

Ministry of Mines
National Mineral Exploration Trust
Minutes of the 79th Technical-cum-Cost Committee-1 (TCC-1) meeting held on
28th & 29th July, 2025 through video conferencing

The 79th 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 28th & 29th July, 2025.

Members of TCC-1, NMET and representatives from—DGM Maharashtra, DMG, Karnataka, DGM Odisha, DGM, Chhattisgarh, DGM Goa, GSI, NGRI, MECL, IBM, CMPDI, OMC Ltd., KIOCL, Maheshwari Mining Pvt Ltd, United Exploration India Pvt. Ltd., Geo Marine Solutions Pvt. Ltd., NRD, TATA, Bhushilp Mines and Minerals Private Limited, Gemcokati Exploration Pvt Ltd, Kartikay Exploration and Mining Services Pvt. Ltd., Critical Mineral Trackers, Eartnenviro Lab Pvt. Ltd. have attended the meeting through their respective VC modes.

The list of participants is enclosed in Annexure-1.

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

Dr. S. Ravi, Chairman of TCC-1, NMET, extended a warm welcome to all members of TCC-1 and participants representing various NEAs and NPEAs and conducted the proceedings as per circulated agenda.

Agenda 79.1: Technical evaluation of new project proposals

Agenda 79.1.1. Preliminary Exploration (G3) for Gold in Bhagvati block, Bagalkot District, Karnataka.

[Implementing Agency: Kartikay Exploration and Mining Services Private Limited]

- a) The proposed block falls in Survey of India Toposheet 47 P/16 and belongs to Hungund - Kushtagi Schist Belt, Karnataka.
- b) This block was handed over to the DMG, Karnataka, by the Geological Survey of India under Geological Memorandum category for auction. Although the state government listed the block on the auction platform under CL and annulled subsequently State Govt. want upgradation for sufficient number of bidders.
- c) The block was discussed in technical committee meetings at state level and ultimately decided to get it upgraded through further exploration. Accordingly, the block was allotted to M/s Kartikay in the 7th Technical Committee meeting convened by DMG, Karnataka.
- d) Earlier the GSI evaluated geochemical anomalies for gold in the Hungund-Kushtagi and Hagari Schist Belt (Bagalkot, Koppal, Raichur, and Bellary districts, Karnataka) during 1999–2000. Shear zones in granite showed 22–651 ppb of Au over 100–650 m widths. In metabasalt and quartz-chloritic schist, values ranged from 47–138 ppb over 100–400 m. In BIF formations, gold ranged from 40–108 ppb over 100–300 m.


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- e) The same lithotype is also present in the proposed Bhagavati block; therefore, it is worthwhile to undertake exploration in this block.
- f) M/S Kartikay carried out a field visit and collected 12 samples from the ~15 sq. km area initially allotted by DMG Karnataka. However, during the proposal review, DMG advised defining a smaller, more promising block.
- g) Accordingly M/S Kartikay proposed G-3 block for Gold & Associated minerals falling in Survey of India Toposheet No. 47P/16 which covers an area of 2.00 sq. km in and around Bhagavati village.
- h) The committee reviewed the proposal and was not convinced by the justification provided by Kartikay Exploration and Mining Services Private Limited for narrowing down the area to 2 sq km and suggested the NPEA to focus in the entire 15 sq.km large scale mapping (LSM) area handed over by GSI. Accordingly, the committee directed that the work will be carried out in two phases. The first phase will involve detailed and systematic sampling (BRS, PTS, PS etc.) to establish the potential zones for detailed exploration to be carried out in the second phase by involving detailed mapping, systematic sampling, drilling etc.
- i) The committee also opined that inputs from AMD are necessary, as the area has previously been explored by AMD for atomic minerals and REEs.

Recommendations of TCC-1:

The committee recommended the proposal for approval of EC for “Preliminary Exploration (G-3) for Gold & Associated ore in Bhagvati Block, Bhagalkot District of Karnataka” with an estimated cost of ₹ 270.87 lakh (including GST) within time schedule of 12 months for carrying out the proposed work and submission of GR as per Annexure - 2A & 2B. The item will be reviewed after 03 and 07 months.

**Agenda.79.1.2. Reconnaissance Survey (G4) for Aluminum Laterites an associated Critical Minerals around Nakhare Area, Ratnagiri District, Maharashtra.
[Implementing Agency: Bhushilp Mines and Minerals Private Limited]**

- a) The proposed Nakhare area, comprising rocks of the Sahyadri Group and the Dharwar Supergroup, is located in the Western Ghats within Toposheet No. 47H/05 in Maharashtra.
- b) 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.
- c) GSI's systematic geological mapping and second generation mapping indicate laterite occurrences in TS nos. 47G/8, 47H/5, and 47H/9. NGCM work in TS Nos. 47H/05 and 47H/06 (Ratnagiri district) showed A2O3: 17.30%–25.03%, V: 261–813 ppm, and Fe2O3: 12.76%–28.08%. Coastal lowland laterite occurs at elevations from 0 to 165 m.
- d) GSI exploration in nearby southern blocks of the proposed block reported high A2O3 content: 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%).
- e) Moreover, Laterites are also recognized as significant secondary sources of critical minerals such as chromium, nickel, cobalt, titanium, vanadium, gallium, lithium,


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REEs, and others. Hence the item has been proposed for G4 stage exploration for aluminum laterites and associated critical minerals around Nakhare area

- f) The item was presented in 78th TCC-1 and 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.
- g) After a detailed review, the committee opined that the selection of the block was not appropriate, and the values presented were significantly low. The committee also opined that the focus of the item should be either on bauxite or laterite, as critical minerals can be extracted as by-products during the processing of bauxite or laterite ores. Bhushilp informed that a recent field visit was conducted, samples were collected, and submitted for analysis; however, the analytical results are still awaited. Furthermore, Bhushilp did not consult the RP report prepared by GSI pertaining to the area, despite clear instructions from the committee.
- h) The committee had advised Bhushilp to present the proposal the following day with all relevant details. However, the agency did not present the data and hence no further review took place.

Recommendations of TCC-1:

The committee instructed Bhushilp Mines and Minerals Private Limited to present the proposal again with all the relevant data including the chemical analysis of the random sampling they had carried out.

Agenda.79.1.3. Reconnaissance Survey (G4) for Critical Minerals Associated with Aluminous Laterite in Dhaulvali-Barsu Area, Ratnagiri District, Maharashtra.

[Implementing Agency: Bhushilp Mines and Minerals Private Limited]

- a) The proposed area mainly covered by the Lateritic capping with the Deccan basalt in the valley part and falls in Survey of India Toposheet No 47H/06 and covers around 100 Sq.km in around villages of Dhaulvali, Solgaon, Barsu, Sogamwadi of Ratnagiri District of Maharashtra.
- b) GSI's exploration in southern blocks adjacent to the proposed area reported high Al_2O_3 content: 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%).
- c) The strong geological continuity with the proposed Dhaulvali-Barsu block to the north, the presence of critical minerals in the lateritic capping warrants further investigation.
- d) Additionally, laterites are recognized as significant secondary sources of critical minerals such as chromium, nickel, cobalt, titanium, vanadium, gallium, lithium, REEs, and others. Hence, the block has been proposed for G4 stage exploration targeting aluminium along with other critical minerals.
- e) Upon review, the committee opined that Bhushilp has not visited the area before preparing the proposal had advised to present the proposal the following day with all relevant details. However, the agency did not present the data and hence no further review took place.

Recommendations of TCC-1:


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The committee instructed Bhushilp Mines and Minerals Private Limited to present the proposal again with all the relevant data including the chemical analysis of the random sampling they had carried out.

Agenda.79.1.4. Reconnaissance Survey (G4) for Critical minerals in Ranmangli area, Kuhl Taluka, Nagpur District, Maharashtra.

[Implementing Agency: Bhushilp Mines and Minerals Private Limited]

- a) Bhushilp Mines and Minerals Private Limited did not present the item

Recommendations of TCC-1:

The item was not reviewed as Bhushilp Mines and Minerals Private Limited did not present it.

Agenda.79.1.5. Preliminary Exploration (G3) for Bauxite, Aluminous Laterite, Manganese and Associated Minerals around Rengalaberha-Kashira area, Sundargarh District, Odisha.

[Implementing Agency: Natural Resources Division, Tata Steel Limited]

- a) The block is falling in the north-central part (SOI Toposheet No 73F/5) of the famous horseshoe shaped Bonai-Keonjar Synclinorium which host large deposits of iron and manganese ore. The surrounding area of the block is known for rich history of mining of iron and manganese ores.
- b) In recent years, GSI has reported occurrences of aluminous laterite in surrounding areas, particularly to the east of the proposed block. TATA Steel has also conducted recent field visit geological investigations within the block and identified seven bauxite and aluminous laterite-bearing zones along three traverses. Surface samples confirmed the presence of bauxite and laterite with encouraging assay results.
- c) A total of 26 samples were collected from laterites, out of which 10 samples yielded > 30% Al₂O₃ with average 40.2% Al₂O₃, 7 samples yielded 20%- 30% Al₂O₃ with average 23.9% Al₂O₃. Additionally, few samples show >0.2% Mn.
- d) Moreover, just southeast of the proposed block lies an operating iron and bauxite mine owned by M/s Rungta Sons Pvt. Ltd.
- e) Based on the inputs received from GSI, it was learnt that the GSI, SU: Odisha is planning to mount a programme for the FS 2026-27. Further it stated that part of the Tata Steel proposed area has overlapping with existing mining lease and needs to be verified with state government. Since DMG, Odisha has not shared any inputs till date, the committee decided to review the item technically and found the area is promising.
- f) The committee reviewed the item and agreed to recommend the proposal to EC.
- g) On 4th August, 2025 the DMG, Odisha has submitted that about 0.466 sq.km area of Tata Steel proposed block has overlapping with existing ML block of OMC.
- h) Accordingly, the Tata Steel was advised to resubmit the proposal after excluding the area of 0.466 sq.km in the western part.
- i) The agency also informed that the chemical analysis of samples is to be outsourced. The committee suggested to submit an undertaking regarding the outsourcing of chemical analysis.


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Recommendations of TCC-1:

The committee recommended the proposal for approval of EC for “Preliminary Exploration (G3) for Bauxite, Aluminous Laterite, Manganese and Associated Minerals, Rengalaberha-Kashira Block, Sundargarh District, Odisha” with an estimated cost of ₹ 215.49 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.

