of data acquisition (June, 2026 to December, 2026)	
Reviewing and approval of all final deliverables and report by GSI	2 Months (January, 2027 February, 2027)	
Final review and acceptance by GSI	1 month (March, 2027)	

Recommendation TCC -1

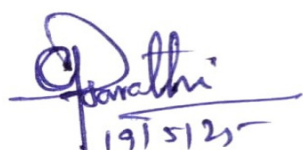
The TCC-1 recommended for extension of project timeline of Multi-Sensor Aero-geophysical Survey over Obvious Geological Potential OGP) Block 7 & 9 from 01.07.2025 to 31.03.2027 i.e. 21 months with effect from the issue of the Extension order without any financial impact for the successful completion of the aero-geophysical survey project by the PIA of NAGMP Blocks 7 & 9.

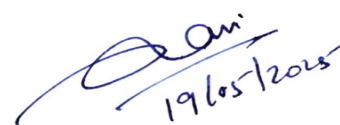
76.5 Review of Ongoing Projects/ Completed Project & Timeline Extension

Agenda 76.5.1.Preliminary Survey (G3) for graphite in Lamer-Panga Block-A (13.99 sq. Km) in Kalahandi district of Odisha.

[Implementing Agency: OMC]

- OMC informed that the project was approved in the 27th EC Meeting held on 10th January, 2023. The sanction order was issued on 3rd February, 2023 with timeline of 16 months and approved cost was INR 2,32,65,315/-.
- TCC-1 was informed that time extension upto 31st March, 2025 was approved in 73rd TCC-1 Meeting held on 30th January, 2025 for final submission of Geological Report.
- OMC informed that the GR has been peer reviewed and all the recommendations/suggestions have been complied with a total of 3098039 tonnes or 3.098 million tonnes with an average 6.67 % FC of Inferred mineral resource (333) of graphite has been estimated by Cross Sectional Area method.
- OMC requested for final submission of GR and an extension upto 15th May 2025 was sought for the same.


19/5/25


19/05/2025

- e. However, the committee was not satisfied with the completed work. The BH plans and LV sections were found to be unsatisfactory and hence showed their apprehension about the calculated resource. The committee instructed that all the comments received in peer review should be attended properly.

Recommendations of TCC-1:

The TCC-1 recommended 02 months' extension, upto 31.05.2025 for final GR submission after incorporation of comments of TCC-1 and peer reviewer's comment.

Agenda 76.5.2.Preliminary exploration (G3) for Gold in Dimirimunda Block (5 Sq. Km), District: Keonjhar, Odisha.

[Implementing Agency: OMC]

- OMC informed that the project was approved in the 31st EC Meeting held on 12th September, 2023. The sanction order was issued on 05th October, 2023 with timeline of 12 months and approved cost was INR 2,01,98,905/-.
- OMC apprised that time extension upto 31st March, 2025 was approved in 73rd TCC Meeting held on 30th January, 2025 for final submission of Geological Report.
- OMC informed that the Geological Report (G-3) is prepared, Peer reviewed, modified as per scrutiny. The amount approved in the revised cost sheet is completely utilized. OMC requested for 1.5 months' time extension for submission of GR
- The committee agreed for GR submission by 15th May 2025.

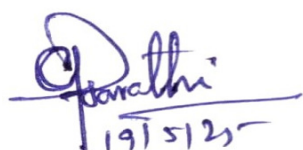
Recommendations of TCC-1:

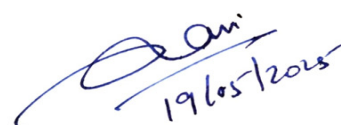
The TCC-1 recommended for 1.5 months of time extension upto 15th May, 2025 for final GR submission to NMET.

Agenda 76.5.3.Preliminary exploration (G3) for Iron ore in Madhyapur Block (6.5 Sq.Km), District: Keonjhar, Odisha.

[Implementing Agency: OMC]

- OMC informed that the project was approved in the 32nd EC Meeting held on 06th December, 2023. The sanction order was issued on 15th December, 2023 with timeline of 12 months and approved cost was INR 1,97,07,639/-.
- OMC informed that time extension upto 30th April 2025 was approved in 73rd TCC Meeting held on 30th January, 2025 for final submission of Geological Report.
- OMC apprised that Geological mapping in the Madhyapur block was carried out on 1:4000 scale covering 6.5 sq. km of area. OMC informed that as per field observations and data integration studies involving Geology, Geophysics and Geochemistry, the study area was found to be of barren w.r.t. Iron Ore mineralization.
- OMC also informed that GR is peer reviewed. Modifications as per reviewer's comments attended and is ready for submission.
- In view of above the committee agreed for time extension upto 15 May 2025 for submission of GR


19/5/25


19/05/2025

Recommendations of TCC-1:

The TCC-1 recommended 15 days of extension upto 15th May, 2025 for GR submission. The cost of the project revised from 197 lakh to 22.14 lakh (Annexure 9)

Agenda 76.5.4.Reconnaissance survey (G4) for Manganese around Kandhal area of Rairakhol Tahasil of Sambalpur District, Odisha.

[Implementing Agency: DMG, Odisha]

- a) DMG Odisha informed that the project was approved in the 38th EC Meeting held on 29th November, 2024. The sanction order was issued on 13th December, 2024 with timeline of 10 months (up to 12.10.2025) and approved cost was INR 73,94,658/-.
- b) DMG Odisha presented the progress of work and informed that Mn content in the analysed samples is very good, but the main issue is continuity of band.
- c) DMG Odisha informed that forest clearance is under progress and will be available soon. DMG Odisha, however, informed that for drilling approachable road needs to be constructed, while the quantum of drilling component is only 200 m. DMG Odisha requested to drop the drilling component and add geophysical studies in the work component.
- d) The Committee opined, that if drilling is to be dropped, then pitting and trenching quantum to be increased to trace the Manganese band.
- e) Upon review, the TCC-1 felt, as the project period is still on, DMG, Odisha has been advised to explore the possibility for accomplishing drilling target.

Recommendations of TCC-1:

The TCC-1 recommended that quantum of pitting and trenching along with BRS analyses to be completed first. The project will be next reviewed in August, 2025.

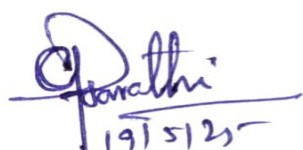
Agenda 76.5.5. Preliminary Exploration (G3) for Limestone in Malkhed-1 North, Malkhed-1 South, Malkhed-2 North and Malkhed-2 South Blocks (over an extent of 18.02 sq. km), Gulbarga District, Karnataka

[Implementing Agency: MECL]


- a) MECL informed that the project was approved in the 37th EC Meeting held on 23rd September, 2024. The sanction order was issued on 22nd October, 2024 with timeline of 06 months (up to 21.04.2025) and approved cost was INR 1,21,84,885/-.
- b) MECL informed that drilling commenced on 06.02.2025 and completed on 03.04.2025. The report work is under progress and Sought extension upto 30.06.2025 for GR submission after Peer Review.
- c) The Committee agreed for Peer Review of the GR and timeline upto 30th June 2025.

Recommendations of TCC-1:

The TCC-1 approved 2.5 months extension upto 30th June 2025 for GR submission.



G. Parathi
19/5/25



A. Anil
19/05/2025

**Agenda 76.5.6.Preliminary Exploration (G3) (Phase-1) for Gold in Kudrekonda Area
(by Geophysical Survey, Devangere District, Karnataka
[Implementing Agency: MECL]**

- a) MECL informed that the project was approved in the 33rd EC Meeting held on 19th February, 2024. The sanction order was issued on 27th February, 2024 with timeline of 12 months (up to 26.02.2025) and approved cost was INR 2,44,68,583 /-.
- b) MECL informed that Geological mapping (1:2000 scale) over 2.74 sq.km. & surface sampling work (30BR) were completed on 15th Aug, 2024. Ground Geophysical survey work comprising of Electromagnetic survey (TDEM), 360 soundings and MT survey on 36 stations has been completed. However, Deep I.P. Survey (30 Lkm) could not be initiated due to strong objections raised by local people.
- c) MECL apprised that given the prevailing hostility and the potential risk to personnel safety, the Assistant Commissioner, Tahsildar, and Senior Geologist (DMG Karnataka) have advised MECL to surrender the block, citing the possibility of life-threatening incidents during further fieldwork.
- d) MECL informed that under present circumstances, no further work can be carried out and at present, MECL suspends further investigation in the area.
- e) MECL requested for extension of timeline for submission of report by 26th June, 2025.
- f) The TCC-1 noted the limitations in the project and agreed for closure of the project after submission of GR. The Committee also asked to submit the revised cost sheet during the final review of the project

Recommendations of TCC-1:

The TCC-1 agreed for closure of the project, revise the cost sheet and submit the GR. The committee also recommended 1 month time line extension upto 25.06.2025 granted.

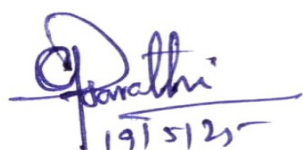
Agenda 76.5.7.Reconnaissance Survey (G4) for coal in West of Ghugus & Bellora, Wardha Valley, Coalfield, Yavatmal, Maharashtra.

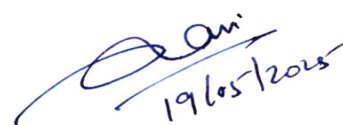
[Implementing Agency: CMPDI]

- a) CMPDI informed that the project was approved in the 27th EC Meeting held on 10th January, 2023. The sanction order was issued on 3rd February, 2023 with timeline of 12 months and approved cost was INR 2,15,76,661/-.
- b) The project was reviewed in 75th meeting of TCC-1 and the committee suggested for pre-closure of the project and time extension up to 30th April 2025 for GR submission citing the unavailability of FC and local issue for drilling.
- c) CMPDI apprised that GR has been peer reviewed and the comments had been complied with. CMPDI sought approval of committee for final submission of GR.

Recommendations of TCC-1:

The TCC-1 agreed for final submission of GR.


19/5/25


19/05/2025

Agenda 76.5.8.Preliminary exploration (G3) for Limestone in Rupapeth Block, Chandrapur district, Maharashtra

[Implementing Agency: Gemcokati]

- a) Gemcokati informed that the project was approved in the 35th EC Meeting held on 16th May, 2024. The sanction order was issued on 10th June, 2024 with timeline of 10 months (up to 09.04.2025) and approved cost was INR 95,99,632/-.
- b) Gemcokati informed that the GR is peer reviewed and reviewer's comments have been attended.

Recommendations of TCC-1:

The committee agreed for GR submission by 30th June, 2025.

Agenda 76.5.9.Reconnaissance Survey (G4) for Iron Ore in Arewada –Hitapadi Block (27 sq km), District: Gadchiroli, Maharashtra

[Implementing Agency: Gemcokati]

- a) Gemcokati informed that the project was approved in the 38th EC Meeting held on 29th November, 2024. The sanction order was issued on 6th January, 2025 with timeline of 06 months (up to 05.07.2025) and approved cost was INR 16,57,688/-.
- b) Gemcokati apprised the house that all the approved quantum targets have been achieved. Mineralized zone in the form of Banded Magnetite Quartzite (BMQ) & Banded Hematite Quartzite (BHQ) having 4km strike length and 6m to 16m width have been delineated on the surface. Iron ore content varies from about 8% to 48% in BRS samples and 25% to 47% in channel samples. An area of 3.8 Sq. km has been proposed for CL block.
- c) Gemcokati requested for submission of report and nomination for peer reviewer.
- d) The Committee was not satisfied with the mapping done and hence suggested to produce quality map. The committee instructed to present the geological map as per the modifications suggested and bring for review in next TCC.

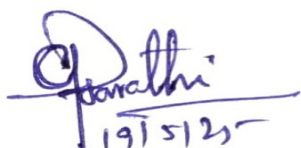
Recommendations of TCC-1:

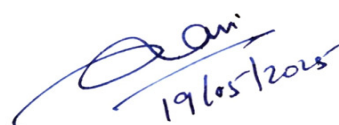
The TCC-1 suggested that quality of map may be improved and presented in upcoming 77th TCC-I.

