

**Ministry of Mines**  
**National Mineral Exploration Trust**  
**Minutes of the 78<sup>th</sup> Technical-cum-Cost Committee-1 (TCC-1) meeting held on**  
**26<sup>th</sup>, 27<sup>th</sup> & 30<sup>th</sup> June, 2025 through video conferencing**

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The 78<sup>th</sup> 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 26<sup>th</sup>, 27<sup>th</sup> & 30<sup>th</sup> June, 2025.

Members of TCC-1, NMET and representatives from—DGM Maharashtra, DMG, Karnataka, DGM Odisha, DGM, Chhattisgarh, DGM Kerala, MECL, OMC Ltd., KIOCL, 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, Hindustan Copper Ltd., APC Drilling & Construction Pvt. Ltd., Critical Mineral Trackers, Gemcokati Exploration Pvt Ltd, Tata Steel 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.

**Agenda 78.1: Technical evaluation of new project proposals**

**Agenda 78.1.1. Reconnaissance Survey (G4) for Graphite in Dahita area (30.00 sq km), District Bargarh, Odisha.**

**[Implementing Agency: MECL]**

- a) The proposed block falls in Survey of India Toposheet No. 64P/01 and exposes lithounits of Eastern Ghat Mobile Belt, Odisha.
- b) The proposed block has been carved out by amalgamating 10A 2(b) leases/taken over leases for further exploration by the State Technical Committee (JWG) on 06.02.2023 and allotted to MECL for necessary action.
- c) The Geological Survey of India (GSI) conducted exploration in the proposed area during 1970-71, 1980-81, and 1981-82, reporting graphite resources and recommending further exploration in the surrounding regions. The proposed block is located approximately 7 km north of the Lachimal–Damipali area, which shares a similar geological setting favorable for graphite mineralization.
- d) In light of these earlier findings, a reconnaissance survey has been proposed. Prior to the submission of the proposal, MECL conducted a recent field visit to the area and collected five graphite samples, which yielded fixed carbon (FC) values of 1.6%, 6.0%, 7.6%, 15.5%, and 22.8%. The team also observed several abandoned open-pit quarries at Dangachhancha, Sargipalli, Dahigaon, and Bijamal, aligned along a continuous strike extension suggesting the potential for concealed graphite mineralization beyond the previously excavated zones.
- e) DMG, Odisha informed the committee that only Cluster-9, covering 15.796 sq km, was recommended for exploration in favor of MECL by the Technical Committee,

  
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considering the Taken over Leases. However, MECL has unilaterally increased the area to 30 sq km in the current proposal. Therefore, the area should be limited to 15.796 sq km as per the enclosed map reflecting the Taken Over Leases by DMG. Additionally, there is a local concern that no block should be auctioned without the consultation of locals. MECL should take note of it. Chairman advised DMG, Odisha to bring it to the notice of MoM for solution.

- f) Based on DMG's recommendations, the committee advised MECL to revise the proposed area, excluding roads, river, and reservoir areas, and to conduct only G3 stage investigation. MECL accordingly modified the block following all the suggestions given by the committee.

#### **Recommendations of TCC-1:**

**The committee recommended the proposal for approval of EC for "Preliminary Exploration (G-3) for Graphite in Dahita Block, District: Bargarh, Odisha." with an estimated cost of ₹203.14 lakh (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure - 2A & 2B. The item will be reviewed after 04 and 08 months.**

#### **Agenda.78.1.2. Reconnaissance Survey (G4) for Aluminium laterite and associated critical minerals in Nakhare area, District Ratnagiri, Maharashtra.**

**[Implementing Agency: Bhushilp Mines and Minerals Private Limited]**

- The proposed block falls in Survey of India Toposheet No. 47H/05 and belongs to Sahyadri Group in the Western Ghats as well as the rocks of the Dharwar Supergroup of rocks.
- The block lies near areas known for Aluminous laterite/bauxite and associated critical minerals, including Ghodepawadi, Nanar, Kumbhawade, Kalambewadi, Katta-Kalvi, Padve, and Paliye, with some blocks already put up for auction.
- GSI has conducted STM work in the area and confirmed the presence of laterite. NGCM data indicates  $Al_2O_3$  content ranging from 17.30% to 25.03%, V from 261 ppm to 813 ppm, and  $Fe_2O_3$  from 12.76% to 28.08%. Exploration south of the proposed area reported significantly higher  $Al_2O_3$  values in several blocks: Paliye (42.30%–55.50%), Nakere (41.18%–50.75%), Kombe (40.50%–44.00%), Chavanwadi (40.32%–43.84%), Nivali (44.01%–45.44%), and Ansure (43.36%).
- On asking DGM, Maharashtra informed that they will send their comment on the proposal shortly however they informed that they have not proposed any area in the block
- The committee thoroughly reviewed the proposal and noted that the block overlaps with an area already explored by GSI during FS 2022–24. GSI also indicated plans to target selective pockets in the future. The committee observed that Bhushilp did not provide a justified background, relying only on limited NGCM data. Therefore, Bhushilp was advised to consult GSI's RP item and relevant literature to strengthen the proposal.

#### **Recommendations of TCC-1:**

***The committee noted that Bhushilp's justification was inadequate, as it relied solely on limited NGCM data. Accordingly, Bhushilp was advised to refer to GSI's RP item and other relevant literature to strengthen the proposal and submit it again.***

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**[Implementing Agency: Hindustan Copper Limited]**

**Agenda.78.1.4. Reconnaissance Survey (G4) for Copper and associated mineralisation in Bodal area (in 21.75 sq.km area), District Mohla Manpur Ambagarh Chowki, Chhattisgarh.**

**[Implementing Agency: Hindustan Copper Limited]**

- ### **Recommendations of TCC-1:**

***The proposals should be revised and mounted for G4 level exploration, potentially combining both blocks due to their contiguous nature. GSI and AMD's data must be consulted to identify target zones for further exploration, and HCL may supplement this with field verification.***

**Agenda.78.1.5. Reconnaissance Survey (G4) for Bauxite, Aluminous Laterite and Associated Minerals around Rengalaberha, Sagasahi, Kashira Villages, Sundergarh District, Odisha.**

**[Implementing Agency: M/s Tata Steel]**

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- c) Additionally, just southeast of the proposed exploration block, there is an operating mine belonging to M/s Rungta Sons Pvt. Ltd., granted for the mining of both iron and bauxite.
- d) Geologists from Natural Resources Division recently conducted a field visit and collected samples from the area, which revealed the presence of bauxite and laterite with encouraging assay results. A total of 26 samples collected from laterites, out of which 12 samples yielded Al<sub>2</sub>O<sub>3</sub> values from 39.09 to 59.04%.
- e) DMG, Odisha informed the committee that >75% of the proposed area falls within the area earmarked for CL category and decision is pending with Govt. of Odisha.
- f) The committee decided not to recommend the item. However, it opined that if any area is left out, it may be considered for G3 stage exploration. The item may be reconsidered if the current CL proposal is not approved.

**Recommendations of TCC-1:**

**The committee recommended to put the proposal on hold till outcome of the CL block. Meanwhile, Tata steel may propose G3 exploration in free hold area. The committee advised DGM Odisha to intimate the outcome of the JWG meeting on the CL block auction.**

**Agenda.78.1.6. Preliminary Exploration (G3) for Bauxite, Vanadium, Gallium and associated minerals around Patgaon and Somlewadi villages (Patgaon Block), Sindhudurg district, Maharashtra**

**[Implementing Agency: M/S. Geo Marine Solutions Private Limited]**

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**Agenda.78.1.7. Preliminary Exploration (G-3) for Bauxite, Vanadium, Gallium and associated minerals around Pendhri village (Pendhri Block), Sindhudurg District, Maharashtra.**

**[Implementing Agency: M/S. Geo Marine Solutions Private Limited]**

- a) The proposed blocks lie on laterite capping of Deccan trap Basalt and they fall in part of SOI toposheet no. 47H/11.
- b) GSI conducted reconnaissance survey for bauxite and aluminous laterite in Phanasgaon area, Sindhudurg district, Maharashtra during FS: 2023-24 to assess the potential of bauxite and aluminous laterite and reported aluminous laterite/bauxite developed over basalts of Deccan Trap.
- c) The bauxite/laterite deposits in the Phanasgaon area are residually derived from underlying Deccan basalt under tropical to subtropical conditions. Bauxite profiling reveals a vertical sequence from fresh basalt at the base, transitioning through an altered zone and lithomargic clay, to laterite at the top. Surface expressions of bauxite include pisolitic/oolitic, massive, nodular, and concretionary forms of gibbsite within aluminous laterite. Field observations indicate that lateritization is localized, occurring only in specific lenses or zones. The deposits are lenticular or pocket-shaped with highly irregular bases, leading to variable thickness across the area.
- d) The samples analysed (100 BRS samples) from the area yielded the following Al<sub>2</sub>O<sub>3</sub>, SiO<sub>2</sub>, Fe<sub>2</sub>O<sub>3</sub>, Ga and V values

Parameter	BRS Range	BRS Avg	PTS Range	PTS Avg
Al <sub>2</sub> O <sub>3</sub> (%)	22.62 – 54.97	35.14%	27.07 – 50.81	36.76%
SiO <sub>2</sub> (%)	1.19 – 33.71	8.06%	1.65 – 17.45	7.03%
Fe <sub>2</sub> O <sub>3</sub> (%)	3.51 – 50.02	34.68%	10.59 – 47.25	33.48%

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<b>Ga (ppm)</b>	45 – 84	63.93 ppm	51 – 81	64.83 ppm
<b>V (ppm)</b>	79 – 1137	757.90 ppm	337 – 1039	696.38 ppm

- e) On the basis of chemical results of BRS and PTS samples, cumulative area of 06 sq km have been demarcated as potential for Bauxite in and around Pendhri, Goval, Somlewadi and Patgaon villages.
- f) The committee reviewed the item and advised that the Pendhri Block (approx. 14 sq. km) should be revised to cover only the western pockets, limiting it to around 6–7 sq. km. Depending on the results, the eastern sector may be considered for future exploration.
- g) The items were initially submitted for in-principle approval. After review, the committee advised Geomarine to submit Detailed Project Reports (DPRs) for both items, along with the proposed cost sheet, after incorporating all the suggestions provided by the committee.
- h) Accordingly, Geomarine submitted the DPRs for both items, incorporating all the suggested modifications.

#### **Recommendations of TCC-1:**

The committee recommended the proposal for approval of EC for “Preliminary Exploration (G3) for Bauxite, Vanadium, Gallium and associated minerals around Patgaon and Somlewadi villages (Patgaon Block), Sindhudurg district, Maharashtra.” with an estimated cost of ₹228.15 lakh (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure - 3A & 3B. The item will be reviewed after 04 and 08 months.

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The committee recommended the proposal for approval of EC for “Preliminary Exploration (G-3) for Bauxite, Vanadium, Gallium and associated minerals around Pendhri village (Pendhri Block), Sindhudurg District, Maharashtra.” with an estimated cost of ₹226.34 lakh (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure - 4A & 4B. The item will be reviewed after 04 and 08 months.

#### **Agenda.78.1.8. Reconnaissance survey (G4) for REE and associated minerals in Maddur area, Narayanpet District, Telangana.**

**[Implementing Agency: M/S. Critical Mineral Trackers]**

- a) The proposed Maddur area is part of the Narayanpet Kimberlite Belt and falls in part of SOI toposheet no. 56 H/9.
- b) GSI has identified 37 kimberlite bodies in the region, which are known diamond host rocks. However, unlike those in Wajrakarur and similar areas, these kimberlites have not yielded diamonds. These mantle-derived bodies include a few located within the proposed area. The terrain comprises grey biotite granite with patches of migmatite gneiss and metabasalt, while the northern part of the block contains a major shear zone with a discontinuous quartz reef extending several kilometers.
- c) CMT presented NGCM data showing significant arsenic (As) values in the proposed area, along with sporadic values for antimony (Sb) and rare earth elements (REEs). The committee reviewed the proposal and found the area to be promising, noting that it coincides with the Nellikudur region, where another agency is actively exploring for REEs.
- d) The item was initially submitted for in-principle approval. After review, the committee advised CMT to submit Detailed Project Reports (DPR) for the item, along with the proposed cost sheet.