Agenda.79.1.6. Reconnaissance Survey (G4) for REE in Chatrai-Narasapuram area (164.00 sq km), NTR & Eluru Districts, Andhra Pradesh.

[Implementing Agency: MECL]

- a) The block is falling in both Eastern Ghat Mobile Belt (EGMB), Peninsular Gneissic Complex
- b) (PGC-II) and Gondwana Supergroup (Pranhita Godavari Valley). It is part of SOI Toposheet Nos 65C16 & 65D13
- c) GSI reported that REE enrichment in the area was initially identified through high total REE concentrations in composite stream sediment samples during NGCM studies. SEM analysis revealed REE-bearing mineral phases such as monazite, zircon, and allanite. The REE occurrence is inferred to result from secondary enrichment due to weathering and erosion of heavy mineral-rich layers in garnet-sillimanite gneiss, Eastern Ghat quartzites, and Gondwana sandstones indicating an alluvial placer-type deposit.
- d) Stream sediment samples from the proposed block show significant REE enrichment, with total REE values ranging from 672.72 to 2608.53 ppm and an average of 1167.32 ppm. Individual elements also recorded high concentrations, with averages such as 500.90 ppm, 265.16 ppm, and 207.19 ppm. Several other elements showed moderate to low values but remained within economically significant ranges. Overall, the data indicates strong potential for REE mineralization in the area, warranting further exploration.
- e) The committee reviewed the item and agreed to recommend the proposal to the EC, while instructing MECL to conduct a few samples for heavy mineral studies

Recommendations of TCC-1:

The committee recommended the proposal for approval of EC for “Reconnaissance Survey (G4) for REE & RM in Chatrai-Narasapuram area, Districts- NTR & Eluru, Andhra Pradesh” with an estimated cost of ₹ 85.50 lakh (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure - 4A & 4B. The item will be reviewed after 05 months.

Agenda.79.1.7. Reconnaissance Survey (G4) for REE & RM mineralization in Bande-Saver area (129 Sq.km), District: Uttar Bastar Kanker District, Chhattisgarh.

[Implementing Agency: Gemcokati Pvt. Ltd]

- a) The area belongs to Bastar Craton and falls in SOI toposheet no.65A/9.


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- b) GemcoKati informed the committee that as per the instruction of TCC-1 of NMET, they had carried out random sampling in the area where five bedrock samples yielded total REE values of 106–1148.12 ppm (Avg. 578 ppm), TLREE of 94–1072 ppm (Avg. 524 ppm), and THREE (Gd-Lu) of 12–76 ppm (Avg. 53 ppm).
- c) Additionally, GSI reported channel sample results with total REE (La-Lu) ranging from 143.1–1111.3 ppm (Avg. 536.6 ppm), LREE (La-Eu) from 130.7–1047.3 ppm (Avg. 504.1 ppm), and HREE from 6.2–64.0 ppm (Avg. 32.5 ppm). Soil sample REE values vary from 412.77–2729.23 ppm (Avg. 903.56 ppm), LREE from 374.8–2584.6 ppm (Avg. 843.7 ppm), and HREE from 36.4–144.62 ppm (Avg. 59.9 ppm) and subsequently, this block was put up for auction.
- d) The item was presented in 69th TCC-1 and the committee raised concerns about the ground conditions in the area and instructed Gemcokati to coordinate with DMG, Chhattisgarh for further guidance. The committee advised Gemcokati to conduct a field visit to collect bedrock samples for analysis and to present the findings for in-principle approval.
- e) Gemcokati informed the committee that they had visited the field and held meetings with the local Gram Panchayat and the BSF camp in the area, both of whom assured them of better ground conditions. However, these assurances were given verbally and were not documented.
- f) During the review in the 73rd TCC-1, the committee observed that the area is primarily known for Sn and Nb, but the values presented by Gemcokati appeared to be erratic accordingly the committee recommended Gemcokati revisits the area to collect colluvium samples and also gather BRS if exposures are available and present the DPR in next TCC-1 incorporating all the suggestions given by the committee.
- g) Gemcokati informed that few bedrock samples and pan concentrates of drainage sediments from the granite massif were collected. Analytical results from bedrock samples at Havalbaras and Bande indicate tin (Sn) values ranging from 10 to 30 ppm and niobium (Nb) values from 50 to 100 ppm. Panned samples collected from streams in and around Havalbaras, Karakoda, Saver, and Bande show Sn values ranging from 10 to 75 ppm and Nb values from 75 to 200 ppm. Tantalum (Ta) and tungsten (W) values were recorded at less than 500 ppm and 100 ppm, respectively.
- h) Similar work has previously been conducted in the adjacent eastern region under a comparable geological setting. In that area, analytical results from bedrock and colluvial placer samples from Katekalyan, Duman Nadi, Rani Nala Block, Bodavada Block, Bodenar Block, Kapanar area, Kaklur Block, Marjun-Ellingnar area, and Bothapara Block in the Katekalyan region revealed Sn values ranging from 10 to 100 ppm, Nb values from 50 to 1000 ppm, and Ta values ranging from 500 to 700 ppm.
- i) The committee suggested Gemcokati to ensure that the area is available for exploration and ground condition is favorable for exploration to carry out proper sampling with required density.

Recommendations of TCC-1:

The committee recommended the proposal for approval of EC for "Reconnaissance Survey (G4) for Tin, RM-REE mineralisation in Bande-Saver area (129 sq km), Uttar Bastar Kanker District, Chhattisgarh" with an estimated cost of ₹ 181.42 lakh (including GST) within time schedule of 10 months for

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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.79.1.8. Reconnaissance Survey (G4) for Graphite and associated minerals
Barakarli area, Raygada, Odisha (Additional Agenda)
[Implementing Agency: Eartnenviro Lab Private Limited]**

- a) This area under proposed block forms a part of Eastern Ghats Super Group of rocks and falls in SOI toposheet no. 65M/08.
- b) Quartz-Garnet-Sillimanite-graphite schist/Gneiss is known as a suitable host for graphite mineralization.
- c) Based on this, Geologists of Eartnenviro Lab Pvt. Ltd. has conducted a field visit in the proposed area and identified graphite bearing Quartz-Garnet-Sillimanite-graphite schist/Gneiss in the proposed area.
- d) Eartnenviro ltd. informed that they have collected two samples which yielded 2.9 and 3.1% of FC values.
- e) The agency informed the committee that Balapadu Quartz and Quartzite Mine is situated near this proposed Block.
- f) The committee stated that both MECL and OMC have done a lot of work around the proposed area, hence their comments are required to assess the proposal. Hence, OMC, MECL and DMG Odisha will be asked to send the comments meanwhile Eartnenviro Lab Pvt. Ltd may prepare the DPR and present in forthcoming TCC-1 meeting.
- g) DMG, Odisha informed that they have worked in the area but did not report graphite in the area, however, Eartnenviro Lab Private Limited informed that the values are very less but feebly encouraging along the contact.
- h) After a detailed review, the committee agreed to recommend the item and advised conducting a field visit to assess ground conditions and generate supporting data.

Recommendations of TCC-1:

The committee recommended the proposal for approval of EC for "Reconnaissance Survey (G4) for Graphite and associated minerals in Barakarli Area, District: Rayagada, Odisha" with an estimated cost of ₹ 112.01 lakh (including GST) within time schedule of 09 months for carrying out the proposed work and submission of report as per Annexure - 6A & 6B. The item will be reviewed after 03 and 06 months.

79.2. Project Evaluation for In-Principle Approval

**Agenda 79.2.1. Reconnaissance Survey (G4) For Base Metal and Associated Gold Mineralization in North of Gangajhari Area, Gondia District, Maharashtra.
[Implementing Agency: Bhushilp Mines and Minerals Private Limited]**

- a) The proposed area falls in Survey of India Toposheet No. 64/03
- b) A detailed mapping and limited field investigation over 1.35 sq km in the Gangajhari area (West and East), Bhandara District, Maharashtra, by GSI revealed generally low copper potential, with copper values ranging from 15 to 890 ppm.


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- c) However, the presence of anomalous gold values (up to 0.35 ppm) in lateritised and ferruginised garnet mica schist and associated Banded Iron Formation (BIF) is encouraging. Beneficiation studies achieved gold concentrations up to 2.23 ppm in slime. While lead, zinc, and nickel showed some anomalous values, the overall results suggest potential for gold mineralisation, warranting further exploration over a larger 79.55 sq km area through strike continuity assessment and geophysical surveys.
- d) The committee was informed that out of the 79.55 sq km area, 16 sq km overlaps with the area already explored by DMG, Maharashtra, and fully overlaps with GSI's explored block where no base metal potential has been established. It was also noted that Bhushilp has not conducted any additional exploration or generated new data in the area. Therefore, the proposal is not recommended

Recommendations of TCC-1:

The committee did not approve the item at this stage. However, the committee noted that if the agency is able to present encouraging data from the area, the proposal may be reconsidered.

Agenda 79.2.2. Reconnaissance Survey (G4) for Ni, Cr & PGE in Charoti Block, Palghar District, Maharashtra.

[Implementing Agency: Critical Mineral Tracker]

- a) The proposed area falls in parts of Survey of India Toposheet Nos. 47 A/13 & 47 E/1
- b) This is a spin-off of GSI's item of Specialized Thematic Mapping of Deccan lava sequence and associated intrusive exposed in Ashagad-Charoti Naka area.
- c) Out of 59 bedrock samples (BRS) collected from these olivine-rich basaltic flows, 26 samples (nearly half) contain more than 10% MgO.
- d) These samples also show good values of nickel (135–890 ppm) and chromium (280–1896 ppm).
- e) The Mg-rich basaltic flows, sills, and dykes demonstrate a strong positive correlation with nickel and chromium concentrations.
- f) Such high-magnesium basaltic compositions are favorable for hosting Ni-Cr-PGE mineralization.
- g) The committee was informed that NGCM and NGPM surveys have not been conducted in the area.
- h) It was noted that the adjoining area has been taken up by GSI for exploration of PGE, Ni, and Co on basalt with picritic nature. Additionally, stray values of PGE, Co, and Ni have been reported in some publications by NIO.
- i) However, the committee observed that the available PGE and Cr values are not encouraging. Accordingly, the committee advised CMT to undertake a field visit, conduct preliminary fieldwork, collect representative samples for PGE analysis, and carry out petrographic studies to confirm the picritic nature of the basalt in the proposed area.