Agenda 76.5.10.Preliminary Exploration (G3) for Limestone in Sawalhira (East) Block, Chandrapur District, Maharashtra

[Implementing Agency: Gemcokati]

- a) Gemcokati informed that the project was approved in the 35th EC Meeting held on 16th May, 2024. The sanction order was issued on 10th June, 2024 with timeline of 10 months (up to 09.04.2025) and approved cost was INR 86,70,545/-.
- b) Gemcokati apprised the house, that all the work quantum except for drilling and drill core analysis have been achieved. Due to delay in forest clearance, drilling of the remaining 3 BH (180 m) could not be completed. A total of 54 samples (45 nos. - BRS + 3 Check + 6 Pit samples) are analyzed for six radicals against assigned quantum of 33 samples.
- c) Gemcokati apprised the house that BRS and Pit samples (1meter depth) results are providing relatively good CaO values and hence requested for 1meter length of sampling instead of 1.5 m thickness sampling. This will cause an additional analysis


19/5/25


19/05/2025

of 60 core samples (for remaining 180 m drilling) with additional cost of Rs, 2,77,200/- (Rs. Two lakh seventy seven thousand two hundred only).

- The tem was reviewed in 73rd TCC-1 meeting. The map prepared is not proper and concept of geological mapping should be understood thoroughly.
- Analytical results of BRS and Core Samples shown is not supporting the presence of limestone in the block.
- Gemcokati has to improve the map and properly elucidate the rock types and plan further work judiciously.

Recommendations of TCC-1:

The TCC-1 suggested that quality of map may be improved and presented in upcoming 77th TCC-I.

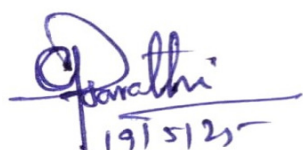
Agenda 76.5.11. Reconnaissance Survey (G4) for Graphite in Darukona Area, Rayagada, Odisha.

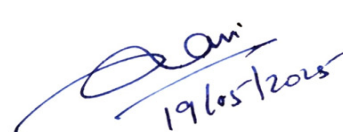
[Implementing Agency: MMPL]

- MMPL informed that the project was approved in the 32nd EC Meeting held on 06th December, 2023. The sanction order was issued on 15th December, 2023 with timeline of 12 months and approved cost was INR 1,73,81,649/-.
- MMPL informed 39th EC of NMET had approved 3.5 months' time extension upto 31st March 2025 and 2 months extension recommended in 75th TCC-I upto 31.05.2025. MMPL apprised that that exploration work has been completed in the block. Out 3 BHs drilled, 3 zones were delineated and the resources were calculated as given below:

Graphite Zone	Borehole Number	Band	Depth		Thickness (m)	Average Fc%	Band Wise resource	Resource Of Graphite At 2% Conditional Cut Off (Million Tonne)
			From	To				
Z-A	Grooveline G-11	B-7			7.0	6.42	0.021	0.06
	DDBH-2	B-2	26.00	28.00	2.0	2.67	0.006	
	Grooveline G-12	B-4			5.0	4.66	0.023	
		B-5			2.0	2.65	0.012	
Z-B	DSBH-2	B-9	16.65	22.88	6.1	3.55	0.004	0.03
	Grooveline G-7	B-11			7.8	6.90	0.009	
	Trench	B-12			12.6	9.08	0.015	
Z-C	DSBH-3	B-13	34.00	42.68	8.4	3.61	0.050	0.08
		B-14	129.19	132.5	2.23	3.52	0.030	

- MMPL informed that the values of tungsten are encouraging for the 95% of the total 144 samples analyzed from the zones A, B and C. But as the sampling of the cores


19/5/25


19/05/2025

was done focusing the graphite mineralization. Therefore, a data gap is there for the wider parting area between the graphite bands. The area needs further systematic sampling to assess the potentiality of tungsten mineralization in the area. Therefore, MMPL proposes to upgrade the investigation in G-3 stage with special reference to tungsten mineralization of the area.

- d) The committee suggested that the potential bands for Graphite (in borehole DDBH-1) can be delineated with systematic sampling and delineated further through more sampling if needed.
- e) In view of the above, committee asked MMPL to have 2-3 samples checked from another lab to confirm the values of tungsten and submit the GR by 30th June 2025

Recommendations of TCC-1:

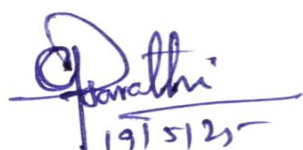
The TCC-1 recommended 1 month timelines extension upto 30th June 2025 for GR submission to EC and advised MMPL to check 2-3 samples in another lab to confirm the values of tungsten.

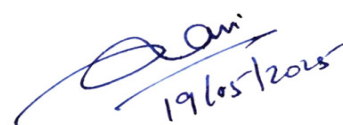
Agenda 76.5.12.Reconnaissance Survey (G4) for Graphite in Kanapulisi Area, Rayagada, Odisha.

[Implementing Agency: MMPL]

- a) MMPL informed that the project was approved in the 32nd EC Meeting held on 06th December, 2023. The sanction order was issued on 15th December, 2023 with timeline of 12 months and approved cost was INR 1,69,49,726/-.
- b) MMPL informed 39th EC of NMET had approved 3.5 months' time extension upto 31st March 2025 and 2 months extension recommended in 75th TCC-I upto 31.05.2025. MMPL said that exploration work has been completed in the block. Out of 8 BHs drilled, 2 zones were delineated and the resources were calculated as given below:

Graphite Zone	Borehole Number	Band	Average Fc%	True Thickness (m)	Depth		Band Wise Resource	Cumulative Resource Of Graphite At 2% Cut Off (Million Tonne)
					From	To		
Z-A	KKBH-1	B-3	4.44	2.52	15.17	18.08	0.005	0.12
		B-6	2.94	4.71	52.07	57.14	0.011	
	Grooveline G-6	B-5	5.67	5.27			0.012	
	KKBH-2	B-3	3.46	5.25	35.36	41.42	0.017	
	Groove line G-7	B-3	10.21	3.54			0.008	
	KKBH-3	B-3	4.26	5.98	47.8	54.7	0.032	
	Grooveline G-12	B-3	4.66	5.85			0.035	


19/5/25


19/05/2025

Z-B	KTBH-1	B-7	6.1	2.14	60	62.8	0.013	0.06
	Grooveline G-3	B-7	9.99	2.4			0.012	
	Grooveline G-11	B-7	8.27	3.48			0.020	
	KTBH-3	B-1	3.57	3.4	52.16	56.6	0.018	

- c) MMPL apprised that it has been noticed that the values of tungsten are encouraging for 85% of the total 150 samples analyzed from the zones A & B. But as the sampling of the cores was done focusing the graphite mineralization. Therefore, a data gap has been created for the wider parting area between the graphite band. The area needs further systematic sampling to assess the potentiality of tungsten mineralization in the area.
- d) MMPL requested for 3 months time extension upto 30 June 2025.
- e) The committee found borehole samples from KKBH-1 to be unpromising for graphite. However, if the samples show favorable indications for tungsten (W), further exploration may be considered. It must also be ensured that sample processing is free from tungsten carbide contamination
- f) In view of the above, committee asked MMPL to have 2-3 samples checked from another lab to confirm the values of tungsten and submit the GR by 30th June 2025.

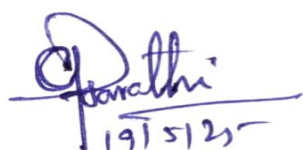
Recommendations of TCC-1:

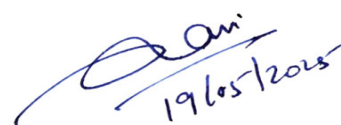
The TCC-1 recommended 1 month timelines extension upto 30th June 2025 for GR submission to EC and advised MMPL to check 2-3 samples in another lab to confirm the values.

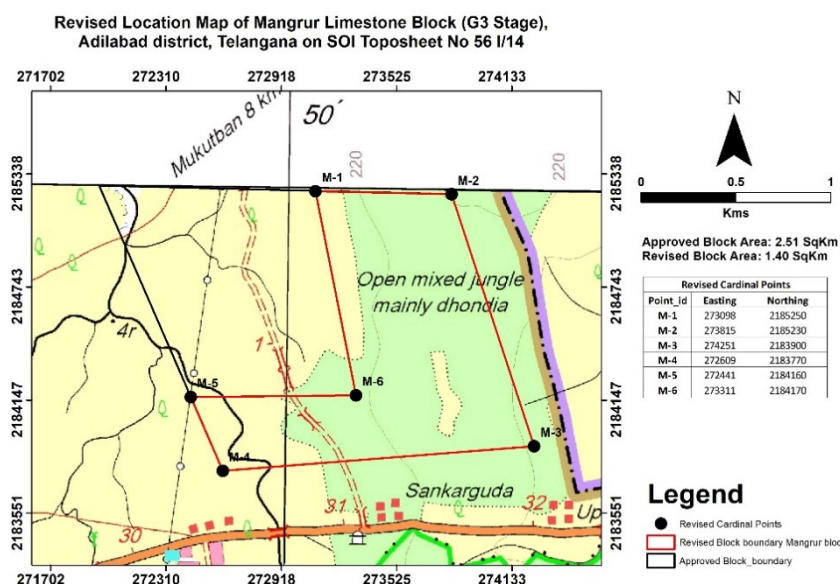
Agenda 76.5.13. Preliminary Exploration (G3) for Limestone in Mangrur Block, Adilabad, Telangana.

[Implementing Agency: MMPL]

- a) MMPL informed that the project was approved in the 39th EC Meeting held on 24th January, 2025. The sanction order was issued on 07th March, 2025 with timeline of 08 months (up to 09.10.2025) and approved cost was INR 69,73,540/-.
- b) MMPL informed that geological mapping, BRS sampling, and a DGPS survey has been completed in the block. During a recent visit for the regular inspection and review of the block, the Geologist of the GSI State Unit, Telangana, pointed out that GSI had previously explored for coal in the western part of the approved block in FS: 2015-2016.
- c) MMPL informed that before submitting the DPR for approval, MMPL consulted all available data geological mapping reports GSI, however, the coal block report was not found during this initial study for consideration.
- d) Considering the above. MMPL requested approval of modification of the block boundaries as given below. The block area is being reduced from 2.51 sq.km to 1.40 sq.km.


19/5/25


19/05/2025



e) In view of above, the TCC-1 agreed for revision of area to 1.40 sq.km.

Recommendations of TCC-1:

The committee recommended revising the block area from 2.51 sq.km to 1.40 sq.km by excluding the portion already explored by GSI for coal, for consideration and approval of EC. The committee also advised MMPL to check with NMET the comments of SU: Telangana provided at the time of proposal.

Agenda 76.5.14.Preliminary Exploration (G3) for Copper and associated Mineralization in Govindpur Block (0.83 sq.km.), Chandrapur District, Maharashtra.

[Implementing Agency: Kartikay Exploration and Mining Services Pvt. Ltd.]

- Kartikay Exploration and Mining Services Pvt. Ltd. informed that the project was recommended in the 65th TCC Meeting held on 28th, 29th and 31st May, 2024. The OM was issued on 21st August, 2024 with timeline of 08 months (up to 20.04.2025) and approved cost was INR 1,26,07,813/-.
- The agency apprised the committee that Geophysical survey has been completed.
- Mapping and other component is partially completed as permission from Forest Department is not yet received. The work was also delayed due to standing crops as locals did not allow to enter the agricultural field area. The agency sought extension of timeline by 4 months for GR submission.
- The committee stated that the area is not encouraging overall, as analytical results from BRS and trench samples indicate maximum copper (Cu) values of around 200 ppm. However, the zone exhibiting the strongest chargeability anomaly may be tested with a one inclined borehole, drilled at a 50–55° angle to a vertical depth of 50–60 meters, with a southwesterly bearing.