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The committee recommended the proposal for approval of EC for “Reconnaissance Survey (G4) for REE and Associated Minerals in Maddur area, Narayanpet District, Telangana” with an estimated cost of ₹131.12 lakh (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure - 5A & 5B. The item will be reviewed after 04 and 08 months.

**Agenda.78.1.9. Reconnaissance Survey (G4) for REE, Ni, Co and PGE in Podili area, Prakasam District, Andhra Pradesh.**

**[Implementing Agency: M/S. Critical Mineral Trackers]**

- The proposed Podili area is Located in the vicinity of the Nellore Schist Belt (NSB) and Eastern Ghat Mobile Belt (EGMB) marginal zone in the undivided Prakasam and Nellore districts of AP and is a part of the Prakasam alkaline province (PAP). It falls in part of SOI toposheet no. 57M / 10 & 14.
- The Podili alkali granite is fluorite bearing with perthitic K feldspar, riebeckite - biotite arfvedsonite, astrophyllite, zircon and titanite which hosts the REEs.
- The proposed area hosts A-type granite plutons intruding pyroxene granulites, enderbite, and granodiorite–adamellite–granite complexes. It also contains nepheline syenites, hornblende syenites, quartz syenites, alkali granites, monzogranites, and lamprophyres-petrologically related to A-type granites with high REE mineralization potential.
- In addition, the area contains ultrabasic lithoassemblage such as pyroxenite, gabbro, noritic gabbro, and anorthosite, which have high potential to host nickel, cobalt, and PGE mineralization.
- The item was initially submitted for in-principle approval. After review, the committee agreed that the composition of the lithological assemblage in this block area has the potential to host REE, Ni, Co, and PGE Minerals/Elements and advised CMT to submit Detailed Project Report (DPR). Accordingly, the CMT submit the DPR.

**Recommendations of TCC-1:**

The committee recommended the proposal for approval of EC for “Reconnaissance Survey (G4) for REE, Ni, Co and PGE in Podili area, Prakasam District, Andhra Pradesh.” with an estimated cost of ₹190.22 lakh (including GST) within time schedule of 10 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.

**78.2. Project Evaluation for In-Principle Approval**

**Agenda 78.2.1. Reconnaissance Survey (G4) for Graphite, Manganese and associated minerals in Pittada-Mentada-Golupallem area, District Vizianagaram, Andhra Pradesh. [Implementing Agency: M/S. APC Drilling & Construction Private Ltd.]**

- The proposed area forms a part of SOI toposheet no. No. 65N/3 & N/7.
- In 2016-17, GSI conducted 1:12,500 scale mapping in parts of Toposheet No. 65N/3 (Mn: 0.16%–37.70%) and identified four potential blocks. Graphite mineralization was also reported in the Parasam-Garudabilli area.
- GSI (FS:2022-23) reported graphite mineralization as follows:

Location	FC Range (%)	Average FC (%)
Gunkalam area	0.31 – 10.44	5.00
Ompalli area	0.02 – 3.64	1.08
Ambatalasa area	0.27 – 4.88	2.28
Parasam area	0.43 – 7.00	1.98

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- d) Additionally, GSI reported manganese, cobalt, and associated mineralization in Ginnam and Lingalavalasa.
- e) Based on previous GSI exploration and Bhukosh geological maps, a 38.80 sq. km gap area has been identified for a G4-stage reconnaissance survey for graphite, manganese, and associated mineralization.
- f) The committee was informed that GSI had conducted STM in the area and had recommended certain zones in the report. However, the area proposed by APC does not fall within any of those recommended zones.
- g) Upon review, the committee observed that 50% of the proposed area consists of sillimanite gneiss, while the other half covers garnetiferous migmatite. APC was advised to focus on sillimanite gneiss for exploration.
- h) The item was proposed in 74<sup>th</sup> and 75<sup>th</sup> TCC but the committee did not approve the item and suggested APC Drilling & Construction Private Limited to visit the area, collect samples and if the analytical values are encouraging, APC Drilling & Construction Private Limited may come for in-principle approval.
- i) Accordingly, APC visited the area and found no manganese-bearing zones. They requested to withdraw the proposal, which the committee accepted.

**Recommendations of TCC-1:**

**APC withdrew the proposal after a field visit revealed no manganese-bearing zones in the proposed area, which the committee accepted.**

**Agenda 78.2.2. Preliminary exploration (G3), for REE mineralization in Anandpur block, Balrampur-Ramanujganj District, Chhattisgarh.**

**[Implementing Agency: M/S. APC Drilling & Construction Private Ltd.]**

- a) The proposed area falls in parts of SOI toposheet no. 63P/O8
- b) GSI, during F.S. 2021-22, conducted a Reconnaissance Survey for REE and Rare Metals in the Chhotanagpur Gneissic Complex around the Anandpur area. The survey reported Total REE (TREE) concentrations exceeding 500 ppm in 37 samples, with a maximum of 4718.47 ppm in a sample draining directly from the Anandpur block. The highest TREE in soil samples was 774.52 ppm, and four separate regolith samples also recorded TREE values above 500 ppm. The separated heavies also indicated about REE bearing phases in the proposed area. Trench samples show 30.89ppm to 842.96ppm TREE in the area.
- c) Based on these, the item has been prepared to target the pegmatite bodies falling within the proposed area.
- d) Upon review, the committee noted that the proposed area completely overlaps with GSI's G4 work. Additionally, AMD has conducted a radiometric survey in the area, and DMG, Chhattisgarh is currently carrying out G4 exploration, with results awaited. In the meantime, APC informed that they wish to withdraw it due to overlapping issues.

**Recommendations of TCC-1:**

**APC withdrew the proposal and the committee recommended that, if DMG's G4 results are found favorable, the block may be considered for further exploration, with upgradation to be carried out either by DMG or assigned to another agency.**

**Agenda 78.2.3. Reconnaissance Survey (G4) for Critical minerals associated with aluminous laterite in Dhaulvali-Barsu area, District Ratnagiri, Maharashtra.**

**[Implementing Agency: Bhushilp Mines and Minerals Private Limited]**

- a) The proposed area is well known for the occurrence of aluminous laterite in the Western Ghat and forms a part of SOI toposheet no. No. 47H/06.
- b) GSI investigated the area during 2002-03 in and around Nanar, Sade Chavanwadi, Paliye, Nakere, Shirse, Palekarwadi, Ansure, Nivel, Kombe, and Chavanwadi plateau, located south of the proposed block. The investigations

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indicated potential for aluminous laterite/bauxite, with  $\text{Al}_2\text{O}_3$  values ranging from 40.05% to 55.50%.

- c) Based on these earlier findings, the current G4-level Reconnaissance Survey has been planned.
- d) DMG, Maharashtra informed the house that there is no overlapping issue
- e) The committee noted that GSI has carried out RP item in this area which has not been consulted by Bhushilp and the item has been formulated only on the basis of NGCM data
- f) Bhushilp informed that GSI's latest work in respect of the area is not available in the NGDR. The committee advised Bhushilp the same to write to DDG, SU: Maharashtra.

**Recommendations of TCC-1:**

**The committee advised Bhushilp to conduct a field visit, study the area, and collect hard rock samples to generate data. A decision will be made based on the results of this exercise.**

**Agenda 78.2.4. Reconnaissance Survey (G4) for Base Metal and associated gold mineralization in North of Gangajhari area, District Bhandara, Maharashtra.**

**[Implementing Agency: Bhushilp Mines and Minerals Private Limited]**

- a) The proposed area forms a part of SOI toposheet no. No. 64C/3
- b) GSI's AMSE mapped two adjoining blocks viz. Gangajhari (West) and Gangajhari (East), north of Gangajhari (1993–1994)
- c) A few old pits in the ferruginised rocks north of Gangajhari (BIF and lateritised garnet mica schist) were sampled, yielding poor values for copper, lead, zinc, and gold. Three 30 kg bulk samples were processed using a Knelson concentrator, which indicated fine-grained gold dissemination in the rock.
- d) Concentration of other elements are as follows:


Element	Rock Type / Sample Type	Range (ppm)	Average (ppm)
Lead (Pb)	General bedrock samples	10 – 145	39
Zinc (Zn)	General bedrock samples	15 – 590	98.50
Nickel (Ni)	General bedrock samples	<10 – 195	45
Copper (Cu)	Quartzite samples (12 total)	15 – 95	55

- e) Though the values are less but, the presence of anomalous gold values in the lateritised and ferruginised garnet mica schist, along with associated Banded Iron Formation, is encouraging for gold mineralization, particularly given the beneficiation results, which achieved concentrations up to 2.23 ppm despite head samples showing <0.1 ppm gold.
- f) Since, comments were not received from state DGM, the committee decided to review the item after obtaining the comments. DGM, Maharashtra informed that they would send their comments soon

**Recommendations of TCC-1:**

**The committee suggested to review the item after receipt of comments from DGM Maharashtra.**

**Agenda 78.2.5. Preliminary Exploration (G3) for Bauxite, Vanadium, Gallium and associated mineral Patgaon-Somlewadi, Patgaon Block, District Sindhudurg, Maharashtra.**

  
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**[Implementing Agency: M/S. Geo Marine Solutions Private Limited]**

- a) The item was taken up as DPR and discussed in Agenda 78.1.6

**Agenda 78.2.6. Preliminary Exploration (G3) for Bauxite, Vanadium, Gallium and associated minerals Pendhri block, District Sindhudurg, Maharashtra.**

**[Implementing Agency: M/S. Geo Marine Solutions Private Limited]**

- a) The item was taken up as DPR and discussed in Agenda 78.1.7

**Agenda 78.2.7. Reconnaissance survey (G4) for REE and associated minerals in Maddur area, Narayanpet District, Telangana.**

**[Implementing Agency: Critical Mineral Trackers]**

- a) The item was taken up as DPR and discussed in Agenda 78.1.8

**Agenda 78.2.8. Reconnaissance Survey (G4) for REE, Ni, Co and PGE in Podili area, Prakasam District, Andhra Pradesh.**

**[Implementing Agency: Critical Mineral Trackers]**

- a) The item was taken up as DPR and discussed in Agenda 78.1.9

### **78.3 Technical Evaluation of Procurement Proposals/Baseline**

**Agenda 78.3.1. Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities**

**[Implementing Agency: DGM Kerala]**

- a) DGM, Kerala has submitted the proposal for procurements of machinery/ laboratory equipment/instruments etc. aimed at enhancing the exploration activities with an estimated cost of estimated cost of ₹ 9.95 crores.
- b) The committee deliberated on the proposal. It was observed that the cost of the instruments/ machinery for some of the items is beyond the ceiling rate of NMET. Further, the committee opined the quantum for two items may be revised.

The details of the proposal along with comments of the committee is as given below:

S. No.	Item	Quantity	Estimated Cost for per unit (Rs. In Lakh)	Total Estimated Cost (Rs. In Lakh)	NMET Total Estimated Cost (Rs. In Lakh)
1.	Polarizing Microscope With Camera and Software	1	20	20	20
2.	Petrographic Thin Section Unit	1	50	50	50
3.	Crawler Mounted Drill Rig With Associated Accessories	3	150	450	Cost to be revised
4.	WD XRF and Accessories	1	350	350	Cost to be revised , separating cost of each of accessories
5.	Vibratory Disc Mill with Grinding Sets	12	8.33	100	Cost/ Quantum to be revised

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6.	Certified Reference Material	30	0.83	25	Cost / Quantum to be revised
	Total			995	70

- c) The TCC-1 reviewed the proposals and opined that procurement of associated accessories in respect of Crawler Mounted Drill Rig need to listed out separately for costing. Further, the rate quoted against WD XRF needs to be revised as the same procured by DMG, Maharastra recently through NMET fund was much in the lower side. Besides, the quantities (nos.of units) proposed in respect of Vibratory Disc Mill with Grinding Sets and Certified Reference Material (CRM) also need more substantiation.
- d) However, the committee agreed for purchase of Polarizing Microscope With Camera and Software amounting to ₹20 Lakhs and Petrographic Thin Section Unit with estimated cost of ₹ 50 Lakhs and advised DGM, Kerala to present the required details in respect of items mentioning serial no 3 to 6 in the forthcoming TCC-1 meeting.