Recommendations of TCC-1:

The committee did not approve the item at this stage and advised CMT to conduct a field visit and collect samples for PGE, Ni, and Cr analysis. If the results yield encouraging values, CMT may resubmit the proposal as DPR for consideration.

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Agenda 79.2.3. Preliminary exploration (G3) for Graphite & associated minerals in Jarapa Block, Rayagada District, Odisha.

[Implementing Agency: Eartnenviro Lab Private Limited]

- a) GSI has carried out G4 stage investigation in the area and identified strata-bound graphite mineralization hosted within quartz-garnet-sillimanite-graphite schist/gneiss. A total of seven graphite bodies have been delineated, and GSI has recommended the area for further detailed exploration.
- b) The area lies within a G4 block explored by GSI in the late 1970s and comprises khondalite rock formations. Several mining leases also exist adjacent to the proposed block. Both GSI and DMG, Odisha, have previously conducted G4 stage exploration for graphite in the region.
- c) DMG, Odisha, reported that although occurrences of graphite with good fixed carbon (FC) values are present, they are mostly exposed along nala sections and occur in isolated pockets, making exploration and extraction challenging.
- d) After review, the committee opined that G3 stage exploration may be considered in areas away from the stream, provided that the analytical values are encouraging and the mineralized zone appears to be continuous.

Recommendations of TCC-1:

The committee recommended conducting a field visit to identify a smaller, more workable area, reducing the block size from 10 sq. km to approximately 3-4 sq. km. It also advised the agency collect representative samples and presents the Detailed Project Report (DPR) in the forthcoming TCC-1 meeting with analysis.

79.3 Review of Ongoing Procurement Projects

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

[Implementing Agency: DGM Goa]

- a) DGM Goa informed the committee that during 65th TCC meeting, the agency had requested for additional instruments (Handheld XRF-1 no., DGPS-1 no., Total Station-02 nos. and additional cost for GIS software) with total estimated cost of Rs. 71.92 lakhs). The proposal was approved in 36th EC meeting held on 29.07.2024.
- b) The agency apprised the committee that they are intending to establish chemical analysis laboratory at DGM Goa in collaboration with Goa Engineering College, Goa. The agency is planning for proposal of financial assistance from NMET for the instruments needed to establish the said laboratory. The committee informed DGM Goa that NMET funding will be provided only to NEAs and NPEAs.
- c) To avoid the procurement of similar instrument they want to surrender procurement of Handheld XRF.
- d) The committee instructed agency to communicate formally to NMET regarding the present status of procurement and decision of surrendering procurement with justifications.


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- e) Regarding establishment of chemical analysis laboratory, the committee suggested to submit separate proposal.

Recommendations of TCC-1:

The committee instructed DGM, Goa to communicate formally to NMET regarding decision of surrendering the procurement of Handheld XRF instrument (01 no.), citing the reasons.

79.4 Review of Ongoing Projects/ Completed Project & Timeline Extension

79.4.1. Deep Seismic Reflection Survey (DSRS) & Magnetotelluric (MT) Survey along Churu, Rajasthan to Tikamgarh, M.P. - Northern Transect under the project UNCOVER

[Implementing Agency: GSI-NGRI]

- a) GSI-NGRI informed that the project was approved in the 32nd EC Meeting held on 06th December, 2023. The Sanction Order was issued on 29th December, 2023 with approved timeline of 36 months (up to 28.12.2026) and approved cost was INR 99,73,30,000/- (Rs. 80,90,48,120/- + Rs. 18,82,81,880/-).
- b) The agency apprised the committee regarding the progress of work. It was informed that MT survey is being carried out. The work initiated in the month of April 2024 from Churu, Rajasthan.
- c) The work was carried out in two phases and till 29.04.2025, 331 MT stations, including 249 AMT stations (1 km interval), 55 MT stations (5 km interval), and 27 LMT stations (10 km interval) completed.
- d) Phase - I AMT, MT and LMT data processing is completed by NGRI and Preliminary analysis and modelling of Phase-I data has been started by NGRI. The processing of acquired data during Phase-II is under progress at NGRI, Hyderabad.
- e) Regarding DSRS survey, it was informed that LVL data acquired at 116 locations along the 600 km Northern Transect; data processing and interpretation underway at CSIR-NGRI, Hyderabad. 2D velocity-depth models prepared for various locations. The data acquisition for main DSRS Survey is expected to be initiated in October/November 2025 (after outsourcing process is completed).
- f) The committee stated that an interim report with details of present status, progress and future course of work may be submitted jointly by GSI and NGRI, Hyderabad.

Recommendations of TCC-1:

The committee recommended submission of an interim report (to be prepared jointly by GSI and NGRI) with details of present status, progress and future course of work to NMET.

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

[Implementing Agency: MECL]

- a) MECL informed that the project was approved in the 37th EC Meeting held on 23rd September, 2024. The Sanction Order was issued on 22nd October, 2024 with


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timeline of 08 months (up to 21.06.2025) and approved cost was INR 98,78,166/- .Timeline extension upto 31.07.2025 was approved by 78th TCC.

- b) MECL apprised the committee that the GR has been peer reviewed. The reviewer's comments and compliance on comments were discussed.
- c) The agency informed that resource estimation was done by polygonal method, however as per reviewer's comments the resource was re-estimated by cross-sectional method (check) and variation found to be 2.47%.
- d) MECL informed the committee that estimated resources are considered as 333 category as per UNFC nomenclature.
- e) Upon review, it was found that MECL has categorized the resources under net and gross categories with a difference of 20%. As the assumed difference is very high for this kind of terrains, the committee advised MECL to adequately justify the difference under the assumptions discussed in the resource estimation chapter as per MEMC rules in the final GR.

Recommendations of TCC-1:

The committee recommended for submission of final GR with proper justifications for the gross and net resources as per MEMC rules within approved timeline.

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

[Implementing Agency: MECL]


- a) MECL informed that the project was approved in the 38th EC Meeting held on 29th November, 2024. The Sanction Order was issued on 12th December, 2024 with timeline of 10 months (up to 11.10.2025) and approved cost was INR 93.84 lakhs.
- b) MECL apprised the committee that the GR has been peer reviewed. The reviewer's comments and action taken on comments were discussed.
- c) Total 94.46 MT Gross (In-situ) Geological Resources of Beneficial Grade Dolomite was estimated and estimated resources are considered as 333 category as per UNFC nomenclature
- d) MECL informed that the final Geological Report is ready and would be submitted by 31.07.2025.
- e) Upon review, it was found that MECL has categorized the resources under net and gross categories with a difference of 20%. As the assumed difference is very high for this kind of terrains, the committee advised MECL to adequately justify the difference under the assumptions discussed in the resource estimation chapter as per MEMC rules.

Recommendations of TCC-1:

The committee recommended for submission of final GR with proper justifications for the gross and net resources as per MEMC rules within approved timeline.

79.4.4 Preliminary Exploration (G3) for Gold in Kakol Block (29.06 sq. km), Haveri District, Karnataka

[Implementing Agency: MECL]


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- a) MECL informed that the project was approved in the 31st EC Meeting held on 12th September, 2023. The Sanction Order was issued on 5th October, 2023 with timeline of 12 months (up to 04.10.2024) and approved cost was INR 4,48,27,471/-. Timeline extension upto 04.04.2025 was approved by 39th EC.
- b) MECL apprised the committee that during Phase I work, Detailed Geological Mapping (1:2000 scale), BR/Channel sample (200 nos.) collection/analysis and trenching (60 cu.m.) were completed.
- c) Ground geophysical survey (comprising of I.P. cum Resistivity, SP, Magnetic (25 Lkm) & TDEM survey) was completed during Phase II work.
- d) The TCC was informed that Forest Clearance was applied for 10 BH on 30.12.2024 which is still under process and drilling can be commenced only after forest clearance is received.
- e) MECL sought an extension of timeline upto 04.04.2026.
- f) The TCC-1 discussed the project and suggested MECL to seek FC for 20 BHs, instead of 10 BH as infilling borehole may be needed, as discussed in the 71st TCC meeting.

Recommendations of TCC-1:

The committee did not approve timeline extension at this stage and suggested MECL to complete all the formalities regarding Forest Clearance first. The committee also instructed that after getting Forest Clearance, MECL to present drilling plan and borehole cross sections before initiation of drilling work.

79.4.6 Preliminary Exploration (G3) for Manganese ore in Dhavalapur block (2.00 sq. km), Nagpur District, Maharashtra

[Implementing Agency: MECL]

- a) MECL informed that the project was approved in the 35th EC Meeting held on 16th May, 2024. The Sanction Order was issued on 10th June, 2024 with timeline of 12 months (up to 09.06.2025) and approved cost was INR 2,31,59,625/-.
- b) MECL informed that geological mapping work has been completed, but drilling and trenching work could not be initiated due to Forest Clearance issue.
- c) MECL apprised the committee that area falls in buffer zone of Pench Tiger Reserve.
- d) TCC was informed that application regarding forest clearance has been rejected and Forest Division has suggested to submit Form-A (Part-I) on 23-06-2025, which requires many compliances (Drone survey, CA land and others) which are not feasible at exploration stage for exploration agencies.
- e) The committee opined that the project may be given forced closure subject to submission of all details and documents (including Form C) pertaining to forest clearance issue to NMET. Timeline for the project got over by 30th June, 2025.
- f) The committee instructed MECL to submit Geological Report of the work completed.
- g) MECL was instructed to submit revised cost sheet in upcoming TCC-I meeting.

Recommendations of TCC-1:

The committee recommended forced closure of the project for approval of EC, subject to submission of relevant documents regarding forest clearance. The

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committee also recommended timeline extension upto 30.09.2025 to submit final GR subject to approval of EC.

79.4.7 Preliminary exploration (G3) for Manganese in Rongha block, Bhandara District, Maharashtra

[Implementing Agency: DGM Maharashtra]

- a) DGM Maharashtra informed that the project was approved in the 25th EC Meeting held on 29th June, 2022. The sanction order was issued on 27th July, 2022 with timeline of 15 months and approved cost was INR 90,17,447/-.
- b) The project was reviewed in 78th TCC-I meeting, wherein it was informed that detailed geological mapping of 38.34 sq. km and topographic survey of 5 sq.km. are completed. It was also apprised that only 150 m of drilling against the assigned target of 300 m could be completed.
- c) TCC-I in its 78th meeting has recommended the closure of item, subject to submission of formal letter by DGM Maharashtra.
- d) After receiving the formal communication from DGM Maharashtra regarding the delay in execution of work, the revised cost sheet of the item was discussed.