Recommendations of TCC-1:

The TCC-1 suggested to present cross-section in next TCC and approved extension of 3 months upto 20th July 2025.

[Signature]
19/5/25

[Signature]
19/05/2025

Agenda 76.5.15.Preliminary Exploration (G3) for Aluminous Laterite and associated Critical Elements (V, Ga, & REE) in Mundalli Block, Uttara Kannada District, Karnataka

[Implementing Agency: Geo Marine Solutions Pvt. Ltd.]

- a. Geo Marine Solutions Pvt. Ltd. informed that the project was approved in the 38th EC Meeting held on 23.12.2024. The sanction order was issued on 30th December, 2024 with timeline of 10 months (up to 29.10.2025) and approved cost was INR 90,92,156/-
- b. The agency apprised the committee that geological mapping has been completed. Besides, 127 m out of approved 200 m of drilling component is also completed. Geo Marine Solutions submitted that additional drilling of 16 BH (400*400 m grid) with average depth of 20 m (total 320 m) and additional 360 core samples may be approved. They also request for dropping pitting component from quantum.
- c. The committee opined that the approved targets including pitting should be completed first and based on the outcome additional targets may be considered. Infilling drilling may be taken only after assessment of distribution of critical elements over the plateau.

Recommendations of TCC-1:

The committee advised that the approved target including pitting should be completed and the analysis presented after evaluating the overall distribution pattern of critical elements within the block. If the findings are encouraging, further or additional exploration may be planned. In case the cost of additional drilling falls within the purview of the TCC, it will be approved accordingly; otherwise, it should be recommended for further approval by the EC.

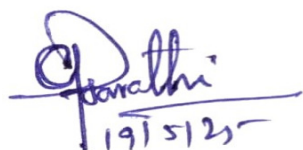
Agenda 76.5.16.Preliminary (G3) exploration for Iron and Manganese mineralization at Ramghad Village, Sandur Taluk, Ballari District, Karnataka

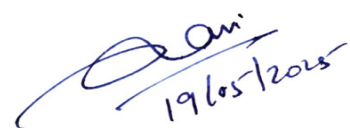
[Implementing Agency: Ecomen Mining Pvt. Ltd.]

- a. Ecomen Mining Pvt. Ltd. informed that the project was approved in the 35th EC Meeting held on 16th May, 2024. The sanction order was issued on 10th June, 2024 with timeline of 12 months (up to 09.06.2025) and approved cost was INR 1,64,36,127/-.
- b. Ecomen informed that geological mapping, BRS sampling and survey work has been completed and exploratory drilling is due for execution. Exploratory drilling, Pitting and Trenching will be executed after obtaining the forest clearance.
- c. In view of unforeseen delays in obtaining forest clearance, Ecomen sought the committee's approval for an extension of six months, i.e. up to 09.12.2025, to complete the exploration activities.
- d. The committee advised to get forest permission at the earliest and thereafter time extension may be discussed.

Recommendations of TCC-1:

The TCC-1 recommended to approve timeline extension after thereceipt of Forest Clearance.


19/5/25


19/05/2025

Annexure1

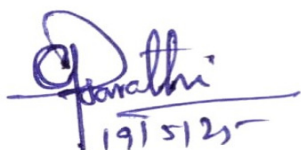
List of participants attended 76th meeting of Technical-cum-cost Committee (TCC-I) of NMET held on 30th April and 01st May, 2025 through video conferencing mode

S.no	Name	Designation	Email ID	Contact No	Organization
1	Dr. S. Ravi,	Dy. Director General, GSITI, GSI Hyderabad	s.ravi1@gsi.gov.in	9441138834	Chairman, TCC-1
2	Shri I.R. Kirmani	ADG (Retd.), GSI	irkirmani@yahoo.com	9414014723	Member TCC-1
3	Shri Hemraj Suryavanshi	Addl. Director General (Retd.), GSI	hemraj.nmet@gmail.com	9425603674 7477042176	Member TCC-1
4	Shri K. Koteswara Rao	Dy.D.G. (Retd.) GSI	kkrao1957@gmail.com	9000117969	Member TCC-1
5	Dr. S. K. Kulshrestha	DDG-RMH-III, NER, GSI, Shillong	s.kulshrestha@gsi.gov.in	9413330658	Member TCC-1
6	Dr.E.V.S.S.K. Babu	Scientist (G), NGRI	evsskbabu@ngri.res.in	9441535852	Member TCC-1
7	Shri K.L. Mundra	Additional Director, AMD, Hyderabad	klmundra.amd@gov.in	9414785663	Member TCC-1
8	Shri S.K. Adhikari	Chief Mining Geologist, IBM, Nagpur	skadhikari@ibm.gov.in	7588690545	Member TCC-1
9	Shri P.K. Maharana	DGM (Finance), NALCO, Bhubaneswar	pmaharana@rediffmail.com	8500669500	Member TCC-1
10	Shri Ravi Kumar Gupta	General Manager (Finance) HCL, Kolkata	ravi_g@hindustancopper.com	9433274328	Member TCC-1
11	Shri C. Parthasarathi	Director, GSI & Member Secretary, TCC- NMET, GSI, Bengaluru	c.parthasarathi@gsi.gov.in	9483186932	Member Secretary TCC-1
12	Smt. Vandana	Cost Accounts Officer, RSAS, Bangalore, GSI	vandana@gsi.in	8660939235	Member TCC-1
13	Shri C S Verma	Dy. Director General	chattar.verma@gsi.gov.in	9990962880	RSAS, GSI, Bengaluru
14	Shri H Rajaram	Director (Geophysics)	h.rajaram@gsi.gov.in	8762227740	RSAS, GSI, Bengaluru
15	Shri Selin Raj A	Director (Geophysics)	antony.selinraj@gsi.gov.in	9432014505	RSAS, GSI,

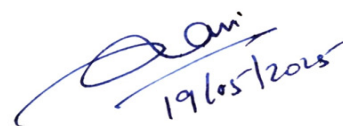
Parthasarathi
19/5/25

Ani
19/05/2025

					Bengaluru
16	Shri Vinoda N K	Director (Geophysics)	vinoda.n.k@gsi.gov.in	6360406600	RSAS, GSI, Bengaluru
17	Dr Ravi Kumar Ch.	Director (Geophysics)	chiluvuru.kumar@gsi.gov.in	9482513303	RSAS, GSI, Bengaluru
18	Dr Rajesh Kumar	Director (Geophysics)	rajesh.kumar1@gsi.gov.in	9481905436	RSAS, GSI, Bengaluru
19	Dr P N Nagaraja	Director (Geophysics)	pn.nagaraja@gsi.gov.in	9163703828	RSAS, GSI, Bengaluru
20	Shri P. Ravindran	GM (Exploration)	gm-exploration@mecl.co.in	9407607309	MECL, Nagpur
21	Shri G S Dhami	GM (Geophysics)	geophy-unit@mecl.co.in	8290610086	MECL, Nagpur
22	Shri Shrikant Sharma	Head (Exploration)	shrikant.mecl@gmail.com	9131229758	MECL, Nagpur
23	Shri Swarup Dhara	Manager (Geology)	swarupdhara@gmail.com	9630307282	MECL, Nagpur
24	Md. Dastageer	Manager (Geology)	dastageermd@gmail.com	9560739350	MECL, Nagpur
25	Shri Bhuneshwar Kumar	Manager (Geology)	bhuneshwarkumar@mecl.gov.in	9437063532	MECL, Nagpur
26	Shri ABSS Rama Krishna	Manager (Geophysics)	abssrk@gmail.com	8447731654	MECL, Nagpur
27	Shri Shriram Kadoo	Deputy Director	director@mahadgm.gov.in	9421782130	DGM, Maharashtra
28	Shri Roshan Meshram	Deputy Director	dgmkop@gmail.com	8308502331	DGM, Maharashtra
29	Shri Vishal Dhande	Geologist	srddnagpur@mahadgm.gov.in	9503893179	DGM, Maharashtra
30	Shri Amol Kalaskar	Jr. Geologist	dgmrochandrapur@gmail.com	8600400008	DGM, Maharashtra
31	Smt. Vidhya Kharbadkar	Jr. Geologist	dgmrochandrapur@gmail.com	7218655211	DGM, Maharashtra

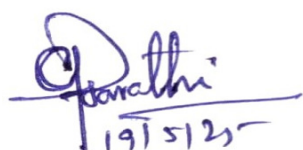


P. Anitha
19/5/2015

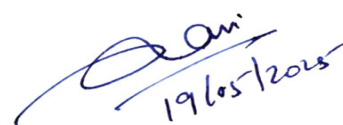


P. Anitha
19/05/2015

32	Shri Rushikesh Dange	Jr.Geologist	director@mahadgm.gov.in	8308623504	DGM, Maharashtra
33	Shri Bharat Chandra Sahoo	GM (Exploration)	bharat.sahoo@odishamining.in	9438887784	OMC Ltd.
34	Dr. Prasanta Kumar Nayak	DGM(GEO)	pknayak@odishamining.in	9438039323	OMC Ltd.
35	Dr. Lingaraj Sahoo	Sr. Manager (Geo)	lingaraj.sahoo@odishamining.in	9437603370	OMC Ltd.
36	Smt. Shibani Mahanta	Sr. Manager (Geo)	smahanta@odishamining.in	9437637292	OMC Ltd.
37	Shri Pravasa Ranjan Chinara	Interim Program Manager	pravasa@idpex.in	8349201158	OMC Ltd.
38	Dr. Vanit Patel	Junior Professional Geologist	vanit@idpex.in	7984822241	OMC Ltd.
39	ShriSama Anandamurthy	Project Coordinator	sama.anandamurthy@ecomen.in	9490475518	Ecomen Mining Pvt Ltd, Bengaluru
40	ShriKakkalapalli Sekhar	Manager Geology	sekhar.kakkalapalli@ecomen.in	9032074670	Ecomen Mining Pvt Ltd, Bengaluru
41	ShriMurali Manas P	Head of Projects	murali.manas@ecomen.in	9916310306	Ecomen Mining Pvt Ltd, Bengaluru
42	ShriVijay Kumar B	Geologist	vijay.kumar@ecomen.in	9743163236	Ecomen Mining Pvt Ltd, Bengaluru
43	ShriSaikat Bhattacharyya	GM Exploration	saikat.bhattacharyya@ecomen.in	6289339388	Ecomen Mining Pvt Ltd, Bengaluru
44	ShriBalkrishan vishawakarma	Manager Geology	balkrishan.v@maheshwaree.com/geology@maheshwaree.com	9651143638	Maheshwari Mining Pvt Ltd
45	Moulipriya Bhakta	Deputy Manager Geology	moulipriya.bhakta@maheshwaree.com	7890631970	Maheshwari Mining Pvt Ltd
46	ShriRupan Roy	Geologist	rupan.roy@maheshwaree.in	7872952135	Maheshwari Mining Pvt Ltd
47	ShriHarsha	Geologist	harsha.ma@maheshwaree.in	8310720374	Maheshwari