**Recommendations of TCC-1:**

**The TCC recommended the proposal for approval of EC towards procurement of equipment's/software's for DGM, Kerala with estimated cost of ₹ 70 Lakh as detailed at para (b) above, to enhance the Exploration activities in the state.**

**78.4 Review of Ongoing Project/ Completed Project & Timeline Extension**

**Agenda 78.4.1. Preliminary exploration (G3) for Manganese in Rongha block, District Bhandara, Maharashtra.**

**[Implementing Agency: DGM Maharashtra]**

- a) DGM Maharashtra informed that the project was approved in the 25<sup>th</sup> EC Meeting held on 29<sup>th</sup> June, 2022. The sanction order was issued on 27<sup>th</sup> July, 2022 with timeline of 15 months and approved cost was INR 90,17,447/-.
- b) DGM Maharashtra presented the progress of work and informed the committee that an area of 38.34 sq.km. in the parts of TS 55O/10 & 11 is covered. Topographic survey of 5 sq.km. is completed. Out of assigned target of 300 m of drilling (60 m depth; 05 BH), only 150 m has been completed (in 5 BH) due to encounter of basement.
- c) Detailed Geological Mapping on 1:5000 scale is done, wherein 5 prominent detached pockets of Manganese in a strike line of 4.5 km is recorded in band of Gondite.
- d) Out of 34 BRS samples analysed, 15 samples have given value of >10%, 5 samples have value of >20% of Mn.
- e) Time extension was sought for completion of project and revised cost sheet was submitted by DGM Maharashtra
- f) Committee enquired about the reason for delay for completion of item. DGM Maharashtra was instructed to submit the reason of delay to NMET, Secretariat along with supporting documents.
- g) The Committee instructed DGM Maharashtra and Finance Division, NMET to relook on this difference in sanctioned and utilized amount.

**Recommendations of TCC-1:**

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***The TCC recommended the closure of the item, and instructed the agency to submit the revised cost sheet in the next TCC-I meeting. The agency was also instructed to formally submit the reasons of delay along with supporting documents.***

**Agenda 78.4.2. Preliminary exploration for Limestone in Savalhira block (4.04 sq. km), District Chandrapur, Maharashtra.**

**[Implementing Agency: DGM Maharashtra]**

- a) DGM Maharashtra informed that the project was approved in the 25<sup>th</sup> EC Meeting held on 29<sup>th</sup> June, 2022. The sanction order was issued on 21<sup>st</sup> July, 2022 with timeline of 15 months and approved cost was INR 73,72,848/-. Time line was extended upto 31.03.2024 in 32<sup>nd</sup> EC meeting.
- b) The agency presented the progress of work and informed the committee that 4.04 sq. km has been mapped.
- c) 400 samples (380 from BH and 20 BRS) were analyzed, 12 samples were analyzed for Bulk Density against the target of 10 samples.
- d) Detailed mapping on 5000 scale was covered.
- e) The analytical results of 20 BRS samples suggested 8 nos., 4 nos., 3 nos. and 5 nos. of samples to be of cement, blast furnace, blend able and low grades respectively.
- f) The committee review the work in detail and suggested that in report, it should be mentioned that overburden is more and hence, mining cost would accordingly increase.
- g) Committee enquired about the reason for delay for completion of item. DGM Maharashtra was instructed to submit the reason of delay to NMET, Secretariat along with supporting documents.
- h) NMET, Secretariat was instructed to record all the correspondences made by DGM, Maharashtra in this regard.
- i) Committee also noted that out of approved INR 73 lakhs (approx.) and sanctioned INR 29 lakhs (approx.) only INR 22 lakhs has been utilized.
- j) The Committee instructed to relook on this difference in sanctioned and utilized amount.

***Recommendations of TCC-1:***

***The TCC recommended the closure of the item, and instructed the agency to submit the revised cost sheet in the next TCC-I meeting. The agency was also instructed to formally submit the reasons of delay along with supporting documents.***

**Agenda 78.4.3. Preliminary Exploration (G3) for gold and associated minerals in Sirigeri Block, Ballari district, Karnataka**

**[Implementing Agency: DMG Karnataka]**

- a) DMG Karnataka informed that the project was approved in the 32<sup>nd</sup> EC Meeting held on 06<sup>th</sup> December, 2023. The Sanction Order was issued on 15<sup>th</sup> December, 2023 with timeline of 12 months and approved cost was INR 3,45,18,638/-. The timeline extension upto 14.06.2025 in 39<sup>th</sup> EC meeting.
- b) The agency presented the progress of work. The agency informed that detailed mapping on 1:2000 scale is completed and at present drilling work is ongoing. The sulphides are recorded mostly as pyrite in the disseminated form. Few specks of

  
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chalcopyrite and galena is also recorded. The trench sample have yielded Au- value of upto 2gm/ton.

- c) The agency sought timeline extension citing the delay in drilling and upcoming monsoon season.
- d) The committee suggested to submit a formal request for timeline extension, along with justification.

**Recommendations of TCC-1:**

**The TCC recommended timeline extension of 6 months upto 14.12.2025 for approval of EC.**

**Agenda 78.4.4. Preliminary Exploration (G3) for Limestone in Alda Block, Districts Raipur & Balodabazar-Bhatapara, Chhattisgarh.  
[Implementing Agency: DGM Chhattisgarh]**

- a) DGM Chhattisgarh informed that the project was approved in the 33<sup>rd</sup> EC Meeting held on 19<sup>th</sup> February, 2024. The Sanction Order was issued on 28<sup>th</sup> February, 2024 with timeline of 10 months (up to 27.12.2024) and approved cost was INR 1,59,77,570/-. Timeline extension was approved upto 27.03.2025, 31.05.2025 and 30.06.2025 in 72<sup>nd</sup>, 42<sup>nd</sup> EC meetings respectively.
- b) The GR has been peer reviewed and the comments/ modifications attended was presented by agency.
- c) The committee suggested for repetition of analysis of bulk density and specific gravity for 4 nos. of samples from NABL accredited laboratory and resource may be recalculated.
- d) The committee suggested the agency to present the results as well as modified resource estimation in upcoming 79<sup>th</sup> TCC-I meeting.

**Recommendations of TCC-1:**

**The TCC recommended timeline extension of 1 month till 31.07.2025 for approval of EC for GR submission. The agency to come for review in 79<sup>th</sup> TCC-I meeting before GR submission.**

**Agenda 78.4.5. Reconnaissance Survey (G4) for Kanapulisi Graphite Block (98.3 sq.km.), District Rayagada, Odisha.  
[Implementing Agency: MMPL]**

- a) MMPL informed that the project was approved in the 32<sup>nd</sup> EC Meeting held on 06<sup>th</sup> December, 2023. The Sanction Order was issued on 15<sup>th</sup> December, 2023 with timeline of 12 months and approved cost was INR 1,69,49,726/-. Timeline extension was approved upto 31.03.2025 and 30.06.2025 in 39<sup>th</sup> and 42<sup>nd</sup> EC meetings respectively.
- b) The GR has been peer reviewed and the comments/ modifications attended was presented by agency.
- c) The graphite occurrences in the block occur as elongated lensoidal bands. The zone-A (Resource = 0.123 million tonne at 4.55 % FC) area can be upgraded into G-3 to investigate the reserve of graphite mineralization. The analyses of check samples for

  
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W do not give encouraging results, and hence the resource estimation for tungsten is avoided.

- d) The agency sought approval of submission of additional 53 m of core to the core library, which was approved.

**Recommendations of TCC-1:**

**The TCC recommended timeline extension of 15 days, upto 15<sup>th</sup> July, 2025 for approval of EC. The time extension is for GR submission. The project cost was also revised from ₹169.49 Lakh to ₹165.48 Lakh (Change in amount ₹-401745.91/- (reduced amount) as given at Annexure -7**

**Agenda 78.4.6. Reconnaissance Survey (G4) for Graphite in Darukona area, District Rayagada, Odisha.**

**[Implementing Agency: MMPL]**

- MMPL informed that the project was approved in the 32<sup>nd</sup> EC Meeting held on 06<sup>th</sup> December, 2023. The Sanction Order was issued on 15<sup>th</sup> December, 2023 with timeline of 12 months and approved cost was INR 1,73,81,649/-. Timeline extension was approved upto 31.03.2025 and 30.06.2025 in 39<sup>th</sup> and 42<sup>nd</sup> EC meetings respectively.
- The GR has been peer reviewed and the comments/ modifications attended was presented by agency.
- The graphite mineralisation in the block occur as elongated lensoidal bodies. The zone-B (Resource = 0.031 million tonne at 4.33 % FC) and zone-C (Resource = 0.085 million tonne at 3.48 % FC) can be upgraded to G-3 to investigate the reserve of graphite mineralization.
- The cumulative resource for Darukona block is 0.195 million tonne at average FC of 3.63% distributed in three different graphite zones
- The analyses of check samples for W do not give encouraging results, and hence the resource estimation for tungsten is avoided.

**Recommendations of TCC-1:**

**The TCC recommended timeline extension of 15 days, upto 15<sup>th</sup> July, 2025 for approval of EC, for GR submission.**

**Agenda 78.4.7. Preliminary Exploration (G3) for Limestone in Ponar Block, District Adilabad, Telangana.**

**[Implementing Agency: MMPL]**

- MMPL informed that the project was approved in the 39<sup>th</sup> EC Meeting held on 24<sup>th</sup> January, 2025. The Sanction Order was issued on 07<sup>th</sup> March, 2025 with timeline of 08 months (up to 09.10.2025) and approved cost was INR 1,04,08,196/-.
- MMPL presented the progress of work and informed that an area of 5.04 sq.km has been mapped on 1:4000 scale and 50 BRS samples are collected and analyzed. Drilling is to be initiated.
- During review in the 76<sup>th</sup> TCC-1 meeting MMPL was advised to revisit the map and understand the structure before planning the boreholes. Accordingly, MMPL presented the map again and they informed that the change in the dip direction in the lithounit is due to warping and faulting.

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- d) Boreholes are planned at 800 m intervals along the strike and 600 m across. The committee observed that the lithological sequence, from bottom to top, comprises shale, limestone, and dolomite.
- e) The committee discussed the project and instructed that drilling of 4 bore hole is to be done over limestone.
- f) Drilling of one borehole to be done over dolomite to estimate the thickness of dolomite or dolomite-limestone intercalation.
- g) The findings will be presented in the upcoming TCC meeting, and any further drilling in the dolomite sector will be undertaken based on the review of these results

**Recommendations of TCC-1:**

***The TCC recommended to complete drilling of one borehole over dolomite and come with results in 79<sup>th</sup> TCC-I meeting for review.***

**Agenda 78.4.8. Preliminary Exploration (G3) for Bauxite, Majhingamali block, District Rayagada & Kalahandi, Odisha.**

**[Implementing Agency: OMC]**

- a) OMC informed that the project was approved in the 11<sup>th</sup> EC Meeting held on 7<sup>th</sup> February, 2019.
- b) Timeline extension was extended upto 31.12.2023, 30.06.2024 and 30.06.2025 during 29<sup>th</sup>, 33<sup>rd</sup> and 36<sup>th</sup> EC meetings respectively.
- c) OMC informed the committee that the work has not progressed due to strong local agitation.
- d) The committee expressed dissatisfaction with the efforts, highlighting that only 0.04 sq. km (4.2 hectares) of detailed mapping has been completed over a span of approximately six years
- e) The committee asked the agency to surrender the item if they are unable to progress in work. The agency must submit the proper justification for the delay and surrender of item.
- f) TCC-I also pointed out that the sanctioned amount which was not utilized and instructed the Finance Division of NMET Secretariat to take a decision on it.

**Recommendations of TCC-1:**

***The TCC-1 instructed OMC to correspond with NMET about the present status of Majhingamali block and also to seek permission either to expedite the exploration or surrender the project, if needed.***

**Agenda 78.4.9. Preliminary Exploration (G3) for Bauxite in Keluamali block, District Kalahandi, Odisha**

**[Implementing Agency: OMC]**

- a) OMC informed that the project was approved in the 11<sup>th</sup> EC Meeting held on 11<sup>th</sup> February, 2019.
- b) In the 66<sup>th</sup> TCC of NMET held on 24<sup>th</sup>, 25<sup>th</sup> & 26<sup>th</sup> June, 2024 OMC informed that geological mapping, Surface Sampling & chemical analysis has been completed, but, drilling couldn't be initiated due to the local community issues in the area. However, meetings with villagers to resolve the issues are in progress. In view of the above, the TCC recommended time extension of the project upto 30<sup>th</sup> June 2025 to EC. This was

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approved by EC and there after sanction Order was issued on 07<sup>th</sup> March, 2024 with timeline of up to 31.03.2024 (as approved by 32<sup>nd</sup> EC) and approved cost was INR 3,39,05,242/- (Revised as 3,56,22,071/-).