Recommendations of TCC-1:

1. ***The committee recommended closure of item titled "Preliminary exploration (G3) for Manganese in Rongha block, Bhandara District, Maharashtra" and extension of timeline upto 30.09.2025 for GR submission for approval of EC. The cost of item is revised from Rs. 90.17 lakh to Rs. 57.52 lakh with a change in amount of (-) Rs 32.65 lakhs (~36.2 % de-escalation) as per Annexure 7.***
2. ***Further, as the timeline for the project was over by 26th October, 2023 itself, the application for pre-closure of the project along with detailed justifications for the delay in execution need to be submitted to EC for approval.***

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

[Implementing Agency: DGM Maharashtra]

- a) DGM Maharashtra informed that the project was approved in the 25th EC Meeting held on 29th June, 2022. The sanction order was issued on 21st July, 2022 with timeline of 15 months and approved cost was INR 73,72,848/-. Time line was extended upto 31.03.2024 in 32nd EC meeting.
- b) The project was reviewed in 78th TCC-I meeting, wherein it was informed that detailed geological mapping of 4.04 sq. km and collection and analysis of 400 samples (380 from BH and 20 BRS) was completed.
- c) TCC-I in its 78th meeting has recommended the closure of item, subject to submission of formal letter by DGM Maharashtra.
- d) After receiving the formal communication from DGM Maharashtra regarding the delay in execution of work, the revised cost sheet of the item was discussed.

Recommendations of TCC-1:


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1. ***The committee recommended closure of item titled “Preliminary exploration for Limestone in Savalhira block (4.04 sq. km), Chandrapur District, Maharashtra” and extension of timeline upto 30.09.2025 for GR submission for approval of EC. The cost of item is revised from Rs. 73.73 lakh to Rs. 83.77 lakh with a change in amount of Rs 10.04 lakhs (~13.61 % escalation) as per Annexure 8.***
2. ***Further, as the timeline for the project was over by 31st March, 2024 itself, the application for pre-closure of the project along with detailed justifications for the delay in execution need to be submitted to EC for approval.***

79.4.9 Preliminary Exploration (G3) for Graphite in Arasanur East Block (1.93 sqkm extent), Shivaganga District, Tamil Nadu

[Implementing Agency: KIOCL]

- a) KIOCL informed that the project was approved in the 35th EC Meeting held on 16th May, 2024. The Sanction Order was issued on 10th June, 2024 with timeline of 12 months (up to 09.06.2025) and approved cost was INR 3,46,19,535/-. The 78th TCC recommended timeline extension of 7 months, upto 31.12.2025 for approval of EC.
- b) The agency apprised the committee that progress of drilling was reviewed in 78th TCC-I meeting, and it was suggested that BH- 4 is to be done for 60 m vertical depth and depending upon outcome, decision regarding depth of other boreholes would be taken.
- c) The committee was apprised about the outcome of BH- 4 that no mineralization was encountered upto 60 m depth. Therefore, KIOCL sought approval for carrying out drilling in the remaining profiles for 30 m vertical depth.
- d) From the drilling completed so far in BH- 01, 02, 03, 04 and 10 in the block, graphite band with thickness ranging from 10 to 11 m is intersected between 22 to 45 m depths along the borehole in BH Nos. 02, 03 and 10. Borehole Nos. 01 and 04 have not intersected any graphite zone.
- e) Further, KIOCL sought approval for one more borehole to be drilled for 60 m vertical depth along BH No. BH-1A so as to arrive final call whether to carry out drilling at 60 m vertical depth in the block or not.

Recommendations of TCC-1:

The TCC-1 approved drilling of 1 more borehole for 60 m vertical depth behind the BH-1A in which good mineralized zone is intersected at 30 m vertical depth. Remaining profiles in the approved drilling plan will be drilled for 30 m vertical depth and there will be no change in the overall drilling target.

79.4.10 Reconnaissance Survey (G-4) for polymetallic mineralization (Au,Cu,Ni,Co) in Dharwar Shimoga Schist Belt of Nagavanda area Dhavangere, Haveri and Shimoga Districts, Karnataka (Block area- 63.62 sq. km)

[Implementing Agency: KIOCL]

- a) KIOCL informed that the project was approved in the 28th EC Meeting held on 16th March, 2023. The Sanction Order was issued on 27.03.2023 with timeline of 12 months (up to 26.03.2024) and approved cost was INR 1,47,62,526/-. Timeline extension upto 30.06.2024, 31.12.2024 and 31.05.2025 was approved in 63rd TCC, 36th EC and 40th EC meetings respectively.#
- b) The project was reviewed in 77th and 78th TCC-I meetings.

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- c) The agency apprised the committee that the Geological Report (GR) has been peer reviewed and the comments of reviewer and action taken on comments were discussed.
- d) The committee was apprised that quantum of drilling component was reduced as no mineralization was intersected in boreholes.
- e) The committee was also informed that work of chemical analysis was outsourced. The agency requested for ratification of cost of project.

Recommendations of TCC-1:

The committee recommended the agency to submit final GR and also suggested to submit the revised cost sheet in upcoming TCC-I meeting for review.

**79.4.11 Preliminary Exploration (G-3) for Limestone in Alda Block Raipur & Balodabazar-Bhatapara Districts, Chhattisgarh
[Implementing Agency: DGM Chhattisgarh]**

- a) DGM Chhattisgarh informed that the project was approved in the 33rd EC Meeting held on 19th February, 2024. The Sanction Order was issued on 28th February, 2024 with timeline of 10 months (up to 27.12.2024) and approved cost was INR 1,42,74,012/- (revised cost by 74th TCC-I). Timeline extension was approved upto 27.03.2025, 31.05.2025 and 30.06.2025 in 72nd TCC-I, 42nd EC meetings respectively.
- b) The agency informed that project was reviewed in 78th TCC-I meeting, wherein, the peer reviewer's comments and action taken thereon was discussed.
- c) The committee during its 78th meeting has instructed re-determination of the bulk density test and specific gravity of limestone and recalculation of resources based on new bulk density values.
- d) The agency apprised the committee that resource estimation of Limestone considering the re-determined bulk density of 2.76 gm/cm³ has been done and incorporated in GR.

Recommendations of TCC-1:

The committee recommended submission of GR. Timeline extension upto 31.07.2025 for GR submission with an approval of EC.

**79.4.12 Preliminary Exploration (G-3) for Iron ore in Khandadhar Sub Block-E (8.797 sq.km.), Sundargarh district, Odisha
[Implementing Agency: OMC Ltd.]**

- a) OMC informed that the project was approved in the 32nd EC Meeting held on 06th December, 2023. The sanction order was issued on 12th December, 2023 with timeline of 12 months and approved cost was INR 7,99,38,943/-.
- b) The item was reviewed in 75th TCC-I meeting and time line extension for the project upto 30th June 2025 for pursuing the matter with Forest department for Forest Clearance (FC) was recommended.
- c) The agency informed that forest clearance for drilling is still pending and timeline extension upto 31.12.2025 is sought.


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Recommendations of TCC-1:

The committee suggested that duration of 3 months is given for obtaining the forest clearance. The committee also instructed that if Forest Clearance is not received in recommended timeline, then GR would be submitted with available data.

**79.4.13 Khandadhar Sub Block - A (4.03 sq.km), District- Sundargarh, Odisha
[Implementing Agency: OMC Ltd.]**

and

79.4.14 Khandadhar Block (2.93 sq km), Dist.- Sundergarh, Odisha [Implementing Agency: OMC Ltd.]

- a) OMC informed that the projects titled “Khandadhar Sub Block - A (4.03 sq.km), District- Sundargarh, Odisha” and “Khandadhar Block (2.93 sq km), Dist.- Sundergarh, Odisha” was approved in the 11th and 10th EC Meetings respectively.
- b) OMC informed that forest clearance for drilling is awaited for both the blocks.
- c) The committee opined that duration of 3 months is given for obtaining the forest clearance. If in this period, F.C is not obtained, GR is to be submitted for the both items.
- d) The committee suggested that simultaneous GR preparation should be done as no time extension would be approved, if in case FC is not obtained.
- e) OMC has to submit revised cost sheets and status notes to NMET before submission of GR.

Recommendations of TCC-1:

The committee suggested that duration of 3 months is given for obtaining the forest clearance. If in this period, FC is not obtained, GR is to be submitted for both the items with available data.

**79.4.15 (i) Reconnaissance survey (G-4) for Diamond in part of a Palaeo-channel in Krishna Basin near Mangalagiri, Guntur District, Andhra Pradesh
[Implementing Agency: Geo Marine Solutions Pvt. Ltd.]**

- a) Geo Marine Solutions informed that the project was approved in the 38th EC Meeting held on 29th November, 2024. The Sanction Order was issued on 30th December, 2024 with timeline of 12 months (i.e., up to 29.12.2025) and approved cost was INR 2,06,54,529/-.
- b) The agency apprised the committee that the progress of work is as per schedule.
- c) The agency apprised the committee that 25 nos. of high resistivity zones were identified from resistivity profile data. Out of 25 high resistivity zones, seismic survey was carried out at 8 zones. Remaining 17 zones will be studied during the remaining seismic survey.
- d) The committee suggested that high energy seismic survey may be carried out for greater depth to estimate the basement depth.
- e) The agency sought addition of components in quantum target, for which the committee instructed to correspond with NMET, New Delhi.

Recommendations of TCC-1:


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The committee approved the modification in components of item. Cost of item is revised from Rs. 206.55 lakhs to Rs. 201.84 lakhs with a change in amount of (-) Rs 4.71 lakhs (~2.28 % de-escalation) as per Annexure 9.

79.4.15 (ii) Preliminary exploration (G3 stage) for Vanadium, Titanium and associated minerals in beach and dune sands of Talashil block in Sindhudurg district, Maharashtra

[Implementing Agency: M/S Geo Marine Solutions Pvt. Ltd]

- a) Geo Marine Solutions informed that during 68th TCC-I meeting, the committee noted the progress of the project and suggested to estimate total heavies like Monazite, ilmenite, rutile, garnet, magnetite, zircon etc. for all the samples as per the MEMC Rules.
- b) Geo Marine Solutions Pvt.Ltd sought approval and sanction for additional costs incurred towards sample analysis carried out from the Labs of AMD.