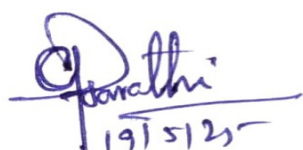


G. Parathi
19/5/2015

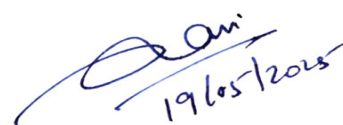


Anil
19/05/2015

	MA				Mining Pvt Ltd
48	Dr. Vinay Sahay	Sr. Manager(Geology)	vinay.sahay@geologist.com	9730514284	Gemco kati Exploration Pvt Ltd, Chandrapur
49	ShriChinmay Rout	Geologist	chinmay2007rta@gmail.com	8260086563	Gemco kati Exploration Pvt Ltd, Chandrapur
50	ShriTejeswar Barik	Jr. Geologist	tejeswarbarik73@gmail.com	6294601759	Gemco kati Exploration Pvt Ltd, Chandrapur
51	Shri Kaustav Bhattacharjee	Jr. Geologist	kaustavbhattacharjee18@gmail.com	8637848584	Gemco kati Exploration Pvt Ltd, Chandrapur
52	Shri Suraj Vidhate	Jr. Geologist	vidhatesuraj2018@gmail.com	9921839321	Gemco kati Exploration Pvt Ltd, Chandrapur
53	ShriAmit Kumar Sahoo	Jr. Geologist	pramilasahoo066@gmail.com	7008428887	Gemco kati Exploration Pvt Ltd, Chandrapur
54	ShriA.C. Dinesh	Chief Technology Officer	oed@geomarinesolutions.in	9038534560	Geo Marine Solutions Pvt. Ltd.
55	Dr. A.V. Keshava Prasad	Chief Geologist (Exploration)	keshava@geomarinesolutions.in	8595914877	Geo Marine Solutions Pvt. Ltd.
56	Dr. K. Jayabalan	Lead (Engineering Geology)	oed@geomarinesolutions.in	9915175310	Geo Marine Solutions Pvt. Ltd.
57	ShriR.Baskaran	Lead (Mineral Exploration)	oed@geomarinesolutions.in	8610706494	Geo Marine Solutions Pvt. Ltd.
58	ShriGuruprasad S.	Geologist	guru@geomarinesolutions.in	9745526250	Geo Marine Solutions Pvt. Ltd.
59	Shri Deepak Rathod	Principle Consultant	deepak.rathod@mtcspl.com	6358935667	Mining Tech Consultancy Services Ltd
60	ShriSantosh Kr Sadangi	Sr Project Consultant	santoshkumar.sadangi@mtcspl.com	7486025037	Mining Tech Consultancy Services Ltd

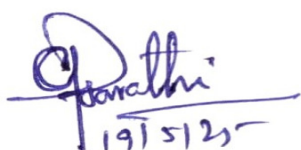


19/5/25

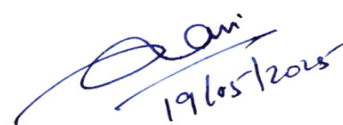


19/05/2025

61	Shri Suman Aich	Sr Project Consultant	suman.aich@mtcspl.com	7227038405	Mining Tech Consultancy Services Ltd
62	Shri Ritwik Ganguly	Staff Consultant	ritwik.ganguly@mtcspl.com	7908626708	Mining Tech Consultancy Services Ltd
63	Representative				IBM
	Representative				DGM Chhattisgarh
64	Representative				DMG Karnataka
65	Representative				DGM Odisha
66	Representative				CMPDI
67	Representative				Kartikay Exploration and Mining Services Pvt. Ltd.
68	Representative				Bhushilp
69	Representative				Natural Resource Division Tata
70	Shri Bulbul Mondal	Superintending Geologist	tcc.nmet.2023@gmail.com	9784700207	GSI, SR
71	Smt. Anju C.S	Superintending Geologist	nmet-mines @gov.in	8588836933	NMET Sectt.
72	Shri Seababrata Das	Senior Geologist	nmet.mines@gov.in	7060508014	NMET Sectt.
73	Ms. Bishakha	Senior Geologist	nmet.mines@gov.in	8126541605	NMET Sectt.
74	Shri Rajesh Sharma	Senior Geologist	nmet.mines@gov.in	8377851047	NMET Sectt.
75	Shri Monu Tomar	Sr. Geophysicist	nmet.mines@gov.in	9467728411	NMET Sectt.
76	Smt. Palak Kapoor	Senior Geologist	nmet.mines@gov.in	8851742488	NMET Sectt.
77	Shri Akshay Verma	Senior Geologist	nmet-mines @gov.in	9911258955	NMET Sectt.
78	ShriManish Kumar	Geophysicist	nmet.mines@gov.in	9652258670	NMET Sectt.



Manish Kumar
19/5/25



Anil
19/05/2025

Annexure 2A

Estimated Cost for Preliminary Exploration (G3) for Bauxite/Aluminous Laterite in area of village - Gudheghar, Tahsil - Mandangad, District-Ratnagiri, Maharashtra,

Area- 1.54 sq. km, No.of BH:5, Borehole depth range- 100m; Schedule timeline- 10 months, Review: After 4 & 8 Months

Implementing Agency : DGM Maharashtra

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	
A	Drilling						
1	Surface Drilling (1 Rig)- soft rock	M	2.2.1.1b	7168	150	1075200	
	Trenching	Cu.m.	NA	NA	NA	NA	
	Drilling Camp setting cost	per Drill	2.2.9a	250000	1	250000	
	Drilling Camp winding cost	per Drill	2.2.9b	250000	1	250000	
	Road making (rugged and hilly terrain)	per km	2.2.10b	32200	1	32200	
	Transportation of drilling rig (to &fro)	per km	2.2.8	36	500	18000	
	Labour Wages	No.	5.7 (25 days of drilling)	541	0	0	
	Borehole pillaring (Construction of concrete pillar)(12"*12"*30")	per borehole	2.2.7a	2000	17	34000	
				Sub Total A		16,59,400	
B	Geological Work_ Geological mapping 1: 4000 scale with contouring						
	Survey Party days	day	1.6.1a	8300	30	2,49,000	
	Geologist (Field days)	day	1.3	11000	90	9,90,000	
	Geologist (HQ days)	day	1.3	9000	30	2,70,000	
	Sample processing work	day	1.5.2	5100	20	1,02,000	
	Labour Wedges for Survey	No.	5.7 (30 days of survey)	541	4	2,164	Amount will be reimburse as per the notified rates by the

[Signature]
19/5/25

[Signature]
19/05/2025

							Central Labour Commissioner or respective State Govt. whichever is higher
	Labour Wedges for Geological work	No.	5.7 (90 days of field work)	541	4	2,164	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Labour Wedges for Geological work	No.	5.7 (90 days of field work)	541	4	2,164	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	DGPS Survey	Per point of Observation		19,200	17	3,26,400	
				Sub Total B		19,43,892	
C	Laboratory Studies						
1	Chemical analysis						
	i) Primary Samples & Check samples						
	a) For 8 radicals CaO, MgO, SiO ₂ , MnO, Al ₂ O ₃ ,Fe ₂ O ₃ , TiO ₂ , P ₂ O ₅ (XRF)	per sample	4.1.15a	4200	150	6,30,000	
	b) 10% Check sample	per sample	4.1.15a	4200	15	63,000	
2	Physical Analysis						
	i) Bulk Density determination	Nos	4.8.3	1568	5	7,840	
	Digital Photographs	Nos.	4.3.7	280	5	1,400	
	Preparation of thin section	Nos.	4.3.1	2353	5	11,765	

Jonathin
19/5/2015

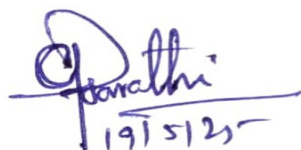
Ami
19/05/2015

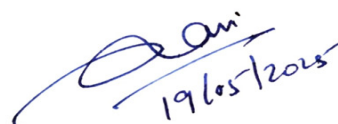
	Complete petrographic study report	Nos.	4.3.4	4232	5	21,160	
				Sub Total C		7,35,165	
D	Preservation of core						
	Core preservation charges	Nos	5.3	1590	150	2,38,500	
				Sub Total D		2,38,500	
				Total A to D		45,76,957	
E	Peer review Charges		As per EC decision			30,000	
F	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs.5 Lakhs whichever is less		91,539	EA will be reimbursed after submission of the Hard Copies and the soft copy of the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal.
G	Geological Report Preparation		5.2			2,28,848	
H	Total Estimated Cost without GST					49,27,344	
I	Provision for GST (18% of L)					8,86,922	GST will be reimburse as per actual and as per notified prescribed rate
J	Total Estimated Cost with GST					58,14,266	
K				Rs. In Lakhs		58.14	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.						

Santhi
19/5/25

Santhi
19/5/2025

4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.
5	Any item of work not mentioned above shall be added as per SoC.
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.


Jonathan
19/5/2015


Sami
19/05/2015

Annexure 2B

Time Schedule/ Action Plan for Preliminary Exploration (G3) for Bauxite/Aluminous Laterite in area of village - Gudheghar, Tahsil - Mandangad, District-Ratnagiri, Maharashtra
Implementing Agency : DGM Maharashtra

S. No.			1	2	3	4		5	6	7	8		9	10
1	Camp Setting	Months/Days					Review					Review		
2	Geological Mapping & Sampling	days												
3	Survey Party days	days												
4	Forest Clearance	days												
5	Pitting/Trenching	cu.m												
6	Surface Drilling (1 rig)	m												
7	Geologist Man days	days												
8	Sampler Man days	days												
9	Camp Winding	months												
10	Laboratory Studies	Nos.												
11	Report Writing	months												

Santhi
19/5/2015

Santhi
19/05/2015

Estimated Cost for Preliminary Exploration for Limestone in Bhari Block, Chandrapur district, Maharashtra
Area : 4.27 sq.km , Drilling: 800m , BH : 10 , Depth: 80 m , Timeline: 10 months , Review: 4 months
Implementing Agency : DGM Maharashtra

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	
A	Drilling						
1	Surface Drilling (1 Rig)- soft rock	m	2.2.1.1b	7168	800	5734400	
	Trenching	Cu.m.	2.1.1	3330	10	33300	
	Drilling Camp setting cost	per Drill	2.2.9a	250000	1	250000	
	Drilling Camp winding cost	per Drill	2.2.9b	250000	1	250000	
	Road making ((flat terrain)	per km	2.2.10a	22020	1	22020	
	Transportation of drilling rig (to &fro)	per km	2.2.8	36	400	14400	
	Labour Charges	No.	2.2.1.3a	677.78	0	0	
				Sub Total A		63,04,120	
B	Geological Work						
	Survey Party days	day	1.6.1a	8300	30	2,49,000	
	Geologist (Field days)	day	1.3	11000	120	13,20,000	
	Geologist (HQ days)	day	1.3	9000	45	4,05,000	
	Sample processing work	day	1.5.2	5100	99	5,04,900	

Donalhi
19/5/25

Ami
19/05/2025

	Labour charges for Geological work	No.	5.7 (30 days of survey)	541	240	1,29,840	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Labour Charges for Survey	No.	5.7 (90 days of field work)	541	120	64,920	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Labour Charges for Sampler	No.	5.7 (90 days of field work)	541	396	2,14,236	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
				Sub Total B		28,87,896	
C	Laboratory Studies						
1	Chemical analysis						
	i) Primary Samples & Check samples						

Donalini
19/5/25

Ami
19/05/2025

	a) For 8 radicals CaO, MgO, SiO ₂ , MnO, Al ₂ O ₃ ,Fe ₂ O ₃ , TiO ₂ , P ₂ O ₅ (XRF)	per sample	4.1.15a	4200	720	30,24,000	
	b) 10% Check sample	per sample	4.1.15a	4200	72	3,02,400	
2	Physical Analysis						
	i) Bulk Density determination	Nos	4.8.3	1568	2	3,136	
	Digital Photographs	Nos.	4.3.7	280	5	1,400	
	Preparation of thin section	Nos.	4.3.1	2353	5	11,765	
	Complete petrographic study report	Nos.	4.3.4	4232	5	21,160	
				Sub Total C		33,63,861	
D	Preservation of core						
	Core preservation charges	Nos	5.3	1590	700	11,13,000	
				Sub Total D		11,13,000	
				Total A to D		1,36,68,877	
E	Peer review Charges		As per EC decision			30,000	
F	Preparation of Exploration Proposal	1 no. (5 hard copies with soft copy)	5.1	2% of approved cost or 5 lakhs		2,73,378	EA will be reimbursed after submission of the Hard Copies and the soft copy of the final proposal along with Maps and Plan as suggested by

Donalini
19/5/25

Ami
19/05/2025

							the TCC-NMET in its meeting while clearing the proposal.
G	Geological Exploration Report	5 Hard copies with a soft copy	5% of Total Project Cost	--	5.2	6,83,444	
H	Total Estimated Cost without GST					1,46,55,698	
I	Provision for GST (18% of L)					26,38,026	GST will be reimburse as per actual and as per notified prescribed rate
J	Total Estimated Cost with GST					1,72,93,724	
K				Rs. In Lakhs		172.94	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.						