- c) Timeline extension upto 31.12.2023 and 31.03.2024 was approved in 29<sup>th</sup> and 32<sup>nd</sup> EC meetings respectively.
- d) OMC informed the committee that the work has not progressed due to strong local agitation.
- e) The committee instructed OMC to send a formal letter requesting closure of project, citing appropriate reasons. OMC was instructed to submit the current status and the chronology of events that took place.

**Recommendations of TCC-1:**

***The TCC-1 instructed OMC to correspond with NMET about the present status of Keluamali block and also to seek permission either to expedite the exploration or surrender the project, if needed.***

**Agenda 78.4.10. Preliminary Exploration (G3) for Limestone in Jaharitola (3.34 sq. km) and Mundatola (4.34 sq. km) Blocks, District Sundargarh, Odisha.**

**[Implementing Agency: MECL]**

- a) MECL informed that the project was approved in the 37<sup>th</sup> EC Meeting held on 23<sup>rd</sup> September, 2024. The Sanction Order was issued on 23<sup>rd</sup> October, 2024 with timeline of 12 months (up to 22.10.2025) and approved cost was INR 2,85,75,457/-.
- b) MECL informed that the project was reviewed in 75<sup>th</sup> TCC-I meeting and pre-closure of item was recommended.
- c) The committee was apprised that the report has been peer reviewed and GR is to be submitted.

**Recommendations of TCC-1:**

***The item has already been pre-closed. Report is peer reviewed and final GR is to be submitted.***

**Agenda 78.4.11. Preliminary Exploration (G3) for Limestone in Malkhed-1 North, Malkhed-1 South, Malkhed-2 North and Malkhed-2 South Blocks (Over extent 18.02 sq. km), Gulbarga District, Karnataka.**

**[Implementing Agency: MECL]**

- a) MECL informed that the project was approved in the 37<sup>th</sup> EC Meeting held on 23<sup>rd</sup> September, 2024. The Sanction Order was issued on 22<sup>nd</sup> October, 2024 with timeline of 06 months (up to 21.04.2025) and approved cost was INR 1,21,84,885/-.
- b) Timeline extension upto 30.06.2025 was approved in 76<sup>th</sup> TCC-I meeting.
- c) MECL informed the committee that the report has been peer reviewed and the comments of peer reviewer has been attended.
- d) The committee discussed the peer review comments their compliance.

**Recommendations of TCC-1:**

***The agency informed that GR is to be submitted by 30.06.2025.***

**Agenda 78.4.12. Preliminary Exploration (G3) for Gold in Kudrekonda area by Geophysical Survey, Devangere District, Karnataka.**

  
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**[Implementing Agency: MECL]**

- a) MECL informed that the project was approved in the 33<sup>rd</sup> EC Meeting held on 19<sup>th</sup> February, 2024. The Sanction Order was issued on 27<sup>th</sup> February, 2024 with timeline of 12 months (up to 26.02.2025) and approved cost was INR 2,44,68,583/-.
- b) Time extension upto 26.05.2025 was approved in 73<sup>rd</sup> TCC-I meeting.
- c) MECL informed that the report is peer reviewed and the reviewer's comments has been attended.
- d) MECL sought timeline extension for final GR submission.

### **Recommendations of TCC-1:**

***The TCC recommended timeline extension of 1.5 months upto 15.07.2025 for approval to EC. The extension is given for GR submission.***

**Agenda 78.4.13. Preliminary Exploration (G3) for Limestone in Adegaon Block (5.35 sq. km), District Yavatmal, Maharashtra.**

**[Implementing Agency: MECL]**

- a) MECL informed that the project was approved in the 37<sup>th</sup> EC Meeting held on 23<sup>rd</sup> September, 2024. The Sanction Order was issued on 22<sup>nd</sup> October, 2024 with timeline of 08 months (up to 21.06.2025) and approved cost was INR 98,78,166/-.
- b) MECL apprised the committee that report has been submitted for peer review.

### **Recommendations of TCC-1:**

***The TCC approved timeline extension of 1 month upto 31.07.2025 for GR submission.***

**Agenda 78.4.14. Preliminary Exploration (G3) for Limestone in Hiwardhara Ganeshpura Block (2.81 sq. km), District Yavatmal, Maharashtra.**

**[Implementing Agency: MECL]**

- a) MECL informed that the project was approved in the 38<sup>th</sup> EC Meeting held on 29<sup>th</sup> November, 2024. The Sanction Order was issued on 12<sup>th</sup> December, 2024 with timeline of 10 months (up to 11.10.2025) and approved cost was INR 93,83,914/-.
- b) The analytical results are awaited and hence discussion will be made in next TCC meeting.

### **Recommendations of TCC-1:**

***Discussion to be done in next TCC meeting.***

**Agenda 78.4.15. Reconnaissance Survey (G4) for Gold in Bargur area, Bargur belt of Kolar Schist belt, District Krishnagiri, Tamil Nadu.**

**[Implementing Agency: MECL]**

- a) MECL informed that the project was approved in the 33<sup>rd</sup> EC Meeting held on 19<sup>th</sup> February, 2024. The Sanction Order was issued on 27<sup>th</sup> February, 2024 with timeline of 12 months (up to 26.02.2025) and approved cost was INR 2,50,28,266/-. Time extension upto 26.05.2025 was approved in 75<sup>th</sup> TCC-I meeting.
- b) MECL apprised the committee that that twenty samples shown gold values range from 0.05 ppm to 0.21 ppm Au from the area. Based on the outcome, two old working bearing areas (Banagaruguntha-1.3 sq.km. and Sakalagunta-1.76 sq.km.) have been

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demarcated as promising zones. Ground geophysical survey indicated anomaly zones in both the identified blocks.

- c) Initially it was proposed that 1 bore hole each in both the blocks may be done. However, MECL is now proposing to drill 2 BHs in one block only to avoid the forest covered area. The drilling is to be done to check the Ground geophysical anomaly at depth.
- d) MECL also sought an extension of 6 months for completion of drilling work.

**Recommendations of TCC-1:**

**The TCC recommended 5 months' time extension, upto 31.10.2025 to EC for approval for completion of project. Drilling of 2 BH in Banagaragunta block of this project has been approved by TCC-I.**

**Agenda 78.4.16. Reconnaissance Survey (G4) for REE & RM (Sc, Nb) mineralization in Samalpatti Block (28.5 sq. km extent), District Krishnagiri, Tamil Nadu.**

**[Implementing Agency: KIOCL]**

- a) KIOCL informed that the project was approved in the 38<sup>th</sup> EC Meeting held on 29<sup>th</sup> November, 2024. The Sanction Order was issued on 13<sup>th</sup> December, 2024 with timeline of 10 months (up to 12.10.2025) and approved cost was INR 1,32,11,953/-.
- b) KIOCL presented the progress of work completed till now.
- c) TCC was apprised that the analysis of samples yielded TREE value of 1122-1894 ppm, LREE of 348-5014 ppm and HREE value of 91-398 ppm.
- d) Monazite was reported from Samalpatti long ago, and the reported values further support its presence. The so-called carbonatite body in the area requires proper characterization to confirm its nature and potential
- e) KIOCL is advised to adopt comprehensive approach towards mineral phase which contains REE, petrography followed by EPMA, volumetric estimation (budgeting) of REE minerals, study of Nb, Ta and Sc and grain size wise classification etc.
- f) The committee noticed that there is no BRS component in approved NQT and suggested that whole rock analysis (34 elements) of samples (that has been analyzed for REE) may be done.
- g) Committee also suggested to increase Petrological studies and XRD and EPMA probe to be added to NQT.

**Recommendations of TCC-1:**

**The TCC recommended additional Quantum of work and the cost of project was revised from ₹ 1,32,11,953/- to ₹ 1,32,73,904/- (Difference in amount : Rs. 61,951/-) as given at Annexure 8.**

**Agenda 78.4.17. Preliminary exploration (G3) for Graphite in Arasanur East Block (1.93 sq km extent), District Shivaganga, Tamil Nadu.**

**[Implementing Agency: KIOCL]**

- a) KIOCL informed that the project was approved in the 38<sup>th</sup> EC Meeting held on 29<sup>th</sup> November, 2024. The Sanction Order was issued on 13<sup>th</sup> December, 2024 with timeline of 10 months (up to 12.10.2025) and approved cost was INR 1,32,11,953/-.
- b) KIOCL presented the progress of work done till now. KIOCL informed that approved quantum targets of detailed geological mapping (1:2000 scale), Geophysical surveys

  
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has been completed. The committee was also apprised that trenching and drilling work is under progress.

- c) KIOCL informed that in the completed boreholes, graphite zones are recorded from about 26 m to 32 m.
- d) The committee enquired about the delay in drilling work. KIOCL informed that delay in drilling work was due to delay in outsourcing process and due to standing crops.
- e) The committee noted that core recovery is very less and may pose a problem for resource estimation. Hence, one or two boreholes may be planned at 60 m vertical depth.
- f) The committee also noted that BH-1 is over, 2 and 3 are in progress all are drilled for 30 m vertical depth, hence the committee suggested that the next (4<sup>th</sup>) BH is to be done till 60 m depth and depending upon outcome, decision regarding depth of other boreholes would be taken.
- g) TCC instructed agency to come for review in upcoming TCC meeting, after completion of 1 BH as suggested.
- h) KIOCL sought a time extension for completion of drilling work.

**Recommendations of TCC-1:**

***The TCC recommended timeline extension of 7 months, upto 31.12.2025 for approval of EC. The extension is approved for completion of work.***

**Agenda 78.4.18. Reconnaissance Survey (G4) for polymetallic mineralization (Au, Cu, Ni, Co) in Dharwar Shimoga Schist Belt of Nagavanda area Davangere, Haveri and District Shimoga, Karnataka.**

**[Implementing Agency: KIOCL]**

- a) KIOCL informed that the project was approved in the 38<sup>th</sup> EC Meeting held on 29<sup>th</sup> November, 2024. The Sanction Order was issued on 13<sup>th</sup> December, 2024 with timeline of 10 months (up to 12.10.2025) and approved cost was INR 1,32,11,953/-. Timeline extension upto 30.06.2024, 31.12.2024 and 31.05.2025 was approved in 63<sup>rd</sup> TCC, 36<sup>th</sup> EC and 40<sup>th</sup> EC meetings respectively.
- b) The agency presented the progress of work and apprised the committee that GR has been submitted for peer review.
- c) TCC-I enquired if all the quantum of work has been achieved. KIOCL informed that targets have been achieved.
- d) The committee stated that cost ratification is required for tender processing, operational charges related to outsourced components, and the revised Peer Reviewer fee.
- e) The agency requested for re-estimation of cost sheet.

**Recommendations of TCC-1:**

***The TCC recommended that the KIOCL may present their revised cost sheet in the upcoming 79<sup>th</sup> TCC-I meeting.***

**Agenda 78.4.19. Reconnaissance Survey (G4) for Iron Ore in Arewada – Hitapadi Block (27 sq km), District Gadchiroli, Maharashtra**

**[Implementing Agency: Gemco Kati Exploration Private Limited]**

  
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- a) Gemco Kati Exploration Private Limited informed that the project was approved in the 38th EC Meeting held on 29th November, 2024. The Sanction Order was issued on 06th January, 2025 with timeline of 06 months (up to 05.07.2025) and approved cost was INR 16,57,688/-.
- b) The company apprised the committee about the progress of work and sought nomination for peer review of GR.
- c) The committee was not satisfied with the ore microscopic study carried out.
- d) The agency sought extension of time for submission of Geological Report (GR).
- e) The committee instructed that lab protocols, particularly for XRD analysis, must be strictly followed. It is recommended that geologists from Gemcokati be sent to laboratories where the analyses are being conducted, such as those of AMD, GSI, or NGRI, to ensure proper coordination and quality assurance
- f) The committee agreed for peer review of report subject to inclusion of suggested XRD studies in report.
- g) The committee also instructed agency to come for review in TCC, after peer review of report is completed.