Recommendations of TCC-1:

The committee advised the agency to bring the analytical details and revised cost sheet in the upcoming TCC.

79.4.15 (iii) Preliminary Exploration for Aluminous Laterite and Associated Critical Elements (V, Ga, & REE) in Mundalli Block, Uttara Kannada District, Karnataka

[Implementing Agency: M/S Geo Marine Solutions Pvt. Ltd]

- a) Geo Marine Solutions informed the committee that a certification from NMET in respect of core recovery percentage is required to submit along with the invoice to Dy.DG for countersigning.

Recommendations of TCC-1:

The committee advised the agency to bring the borehole wise core recovery details and analysis of core samples in upcoming TCC meeting for detail discussion.

79.4.16 Reconnaissance Survey (G4) for Graphite in Nawadih Block, Balrampur District, Chhattisgarh

[Implementing Agency: United Exploration India Private Ltd.]

- a) UEIPL informed that the project was approved in the 30th EC Meeting held on 6th June, 2023. The Sanction Order was issued on 26th June, 2023 with timeline of 06 months (up to 05.12.2023) and approved cost was INR 27,72,193/-. Time line extensions upto 31.05.2024, 30.11.2024 and 30.06.2025 were approved during 36th, 37th and 42nd EC meetings respectively.
- b) The agency apprised the committee that Pitting work for 75 cu.m. was completed to establish extension of exposure and also to locate graphite mineralization in the soil covered areas. Additionally limited SP survey has also been conducted.
- c) The committee was informed that proximate analysis for 31 pit samples completed. Analytical results of the remaining samples are awaited.


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- d) The committee reviewed the map and suggested all maps will have to prepare with all geological information alongwith standard stratigraphic name of the litho units.
- e) The TCC-1 reviewed the progress of the item and advised UEIPL to come back again for the review with chemical analysis and GR.

Recommendations of TCC-1:

The committee recommended timeline extension upto 15.09.2025 for approval of EC for submission of GR.

79.4.17 Reconnaissance (G-4) for Manganese around Kandhal area of Rairakhol Talahasil, Sambalpur District, Odisha

[Implementing Agency: DGM Odisha]

- a) DGM Odisha informed that the project was approved in the 38th EC Meeting held on 29th November, 2024. The Sanction Order was issued on 13th December, 2024 with timeline of 10 months (i.e., up to 12.10.2025) and approved cost was INR 73,94,658/-
- b) The agency informed that the progress of project was reviewed in 76th TCC-I meeting and DMG Odisha was advised to explore the possibility of accomplishing drilling target.
- c) DMG Odisha informed that total 80cum excavation target has been achieved in shape of 40 cu.m of pitting work in 18 pits and 40 cu. m of trenching work in 10 trenches. The continuity band of manganese was examined through pitting/Trenching but not found in the pit and trench sections.
- d) The agency apprised the committee that drilling work is not possible in the dip direction of Mn ore body due to steep slope of the mound that is causing hindrance for the movement of the rig.
- e) The committee reviewed the progress of work, and opined that drilling component may be dropped due to inaccessibility of rig in the Mn-rich zone.
- f) The committee instructed agency to present revised cost sheet and bring GR for review in next TCC meeting.

Recommendations of TCC-1:

The committee recommended pre- closure of item for approval of EC due to dropping of drilling and related components. The committee also advised the agency to bring GR for review and revised cost sheet in next TCC meeting.

79.4.18 Preliminary Exploration (G3) for Bauxite in Kalychochra block, Rayagada district, Odisha

[Implementing Agency: DGM Odisha]

- a) DGM Odisha informed that the project was approved in the 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 24th February, 2025 with timeline of 12 months (up to 23.02.2026) and approved cost was INR 99,55,620/-.
- b) The agency apprised the committee about the progress of work and informed that the geological mapping and topographic survey has been completed. Drilling and related components are to be taken.


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- c) The committee was informed that thickness of Aluminous Laterite in the block ranges from 1.00 m (CH-1) to 4.00 m (CH-4) and for bauxite for it ranges from 2.00 m (CH-5) to 4.50 m (CH-2).
- d) From the analytical results received so far, the value of Al_2O_3 ranges from 18.03 to 60% for grab samples, while the channel samples have yielded Al_2O_3 value from 23.59 to 50.61%.
- e) DGM Odisha informed that re-tendering of drilling outsourcing is under progress.
- f) The agency sought approval of beneficiation of the bauxite at this current level of exploration.
- g) The committee reviewed the progress of work and opined that beneficiation could not be approved at G3 stage of exploration.

Recommendations of TCC-1:

The committee did not approve the beneficiation work of Bauxite at G3 level of exploration and advised the agency to accomplish the approved target within stipulated timeline.

**79.4.19 Preliminary Exploration (G-3) for aluminous laterite and associated critical minerals in Govindagudde & Sedigudde Block, Udipi District, Karnataka
[Implementing Agency: Critical Mineral Trackers]**

- a) CMT informed that the project was approved in the 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 07th March, 2025 with timeline of 06 months (up to 06.09.2025) and approved cost was INR 44,24,191/-.
- b) CMT apprised the committee that out of total 1.2 sq. km, 89 hectares falls in Forest area, while 31 hectares is in KCDC area and is under exempted category.
- c) The agency informed that the FC permission has not been given yet and so timeline extension is sought.
- d) The committee discussed the issue and opined that timeline extension upto 31.10.2025 may be approved.

Recommendations of TCC-1:

The committee approved timeline extension of 2 months upto 31.10.2025 for completion of the project.

**79.4.20 Preliminary Exploration (G-3) for Limestone in Sawalhira (East) Block, Chandrapur District, Maharashtra
[Implementing Agency: Gemcokati Exploration Pvt. Ltd.]**

- 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 item was reviewed in 78th TCC-I meeting and fore-closure of item was recommended due to forest clearance issue and non-promising values of CaO in subsurface samples.
- c) The agency presented the revised costsheet.

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Recommendations of TCC-1:

The committee recommended closure of item titled "Preliminary Exploration (G-3) for Limestone in Sawalhira (East) Block, Chandrapur District, Maharashtra" and extension of timeline upto 31.08.2025 for GR submission for approval of EC. The cost of item is revised from Rs. 86.71 lakh to Rs. 57.22 lakh with a change in amount of (-) Rs 29.49 lakhs (~34.00 % de-escalation) as per Annexure 10.

**79.4.21 Preliminary exploration (G3) of limestone in Ponar, Adilabad District, Telangana (Additional Agenda)
[Implementing Agency: MMPL]**

- a) MMPL informed that the project was approved in the 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 07th March, 2025 with timeline of 08 months (up to 09.10.2025) and approved cost was INR 1,04,08,196/-.
- b) The item was reviewed during 78th TCC-I meeting, wherein the committee has instructed that drilling of 4 bore hole is to be done over limestone and drilling of 1 bore hole to be done over dolomite to estimate the thickness of dolomite or dolomite-limestone intercalation.
- c) The agency apprised the committee that the borehole ID PNBH-01 was drilled over dolomite. The drilling was done upto 100 m depth and the basement rock (shale) was not encountered. Dolomite was present upto 5 m depth only.
- d) Analytical results of samples are awaited.
- e) The agency sought permission for drilling of remaining borehole and revision of cost sheet. The committee is suggest remaining borehole may drilled on limestone band.
- f) The agency discussed the project and approved the drilling of remaining borehole.

Recommendations of TCC-1:

The committee approved drilling of remaining borehole. The committee suggested that the cost revision of project may be taken up at the time of GR submission.

**79.4.22 Reconnaissance Survey (G4) for Graphite in Dumburuneli Area, Rayagada, Odisha (Additional Agenda)
[Implementing Agency: MMPL]**

- a) MMPL informed that the project was approved in the 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 05th March, 2025 with timeline of 10 months (up to 04.01.2026) and approved cost was INR 1,37,69,756/-.
- b) The agency presented the progress of work and sought additional meterage of drilling component.
- c) The TCC reviewed the work and suggested that BH-2 may be re-planned so that it intersect the centre of the graphite band, and hence confidence level of mineralization is increased.
- d) The committee opined that the drilling may be done according to the approved quantum.

Recommendations of TCC-1:


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The committee did not approve additional drilling meterage and suggested the agency to the work according to approved quantum.

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**List of participants attended 79th meeting of Technical-cum-cost
Committee (TCC-I) of NMET held on 28th and 29th July, 2025 through video
conferencing mode**

S.no	Name	Designation	Email ID	Contact No	Organization
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25	Mr. M. Balakrishnan	Lead - Geophysical Exploration	oed@geomarin esolutions.in	9483517689	Geo Marine Solutions Pvt. Ltd.
26	Mr. Guruprasad S.	Geologist	gurups@geoma rinesolutions.in	9745526250	Geo Marine Solutions Pvt. Ltd.
27	Ms. Aparna C.V.	Geophysicist	mail@geomarin esolutions.in	9061467262	Geo Marine Solutions Pvt. Ltd.
28	Smt. Manorama Mohapatra	Project Co- ordinator	explorationnabe t@gmail.com	9668511831	Eartnenviro Pvt Ltd.
29	Ms. Jyotirmayee Mohanty	Geologist	explorationnabe t@gmail.com	7504662574	Eartnenviro Pvt Ltd.
30	Sh. P R Mishra	Technical area expert	explorationnabe t@gmail.com	7400066685	Eartnenviro Pvt Ltd.
31	Mr. Subrata Sarkar	VP (Project & Planning)	subrata.sarkar @gemcokati.co m	7044208900	Gemco kati Exploration Pvt Ltd, Chandrapur
32	Dr. Vinay Sahay	Sr. Manager(Geology)	vinay.sahay@g eologist.com	9730514284	Gemco kati Exploration Pvt Ltd, Chandrapur
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34	Mr. Tejeswar Barik	Geologist	tejeswarbarik73 @gmail.com	6294601759	Gemco kati Exploration Pvt Ltd, Chandrapur
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37	Mr. Suraj Vidhate	Geologist	vidhatesuraj201 8@gmail.com	9921839321	Gemco kati Exploration Pvt Ltd, Chandrapur
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39	Miss Devika Nagpure	Jr. Geologist	devikanagpure2 018@gmail.com	8408986492	Gemco kati Exploration Pvt Ltd, Chandrapur
40	Mr. Vijay kumar	Jr. Geologist	kumarvijay0688 @gmail.com	9599960131	Gemco kati Exploration Pvt Ltd,