Santhi
19/5/25

Santhi
19/05/2025

Annexure 3B

Time Schedule/ Action Plan for Preliminary Exploration for Limestone in Bhari Block, Chandrapur district, Maharashtra
Implementing Agency : DGM Maharashtra

S. No.			1	2	3	4	Review	5	6	7	8	9	10
1	Camp Setting	Months/Days											
2	Geological Mapping & Sampling	days											
3	Survey Party days	days											
4	Forest Clearance	days											
5	Pitting/Trenching	cu.m											
6	Surface Drilling (1 rig)	m											
7	Geologist Man days	days											
8	Sampler Man days	days											
9	Camp Winding	months											
10	Laboratory Studies	Nos.											
11	Report Writing	months											

[Signature]
 19/5/2015

[Signature]
 19/05/2015

Annexure 4A

Estimated Cost for General Exploration (G2) for Bauxite and Aluminous Laterite in Byndoor Block, Udupi District, Karnataka

Area 2.0042 sq. km, Drilling: 1000 m (Phase 1 : 300m, Phase 2: 700m - After Review), No. of BH: 50 nos (Phase I -14 nos. , Phase II - 36 nos.) Average borehole depth range - 20 m, Schedule timeline- 10 months Review: After 4 & 8 Months

Implementing Agency : Ecomen Mining Pvt. Ltd.

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	
A	Geological Work						
	Geological mapping, (1:4000 scale) & sampling, Topographical Survey						
i	a. Charges for Geologist per day (Field) for geological mapping, sampling, pitting works	day	1.3	11,000	120	13,20,000	
ii	b. Labours Charges; Base rate (2 labours/party)	day	5.7	541	240	1,29,840	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	c. Charges for Geologist per day (HQ)	day	1.3	9,000	45	4,05,000	
	d. Other Geological work: Borehole closing, core logging and sampling, Charges of one Geologist at site (1 Geologist)	day	1.5.1a	11000	0	0	
	e. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	119	6,06,900	

Jonathani
19/5/25

Sanj
19/05/2025

	e. Labours (4 Nos)	day	5.7	541	476	2,57,516	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub Total-A					27,19,256	
B	Survey work						
a	Charges for one surveyor per day (topographic survey 1:4000 Scale)	day	1.6.1a	8,300	30	2,49,000	
b	Labour (4 Nos.) per party	day	5.7	541	120	64,920	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
c	Demarcation of block boundary, Fixation of Borehole and determination of co-ordinates & Reduced Level (RL) of the borehole by DGPS	Per Point of observation	1.6.2	19,200	62	11,90,400	
	Sub Total-B					15,04,320	
C	Pitting						
	Excavation of pits up to 3 m depth (30 pits)	per cu.m	2.1.2	5,330	0	0	
	Sub Total-C					0	
D	DRILLING Outsource (after review)						
1	Core Drilling: 1000 m (Phase 1 : 300m, Phase 2: 700m - After Review), No. of BH: 50 nos (Phase I -14 nos. , Phase II - 36 nos.) Grid Phase I - 400*400m, Phase II -200*200m	m	2.2.1.1b	7168	1000	71,68,000	As per Moc rate
2	Drill core preservation (In-house)	Per m	5.3	1590	700	11,13,000	
	Sub Total-D					82,81,000	
E	Laboratory Studies						

Santhi
19/5/25

Santhi
19/05/2025

1	Chemical Analysis						
i)	Primary samples analysis for 5 radicals viz. Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , TiO ₂ , LOI	Nos	4.1.15a	4200	680	28,56,000	
	External check samples for 5 radicals viz., Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , TiO ₂ , LOI. (10% of total samples)	Nos	4.1.15a	4200	68	2,85,600	
	Analysis for Bauxite						
	A. Combined determination of Tri hydrate Alumina (THA- 40°C) and Mono hydrate Alumina (MHA-240°C) & Reactive Silica (per BH 2 Sample)	Nos.	4.1.17a	6700	100	6,70,000	
2	Physical, Petrological & Mineralogical studies						
	ICP-MS (sequential technique) sample package for 34 elements i.e.16 other elements viz. Li, Ga, In, Be, Ge, Mo, Cr, Ta, W, Ba, Co, Rb, Sr, Zr, Nb, Ni, : 18 REE viz. La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Sc, Y:2 Actinides viz. U,Th (Per BH 2 Sample)	Nos.	4.1.14	7731	100	7,73,100	Analysis of 1 complete bore hole . Remaining from other boreholes.
i)	Preparation of thin section	Nos.	4.3.1	2353	10	23,530	
ii)	Study of thin section	Nos.	4.3.4	4232	10	42,320	
iii)	Digital photographs	Nos.	4.3.7	280	20	5,600	
iv)	Bulk density determination	Nos.	4.1	3540	5	17,700	
3	Beneficiation study						
i)	Collection of sample, transportation and manpower	Per Sample	4.7.1	Costing to be decided by TCC			
ii)	Beneficiation study for G2 stage mineral exploration project	Per Sample	4.7.2	Actual expenses at IBM rate	1	As per actuals	

[Signature]
19/5/2015

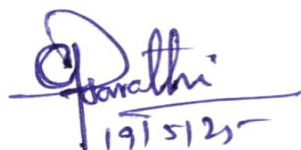
[Signature]
19/05/2015

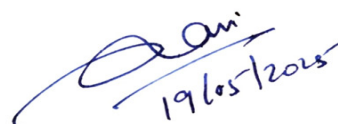
	Sub Total-E					46,73,850	
	Total Outsourced					71,68,000	
F	TOTAL A to E					1,71,78,426	
G	Tender process cost	One time	2.3	2% of the approved project cost or 5 Lakh whichever is lower	1	1,43,360	
H	Geological Report Preparation	5 Hard copies with a soft copy	5.2 (iii)	A minimum of 7.5 Lakh or 3% of the work which ever is more	1	7,50,000	
I	Peer review	Per review	--	As per EC decision	--	30,000	
J	Preparation of Exploration Proposal	5 Hard copies with a soft copy	5.1	2% of approved project cost or 3.8 lakh whichever is lower	1	3,43,569	
K	Operational charges towards outsourced work	Based on actual outsourced cost	6.0 (iii)	In case of total outsourced cost more than ₹1 crore: ₹8.75 lakh plus 5 percent on the balance amount of	--	6,62,600	

Jonathin
19/5/25

Ami
19/05/2025

				outsourced cost in excess of ₹1 crore. Maximum ceiling of operational charges is ₹15 lakh			
L	Total Estimated Cost without GST					1,91,07,955	
M	Provision for GST (18% of M)					34,39,432	
N	Total Estimated Cost with GST					2,25,47,386	
O				Rs. In Lakhs		225.47	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.						


Jonathan
19/5/2015


Anil
19/05/2015

Annexure 4B															
General Exploration (G2) for Bauxite and Aluminous Laterite in Byndoor Block, Udupi District, Karnataka															
Implementing Agency : Ecomen Mining Pvt. Ltd.															
S. No.			1	2	3	4	Review	5	6	7	8	Review	9	10	
1	Camp Setting	Months/Days													
2	Geological Mapping & Sampling	days													
3	Survey Party days	days													
4	Forest Clearance	days													
5	Pitting/Trenching	cu.m													
6	Surface Drilling (1 rig)	m													
7	Geologist Man days	days													
8	Sampler Man days	days													
9	Camp Winding	months													
10	Laboratory Studies	Nos.													
11	Report Writing	months													

Donalhi
19/5/25

Ami
19/05/2025

**Estimated Cost for Preliminary exploration (G3) for molybdenum in Mannadipatti South Block & Ponnaiyar North Block (4.75 sq.km.),
Uttangarai Sector, Harur-Uttangarai Belt, District-Krishnagiri, Tamil Nadu**

Total Area - 4.75 q Km (2.75 sq.km.+2.00 sq.km.); Nos. of Borehole Mannadipatti South Block 20 Bh (1st Level -13 Bh X 100m, 2nd Level 7 Bh X 200m,) = 2700m approx., Ponnaiyar North Block 08 Bh (1st Level -06 Bh X 100m, 2nd Level 02 Bhs X 200m) = 1000m approx. Total drilling 3700m approx. .(2nd Level Bhs after Review of 1st level BHs)

Borehole Depth Range:- 100m upto 200m approx. Completion Time - 15 months, Review : 6 & 10 months

Implementing Agency : MECL

S.N	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item - SI No.	Rates as per SoC	Qty.	Total Amount (Rs)	
A	GEOLOGICAL WORK						
1	Detailed Geological mapping (1:2000 scale with Contouring , Borehole logging & Sampling)				4.75 sq.km.		(Mannadipatti South Block (2.75 sq.km.) + Ponnaiyar North Block (2.0 sq.km.)
a	Charges for two Geologist per day at HQ	day	1.3a	9,000	45	4,05,000	
b	Charges for two Geologist per day at field	day	1.3b	11,000	200	22,00,000	2 Blocks
c	Labour for Geologist (2 Nos)	day	5.7	541	400	2,16,400	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher

Jonathani
19/5/25

Ami
19/05/2025

d	Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	139	7,08,900	
e	Labours for sampling work (4 Nos)	day	5.7	541	556	3,00,796	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub Total A					38,31,096	
B	Ground Geophysical Survey						
a	Induced Polarization (I.P) cum Resistivity S.P and Magnetic	8 –10 Line km	3.4b	14,48,693	4.0	5794772	(Rs.14,48,693/-per 10 Lkm) Total 40 Lkm cumulative
b	Geophysicist party days (HQ) for Data processing & Report	Per day	3.18	9,000	20	1,80,000	
	Sub Total B					59,74,772	
C	Trenching/Pitting						
	a) Excavation of Trenches	per cu.m.	2.1.1	3330	200	6,66,000	(100 cum x 2)
	Sub Total C					6,66,000	
D	DRILLING						
a	Drilling - Hard rock	m	2.2.1.4a	11,500	3,700	4,25,50,000	
b	Borehole deviation Survey by Multishot Camera	m	2.2.6	330	3,700	12,21,000	
c	Land / Crop Compansation (in case the BH falls in agreeecultural Land)	per BH	5.6	20,000	28	5,60,000	Amount will be reimburse as per actuals or max. Rs.