**Recommendations of TCC-1:**

***The TCC recommended a timeline extension of 2 months upto 31.08.2025 for additional analysis and submission of GR.***

**Agenda 78.4.20. Preliminary Exploration (G3) for Limestone in Sawalhira (East) Block, District Chandrapur, Maharashtra.**

**[Implementing Agency: Gemco Kati Exploration Private Limited]**

- a) GemcoKati Exploration Private Limited 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/-. Time extension upto 30.06.2025 was approved in 75th TCC-I meeting
- b) The agency apprises the committee about progress of work and informed that part of drilling component could not be initiated as Forest clearance permission is still pending with competent authorities (APCCF/Nodal Officer, Nagpur).
- c) The analytical results from the completed Borehole yielded CaO % from 14 to 41%, while MgO varied from 1.3 to 4.3%. The committee opined that while the surface sample results are encouraging, the subsurface samples do not show promising CaO values. Accordingly, it was advised to conclude the exploration and submit a revised cost sheet for approval.
- d) The committee instructed the agency to give formal request to NMET for pre closure of project, citing technical reasons.

**Recommendations of TCC-1:**

***The TCC recommended the pre-closure of project to EC for approval and advised Gemcokati for submission of revised cost sheet in the next TCC-1 of NMET.***

**Agenda 78.4.21. Preliminary Exploration (G3) for Ramghad Iron and Manganese mineralization near Ramghad Village, District Ballari, Karnataka.**

**[Implementing Agency: Ecomen Mining Pvt Ltd.]**

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- a) Ecomen Mining Pvt Ltd. informed that the project was approved in the 35<sup>th</sup> EC Meeting held on 16<sup>th</sup> May, 2024. The Sanction Order was issued on 10<sup>th</sup> June, 2024 with timeline of 12 months (up to 09.06.2025) and approved cost was INR 1,64,36,127/-.
- b) The agency presented the progress of work and informed that Detailed Geological Mapping on 1:4000 scale and Topographic survey was completed for 1.0828 sq. km. Pitting, trenching and drilling components of work could not be taken due to forest clearance issue.
- c) Two bands of BHQ/HSIO was traced discontinuously, with width ranging from about 10m to 50m, for a strike length of about 1.8 Km. Chemical analysis of 51 bedrock samples analyzed Fe ranging from 20.86 % to 67.06%, whereas, only two samples yielded Mn percentage above threshold value i.e. 28.33% and 38.66%.
- d) The agency requested for consideration of revised drilling proposals at par with DCF letter to reduce the number of tree to be felled for acquiring Forest permission, without compromising the objectives to evaluate resources.
- e) The agency also sought an extension of timeline up to 31<sup>st</sup> December 2025 to complete the drilling including acquiring Forest Permission as per the revised proposal.
- f) The committee opined that locations of three boreholes out of five need to be changed to reduce the number of trees to be fell without compromising the geological objectives.

**Recommendations of TCC-1:**

**The TCC recommended timeline extension of 6.5 months, upto 31<sup>st</sup> December, 2025 for approval of EC, for completion of project.**

**Agenda 78.4.22. Preliminary Exploration (G3) for Gold in Chinnikatti Block (Area- 7 sq. km.), District Haveri, Karnataka**

**[Implementing Agency: Mining Tech Consultancy Service Limited (MTCS)]**

- a) Mining Tech Consultancy Service Limited (MTCS) informed that the project was approved in the 39<sup>th</sup> EC Meeting held on 24<sup>th</sup> January, 2025. The Sanction Order was issued on 26<sup>th</sup> March, 2025 with timeline of 12 months (up to 09.02.2026) and approved cost was INR 4,69,08,089/-.
- b) MTCS is pursuing with DoEF and approval is awaited and informed the committee that FC may be approved in two phases. i.e prior to drilling and after drilling. Application is lying with PCCF and expected in about 10 to 15 days.
- c) The committee advised to expedite the activities.
- d) The agency sought an extension of timeline for completion of work.

**Recommendations of TCC-1:**

**The TCC recommended that 1<sup>st</sup> phase of work should be completed and get it reviewed and then only timeline extension may be considered.**

**Agenda 78.4.23. Reconnaissance Survey (G4) for Gold and associated minerals near Killarhatti (Area-14 sq.km.), District Koppal & Raichur, Karnataka.**

**[Implementing Agency: Mining Tech Consultancy Service Limited (MTCS).]**

- a) Mining Tech Consultancy Service Limited (MTCS) informed that the project was approved in the 38<sup>th</sup> EC Meeting held on 29<sup>th</sup> November, 2024. The Sanction Order

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was issued on 07th March, 2025 with timeline of 10 months (up to 06.01.2025) and approved cost was INR 3,74,34,976/-.

- b) The agency informed that there are two areas with forest cover. An area of 0.34 sq.km. is under Koppal Forest Division, while another 1.55 sq. km is under Raichur Forest Division.
- c) The working permission for Koppal Forest Division, received on 14.05.2025.
- d) The committee observed that no work has been done even for non-forest areas.

**Recommendations of TCC-1:**

***The TCC recommended that review of item will be done after some progress of work.***

  
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## Annexure-1

### List of participants attended 78<sup>th</sup> meeting of Technical-cum-cost Committee (TCC-I) of NMET held on 26<sup>th</sup>, 27<sup>th</sup> and 30<sup>th</sup> June, 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
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18	Shri C S Ramesh	GM (Exploration)	gmexploration@apcdrilling.co	9980544027	APC Drilling & Construction Private Limited

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62	Ms. Bishakha	Senior Geologist	nmet.mines@gov.in	8126541605	NMET Sectt.

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64	Smt. Palak Kapoor	Senior Geologist	nmet.mines@gov.in	8851742488	NMET Sectt.
65	Shri. Akshay Verma	Geologist	nmet-mines @gov.in	9911258955	NMET Sectt.

  
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**Estimated Cost for Preliminary Exploration (G-3) for Graphite in Dahita Block, District: Bargarh, Odisha.**  
**[Block area- 5.40 sq. km; Nos. of Borehole- 11; Borehole depth range: 60m; Total meterage : 700m, Schedule timeline- 12 months, Review after: 4 & 8 month]**

**Phase I: Geological and Geophysical Mapping with contouring, Trenching; Phase : II - Drilling**

**Name of the Exploration 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 Contouring (1:2,000)						
i	Charges for one Geologist- Field	day	1.2	11,000	150	16,50,000	
ii	Charges for one Geologist - HQ	day	1.2	9,000	30	2,70,000	
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 reimburse 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	54	2,75,400	
v	4 labours/ party (Rs 541/day/labour) (As per rates of Central Labour Commissioner)	day	5.7	541	216	1,16,856	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
2	Survey						
i	Topographical Survey	day	1.6.1a	8300	40	332000	Topographical Survey on 1:2000 (2 m contour interval)

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ii	4 labours/ party (Rs 541/day/labour) (As per rates of Central Labour Commissioner)	day	5.7	541	160	86,560	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
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	20	3,84,000	11 Boreholes and 9 block boundary points
	<b>Sub Total- A</b>					<b>32,77,116</b>	
<b>B</b>	<b>GEOPHYSICAL SURVEY</b>						
i	Self Potential (8-20 line Km)	Line Km	3.3a	29600	30	8,88,000	Geophysical Survey at 100 m traverse interval i.e. 30 Line Km. 20m point spacing.
iii	Charges for one Geophysicist - HQ	day	3.18	9000		-	<b>to be Checked by finance dept ! Provision</b>
	<b>Sub Total- B</b>					<b>8,88,000</b>	
<b>C</b>	<b>TRENCHING</b>						
i	Trenching (1m x 2m x15m): 10 trenches	Cu. M.	2.1.1	3330	300	9,99,000	
	<b>Sub Total- C</b>					<b>9,99,000</b>	
<b>D</b>	<b>DRILLING</b>						
i	Drilling upto 300m (Hard Rock) (1 rig )	m	2.2.1.4a	11,500	700	80,50,000	
ii	Land / Crop Compensation	per BH	5.6	20,000	11	2,20,000	Amount will be reimburse as per actuals or max. Rs. 20000 per BH with certification from local authorities
iii	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	11	22,000	

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iv	Transportation of Drill Rig & Truck associated per drill	Km	2.2.8	36	1,000	36,000	Certification in this regard is required to be provided (Nagpur to Balangir)
v	Monthly Accommodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	3	1,50,000	
vi	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	1	2,50,000	
vii	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	1	2,50,000	
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 (As per actuals)
ix	Core Preservation: One complete borehole plus mineralised cores of all the remaining Bhs	m	5.3	1,590	225	3,57,750	This amount will be reimbursed after successful delivery of the cores to concerned libraries/authorities
	<b>Sub Total- D</b>					<b>94,45,850</b>	
<b>E</b>	<b>LABORATORY STUDIES</b>						
<b>1</b>	<b>Chemical Analysis</b>						
<b>i</b>	<b>Primary &amp; Check samples for Graphite</b>						
	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	340	10,20,000	Bedrock: 25, Trench: 150, BH:165
	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	34	1,02,000	

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	c-XRF analysis for major oxides and vanadium	Nos	4.1.15a	4,200	50	2,10,000	Borehole sample: 50 (Only for Vanadium)
	d-External(10%) Check samples from NABL Lab for XRF analysis of vanadium	Nos	4.1.15a	4,200	5	21,000	Borehole sample: 5
<b>2</b>	<b>Physical &amp; Petrological Studies</b>						
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	2	3,210	
vii	Raman Spectroscopy	Hrs		3,345	6	20,072	Price not available in SoC, NMET. This rate is based on the last analysis rate carried out at GSI Lab. However escalation will be considered during execution. Will be reimbursed as per actual cost through outsourcing.
	<b>Sub Total- E</b>					<b>15,02,742</b>	
<b>D</b>	<b>Total A to E</b>					<b>1,61,12,708</b>	
<b>E</b>	<b>Geological Report Preparation</b>		<b>5.2</b>	For the projects having cost exceeding Rs. 150 lakhs and less than Rs. 300 lakhs - A minimum of Rs. 7.5 lakhs or 3% of the value of work whichever is more		<b>7,50,000</b>	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.

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F	Peer review Charges		As per EC decision			30,000	
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		3,22,254	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					1,72,14,962	
I	Provision for GST (18% of I)					30,98,693	GST will be reimburse as per actual and as per notified prescribed rate
J	Total Estimated Cost with GST					2,03,13,655	<b>or Say Rs. 203.14 Lakh</b>
K	Rs. In Lacs					203.14	
<b>Note:</b>							
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.						