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42	Mr.S.Soma Rama Murthy	Director - Geology & Mineral Exploration	criticalmineraltrackers@gmail.com	9490685131	Critical Mineral Trackers
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44	Mrs. L.Susheela	CMT - Technical Area Expert	criticalmineraltrackers@gmail.com	9440373471	Critical Mineral Trackers
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54	Mr. Shubham Nimbalkar	Geologist	shubhamnimbalkar238@gmail.com	9579211021	Bhuship Mines and Minerals Pvt Ltd.,Nagpur
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58	Mr Pradeep Kulkarni	GM Geology	p.kulkarni@kartikay.co.in	8319364061	Kartikay Exploration And Mining Services Pvt Ltd
59	Mr Jadhv Dileep	Sr Geologist	dileep.kumar@k	8956919711	Kartikay

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	Kumar		artikay.co.in		Exploration And Mining Services Pvt Ltd
60	Representatives from MECL				
61	Representatives from DGM, Maharashtra				
62	Representatives from DMG Karnataka				
63	Representatives from DGM Odisha				
64	Representatives from DGM Goa				
65	Representatives from DGM Goa				
66	Representatives from UEIPL				
67	Representatives from NRD-TATA				
68	Smt. Anju C.S	Superintending Geologist	nmet-mines@gov.in	8588836933	NMET Sectt.
69	Shri. Bulbul Mondal	Superintending Geologist	tcc.nmet.2023@gmail.com	9784700207	GSI, SR
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Estimated Cost for Preliminary Exploration (G-3) for Gold & Associated ore in Bhagvati Extension Block, Bagalkot District of Karnataka
[Block area-15.00 sq.km; Schedule timeline-12 months] Review after 3 & 7 months

			Rates as per NMET SoC 2020-21		Estimated Cost of the		
S.No.	Item of Work	Unit	SoC- Item-SI No.	Rates as per SoC	Proposal		Remarks
					Qty.	Amount (Rs)	
Phase - I							
A	GEOLOGICALWORK (Traverse mapping on existing LSM map)						
i	Charges for One Geologist for Geological Mapping - Field	Per day	1.5.1a	11,000	60	6,60,000	Sampling/trenching/piting for 15 sq km. area
ii	2 labours / party (Rs 541/day/labour) (As per rates of Central Labour Commissioner)	per day	5.7	541	120	64,920	total 2 labours for 1 party for 60 days. Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt whichever is higher
iii	Charges for one Sampler per day (without labour)	Per day	1.5.2	5,100	36	1,83,600	
iv	4 labours/ party (Rs 541/day/labour) (As per rates of Central Labour Commissioner)	Per day	5.7	541	144	77,904	Total 4 labours for 150 days. Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt.whichever is higher
	SubTotal-A					9,86,424.00	
B	Pitting/Trenching						
i	Trenching	Cu m	2.1.1	3330	100	3,33,000	Depth 1m
	SubTotal-B					3,33,000.00	
C	Geophysical Survey						
i	I.P. cum-resistivity, S.P.,Magnetic (8-10 Line km)	8-10 L km	3.4b	14,48,693	2	28,97,386	20 Line Km
	SubTotal-C					28,97,386.00	

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D	LABORATORY STUDIES						
i	for Gold by fire assay	Per Sample	4.1.5a	2380	200	4,76,000	100 BRS & 100 Trench
ii	Analysis of one rock/soil sample for determination of package by 34 element package by ICPMS method	Per Sample	4.1.14	7731	50	3,86,550	
iii	Major oxides	Per Sample	4.1.15a	4200	10	42,000	
iv	for Gold by fire assay (10% external samples)	Per Sample	4.1.5a	2380	20	47,600	
v	Analysis of one rock/soil sample for determination of package by 34 element package by ICPMS method (10% external samples)	Per Sample	4.1.14	7731	5	38,655	
vi	Major oxides (10% external samples)	Per Sample	4.1.15a	4200	1	4,200	
	Petrographic studies						
vii	Preparation of polished thin sections	Per Sample	4.3.2	1549	10	15,490	
viii	Study of thin sections	Per Sample	4.3.4	4232	10	42,320	
ix	EPMA studies per hour	Per hour	4.4.1	8540	5	42,700	
	SubTotal-D					10,95,515.00	
E	Miscellaneous Charges						
	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hardcopies with a soft copy	5.1		0	0	EA has to submit the Hard Copies and the soft copy of the final proposal along with Maps and Plan a suggested by the TCC-NMET in its meeting while Clearing the proposal.

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	Geological Report Preparation		5.2. IV	For the projects having cost exceeding Rs.50 lakhs and less than Rs.150 lakhs- A minimum of Rs.2.5 lakhs or 5% of the value of work Whichever is more			Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
	Drill Core Preservation	Per m	5.3		0	0	
	Peer review Charges		As per EC decision		0	0	
	Land/ Crop compensation	Per BH	5.6		0	0	Amount will be reimbursed as per actuals or max.Rs.20000 per BH with certification from local authorities
	SubTotal-E					0.00	
F	Total Estimated Cost without GST (For Phase I)					53,12,325.00	
G	Provision for GST (18%) (For Phase I)					9,56,218.50	GST will be reimburse as per actual and as per Notified prescribed rate
H	Total Estimated Cost with GST (For Phase I)					62,68,543.50	
						62.685435	Or Say Rs. In Lakhs 62.68 (For Phase I)
Note:							
1	If any part of the project is out sourced,the amount will be reimbursed as per the Paragraph3 of NMETSoCandItemno.6ofNMETSoC.In case of excusion of the project by NEA on its own,a Certifiante regarding non out sourcing of any component/project is required.						

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Phase-II							
			Rates as per NMET SoC 2020-21		Estimated Cost of the		
S.No.	Item of Work	Unit	SoC- Item-SI No.	Rates as per SoC	Proposal		Remarks
A					Qty.	Amount (Rs)	
1	Survey Work						
	Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes and By DGPS	Nos	1.6.2	19,200	14	2,68,800	9 Boreholes and 5 corners of Block
	GEOLOGICALWORK (1:1000)						
	Charges for One Geologist for Geological Mapping - Field days	Per day	1.5.1a	11,000	100	11,00,000	
	2 labours / party (Rs 541/day/labour) (As per rates of Central Labour Commissioner)	day	5.7	541	200	1,08,200	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt whichever is higher
	Charges for one Geologist for Core logging & sample demarcation - Field	Per day	1.5.1a	11,000	0	0	
	Charges for one Geologist per-HQ	Per day	1.5.1a	9,000	45	4,05,000	
	Charges for one Geologist for Pitting & Trenching - Field	Per day	1.5.1a	11,000	0	0	
	Core Sampling - 1 Samplers	Per day	1.5.2	5,100	46	2,34,600	
	4 labours/ party (Rs 541/day/labour) (As per rates of Central Labour Commissioner)	Per day	5.7	541	184	99,544	Total 4 labours for 150 days. Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt.whichever is higher
	SubTotal-A					22,16,144.00	
B	Pitting/Trenching						
i	Trenching	Cu m	2.1.1	3330	50	1,66,500	Depth 1m
	DRILLING (In-house)						
ii	Drilling upto 300m (Very hard Rock)(1rigs) HQ Size	m	2.2.1.5a	12,650	900	1,13,85,000	100m depth (9 bh x 100m)

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	PILLARING						
iii	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	9	18,000	
	Borehole plugging by Cement (HQ Size)	Meters	2.2.7b	200	900	1,80,000	
iv	Transportation of Drill Rig & Truck associated per Drill (1 Rig)	Km	2.2.8	36	1800	64,800	The distance to & Fro is considered. Certification in this regard is required to be provided (From Nagpur to Bagalkot, Karnataka)
v	Monthly Accommodation Charges for drilling Camp (upto 2 Rigs)	month	2.2.9	50,000	5	2,50,000	1 rig will be deployed
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	3	66,060	As per actuals
	Drill Core Preservation	Per m	5.3	1590	250	3,97,500	
	SubTotal-B					1,30,27,860.00	
C	Geophysical Survey						
	Induced Polarization (Dipole-Dipole) (10-20 line Km)	Per Line Km	3.4a	69,950	1	69,950	(10-20 Line Km)
	SubTotal-C					69,950.00	
D	LABORATORY STUDIES						
	for Gold by fire assay	Per Sample	4.1.5a	2380	300	7,14,000	300 samples (50 BRS, 50 Trench & 200 Core samples) 50 ICPMS (Core samples)
	Analysis of one rock/soil sample for determination of package by 34 element package by ICPMS method	Per Sample	4.1.14	7731	25	1,93,275	
	Major oxides	Per Sample	4.1.15a	4200	10	42,000	
	for Gold by fire assay (10% external check samples)	Per Sample	4.1.5a	2380	30	71,400	
	Analysis of one rock/soil sample for determination of package by 34 element package by ICPMS method (10% external check samples)	Per Sample	4.1.14	7731	3	23,193	

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	Major oxides (10% external check samples)	Per Sample	4.1.15a	4200	1	4,200	
	Petrographic studies						
	Preparation of polished thin sections of rock	Per Sample	4.3.2	1549	10	15,490	
	Study of thin sections	Per Sample	4.3.4	4232	10	42,320	
	Bulk Density/specific gravity Determination	Per Sample	4.8.1	1605	5	8,025	
	SubTotal-D					11,13,903.00	
	Total Estimated Cost without GST (For Phase II)					1,64,27,857.00	
	Provision for GST (18%) (For Phase II)					29,57,014.26	
	Total Estimated Cost with GST (For Phase II)					1,93,84,871.26	
	Total Estimated Cost without GST (For both Phase of work)					2,17,40,182	
E	Miscellaneous Charges						
	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hardcopies with a soft copy	5.1	2% of the project cost subject to a maximum of 5 lakhs	1	4,34,804	EA has to submit the Hard Copies and the soft copy of the final proposal along with Maps and Plan a suggested by the TCC-NMET in its meeting while Clearing the proposal.
	Geological Report Preparation		5.2.IV	For exploration work exceeding ₹150 lakh but less than 300 lakhA Minimum of ₹7.5 lakh or 3% of the work whichever is more and		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.