Santhi
19/5/25

Santhi
19/5/2025

							20000 per BH with certification from local authorities
d	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	28	56,000	
e	Transportation of Drill Rig & Truck associated per drill	Km	2.2.8	36	5,600	2,01,600	2800 km two way for 2 rigs
f	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	6	3,00,000	
g	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	2	5,00,000	
h	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	2	5,00,000	
i	Road Making (Flat Terrain)	Km	2.2.10a	22,020	5	1,10,100	Road Making will be considered as per the requirement and Road Making Charges will be reimbursed accordingly.
j	Drill Core Preservation	per m	5.3	1,590	950	15,10,500	
	Sub Total D					4,75,09,200	
E	Survey Work						
a	DGPS Survey of Block Boundary cardinal points by DGPS + BH fixation & RL determination	Per Point of observation	1.6.2	19,200	36	691200	28 Bh points + 8 Boundary points
b	Charges of Surveyor (1 party) for Topographical survey 1:2000 scale (4.4 sq.km with 1m contour interval)	one surveyor per day	1.6.1a	8,300	45	373500	

Jonathin
19/5/25

Ami
19/5/2025

c	Labours Charges for survey work;	day	5.7	541	180	97380	Amount will be reimburse as per the notified rates for unskilled labor by the Central Labour Commissioner or respective State Govt. whichever is
	Sub Total E					11,62,080	
F	Borehole Geophysical Logging (including I.P., S.P., Magnetic Susceptability, Resistivity/Induction Sonde, Dual Density etc.)	5 Bhs of 350m each	3.12	622.25	3,700	23,02,325	10,88,941
	Sub-Total F					23,02,325	
G	LABORATORY STUDIES						
1	<u>Chemical Analysis</u>						
i)	Primary samples (Bedrock/ Channel & Trench)						
	a. For Mo, Cu, Pb, Zn, Sn, W, Ag and Bi by AAS Method	Nos	4.1.7a & b	3,176	150	4,76,400	(50 Bedrock/channel+100 Trench)
	b. Bedrock/channel & Trench Composite samples for 34 Elements by ICP-MS	Nos	4.1.14	7,731	10	77,310	
ii)	External Check samples (10%) (Bedrock/channel & Trench)						
	a. For Mo, Cu, Pb, Zn, Sn, W, Ag and Bi by AAS Method	Nos	4.1.7a & b	3,176	15	47,640	

Jonathani
19/5/25

San
19/05/2025

	Primary samples (BH core)						
	a. For Mo, Cu, Pb, Zn, Sn, W, Ag and Bi by AAS Method	Nos	4.1.7a & b	3,176	850	26,99,600	(15m MZ including HW+FW)
	b. Composite samples for 34 Elements by ICP-MS	Nos	4.1.14	7,731	-	-	
	External Check samples (10%) (BH Core)						
	a. For Mo, Cu, Pb, Zn, Sn, W, Ag and Bi by AAS Method	Nos	4.1.7a & b	3,176	85	2,69,960	
iii)	Petrographic & Mineragraphic samples (Surface+Bh Core Samples)						
a	Preparation of thin section	Nos	4.3.1	2,353	20	47,060	
b	Complete petrographic study report	Nos	4.3.4	4,232	20	84,640	
c	Preparation of polished section	Nos	4.3.2	1,549	20	30,980	
d	Complete mineragraphic study report	Nos	4.3.4	4,232	20	84,640	
e	Digital Photographs	Nos	4.3.7	280	20	5,600	
iv)	Specific gravity determination	Nos	4.8.1	1,605	5	8,025	
	Total - G					38,31,855	
	Sub Total - (A to G)					6,52,77,328	
H	Geological Report Preparation		5.2	For the projects exceeding Rs.300 Lakhs: A Minimum of Rs. 9 lakhs or 3% of the work whichever is more		19,58,320	

Santhi
19/5/25

Santhi
19/5/2025

I	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1/28th EC	2% of the Cost or Rs. 5.0 Lakhs whichever is lower		5,00,000	EA has to submit the Hhard copies and soft copies of final proposal along with maps and plan as suggested by the TCC-NMET in its meeting while clearing the proposal.
J	Peer review Charges		As per EC decision			30,000	
K	Total Estimated Cost without GST					6,77,65,648	
L	Provision for GST (18% of H)	%				1,21,97,817	GST will be reimburse as per actual and as per notified prescribed rate
M	Total Estimated Cost with GST					7,99,63,464	
N				Rs. In Lakhs		799.63	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.						

Santhi
19/5/25

Santhi
19/05/2025

**Preliminary exploration (G3) for molybdenum in Mannadipatti South Block & Ponnaiyar North Block (4.75 sq.km.), Uttangarai Sector,
Harur-Uttangarai Belt, District-Krishnagiri, Tamil Nadu
Implementing Agency : MECL**

Sl. No.	Activities	Unit	MONTHS																		
			1	2	3	4	5	6	Review	7	8	9	10	Review	11	12	13	14	15		
1	Camp Setting	Month																			
2	Survey work	Months																			
3	Geological mapping (1:2000 scale) in 4.75 sq.km. associated sampling																				
4	Ground geophysical survey	38 Lkm																			
5	Geophysical survey Report	1																			
6	Trenching work	300 cu.m.																			
7	Surface Drilling (2 rig) & associated works	m.																			
8	Geologist party days (field)	day																			
9	Sampling Party days, Core Sampling (1 party)	day																			
10	Camp Winding	Month																			
11	Laboratory Studies	Nos.																			
12	Geologist Party days in HQ (1 party)	day																			
13	Geological Report Writing with Peer Review	Month																			

Santhi
19/5/25

Santhi
19/05/2025

Annexure 6A

Estimated cost for General Exploration (G-2) for Graphite and Associated Minerals in Nagapuzha-Vadakhol Block, District: Ernakulam, Kerala
[Block area- 2.60 sq. km; Nos. of Borehole- 16, Schedule timeline- 12 months, Review - 4 & 8 months]
Implementing Agency : MECL

S. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item -SI No.	Rates as per SoC			
					Qty.	Amount (Rs)	
A	GEOLOGICAL WORK						
1	Geological Mapping (1:1000)-GSI map to be updated ,topographical survey, Borehole logging, sampling & Report writing						
i	Charges for one Geologist- Field	day	1.2	11,000	150	16,50,000	Including collection of beneficiation samples.
ii	Charges for one Geologist - HQ	day	1.2	9,000	45	4,05,000	
iii	2 labours/ party (Rs 541/day/labour) (As per rates of Central Labour Commissioner)	day	5.7	541	300	1,62,300	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
iv	Core Sampling -1 Samplers Labour charge not included	day	1.5.2	5,100	111	5,66,100	
v	4 labours/ party (Rs 541/day/labour) (As per rates of Central Labour Commissioner)	day	5.7	541	444	2,40,204	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or

[Signature]
19/5/25

[Signature]
19/05/2025

							respective State Govt. whichever is higher
2	Survey						
i	Topographical Survey	day	1.6.1a	8300	30	249000	Topographical Survey on 1:1000 (map updation)
ii	4 labours/ party (Rs 541/day/labour) (As per rates of Central Labour Commissioner)	day	5.7	541	120	64,920	
iii	Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes by DGPS and boundary coordinates	Per Point of observation	1.6.2	19,200	40	7,68,000	16 BHs and 7 boundary coordinates + 17 old GSI BHs
	Sub Total- A					41,05,524	
B	GEOPHYSICAL SURVEY						
i	Self-Potential	Line Km	3.3a	29600	0	-	
ii	Charges for one Geophysicist - HQ	day	3.18	9000	0	-	
	Sub Total- B					-	
C	TRENCHING						
	Trenching	Cu. M.	2.1.1	3330	100	3,33,000	
	Sub Total- C					3,33,000	
D	DRILLING						
i	Drilling upto 300m (Hard Rock) (1 rig)	m	2.2.1.4a	11,500	1,750	2,01,25,000	First level Bore hole plan may consider GSI BH
ii	Land / Crop Compansation	per BH	5.6	20,000	16	3,20,000	Amount will be reimburse as per actuals or max. Rs. 20000 per

Santhi
19/5/25

Santhi
19/05/2025

							BH with certification from local authorities
iii	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	16	32,000	
iv	Transportation of Drill Rig & Truck associated per drill	Km	2.2.8	36	6,600	2,37,600	Certification in this regard is required to be provided
v	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	6	3,00,000	
vi	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	2	5,00,000	2 rigs
vii	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	2	5,00,000	2 rigs
viii	Approach Road Making (Flat Terrain)	Km	2.2.10a	22,020	5	1,10,100	Road Making will be considered as per the requirement and Road Making Charges will be reimbursed later
ix	Core Preservation: One complete borehole plus mineralised cores of all the remaining Bhs	m	5.3	1,590	750	11,92,500	This amount will be reimbursed after successful delivery of the cores to concerned libraries/ authorities
	Sub Total- D					2,33,17,200	
E	LABORATORY STUDIES						
1	Chemical Analysis						
i	Primary & Check samples for Graphite						

Jonathn
19/5/25

Sam
19/05/2025

	a. Primary Samples for Proximate Analysis of Graphite: Fixed Carbon (FC), Ash (A), Moisture (M) and Volatile Matter (VM)	Nos	4.1.16	3,000	750	22,50,000	Trench-100nos, 600nos, BRS-50 BH-
	B-External (10%) Check samples from NABL Lab for Proximate Analysis of Graphite: Fixed Carbon (FC), Ash (A), Moisture (M) and Volatile Matter (VM)	Nos	4.1.16	3,000	75	2,25,000	
	c-XRF analysis for oxides (SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , CaO, MgO, Na ₂ O, K ₂ O, LOI and V ₂ O ₅)	Nos	4.1.15a	4,200	10	42,000	
	D-External (10%) Check samples from NABL Lab for XRF analysis for oxides (SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , CaO, MgO, Na ₂ O, K ₂ O, LOI and V ₂ O ₅)	Nos	4.1.15a	4,200	1	4,200	
	e-ICPMS Study for 34 elements study	Nos		7,731	50	3,86,550	mineralised zone in one borehole completely
2	Physical & Petrological Studies						
i	Preparation of thin section	Nos	4.3.1	2,353	10	23,530	
ii	Complete petrographic study report	Nos	4.3.4	4,232	10	42,320	
iii	Preparation of polished section	Nos	4.3.2	1,549	10	15,490	
iv	Complete mineragraphic study report	Nos	4.3.4	4,232	10	42,320	
v	Digital Photographs	Nos	4.3.7	280	10	2,800	
vi	Bulk Density studies	Nos	4.8.1	1,605	5	8,025	
vii	Thin section Preparation Raman spectroscopy	Nos	4.3.1	2,353	5	11,765	
viii	Raman Spectroscopy studies	Nos	As per actual	3,500	5	17,500	Price not available in SoC, SOR of GSI has

Santhi
19/5/25

Santhi
19/5/2025

							been considered.
ix	Beneficiation study for G2 stage mineral exploration project (Complete laboratory scale ore dressing investigation involving studies for recovery of mineral by various physical beneficiation methods)	Per Sample	4.7.2	5,00,000	2	10,00,000	Mix samples from Trench and Bore holes. Price not available in NMET SoC. Actual expenses at IBM rate will be considered (as per actuals)
	Sub Total- E					40,71,500	
D	Total A to E					3,18,27,224	
E	Geological Report Preparation		5.2	For the projects having cost exceeding Rs. 300 lakhs A min Rs. 9 lakhs or 3% of the value of work whichever is more		9,54,817	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
F	Peer review Charges		As per EC decision			30,000	

Donath
19/5/25

Ami
19/05/2025

G	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5 Lakhs whichever is lower		5,00,000	EA has to submit the Hard Copies and the soft copy of the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal.
H	Total Estimated Cost without GST					3,33,12,041	
I	Provision for GST (18% of I)					59,96,167	GST will be reimburse as per actual and as per notified prescribed rate
J	Total Estimated Cost with GST					3,93,08,208	
K	Rs. In Lacs					393.08	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.						