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## Annexure 2B

## Time Schedule/ Action Plan for Preliminary Exploration (G-3) for Graphite in Dahita Block, District: Bargarh, Odisha.

Sl.	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	Survey Party Days	days														
4	Geophysist days	days														
5	Trenching	days														
6	Drilling	m														
7	Sampling days	days														
8	Camp winding	Months														
9	Laboratory Studies	days														
10	Geophysist days	days														
11	Geologist days, HQ	days														
12	Report Writing with Peer Review	days														

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**Estimates Cost for Preliminary Exploration (G3) for Bauxite, Vanadium, Gallium and associated mineral Patgaon-Somlewadi, Patgaon Block, District Sindhudurg, Maharashtra.**

**Total Area - 7.0 Sq. Km; BH: 40, Drilling- 800m, Depth : 20m, Completion Time - 12 Months, Review: after 4 & 8 months**

**Phase I: Mapping & Sampling**

**Phase II: Drilling**

**Name of the Exploration Agency – M/S. Geo Marine Solutions Private Limited**

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.	Total Amount (Rs)	
<b>A</b>	<b>Geological Mapping Other Geological Work &amp; Surveying</b>						
	Geological mapping, (1:4,000 scale)						
i	a. Charges for Geologist per day (Field)	day	1.3	11,000	140	15,40,000	
ii	b. Labours Charges; Base rate	day	5.7	541	280	1,51,480	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	40	3,60,000	
	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	105	5,35,500	
	Labour(4 labour) attached to sampler	day	5.7	541	420	2,27,220	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or

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							respective State Govt. whichever is higher
	<b>Sub Total- A</b>					<b>28,14,200</b>	
<b>C</b>	<b>Survey work</b>						
a	Surveyor for topographic survey/DGPS Survey and for BH fixation & RL determination	Per Point of observation	1.6.2	19,200	44	844800	40 BH plus & Boundary points
b	Charges of Surveyor (1 party) for topographic mapping in 1:4000 scale	one surveyor per day	1.6.1a	8,300	30	249000	7.0 Sq.km
c	Labours Charges for survey work(4 labourers)	day	5.7	541	120	64920	
	<b>Sub-Total C</b>					<b>11,58,720</b>	
<b>E</b>	<b>DRILLING (In-house)</b>						
1	Drilling in medium hard rock 20 m, or upto bedrock whichever is occurring first (40 BH *20)	m	2.2.1.3a	10,100	800	80,80,000	iron rich laterite capping
2	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH					as per actuals / SoC and details will be submitted during Review
3	Transportation of Drill Rig & Truck associated per drill (1 rigs)	Km	2.2.8	36	1,020	36,720	(From Manglore to Sindhudurg)
4	Monthly Accommodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	5	2,50,000	
5	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	1	2,50,000	
6	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	1	2,50,000	
7	Drill core Preservation	m	5.3	1,590	800	12,72,000	
	<b>Sub Total E</b>					<b>1,01,38,720</b>	
<b>G</b>	<b>LABORATORY STUDIES</b>						
1	<b>Chemical Analysis</b>						
v)	<b>BH Core samples</b>						
	Primary for major oxides and LOI by XRF technique	Nos	4.1.15a	4,200	640	26,88,000	560 core samples & 80 bed rock samples

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	10 percent check samples	Nos	4.1.15a	4,200	64	2,68,800	
	b.Primary For REE ,Ga,V ,Sc,Y,Nb,Ta,Li and other Trace elements : by ICPMS 34 elements : by ICPMS	Nos	4.1.14	7,731	100	7,73,100	
	10 percent check samples	Nos	4.1.14	7,731	10	77,310	Check samples
	Combined determination of Trihydrate Alumina(THA-140°C), Monohydrate Alumina(MHA-240°C)& Reactive Silica	Nos	4.1.17a	6,700	5	33,500	
	Determination of Trihydrate Alumina (THA-140°C)	Nos	4.1.17b	2,000	5	10,000	
	Determination of Monohydrate Alumina(MHA-240°C)	Nos	4.1.17c	3,500	5	17,500	
	Determination of Reactive Silica	Nos	4.1.17d	1,500	5	7,500	
	Determination of Bond Work Index	Nos	4.1.17e	10,000	5	50,000	
2	<b>Physical &amp; Petrological Studies</b>						
i	Preparation of thin section	Nos	4.3.1	2,353	10	23,530	
iii	Preparation of polished section	Nos	4.3.3	1,185	10	11,850	
ii	petrographic/ore microscopic study	Nos	4.3.4	4,232	20	84,640	
v	Digital Photographs	Nos	4.3.7	280	20	5,600	
	XRD	Nos	4.5.1	4,000	10	40,000	
	Determination of in-situ bulk density	Nos	4.10	3,540	5	17,700	
	<b>Sub Total G</b>					<b>41,09,030</b>	
<b>H</b>	<b>Total A to H</b>					<b>1,82,20,670</b>	
<b>I</b>	<b>Geological Report Preparation</b>	<b>5 Hard copies with a soft copy</b>	<b>5.2</b>	Exploration cost exceeding 150 lakh but less than 300 lakh : A Minimum of ₹7.5 lakh or 3% of the work whichever is more		<b>7,50,000</b>	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
<b>J</b>	<b>Peer review Charges</b>					<b>30,000</b>	

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<b>K</b>	<b>Preparation of Exploration Proposal (5 Hard copies with a soft copy)</b>	<b>5 Hard copies with a soft copy</b>	<b>5.1</b>	2% of the Cost or Rs. 5.0 Lakhs whichever is less		<b>3,64,413</b>	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.
<b>L</b>	<b>Total Estimated Cost without GST</b>					<b>1,93,35,083</b>	
<b>M</b>	<b>Provision for GST (18% of J)</b>					<b>34,80,315</b>	GST will be reimburse as per actual and as per notified prescribed rate
<b>N</b>	<b>Total Estimated Cost with GST</b>					<b>2,28,15,398</b>	
				<b>Rs. In Lakhs</b>		<b>228.15</b>	
<b>Note:</b>							
<b>1</b>	<b>Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.</b>						
<b>2</b>	<b>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.</b>						
<b>3</b>	<b>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.</b>						
<b>4</b>	<b>Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.</b>						
<b>5</b>	<b>Any item of work not mentioned above shall be added as per SoC.</b>						
<b>6</b>	<b>All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.</b>						

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**Time Schedule/ Action Plan for Preliminary Exploration (G3) for Bauxite, Vanadium, Gallium and associated mineral Patgaon-Somlewadi, Patgaon Block, District Sindhudurg, Maharashtra.**

**Table-VII.C**

S. No.			1	2	3	4		5	6	7	8		9	10	11	12
1	Camp Setting	Months					Review					Review				
2	Geological Mapping & Sampling	days														
3	Surface Drilling (1 rigs)	months														
4	Survey Party days	days														
5	Geologist Man days	days														
6	Sampler Man days	days														
7	Camp Winding	months														
8	Laboratory Studies	Nos.														
9	Report Writing with Peer Review	months														

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**Estimates Cost for Preliminary Exploration (G3) for Bauxite, Vanadium, Gallium and associated minerals Pendhri block, District Sindhudurg, Maharashtra**

**Total Area - 7.0 Sq. Km; BH: 40, Drilling- 800m, Depth : 20m, Completion Time - 12 Months, Review: after 4 & 8 months**

**Phase I: Mapping & Sampling**

**Phase II: Drilling**

**Name of the Exploration Agency – M/S. Geo Marine Solutions Private Limited**

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.	Total Amount (Rs)	
<b>A</b>	<b>Geological Mapping Other Geological Work &amp; Surveying</b>						
	Geological mapping, (1:4,000 scale)						
i	a. Charges for Geologist per day (Field)	day	1.3	11,000	140	15,40,000	
ii	b. Labours Charges; Base rate	day	5.7	541	280	1,51,480	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	40	3,60,000	
	d. Charges for one Sampler per day (1 Party)	one sampler per day		5,100	120	6,12,000	
	<b>Sub Total- A</b>					<b>26,63,480</b>	
<b>C</b>	<b>Survey work</b>						
a	Surveyor for topographic survey/DGPS Survey and for BH fixation & RL determination	Per Point of observation	1.6.2	19,200	44	844800	40 BH plus & Boundary points

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b	Charges of Surveyor (1 party) for topographic mapping in 1:4000 scale	one surveyor per day	1.6.1a	8,300	30	249000	7.0 Sq.km
c	Labours Charges for survey work(4 labourers)	day	5.7	541	120	64920	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	<b>Sub-Total C</b>					<b>11,58,720</b>	
<b>E</b>	<b>DRILLING (In-house)</b>						
1	Drilling in medium hard rock 20 m,or upto bedrock whichever is occurring first (40 BH *20)	m	2.2.1.3a	10,100	800	80,80,000	iron rich laterite capping
2	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH					as per actuals / SoC and details will be submitted during Review
3	Transportation of Drill Rig & Truck associated per drill (1 rigs)	Km	2.2.8	36	1,020	36,720	(From Manglore to Sindhudurg)
4	Monthly Accommodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	5	2,50,000	
5	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	1	2,50,000	
6	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	1	2,50,000	
7	Drill core Preservation	m	5.3	1,590	800	12,72,000	
	<b>Sub Total E</b>					<b>1,01,38,720</b>	
<b>G</b>	<b>LABORATORY STUDIES</b>						
1	<b>Chemical Analysis</b>						
v)	<b>BH Core samples</b>						
	Primary for major oxides and LOI by XRF technique	Nos	4.1.15a	4,200	640	26,88,000	560 core samples & 80 bed rock samples

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	10 percent check samples	Nos	4.1.15a	4,200	64	2,68,800	
	b.Primary For REE ,Ga,V ,Sc,Y,Nb,Ta,Li and other Trace elements : by ICPMS 34 elements : by ICPMS	Nos	4.1.14	7,731	100	7,73,100	
	10 percent check samples	Nos	4.1.14	7,731	10	77,310	Check samples
	Combined determination of Trihydrate Alumina(THA-140°C), Monohydrate Alumina(MHA-240°C)& Reactive Silica	Nos	4.1.17a	6,700	5	33,500	
	Determination of Trihydrate Alumina (THA-140°C)	Nos	4.1.17b	2,000	5	10,000	
	Determination of Monohydrate Alumina(MHA-240°C)	Nos	4.1.17c	3,500	5	17,500	
	Determination of Reactive Silica	Nos	4.1.17d	1,500	5	7,500	
	Determination of Bond Work Index	Nos	4.1.17e	10,000	5	50,000	
2	<b><u>Physical &amp; Petrological Studies</u></b>						
i	Preparation of thin section	Nos	4.3.1	2,353	10	23,530	
iii	Preparation of polished section	Nos	4.3.3	1,185	10	11,850	
ii	petrographic/ore microscopic study	Nos	4.3.4	4,232	20	84,640	
v	Digital Photographs	Nos	4.3.7	280	20	5,600	
	XRD	Nos	4.5.1	4,000	10	40,000	
	Determination of in-situ bulk density	Nos	4.1	3,540	5	17,700	
	<b>Sub Total G</b>					<b>41,09,030</b>	
<b>H</b>	<b>Total A to H</b>					<b>1,80,69,950</b>	

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I	Geological Report Preparation	5 Hard copies with a soft copy	5.2	Exploration cost exceeding 150 lakh but less than 300 lakh : A Minimum of ₹7.5 lakh or 3% of the work whichever is more		7,50,000	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
J	Peer review Charges		As per EC decision				
K	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		3,61,399	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.
L	Total Estimated Cost without GST					1,91,81,349	
M	Provision for GST (18% of J)					34,52,643	GST will be reimburse as per actual and as per notified prescribed rate
N	Total Estimated Cost with GST					2,26,33,992	
				Rs. In Lakhs		226.34	
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.						

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**Time Schedule/ Action Plan for Preliminary Exploration (G3) for Bauxite, Vanadium, Gallium and associated minerals Pendhri block,  
District Sindhudurg, Maharashtra**

Table-VII.C

S. No.			1	2	3	4		5	6	7	8		9	10	11	12
1	Camp Setting	Months					Review					Review				
2	Geological Mapping & Sampling	days														
3	Surface Drilling (1 rigs)	months														
4	Survey Party days	days														
5	Geologist Man days	days														
6	Sampler Man days	days														
7	Camp Winding	months														
8	Laboratory Studies	Nos.														
9	Report Writing with Peer Review	months														

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## Estimated Cost for Reconnaissance Survey (G4) for REE and Associated Minerals in Maddur area, Narayanpet District, Telangana

Name of the Exploration Agency – Critical Mineral Trackers, Hyderabad

Total Area -160 sq.km ; No of Boreholes- 6 ; Drilling depth : 50m, Total meterage : 300m, Completion Time -10 months, Review : 4 & 8 months  
Drilling after review

S.No	Item of Work	Unit	Rates as per NMET SoC		Estimated Cost of the Proposal		Remarks
			SoC-Item-SI No.	Rates as per SOC	Quantum	Total Amount(Rs)	
<b>A</b>	<b>Geological Work</b>						
1	Geological Mapping(LSM): (1:12500) & sampling – Geologist field-days	One Geologist Per Day	1.2	11000	150	16,50,000	man days
2	Geologists(HQ)days, pre & post field interpretation 15 +30 days	One Geologist Per Day	1.2	9000	40	3,60,000	man days
3	Pitting	Per Cu.m	2.1.2	3800	150	5,70,000	150 cu.m
4	Trenching	Per Cu.m	2.1.1			0	cu.m
5	Charges for one Sampler per day	day	1.5.2	5100	53	2,70,300	man days
6	Labour(4 labour) attached to sampler	day	1.5.2/5.7	541	212	1,14,692	320 labour days
7	Labour (150Field days) per team:2 workers : 150*2 for two geologist teams	day	5.7	541	300	1,62,300	360 labour days
	<b>Sub-Total -A</b>					<b>31,27,292</b>	
<b>B</b>	<b>Survey Work:</b>						
1	DGPS/GPS Surveyor (Fixation of borehole poins)	Per point of observation	1.6.2	19,200	6	1,15,200	Total 6 points for Borehole
	<b>Sub-total-B</b>					<b>1,15,200</b>	
<b>C</b>	<b>Core Drilling (In-house)</b>						