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				₹3000/- per each additional copy			
	Peer review Charges		As per EC decision	30000	1	30,000	
	SubTotal-E					12,14,803.64	
K	Total Estimated Cost without GST					2,29,54,986	
J	Provision for GST (18%ofl)					41,31,897	GST will be reimburse as per actual and as per Notified prescribed rate
K	Total Estimated Cost with GST					2,70,86,883	
	Rs. In Lacs					270.87	
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 excusion of the project by NEA on its own, a Certifiante 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 (G-3) for Gold & Associated ore in Bhagavati Extension Block, Bagalkot
District of Karnataka**

S.No.	Description	Months/Days	1	2	3	Review	4	5	6	7	Review	8	9	10	11	12
	Phase-1 sampling															
	Geophysical activity															
	Sample preparation & Analysis															
1	Camp Setting	days														
2	Geophysical Survey	days														
	Processing of Geophysical data and report writing	days														
3	Trenching and Preparation of Geological plan by correlation of Geophysical data	days														
4	Preparatory work for review by NMET	days														
	DGPS Survey	days				Review					Review					
3	Drilling(1rig)	Months														
4	Sampling	Months														
5	Camp winding	days														
6	Laboratory Studies	Months														
7	Report Writing with Review	Months														

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Estimated Cost for Preliminary Exploration (G3) for Bauxite, Aluminous Laterite, Manganese and Associated Minerals, Rengalaberha-Kashira Block, Sundergarh District, Odisha

Name of the Exploration Agency - Natural Resources Division, Tata Steel Limited

Total Area - 3.13 Sq. Km; Drilling: 800 m, BH: 25nos; Completion Time - 12 Months; Reviews: 4 months, 8 months

Sl. No	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item-S. No.	Rates as per SoC	Qty.	Total Amount (Rs)	
A	Geological Mapping, Other Geological Work and Surveying						
1.1	Geologist: (1:4000 scale)	Mandays	1.2	11000	150	1650000	
1.2	Geologist: Project Manager at HQ (for overall supervision, liaisoning etc)	Mandays	1.2	9000	45	405000	
1.3	Labour charges (for sample collection, packaging, carrying)	Mandays	5.7	541	300	162300	As per labour commission
1.4	Charges for one sampler per day (for sample preparation)	Mandays	1.5.2	5100	98	499800	
1.5	Labour charges (for sample preparation)	Mandays	5.7	541	392	212072	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
1.6	Topographical Survey (for mapping & contouring)	Charges for one surveyor per day	1.6.1a	8300	50	415000	
1.7	Labour charges (4 labours)	Mandays	5.7	541	200	108200	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.

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1.8	Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS (including charges for labours deployed for the work)	Per point of Obseration	1.6.2	19200	39	748800	Boundary pillar and BH points Survey
Sub Total A						4201172	
B	Drilling/Pitting						
2.1	Pitting	per cu m	2.1.2	3800	40	152000	1.0m x 1.0m x 1.0m
2.2	Drilling (NQ size) - Diamond core drilling	per m	2.2.1.1b	7168	700	5017600	As per MOC rate/ Soft rock/ Outsourced
2.3	Drilling (NQ size) - Diamond core drilling	per m	2.2.1.4a	11500	100	1150000	Outsourced / Hard rock
2.4	Drill core preservation	per m	5.3	1590	300	477000	
Sub Total B						6796600	
C	Geophysical Survey - Outsourced						
3.1	I.P. cum-resistivity, SP., magnetic	(8-10 line km)	3.4b	1448693	1	1448693	Outsourced
Sub Total C						1448693	
D	Laboratory Studies						
4.1	Analysis of rock samples by XRF	Per sample	4.1.15a	4200	75	315000	Outsourced
	10 percent external check samples	Per sample	4.1.15a	4200	8	33600	Outsourced
4.2	Chemical analysis - Borehole samples	Per sample	4.1.15a	4200	600	2520000	Outsourced
	10 percent external check samples	Per sample	4.1.15a	4200	60	252000	Outsourced
4.3	Chemical analysis - Pit samples	Per sample	4.1.15a	4200	40	168000	Outsourced
	10 percent external check samples	Per sample	4.1.15a	4200	4	16800	Outsourced
4.6	Combined determination of Trihydrate Alumina (THA-140 degree C), Monohydrate Alumina (MHA-240 degree C and Reactive Silica	Per sample	4.1.17a	6700	10	67000	Outsourced
4.7	Determination of Bond Work Index	Per sample	4.1.17e	10000	4	40000	Outsourced
4.8	Preparation of thin polished section	Per sample	4.3.2	1549	10	15490	Outsourced
4.9	Complete minerographic study	Per sample	4.3.4	4232	10	42320	Outsourced
4.10	XRD analysis for identification of minerals (Random)	Per sample	4.5.1	4000	10	40000	Outsourced
4.11	Determination of insitu bulk density	Per sample	4.10	3540	6	21240	Outsourced

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	Sub Total D					3531450	
E	Project Cost without GST					15977915	
6	Total Outsourced Cost					11147743	
7	Tendering process cost for outsourced activities		2.3			222955	2% of the approved project cost or 5 lakh whichever is lower
8	Operational Charges against outsourced activities		6(ii)			961081	₹5 lakh plus 7.5 percent on the balance amount of outsourced cost in excess of ₹50 lakh
9	Peer review by external expert		As per EC decision			30000	
10	Preparation of exploration proposal		5.1			319558	2% of the approved project cost or 5 lakh whichever is lower
11	Geological Report Preparation		5.2 (iii)			750000	A Minimum of ₹7.5 lakh or 3% of the work whichever is more
13	Total Project cost (without GST)					18261509	
14	Provision for GST (18% of I)					3287072	
15	Total Project Cost with GST	%		18		21548580	
16	Rs. In Lacs					215.49	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
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, Aluminous Laterite, Manganese and Associated Minerals,
Rengalaberha-Kashira Block, Sundergarh District, Odisha**

Sl. No.	Activity Plan	1	2	3	4		5	6	7	8		9	10	11	12
1	Topographical Survey														
2	Lithological Mapping (1:5000 scale) and sampling														
3	Pitting														
4	Sample preparation for chemical analysis														
1st Review by TCC on progress and Outcome															
5	Geophysical Survey														
2nd Review by TCC on progress and Outcome															
6	Exploratory drilling, borehole collar survey etc														
7	Logging, sampling, sample preparation, bulk density determination														
8	Sample analysis														
9	Mineragraphic, XRD, trace element study and other studies														
Final Review by TCC on progress and Outcome															
10	Data synthesis and draft report preparation														
11	Peer Review														
12	Final Report preparation and submission														

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Estimated Cost for Reconnaissance Survey (G4) for REE & RM in Chatrai-Narasapuram area, Districts- NTR & Eluru, Andhra Pradesh
Total block area- 157.50 sq km; Completion Time- 10 Months, Auger drilling: 45nos (45*4=180m), Review: after 05 months

Sl. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC- Item- S. No.	Rates as per SoC	Qty.	Total Amount (Rs)	
A	GEOLOGICAL WORK						
1	Geological Mapping (1:12,500)						
	Geologist man days (1 No.) for Geological map & Report (HQ)	days	1.1b	9,000	45	4,05,000	
	a) Geologist man days (2 No) for Large scale (LSM) Geological mapping/ Trenching/ Drilling	days	1.2	11,000	180	19,80,000	2 geologist
	b) Labour (field)	per worker	5.7	541	360	1,94,760	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	c) Sampler for Surface Samples/ Trench Samples / Core Samples Labour charge not included (1 sampler)	day	1.5.2	5100	41	2,09,100	
	d) 4 labours/ party (As per rates of Central Labour Commissioner)	day	5.7	541	164	88,724	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub-Total A					28,77,584	
B	PITTING & TRENCHING						
	a) Excavation of pits for REE (5 pits)	per cu m	2.1.2	3800	20	76000	5 pits (1m*2m*2m) (4 cu.m *5 pits)
	Sub-Total B					76000	
C	DRILLING (outsourced)						
i	Auger Drilling for soft strata upto 150 m depth	per m	2.2.2	4,760	180	8,56,800	45 nos Auger Drilling for REE of 4m depth each, as per actual (outsourced)

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	Sub Total- C					8,56,800	
D	LABORATORY STUDIES						
1	Chemical Analysis						
	i) Separation of Mineral by isodynamic separator	per sample	4.3.5	3640	20	72,800	
	ii) Primary sampling for REE (Bed Rock Samples/Stream Sediment/ Pit Samples/ Auger Drilling Samples) For 34 elemental analysis includes Nb, Sr, Ta, W, Mo, Sn, Rb, Be, Cs, Li & REE analysis by ICP-AES / ICPMS (sequential technique)	per sample	4.1.14	7,731	290	22,41,990	50 Bedrock Samples + 10 orientation Pit samples in raw faction+ 10 orientation pit samples in HM faction+ 65 SSS in raw faction+ 15 SSS in HM faction+ 90 auger samples in raw faction+ 50 auger samples in HM faction
	ii) External Check samples for REE (Bed Rock Samples/Stream Sediment/ Pit Samples/ Auger Drilling Samples) For 34 elemental analysis includes Nb, Sr, Ta, W, Mo, Sn, Rb, Be, Cs, Li & REE analysis by ICP-AES / ICPMS (sequential technique)	per sample	4.1.14	7,731	29	2,24,199	10% of primary samples
	iii) Whole Rock Analysis for Major Oxides by XRF technique	Nos	4.1.15a	4,200	10	42,000	
	External check sample	Nos	4.1.15a	4,200	1	4,200	
2	Petrological / Mineralographic studies						
	a) Preparation of thin section	per sample	4.3.1	2,353	10	23,530	
	b) Study of thin section for petrography	per sample	4.3.4	4,232	10	42,320	
	c) Preparation of polished section	per sample	4.3.2	1,549	10	15,490	
	d) Study of polished section for mineragraphy	per sample	4.3.4	4,232	10	42,320	
	e) Digital photomicrograph of thin polished section	per sample	4.3.7	280	10	2,800	
3	XRD Mineral Phase Analysis	per sample	4.5.1	4,000	10	40,000	