Jonathin
19/5/25

Ami
19/05/2025

General Exploration (G-2) for Graphite and Associated Minerals in Nagapuzha-Vadakhol Block, District: Ernakulam, Kerala
Implementing Agency : MECL

Sl. No.	Particulars	Months	1	2	3	4	Review	5	6	7	8	Review	9	10	11	12
1	Camp Setting/ mobilization	Months														
2	Geologist days	days														
3	Geophysist days	days														
4	Survey Days (2 party)	days														
5	Trenching	days														
6	Drilling (2 rig)	m														
7	Sampling days	days														
8	Camp winding	Months														
9	Laboratory Studies	days														
10	Beneficiation studies	days														
11	Geologist days, HQ	days														
12	Report Writing with Peer Review	days														

Jonathani
19/5/2015

Ami
19/05/2015

**Estimated cost for Preliminary Exploration (G3) for Limestone in Dongargaon-Kasara Block,
District- Yavatmal, Maharashtra**

Total Area - 6.06 Sq Km; Nos. of Borehole - 09; Borehole depth range - 50m (BGL); Completion Time - 10 Months, Review : after 5 months

Implementing Agency : MECL

S.N	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item -SI No.	Rates as per SoC	Qty.	Total Amount (Rs)	
A	GEOLOGICAL WORK						
1	Geological Mapping (1:4000), borhole logging & sampling and report writing along with Topographic survey						
a	Charges for one Geologist per day at HQ	day	1.3a	9,000	30	2,70,000	
b	Charges for one Geologist per day at field	day	1.3b	11,000	120	13,20,000	
c	Labour for Geologist (2 Nos)	day	5.7	541	240	1,29,840	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
d	Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	59	3,00,900	

Santhi
19/5/25

Santhi
19/05/2025

e	Labours for sampling work (4 Nos)	day	5.7	541	236	1,27,676	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
2	Survey (on 1:4000 Scale)						
a	Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes and block cardinal points by DGPS	Per Point of observation	1.6.2	19,200	13	2,49,600	Block cardinal point- 4 Borehole-9
b	Charges of one Surveyor (1 Party)	one surveyor per day	1.6.1a	8,300	30	2,49,000	Contouring at 2m interval
c	Labours (4 Nos)	day	5.7	541	120	64,920	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub Total A					27,11,936	
B	PITTING AND TRENCHING						
i	Pitting	Cu m	2.1.1	3330	30	99,900	
	Sub Tota B					99,900	
C	DRILLING						
1	Drilling -Soft rock	m	2.2.1.1b	7,168	450	32,25,600	MoC Rate
2	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	9	1,80,000	Amount will be reimbursed as per actuals or max. Rs. 20000 per BH with certification from local authorities

Santhi
19/5/25

Santhi
19/05/2025

3	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	13	26,000	Block cardinal point- 4 Borehole-9
4	Transportation of Drill Rig & Truck associated per drill	Km	2.2.8	36	400	14,400	To & fro
5	Monthly Accomodation Charges for drilling Camp (up to 1 Rigs)	month	2.2.9	50,000	3	1,50,000	
6	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	1	2,50,000	
7	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	1	2,50,000	
8	Road Making (Flat Terrain)	Km	2.2.10a	22,020	5	1,10,100	Road Making will be considered as per the requirement and Road Making Charges will be reimbursed accordingly.
9	Drill Core Preservation	per m	5.3	1,590	400	6,36,000	
Sub Total C						48,42,100	
D	LABORATORY STUDIES						
1	<u>Chemical Analysis</u>						
i)	Primary samples						
	a. For 10 radicals i.e. CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , SO ₃ , P ₂ O ₅ , K ₂ O, Na ₂ O and LOI by XRF	Nos	4.1.15a	4,200	430	18,06,000	Borehole Core-400 Pit-30
ii)	External Check samples (10%)						
	a. For 10 radicals i.e. CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , SO ₃ , P ₂ O ₅ , K ₂ O, Na ₂ O and LOI by XRF	Nos	4.1.15a	4,200	43	1,80,600	
iii)	Petrological samples (Bh Core Samples)						

Jonathani
19/5/25

Sani
19/05/2025

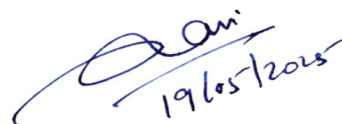
i	Preparation of thin section	Nos	4.3.1	2,353	5	11,765	
ii	Study of Thin Section	Nos	4.3.4	4,232	5	21,160	
iv)	Bulk Density Determination						
	Bulk Density	No.	4.10	3,540	2	7,080	
	Sub Total D					20,26,605	
E	Sub Total (A to D)					96,80,541	
F	Geological Report Preparation		5.2	For the projects exceeding Rs. 50 Lakhs but less than 150 Lakhs: A Minimum of Rs. 2.5 lakhs or 5% of the work whichever is more		4,84,027	EA has to submit the final Geological Report in Hard Copies (5 Nos) and soft copy to NMET
G	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1/28th EC	2% of the Cost or Rs. 5.0 Lakhs whichever is lower		1,93,611	EA has to submit the Hard copies and soft copies of final proposal along with maps and plan as suggested by the TCC-NMET in its meeting while clearing the proposal.
H	Peer review Charges		As per EC decision			30,000	
I	Total Estimated Cost without GST					1,03,88,179	
J	Provision for GST (18% of I)	%				18,69,872	GST will be reimburse as per actual and as per notified prescribed rate
K	Total Estimated Cost with GST					1,22,58,051	
				Rs. In Lakhs		122.58	

Donath
19/5/25

San
19/05/2025

Note:	
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.
5	Any item of work not mentioned above shall be added as per SoC.
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.


19/5/25


19/05/2025

**Preliminary Exploration (G3) for Limestone in Dongargaon-Kasara Block,
District- Yavatmal, Maharashtra
Implementing Agency : MECL**

Sl. No.	Activities	Unit	MONTHS										
			1	2	3	4	5		6	7	8	9	10
1	Camp setting	month						REVIEW					
2	Survey party days (1 Party)	day											
3	Trenching / Pitting	cu.m											
4	Surface drilling (1 rig)	m.											
5	Geologist party days in field (1 Party)	day											
6	Sampling party days for trench/pit and core sampling (1 party)	day											
7	Camp winding	month											
8	Laboratory studies	day											
9	Geologist party days in HQ (1 Party)	day											
10	Geological Report writing with peer review	month											

Santhi
19/5/2015

Santhi
19/05/2015

**Estimated Cost for Preliminary Exploration (G3) for Nickel, Chromium & Rare Metals
in Vemula Block, YSR (Kadapa) District, Andhra Pradesh**

Area: 3.80 sq.km, No. of Boreholes: 20, Drilling (after Review) Meterage - 1250m, Schedule timeline: 12 months, Review: 6 & 10months

Implementing Agency : MTCS

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	
	Phase I						
A	Geological Mapping Other Geological Work & Surveying						
	Geological mapping (1:2000 scale), pitting & geochemical sampling, drilling, core logging						
1	Charges for Geologist per day (Field) for geological mapping, pitting & geochemical sampling	day	1.2	11,000	140	15,40,000	
2	Labours Charges; Base rate	day	5.7	541	280	1,51,480	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
3	Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	128	6,52,800	

[Signature]
19/5/2015

[Signature]
19/05/2015

4	Labours (4 Nos) for sampling	day	5.7	541	512	2,76,992	
5	Geologist (HQ)	day	1.2	9,000	45	4,05,000	
	Sub Total- A					30,26,272	
B	Ground Geophysical Survey						
1	a. Gravity-Magnetic Survey	Station	3.1b	4,500	700	31,50,000	
	b. IP Survey	Line km	3.4a	69,950	50	34,97,500	
2	Geophysicist party days (Field)	per day	3.18	11,000	-	-	
3	Labours Charges - 4 No	day	5.7	541	-	-	
4	Geophysicist party days (HQ)	per day	3.18	9,000	20	1,80,000	
	Sub Total- B					68,27,500	
C	Survey work						
1	Demarcation of Block boundary by DGPS, Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes by DGPS	Per Point of observation	1.6.2	19,200	27	5,18,400	
2	Topographical Survey (on 1:2000 Scale)	day	1.6.1a	8,300	30	2,49,000	

Donath
19/5/2015

San
19/05/2015

3	Labours Charges for survey work - 4 no	day	5.7	541	120	64,920	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
	Sub-Total C					8,32,320	
D	Trenching/Pitting/Auger Drilling						
1	Excavation of Pits (depth 2.5m)	per cu.m	2.1.2	3,800	-	-	
2	Excavation of Trenches (depth 2.5m)	per cu.m	2.1.1	3,300	150	4,95,000	
	Sub-Total D					4,95,000	
E	LABORATORY STUDIES						
1	Chemical Analysis (ICP-MS) (Ni, Co, Cr, Cu, Pb, Zn, Ba, Mo, Rb, Sc, Sr, V, Zr)						
i)	Geochemical Sampling-Surface samples (BRS)						
	ICP-MS- 34 Elements package	Nos	4.1.14	7,731	100	7,73,100	
ii)	Surface Check samples (10% External)						
	ICP-MS 34 Elements package	Nos	4.1.14	7,731	10	77,310	
iii)	Trench samples						

Donalini
19/5/2015

Sanj
19/05/2015

	ICP-MS 34 Elements package	Nos	4.1.14	7,731	100	7,73,100	
iv)	Pit+Trench Check samples (10% External)						
	ICP-MS 34 Elements package	Nos	4.1.14	7,731	10	77,310	
2	Analysis for PGE (Pt, Pd, Ru, Rh, Ir, Os)						
	ICP-MS Ni-S Fire Assay	Nos	4.1.5d	11,800	20	2,36,000	
3	Whole Rock Analysis						
i	XRF Analysis for Major Oxides	Nos	4.1.15a	4,200	40	1,68,000	Core samples - 15, BRS-25
ii	Analysis for Minor Elements (ICP-MS for 34-Elements) (Ni, Co, Cr, Cu, Pb, Zn, Ba, Be, Bi, Cd, Cs, Ga, In, Li, Mo, Nb, Rb, Sb, Sc, Se, Sr, Sn, Ta, Te, Ti, V, W, Zr, Y, Th, U)	Nos	4.1.14	7,731	40	3,09,240	Core samples - 15, BRS-25
4	Analysis for REE						
	ICP-MS for 14 REE Elements	Nos	4.1.13	5,380	-	-	
5	Physical & Petrological Studies						
i	Preparation of thin polished section	Nos	4.3.1	2,353	40	94,120	
ii	Study of thin polished	Nos	4.3.4	4,232	40	1,69,280	

Donaldu
19/5/25

Ami
19/05/2025

	section						
iii	Digital Photographs	Nos	4.3.7	280	20	5,600	
iv	XRD Analysis	Nos	4.5.1	4,000	10	40,000	
v	EPMA studies	per hour	4.4.1	8,540	10	85,400	5 samples considered
	Sub-Total E					28,08,460	
	Sub-Total of Phase I					1,39,89,552	Review
	Phase II- After Review						
F	DRILLING- In House						
1	Drilling upto 300m (Very Hard Rock)	m	2.2.1.5a	12,650	1,250	1,58,12,500	
2	Borehole deviation Survey by Multishot Camera	m	2.2.6	330	1,250	4,12,500	
3	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	5	1,00,000	As per actual
4	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	20	40,000	
5	Transportation of Drill Rig & Truck associated per drill (1 rig)	Km	2.2.8	36	2,500	90,000	Transportation of 1 drill rig from Raipur, Chhattisgarh to Vemula, AP
6	Monthly Accommodation Charges for drilling Camp (1 Drill Rig)	month	2.2.9	50,000	5	2,50,000	
7	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	1	2,50,000	
8	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	1	2,50,000	
9	Road Making (Flat Terrain)	Km	2.2.10a	22,020	8	1,76,160	

Jonathani
19/5/25

Ami
19/05/2025

10	Drill Core Preservation	per m	5.3	1,590	750	11,92,500	
	Sub Total F					1,85,73,660	
G	BOREHOLE GEOPHYSICAL LOGGING						
1	Induced Polarisation (I.P)	m	3.11p	93	1,250	1,16,250	
2	Self-Potential (SP)	m	3.11b	39	1,250	48,750	
3	Geophysicist (Field)	day	3.18	11,000	-	-	
4	Labour (2 No) for BH geophysical survey	day	5.7	541	-	-	Amount will be reimbursed as per the notified rates by the Central Labor Commission or respective State Govt. whichever is higher
5	Geophysicist (HQ)	day	3.18	9,000	-	-	
	Sub Total G					1,65,000	
H	LABORATORY STUDIES						
i	Drill Core samples						
	ICP-MS	Nos	4.1.14	7,731	600	46,38,600	
ii	Drill Core Check samples (10%External)						
	ICP-MS	Nos	4.1.14	7,731	60	4,63,860	
2	Analysis for PGE (Pt, Pd, Ru, Rh, Ir, Os)						
	ICP-MS Ni-S Fire Assay	Nos	4.1.5d	11,800	30	3,54,000	