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1	Drilling (hard rock)	Per meter	2.2.1.4	11,500	300	34,50,000	300m,Hard rock (6 Boreholes after review)
2	Construction of BH pillar (12"*12"*30")	Per pillar	2.2.7a	2000	6	12,000	6 pillars
3	Transportation of Drill Rig	per km	2.2.8	310	36	11,160	Hyderabad to Maddur-155km
4	Monthly accommodation charges for drilling camp	Monthly basis	2.2.9	50000	3	1,50,000	4 months
5	Drilling camp setting cost	lumpsum	2.2.9a	lumpsum	1	2,50,000	lumpsum
6	Drilling camp winding cost	lumpsum	2.2.9b	lumpsum	1	2,50,000	lumpsum
7	Approach road making	per km	2.2.10a	22020	6	1,32,120	Approx. 6km (As per actuals)
8	Land/Crop Compensation	Per bore hole	5.6	20,000	6	1,20,000	6 BHs (As per actuals)
9	Drill core preservation in GI core boxes	Per meter	5.3	1590	150	2,38,500	285m core(excl.soil/wz)
	<b>Sub total-C</b>					<b>46,13,780</b>	
<b>D</b>	<b>Laboratory Studies</b>						
1	Bedrock samples (quantitative REE analysis (14 REE elements/radicals by ICP-MS)	Per sample	4.1.13	5380	115	6,18,700	As per field evidences
2	Pitting samples (quantitative REE analysis (14 REE elements/radicals by ICP-MS)	Per sample	4.1.13	5380	150	8,07,000	
3	10 percent check samples (quantitative REE analysis (14 REE elements/radicals by ICP-MS)	Per sample	4.1.13	5380	27	1,45,260	
4	Core drilling Samples (quantitative REE analysis (14 REE elements/radicals by ICP-MS)	Per sample	4.1.13	5380	100	5,38,000	
5	10 percent check samples (quantitative REE analysis (14 REE elements/radicals by ICP-MS)	Per sample	4.1.13	5380	10	53,800	
6	Samples for Au,As,Sb,Bi,Ag (First 5 radicals by AAS method)	Per sample	4.1.7 a	2506	20	50,120	Au, As,Sb,Bi,Ag

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7	10 percent check samples for Au,As,Sb,Bi,Ag (First 5 radicals by AAS method)	Per sample	4.1.7 a	2506	2	5,012	Au, As,Sb,Bi,Ag
8	Preparation of standard thin section	Per sample	4.3.1	2353	30	70,590	30 sections
9	Complete petrographic/ore microscopic/mineragraphic studies	Per sample	4.3.4	4232	30	1,26,960	30 sections
10	EPMA Studies per hour	Per sample	4.4.1	8540	10	85,400	10 samples
	Sub- total-D					25,00,842	
	TOTAL (A+B+C+D)					1,03,57,114	
F	Preparation of Exploration Proposal (5 Hard copies with a soft copy)		5.1	2% of the project cost subject to a maximum of 5 lakhs	1	2,07,142	2% of the Project cost.
G	Geological Report (5 Hard copies with a soft copy)		5.2	5% of the Project cost	5	5,17,856	5% of the Project Cost.
	Peer review charges					30000	
H	Project Cost without GST					1,11,12,112	
I	18% GST					20,00,180	
J	Total Project Cost					1,31,12,292	
K	Rs. In Lacs					131.12	
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.						

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Annexure 5B														
Time Schedule/ Action Plan for Reconnaissance survey (G4) for REE and Associated Elements/Minerals in Maddur Block, Narayanpet District, Telangana State under NMET														
Sl no	Activity	Units	Months											
			1	2	3	4	REVIEW	5	6	7	8	REVIEW	9	10
1	Geologist Party Days HQ	Days												
2	Geologist Party Days Field	Days												
3	Sampling (Pitting)	Days												
4	Laboratory Studies	Days												
5	Core Drilling	Days												
6	Survey Party Days	Days												
8	Post Field Interpretation	Days												
9	Report Compilation & Submission	Days												

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## Annexure 6A

## Estimated Cost for Reconnaissance Survey (G4) for REE, Ni, Co and PGE in Podili area, Prakasam District, Andhra Pradesh

Name of the Exploration Agency – Critical Mineral Trackers, Hyderabad

Total Area - 210 sq.km; No of Boreholes- 8, Drilling depth : 50 mts ; Total drilling : 400m, Review : 4 &amp; 8 months, Completion Time - 10 months

S.No	Item of Work	Unit	Rates as per NMET SoC		Estimated Cost of the Proposal		Remarks
			SoC-Item-SI No.	Rates as per SOC	Quantum	Total Amount(Rs)	
<b>A</b>	<b>Geological Work</b>						
1	Geological Mapping (1:12,500) & sampling – Geologist field-days	One Geologist Per Day	1.2	11000	240	26,40,000	man days
2	Geologists(HQ)days, pre & post field interpretation 35 +30 days	One Geologist Per Day	1.2	9000	45	4,05,000	man days (excl. compilation and interpretation of existing data)
3	Excavation of Pitting (cu.m)	Per Cu.m	2.1.2	3800	100	3,80,000	cu.m
4	Excavation of Trenches (cu.m)	Per Cu.m	2.1.1	3330	100	3,33,000	As per the requirement
5	Charges for one Sampler per day	day	1.5.2	5100	64	3,26,400	man days
6	Labour(4 labour) attached to sampler	day	5.7	541	256	1,38,496	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
7	Labour (240 Field days) per team:2 workers :240*2 for two geologist teams	day	5.7	541	480	2,59,680	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or

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							respective State Govt. whichever is higher
	<b>Sub-Total -A</b>					<b>44,82,576</b>	
<b>B</b>	<b>Survey Work:</b>						
1	Surveyor: Fixation 8 Bh points by Total station/DGPS	Per point of observation	1.6.2	19,200	8	1,53,600	8 BH points
	<b>Sub-total-B</b>					<b>1,53,600</b>	
<b>C</b>	<b>Core Drilling (In-house)</b>						after review
1	core drilling : 8 points (each 50m depth) 8*50	Per meter	2.2.1.4a	11,500	400	46,00,000	Hard rock drilling
2	Construction of BH pillar(12"*12"*30")	Per pillar	2.2.7a	2000	8	16,000	
3	Transportation of drill rig	per km	2.2.8	36	700	25,200	From Hyderabad to Podili area
4	Monthly accommodation charges	Monthly basis	2.2.9	50000	3	1,50,000	
5	Drilling Camp Setting cost	lumpsum	2.2.9a	2,50,000	1	2,50,000	
6	Drilling Camp winding cost	lumpsum	2.2.9b	2,50,000	1	2,50,000	
7	Approach Road	Per Kilometer	2.2.10a	22,020	5	1,10,100	5 km approx. (As per actuals)
8	Land/Crop Compensation for 8 Bhs	Per Point	5.6	20,000	8	1,60,000	As per actuals
9	Drill core preservation in GI boxes	Per meter	5.3	1590	250	3,97,500	
	<b>Sub total-C</b>					<b>59,58,800</b>	
<b>D</b>	<b>Laboratory Studies</b>						
1	BRS - 200 No's REE Zr, Hf, Rb , Sr , Ni ,Cr, Co (34 Elements) Analysis of one rock/ soil sample for determination of a package by 34 elements by ICP-AES / ICPMS (sequential technique) (BRS Samples)	Per sample	4.1.14	7731	200	15,46,200	
2	10 percent check samples (Analysis of one rock/ soil sample for determination of a package by 34 elements by ICP-AES / ICPMS (sequential technique) (BRS Samples))	Per sample	4.1.14	7731	20	1,54,620	

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3	Trench Samples :ICP-MS (34 elements) ICP-MS REE Zr,Hf,Rb , Sr , Ni, Cr, Co ( 34 Elements)	Per sample	4.1.14	7731	50	3,86,550	
4	10 percent check samples	Per sample	4.1.14	7731	5	38,655	
5	Pit Sample: -ICP-MS REE Zr, Hf, Rb , Sr , Ni, Cr, Co ( 34 Elements)	Per sample	4.1.14	7731	100	7,73,100	
6	10 percent check samples (34 elements)	Per sample	4.1.14	7731	10	77,310	
7	BRS & Trench samples for PGE (ICP-MS Ni -S Fire assay technique)	Per sample	4.1.5d	11800	25	2,95,000	
8	10 % check samples BRS & Trench for PGE (ICP-MS Ni -S Fire assay technique)	Per sample	4.1.5d	11800	3	35,400	
9	Core samples ICP-MS REE Zr, Hf, Rb , Sr , Ni, Cr, Co ( 34 Elements)	Per sample	4.1.14	7731	80	6,18,480	
10	10 percent check samples (34 elements)	Per sample	4.1.14	7731	8	61,848	
11	for PGE (ICP-MS Ni -S Fire assay technique) (core samples)	Per sample	4.1.5d	11800	10	1,18,000	
12	10 percent check samples for PGE (ICP-MS Ni -S Fire assay technique) (Core samples)	Per sample	4.1.5d	11800	1	11,800	
13	Preparation of standard thin section	Per sample	4.3.1	2353	30	70,590	
14	Complete petrographic/ore microscopic/mineragraphic studies	Per sample	4.3.4	4232	30	1,26,960	
15	EPMA	Per Hour	4.4.1	8540	15	1,28,100	
	<b>Sub-total-D</b>					<b>44,42,613</b>	
	<b>TOTAL (A+B+C+D)</b>					<b>1,50,37,589</b>	
<b>F</b>	<b>Preparation of Exploration Proposal</b>		5.1		1	3,00,752	2% of the Project cost.

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	(5 Hard copies with a soft copy)			2% of the project cost subject to a maximum of 5 lakhs			
G	Geological Report		5.2	5% of the Project cost		7,51,879	5% of the Project Cost.
	(5 Hard copies with a soft copy)						
H	Peer Review			30000	1	30,000	
	Project Cost without GST					1,61,20,220	
J	18% GST					29,01,640	
	Total Project Cost					1,90,21,860	or say 190.22 lakh
L	Rs. In Lacs					190.22	
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.						

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Annexure 6B													
Time Schedule/ Action Plan for Reconnaissance Survey (G4) for REE, Ni, Co and PGE in Podili area, Prakasam District, Andhra Pradesh													
SI No	Activity	Months											
		1	2	3	4	Review	5	6	7	8	Review	9	10
1	Geologist Party Days HQ												
2	Geologist Party Days Field												
3	Sampling (Pitting)												
4	Laboratory Studies												
5	Core Drilling												
6	Survey Party Days												
8	Post Field Interpretation												
9	Report Compilation & Submission												

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## Revised Cost of Reconnaissance Survey (G4) for Kanapulisi Graphite Block (98.3 sq.km.), District Rayagada, Odisha.