Santhi
19/5/25

Santhi
19/5/2025

3	Whole Rock Analysis						
i	XRF Analysis for Major Oxides	Nos	4.1.5a	4,200	-	-	
ii	Analysis for Minor Elements (ICP-MS for 34-Elements) (Ni, Co, Cr, Cu, Pb, Zn, Ba, Be, Bi, Cd, Cs, Ga, In, Li, Mo, Nb, Rb, Sb, Sc, Se, Sr, Sn, Ta, Te, Ti, V, W, Zr, Y, Th, U)	Nos	4.1.14	7,731	-	-	
4	Analysis for REE						
	ICP-MS for 14 REE Elements	Nos	4.1.13	5,380	15	80,700	
5	Physical & Petrological Studies						
i	Preparation of thin polished section	Nos	4.3.1	2,353	20	47,060	
ii	Study of thin polished section	Nos	4.3.4	4,232	20	84,640	
iii	Digital Photographs	Nos	4.3.7	280	20	5,600	
iv	Specific Gravity Determination	Nos	4.8.1	1,605	10	16,050	
6	Isotope Study						
i	Sulphur (S) isotopic analysis	Nos	As per Govt. Org	20,000	10	2,00,000	As per actual

Donath
19/5/25

Ami
19/05/2025

ii	Lead (Pb) isotopic analysis using MC-ICPMS	Nos	As per Govt. Org	38,700	10	3,87,000	As per actual
	Sub Total H					62,77,510	
	Sub-Total of Phase II					2,50,16,170	
I	Total Phase I + II					3,90,05,722	
J	Geological Report Preparation	5 Hard copies with a soft copy	5.2	iii		11,70,172	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
K	Peer review Charges		As per EC decision			30,000	
L	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is less		5,00,000	EA will be reimbursed after submission of the Hard Copies and the soft copy of the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal.
M	Total Estimated Cost without GST					4,07,05,894	
N	Provision for GST (18% of K)					73,27,061	GST will be reimbursed as per actual and as per notified prescribed rate

[Signature]
19/5/2015

[Signature]
19/05/2015

O	Total Estimated Cost with GST					4,80,32,955	
P				Rs. In Lakhs		480.33	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.						

Santhi
19/5/2015

Santhi
19/05/2015

Preliminary Exploration (G3) for Nickel, Chromium & Rare Metals in Vemula Block, YSR (Kadapa) District, Andhra Pradesh
Implementing Agency : MTCS

	Activity	Type of Job	Months														
			1	2	3	4	5	6	Review	7	8	9	10	Review	11	12	
	<u>Phase I</u>																
1	Desktop study (including obtaining clearances etc)	HQ															
2	Camp setting	Field															
3	Geological Mapping (including bedrock sampling, pitting & trenching)	Field															
4	Topography Survey	Field															
5	Geophysical survey (including mobilization & data acquisition)	Field															
6	Geophysical survey (interpretation & report)	HQ															
7	Laboratory Studies of Surface Samples	Field															
	<u>Phase II</u>																
8	Drill Rig mobilization	Field															
9	Drilling	Field															
10	Borehole Geophysical Survey	Field															
11	Camp winding up	Field															
12	Laboratory Studies of Core Samples	Field															
13	Geological Report Preparation & submission to NMET	HQ															

Jonathani
19/5/2015

San
19/05/2015

Estimated cost for Preliminary Exploration (G3) for Iron Ore in Madhyapur Block, Dist: Keonjhar, Odisha

Area: 6.5 sq. km.

Timeline: 12 months, Review: After 6 months

Implementing Agency : OMC

	Item of Work *		Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Rates as per NMET SoC 2020-21	Estimated Cost of the Proposal		Remarks/Justification
Sl. No.		Unit	SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	Rates as per SoC * (a)	Qty	Total Cost (Rs.)	
	Mapping(1:4000)									
	Inhouse									
1	Geology HQ	Man days	1.5.1b	9000	50	450000	9000	30	270000	
2	Geology Field	Man days	1.5.1b	11000	150	1650000	11000	100	1100000	
	Labour			504	300	151200	541	200	108200	
	Outsourced Component									
	XRF (Major Oxides)	4.1.15a		4200	300	1260000	4200	44	184800	As drilling was not carried out in the area, so core samples were not analysed and complete samples for XRF studies were not utilized and only BRS samples were analyzed.

Jonathani
19/5/25

Sanj
19/05/2025

	External Check (10%)	4.1.15a		4200	30	126000	4200	0	0	
	Preparation of thin section	4.3.1		2353	5	11765	2353	0	0	
	Study of thin Section	4.3.4		4232	5	21160	4232	0	0	
	Digital Photography	4.3.7		280	5	1400	280	0	0	
3	Sampler	Per Sampler	1.5.2	5100	41	209100	5100	0	0	
	Labour			504	164	82656	504	0	0	
4	DGPS Survey	Points	1.6.2	19200	11	211200	19200	0	0	
	Surveyor	Per day		8300	30	249000	8300	0	0	As drilling was not carried out in the study area, so DGPS survey only for the block boundary was carried out and not for the BHs collar points.
5	Drilling in Hard Rock	Per Meter	2.2.1.5	12650	750	9487500	12650	0	0	Based on the field observations & analytical data of BRS sample no mineralized zone was identified. Hence assessment of subsurface continuity of mineralization was not required.
	Total					11659781			1663000	
	Drill core preservation	5.3		1590	350	556500	1590	0	0	No drilling, so no core preservation required.

Jonathan
19/5/25

Sam
19/05/2025

	Sub Total (1 to 8)					14467481				
	Peer Review					30000			30000	
	Preparation of Exploration Proposal	5.1				289350			33260	to be calculated
	Tender processing cost	2.3				233196	NA			
	Operational Charges	6iv				957989	NA			
9	Geological Report with 5 copies	5.2	5.2	A minimum of Rs. 2.5 lakh or 5% of the Project Cost, whichever more		723374			150000	to be calculated
TOTAL						16701389			1876260	
GST(18%)						3006250			337727	
Total with GST						19707639			2213987	
Rs. In lacs						197 lakh			22.14	
Note:										
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.									
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.									
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.									
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.									
5	Any item of work not mentioned above shall be added as per SoC.									
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.									

Santhi
19/5/25

Santhi
19/05/2025

Annexure 10A							
Estimated Cost for undertaking Chemical Analysis of Mine Samples Agency : IBM							
S. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Total Cost of the Project		Remarks
			SoC-Item -SI No.	Rates as per SoC	Qty.	Total Amount (Rs)	
1.0	Other Geological Work/ Activities Miscellaneous Charges						
1.1	Sampling man days - sampler (core sample.) Labour charges not included	day	1.5.2	₹ 5,100.00	418	₹ 21,31,800.00	3340 (total samples)/8 (no. of samples processed each day)
1.2	4 Labours/ sampler (Rs 541/day/labour)(as per rates of central Labour Commissioner) for sampling work	day	5.7	₹ 541.00	1672	₹ 9,04,552.00	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. Whichever
	Sub Total 1					₹ 30,36,352.00	
2.0	Laboratory Studies						
2.1	Estimation on of major oxides by XRF technique	per sample	4.1.15a	₹ 4,200.00	3340	₹ 1,40,28,000.00	
2.2	14 REE elements/radicals by ICP	per sample	4.1.13	₹ 5,380.00	3340	₹ 1,79,69,200.00	
2.3	34 trace elements by ICP-AES	per sample	4.1.14	₹ 7,731.00	3340	₹ 2,58,21,540.00	
2.4	Gold by fire assay technique	per sample	4.1.5a	₹ 2,380.00	3340	₹ 79,49,200.00	
2.5	pge (IGP-MS Ni-S Fire	per sample	4.1.5d	₹ 11,800.00	3340	₹ 3,94,12,000.00	

[Signature]
19/5/2015

[Signature]
19/05/2015

	assay)						
2.6	Fixed Carbon in Graphite	per sample	4.1.16	₹ 3,000.00	100	₹ 3,00,000.00	
	Sub Total 2					₹ 10,54,79,940.00	
L	Total Estimated Cost without GST					10,85,16,292	
M	Provision for GST (18% of J)					1,95,32,932.56	GST will be reimburse as per actual and as per notified prescribed rate
N	Total Estimated Cost with GST					12,80,49,225	
				Rs. In Lakhs		1,280.49	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						

Donalini
19/5/2015

San
19/05/2015

Time Schedule/ Action plan for Financial Assistance from NMET funds for Undertaking Geo-chemical Analysis of Mine samples
Agency : IBM

S.no.	Activities	2025						
		April	May	June	July	August	September	October
1	Collection of samples from Mines and Plants							
2	Sampling and Analysis of the samples Collected							
3	Identification of potential Ares for further study							

Jonathani
 19/5/2025

Ami
 19/05/2025

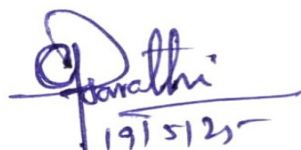
Timeline Extension for Ongoing Projects Approved / Recommended in the 76th Meeting of TCC-1

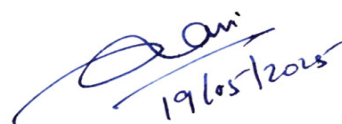
S. No.	Block/Project	Agency	Actual date of completion	Timeline Extension		Approval / Recommendation in 76 th TCC-1		
				Extended Timeline	Approving Authority	Timeline	Status	Reason
1.	Multi-sensor aero-geophysical surveys over blocks 7 & 9 (extension of project contract timeline of NAGMP Blocks 7 & 9)	GSI	31.03.2025	30.06.2025	31 st EC	31.03.2027 (21 months)	Recommended to EC	Redeployment of aircrafts by PIA
2.	Preliminary Survey (G3) for graphite in Lamer-Panga Block-A (13.99 sq. Km) in Kalahandi district of Odisha.	OMC	02.06.2024	31.03.2025	40 th EC	31.05.2025 (2 months)	Recommended to EC	GR Submission
3.	Preliminary exploration (G3) for Gold Exploration in Dimirimunda Block (5 Sq. Km), District: Keonjhar, Odisha.	OMC	04.10.2024	2.12.2024	70 th TCC	15.05.2025 (1.5 months)	Recommended to EC	GR submission
				31.03.2025	40 th EC			
4.	Preliminary exploration (G3) for Iron ore in Madhyapur Block (6.5 Sq.Km), District: Keonjhar, Odisha.	OMC	14.12.2024	14.03.2025	71 st TCC	15.05.2025 (15 days) recommended	Recommended to EC	GR submission
				30.04.2025	41 st EC			
5.	Preliminary Exploration (G3) for Limestone in Malkhed-1 North, Malkhed-1 South, Malkhed-2 North and Malkhed-2 South	MECL	21.04.2025	-	-	30.06.2025 (2.5 months)	Approved	For GR submission

[Signature]
19/5/25

[Signature]
19/5/2025

	Blocks (over an extent of 18.02 sq. km), Gulbarga District, Karnataka							
6.	Preliminary Exploration (G3) (Phase-1) for Gold in Kudrekonda Area (by Geophysical Survey, Devangere District, Karnataka.	MECL	26.02.2025	25.05.2025	73 rd TCC	25.06.2025 (1 month)	Recommended to EC	For GR submission
7.	Reconnaissance Survey (G4) for Graphite in Darukona Area, Rayagada, Odisha.	MMPL	14.12.2024	31.03.2025	39 th EC	31.05.2025 (2 months in 75 th TCC-I) 30.06.2025 (1 month)	Recommended to EC	For GR submission
8.	Reconnaissance Survey (G4) for Graphite in Kanapulisi Area, Rayagada, Odisha.	MMPL	12.12.2024/ 14.12.2024	31.03.2025	39 th EC	31.05.2025 (2 months in 75 th TCC-I) 30.06.2025 (1 month)	Recommended to EC	For GR submission
9.	Preliminary Exploration (G3) for Copper and associated Mineralization in Govindpur Block (0.83 sq.km.), Chandrapur District, Maharashtra.	Kartikay Exploration and Mining Services Pvt. Ltd	20.04.2025	-	-	20.07.2025 (3 months)	Approved	For GR submission


19/5/25


19/05/2025