Name of the Exploration Agency – MMPL

SL. NO.	ITEM OF WORK	UNIT	RATE AS PER NMET SOC 2020-21			ESTIMATED COST OF THE PROPOSAL		Revised Quantity	Cumulative Amount Claimed	Remarks
			SOC. ITEM NO	QUANTITY	REVISED QUANTITY	RATE AS PER SOC	TOTAL			
1	Geological mapping (on 1:12500) (119 sq. km)									
	(a) Charges for Geologist at field (without labourer)	Per day per geologist	1.2.b	170	170	11000	1870000	170	1870000	
	(b) Charges for Geologist at Headquarters	Per day per geologist	1.2.a	40	40	9000	360000	40	360000	
	C) Wages for 2 labourers for Geologist	Per day	5.7	340	340	504	171360	340	171360	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
2	Land/Crop compensation	Per borehole	5.6	10	10	20000	200000	3	60000	
3	Geochemical sampling (Bedrock sampling)	100nos								

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4	Geophysical survey (Magnetic and SP survey) (5L.km)	4.5 L.km								
	(a) Charges for Geophysicist at field (without labourer)	Per day	3.18b			11000				
	(b) Charges for Geophysicist at Headquarters	Per day	3.18a	30	30	9000	270000	30	<b>270000</b>	
	C) Wages for 4 labourers for Geophysicist	Per day	5.7			504				Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	(d) Charge for Gravity survey	Per Station	3.1a.i			3800				
	(e) Charge for Magnetic survey	Per Station	3.2a.i	300	300	1800	540000	300	<b>540000</b>	
	(f) Charge for SP survey	Per L.km	3.3a	4.5	4.5	29600	133200	4.5	<b>133200</b>	
5	Survey work									
	(a) Surveyor charge (Without labour)	Per day	1.6.1a	30	30	8300	249000	30	<b>249000</b>	

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	(b) Labour (4nos) charges for survey work	Per day	5.7	120	120	504	60480	120	<b>60480</b>	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
<b>6</b>	<b>Technical Survey</b>									
	(a) Trenching	Per cu m	2.1.1	100	100	3330	333000	100	333000	
	(b) Drilling	Per m in soft rock	2.2.1.4a	500	500	11500	5750000	500	5750000	
	C) Borehole pillaring (12inch×12inch×30 inch)	Per borehole	2.2.7a	10	10	2000	20000	8	16000	
	(d) Transportation of drill rig and truck (to and from headquarter or previous drill site)	Per Km	2.2.8	900	900	36	32400	900	32400	
	(e) Drilling camp setting cost	Per drill	2.2.9a	1	1	250000	250000	1	250000	
	(f) Drilling camp winding cost	Per drill	2.2.9a	1	1	250000	250000	1	250000	
	(g) Monthly accommodation charges for drilling camp	Per Month	2.2.9	3	3	50000	150000	3	150000	
	(h) Approach road making to drilling site	Per Km	2.2.10	5	5	22020	110100	3	66060	
<b>7</b>	<b>Laboratory studies</b>									

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	(a) Proximate analysis for graphite	Per sample	4.1.16	330	330	3000	990000	269	807000	
	(a) Proximate analysis for graphite 10% external check	Per sample	4.1.17	33	33	3000	99000	27	81000	
	(b) Analysis for associated trace element (Vanadium)									
	(c) Analysis for associated REE + Vanadium (ICPMS 14 elements)	Per sample	4.1.13	150	155	5380	807000	155	833900	
	(d) Petrochemical studies (pcs)	Per sample	4.1.15a	10	10	4200	42000	10	42000	
8	Petrographic studies									
	a) Preparation of thin sections	Per sample	4.3.1	10	10	2353	23530	10	23530	
	b) Study of thin section	Per sample	4.3.4	10	10	4232	42320	10	42320	
	sampler		1.5.2	45	45	5100	229500	45	229500	
	Labour		5.7	180	180	504	90720	100	50400	
9	Bulk density/ specific gravity determination	Per sample	4.8.1	3	3	1605	4815	3	4815	
10	Drill core preservation	Per m	5.3	200	253	1590	318000	253	402270	
									13078235	
11	GR preparation	Cost per 5 Hard Copy along with soft copy	5.2			As the exploration cost is exceeding 50 lakh but	669821		653912	

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						less than 150 lakh				
12	peer Review	Lumpsum	as per EC decision	1	1	30000	30000	1	30000	
13	Preparation for exploration proposal	One number (5 hard copies) along with soft copy	5.1	1	1	2% of the approved cost or 5 lakh whichever is lower	267928.5	1	261565	
TOTAL							14364174.5		14023711	
WITH 18% GST							16949725.91		16547980	
Rs. In lacs							169.49		165.48	Change in amount ₹-401745.91 (reduced amount)
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.									

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## Revised Cost of Reconnaissance Survey (G4) for REE &amp; RM (Sc, Nb) mineralization in Samalpatti Block (28.5 sqkm extent), District Krishnagiri, Tamil Nadu.

Name of the Exploration Agency – KIOCL

					Approved			Modified					
SI	Item of Work	Unit	Rates as per NMET SoC 2020-21		Year 2024-25						Tendering/ Outsourcing components	Remarks	
			SOC Item No	Rates as per SOC	Qty	Amount (Rs)		Qty	Amount (Rs)				
(a)	(b)	(c )	(d)	(e)	(f)	(g)=(e)*(f)		(h)	(i)	(j)			
1	INCORPORATION OF CARBONOTITE BODIES IN GSI's 12.5k MAP ( FSP 2016-17) OVER AN EXTENT OF 28.5 sqkm												
1.1	Geologist Party days - Field	days	1.2	11,000	60.0	6,60,000	13,78,640	60	6,60,000	13,78,640			
1.2	Geologist Party days - HQ		1.2	9,000	20.0	1,80,000		20	1,80,000				
1.3	Labour charges @ 2nos per Geologist	days	5.7	522.00	120.0	62,640		120	62,640			Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher	
2	PITS/ TRENCHING WORKS												
2.1	Pits/ Trenching works	cum	2.1.2	3,800	100.0	3,80,000		100	3,80,000				
3	Survey works												
3.1	Demarcation of Lease boundary and fixation of borehole and determination of coordinates and RL by DGPS	Per point of	1.6.2	19,200	5.0	96,000		5	96000				

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		obser vation											
4	DRILLING												
4.1	Drilling ( 01 rig - Medium Hard Rock) <b>(Outsourcing)</b>	m.	2.2.1.3 a	10,100	500.0	50,50,000	54,47,500	500	50,50,000	54,47,500			
4.2	Core preservation	m	5.3	1,590	250.0	3,97,500		250	3,97,500				
5	LABORATORY STUDIES												
5.1	Sample processing works	Sampler charges	days	1.5.2	5,100	41.0	2,09,100	2,94,708	41	2,09,100	30,58,088		@ 440samples /8 samples per day
5.2		Labour charges	days	5.7	522.00	164.0	85,608		164	85,608			Amount will be reimbursed for unskilled labour as per the notified rates by the Central Labour Commissioner (Rs.504/- per day) or respective State Govt. whichever is higher)
5.3	34 elemental analysis by ICPOES (Sequential technique)	Primary	per sample	4.1.14	7,731	300.0	23,19,300	25,51,230	300	23,19,300			400nos: BRS & Channel (50 nos) + Regolith Samples (50 nos)+ Trench (50 nos)+ Drill core: (100 nos)
5.4		External Check (10%) <b>(Outsourcing )</b>		4.1.14	7,731	30.0	2,31,930		30	2,31,930		2,31,930	

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	Estimation of major oxides by XRF		per sample	4.1.15	4,200	...	...		10	42,000			
5.5	Petro studies (Outsourcing)	Preparation of Standard Thin section	nos	4.3.1	2,353	10.0	23,530	1,63,660	5	11,765	1,70,150		
5.6		Complete Petrological Report of rock sample	nos	4.3.4	4,232	10.0	42,320		5	21,160			
5.7		Preparation of Polished Thin section	nos	4.3.2	1,549	10.0	15,490		5	7,745			
5.8		Mineragraphic studies	nos	4.3.4	4,232	10.0	42,320		5	21,160			
5.9		XRD for Mineral phase analysis	nos	4.5.1	4,000	10.0	40,000		10	40,000			
	EPMA		hrs	4.4.1	8,540	...	...		8	68,320			
6	Sub Total (1+2+3+4+5+6)						98,35,738	98,35,738		98,58,228		54,52,080	
7	Peer review of report		lumps		MoM Office Memorandum Dtd 12 July 2023		30,000	13,61,449		30,000			
8	Preparation of Exploration Project Proposal		lumps	5.1	2% of approved project cost to maximum of ₹ 5 lakh		1,96,715			1,97,685			

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9	Exploration Report ( 5% of (SI 9 + SI 10))	lumps um	5.2(iii)	Reconnaissance survey/Preliminary exploration exceeding Rs.50 Lakh and less than Rs 150 lakhs: A min. of Rs.2.5 Lakhs or 5% of the value of work whichever is more.	4,91,787			4,94,211			
10	Tender processing Cost	lumps um	2.3	One time in case of outsourced component(s) of project work (2% of the approved project cost or 5 lakh whichever is lower)	1,08,912			1,09,042			Tendering/ Outsourcing Cost (Rs. 59,47,295)
11	Operational Charges (Reimbursement of cost in case of outsourced components of project work)	lumps um	6(iii)	In case of total outsourced cost more than Rs 50 lakhs up to Rs 1 Crore: Rs 5.0 lakhs + 7.5% of balance amount outsourced in excess of Rs50 lakhs	5,33,419			5,33,906			Tendering/ Outsourcing Cost (Rs. 59,47,295)
12	<b>GRAND TOTAL (7 to 11)</b>				<b>1,11,96,57 1</b>	<b>1,11,96,5 71</b>		<b>1,12,49,0 72</b>			
13	<b>GST 18%</b>				<b>20,15,383</b>	<b>20,15,383</b>		<b>20,24,833</b>			GST will be reimbursed as per actual and as per notified prescribed rate
14	<b>Grand Total (with GST 18%)</b>				<b>1,32,11,95 3</b>	<b>1,32,11,9 53</b>		<b>1,32,73,9 04</b>			

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15	Rs. In Lac							132.11		132.74			Change in amount Rs.61,951/- (Additional)
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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.

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Timeline Extension for Ongoing Projects Approved / Recommended in the 78th Meeting of TCC-1							Annexure-9	
Sl. No.	Block/Project	Agency	Scheduled date of completion	Timeline Extension		Approval/ Recommendation in 78 <sup>th</sup> TCC-I		
				Extended timeline	Approving authority	Timeline	Status	Remarks
1.	Preliminary Exploration (G3) for gold and associated minerals in Sirigeri Block, Ballari district, Karnataka	DMG Karnataka	14.12.2024	14.06.2025	39 <sup>th</sup> EC	14.12.2025 (6 months)	Recommended to EC	For completion of drilling and project
2.	Preliminary Exploration (G3) for Limestone in Alda Block, Districts Raipur & Balodabazar-Bhatapara, Chhattisgarh	DGM Chhattisgarh	27.12.2024	27.03.2025	72 <sup>nd</sup> TCC-I	31.07.2025 (1 month)	Recommended to EC	For GR submission
				31.05.2025	42 <sup>nd</sup> EC			
				30.06.2025				
3.	Reconnaissance Survey (G4) for Kanapulisi Graphite Block (98.3 sq.km.), District Rayagada, Odisha	MMPL	14.12.2024	31.03.2025	39 <sup>th</sup> EC	15.07.2025 (15 days)	Recommended to EC	For GR submission
				30.06.2025	42 <sup>nd</sup> EC			
4.	Reconnaissance Survey (G4) for Graphite in Darukona area, District Rayagada, Odisha	MMPL	14.12.2024	31.03.2025	39 <sup>th</sup> EC	15.07.2025 (15 days)	Recommended to EC	For GR submission
				30.06.2025	42 <sup>nd</sup> EC			
5.	Preliminary Exploration (G3) for Gold in Kudrekonda area by Geophysical Survey, Devangere District, Karnataka	MECL	26.02.2025	26.05.2025	73 <sup>rd</sup> TCC-I	15.07.2025 (1.5 months)	Recommended to EC	For GR submission
6.	Preliminary exploration (G3) for limestone in Adegaon Block	MECL	21.06.2025	---	---	31.07.2025 (1 month)	Approved	For GR submission

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	(5.35 sq. km.), District Yavatmal, Maharashtra							
7.	Reconnaissance Survey (G4) for Gold in Bargur area, Bargur belt of Kolar Schist belt, District Krishnagiri, Tamil Nadu	MECL	26.02.2025	26.02.2025	75 <sup>th</sup> TCC-I	31.10.2025 (5 months)	Recommended to EC	For completion of project
8.	Preliminary exploration (G3) for Graphite in Arasanur East Block (1.93 sq. km.), District Shivaganga, Tamilnadu	KIOCL	09.06.2025	---	---	31.12.2025 (7 months)	Recommended to EC	For completion of project
9.	Reconnaissance Survey (G4) for Iron Ore in Arewada – Hitapadi Block (27 sq km), District Gadchiroli, Maharashtra	Gemco Kati Exploration Pvt. Ltd.	05.07.2025	---	---	31.08.2025 (2 months)	Approved	For GR submission
10.	Preliminary Exploration (G3) for Ramghad Iron and Manganese mineralization near Ramghad Village, District Ballari, Karnataka	Ecomen Mining Pvt Ltd.	09.06.2025	---	---	31.12.2025 (6.5 months)	Recommended to EC	For completion of project

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