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4	EPMA Studies	per hour	4.4.1	8,540	10	85,400	
	Sub-Total D					28,37,049	
	Total (A TO D)					66,47,433	
E	Total outsourced cost (drilling)					8,56,800	
F	Tendering process cost	one time	2.3	2% of approved project cost or 5 lakhs whichever is lower		17,136.0	
G	Operational charges	one time	6.i	In case of total outsourced cost upto 50 lakhs; 10% of the total outsourced cost will be paid to exploration agency as operational charges		85,680	
H	Geological Report Preparation	Nos	5.2	For the projects having cost exceeding Rs. 50 Lakhs but less than 150 Lakhs: A minimum of Rs. 2.5 lakhs or 5% of the work whichever is more and Rs. 3000/- per each additional copy.	1	3,32,372	
I	Preparation of Exploration Proposal	Nos	5.1	2% or Rs. 500000 whichever is less	1	1,32,949	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.
J	Report Peer Review Charges	lumpsum	As per EC decision	30000	1	30,000	
K	Total Estimated Cost without GST					72,45,569	
L	Provision for GST (18%)					13,04,202	GST will be reimbursed as per actual and as per notified prescribed rate
M	Total Estimated Cost with GST					85,49,772	
					Rs. in Lakh	85.50	

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					s		
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 Reconnaissance Survey (G4) for REE & RM in Chatrai-Narasapuram area, Districts- NTR & Eluru, Andhra Pradesh

S. No.	Particulars	Months/ Days	1	2	3	4	5	Review	6	7	8	9	10
1	Camp Setting	months											
2	Geological Mapping & sampling	months											
3	Pitting	cu.m											
4	Auger Drilling	m											
5	Geologist days	days											
6	Sampling days	days											
8	Camp winding	months											
9	Laboratory Studies	months											
10	Geologist days, HQ	days											
11	Report Writing with Peer Review	months											

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Estimated Cost for Reconnaissance Survey (G4) for Tin, RM-REE mineralisation in Bande-Saver Block (129 sq km), Uttar Bastar Kanker District, Chhattishgarh.

Schedule timeline- 10 months [Review: After 4 & 8 Months]

Drilling : 400m, BH: 5

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Additional charge for most affected LWE districts	Total Amount (Rs)	Remarks
			SoC-Item No. *	Rates as per SoC *	Qty. (b)	Total Amount (Rs) (a*b)	Factor of multiplication		
A	Geological mapping, (1:12,500 scale) & Trenching , drilling work								
i	a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.2	11000	160	1760000	1.25	2200000	
ii	b. Labours Charges; Base rate	day	5.7	541	320	173120	1.25	216400	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
ii	c. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5100	47	239700	1.25	299625	
iv	d. Labours (4 Nos)	day	5.7	541	188	101708	1.25	127135	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
	Sub Total- A							28,43,160	

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B	Survey work								
a	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.6.2	19200	5	96000	1.25	120000	
b	Charges of Surveyor (1 party) for Geophysical survey layout work & Block boundary demarcation	one surveyor per day	1.6.1a	8300	0	0	1.25	0	
c	Labours Charges for survey work;	day	5.7	541	0	0	1.25	0	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
	Sub-Total B							1,20,000	
C	Trenching/Pitting								
	Excavation of Trench	per cu.m	2.1.1	3300	200	660000	1.25	825000	
	Sub-Total C							825000	
D	DRILLING (after review)								
1	Drilling up to 300m (Hard Rock)	m	2.2.1.4	11,500	400	4600000	1.25	5750000	5 BH
2	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	3	60000	1.25	75000	
3	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	5	10000	1.25	12500	
4	Borehole plugging by cement	per borehole	2.2.7b	150	-	0		0	
5	Transportation of Drill Rig & Truck associated per drill (2 rigs)	Km	2.2.8	36	400	14400	1.25	18000	From Chandrapur to Bande
6	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	1	50,000	1.25	62500	
7	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	1	2,50,000	1.25	312500	
8	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	1	2,50,000	1.25	312500	
9	Road Making (Flat Terrain)	Km	2.2.10a	22,020	3	66,060	1.25	82575	
	Sub Total D							66,25,575	

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	TOTAL A to D							1,04,13,735	
E	Geological & Geophysical activities in the Head quarter								
	c. Charges for Geologist per day (HQ)	day	1.3	9000	45	405000	1	405000	
	Drill Core Preservation	per m	5.3	1,590	200	3,18,000	1.00	318000	
	Sub Total E							7,23,000	
G	LABORATORY STUDIES								
1	Chemical Analysis								
i)	Geochemical Sampling- Surface samples (Bedrock/Channel /Soil/Stream sediment)								
	ICPMS for 34 elements	Nos	4.1.14	7731	320	24,73,920	1	24,73,920	100 BRS + 100 Trench Samples + 90 Core Samples + 30 Soil Samples
ii)	Surface Check samples (10% External)					-		-	
	ICPMS for 34 elements(Check)	Nos	4.1.14	7731	32	2,47,392	1	2,47,392	10 BRS + 10 Trench Samples + 19 Core Samples+ 3 Soil Samples
	Estimation of major oxides by XRF/whole rock analysis for primary samples (CaO, MgO, SiO ₂ , Al ₂ O ₃ , LOI, Na ₂ O, Fe ₂ O ₃ , MnO, K ₂ O, TiO ₂ , SO ₃ , P ₂ O ₅ , Cr ₂ O ₃ , ZnO, V ₂ O ₅)	per sample	4.1.15 a	4200	20	84,000	1	84,000	10 BRS + 10 Core samples
	Estimation of major oxides by XRF/whole rock analysis for check samples (External 10 percent)	per sample	4.1.15 a	4200	2	8,400	1	8,400	
2	Physical & Petrological Studies								
i	Preparation of thin section	Nos	4.3.1	2353	30	70,590	1	70,590	
ii	Study of thin section	Nos	4.3.4	4232	30	1,26,960	1	1,26,960	

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iii	Preparation of polish section	Nos	4.3.2	1,549	20	30,980	1	30,980	
iv	Study of polished section	Nos	4.3.4	4,232	20	84,540	1	84,540	
v	Digital Photographs	Nos	4.3.7	280	60	16,800	1	16,800	
vi	XRD Studies	Nos.	4.5.1	4,000	15	60,000	1	60,000	
	Sub total G							32,03,682	
H	Total A to G							1,43,40,417	
I	Geological Report Preparation	5 Hard copies with a soft copy	5.2	5.2 (ii) A Minimum of ₹2.5 lakh or 5% of the work whichever is more	-			7,17,021	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					30,000	
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	-			2,86,808	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							1,53,74,246	
M	Provision for GST (18% of J)							27,67,364	GST will be reimburse as per actual and as per notified prescribed rate
N	Total Estimated Cost with GST							1,81,41,611	
				Rs. In Lakhs				181.42	
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 (G-4) for TIN, RM & REE mineralisation in Bande-Saver Block (129 sq km), Uttar Bastar Kanker, Chhattishgarh. Schedule timeline- 12 months [1st Review: After 4 Months & 2nd Review: After 8 months]																
S. No.			1	2	3	4	Review	5	6	7	8	Review	9	10	11	12
1	Camp Setting	Months/Days														
2	Geological Mapping & Sampling	days														
3	Pitting/Trenching	cu.m														
4	Drilling	m														
5	Survey Party days	days														
6	Sampler Man days	days														
7	Laboratory Studies	Nos.														
8	Camp Winding	months														
9	Report Writing with Peer Review	months														

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Estimated Cost for Reconnaissance Surevy (G4) for Graphite and associated minerals in Barakarli Area, District: Rayagada, Odisha.
[Block area- 40.5 sq. km; Nos. of Borehole-5; Borehole depth range- average 60 m; Schedule timeline- 09 months]
Review : 3 & 6 months

			Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		
S. No.	Item of Work	Unit	SoC-Item -SI	Rates as per	Qty.	Total Amount (Rs)	Remarks
A	GEOLOGICAL WORK (1:12500 scale)						
i	Charges for one Geologist - HQ	day	1.2	9000	30	2,70,000	
ii	Charges for two Geologist- Field	day	1.2	11000	120	13,20,000	
iii	Labour (2 Nos) Base rate - Rs.541/-	day	5.7	541	240	1,29,840	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
iv	Charges for one Sampler per day for BRS, Pits, Trenches & BH	one sampler/day	1.5.2	5,100	48	2,44,800	
v	Labours (2 Nos) Base rate - Rs. 541/-	day	5.7	541	192	1,03,872	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
	Sub Total- A					20,68,512	
B	Pitting/Trenching						
i	Pitting(2m x 2 m x 1m) 40 nos	Cu m	2.1.2	3,800	160	6,08,000	4 cu.m*40 pits
ii	Trenching (1m x 2m x 8m)13 Nos	Cu m	2.1.1	3,330	208	6,92,640	16 cu.m*13 trench
	Sub Total- B					13,00,640	
C	DRILLING (out sourced)						
i	Drilling (Hard Rock)	m	2.2.1.4	11,500	300	34,50,000	

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v	Borehole plugging by cement (HQ)	m	2.2.7a	200	300	60,000	
xii	Drill Core Preservation	per m	5.3	1,590	200	3,18,000	
	Sub Total- C					38,28,000	
D	Total - A to C					71,97,152	
E	LABORATORY STUDIES(Primary & Check samples)						
i	Pitting/Trench/BRS/Core by Proximate Analysis for Graphite(Pr)	per sample	4.1.16	3000	324	972000	80 BRS; 104Trench, 40Pits & 100 from Core Drilling samples will be generated
ii	Proximate Analysis for Graphite(Ch) External check sample	per sample	4.1.16	3000	32	96000	10%
iii	Whole rock analysis (Oxide and trace) by XRF	per sample	4.1.15a	4200	25	105000	
iv	Whole rock analysis (Oxide and trace) by XRF (External check sample)	per sample	4.1.15a	4200	3	12600	
i	Preparation of thin sections	per sample	4.3.1	2353	10	23530	
ii	Study of thin sections	per sample	4.3.4	4232	10	42320	
iii	Bulk Density	per sample	4.8.1	1605	5	8025	
	SubTotal-E					12,59,475	
F				Total (D+E)		84,56,627	
G	Miscellaneous Charges						
i	Preparation of Exploration Proposal (5Hard copies with a soft copy)	5 hard copies	5.1	2% of approved project cost or 5 lakh whichever is lower		169133	
ii	Geological Report Preparation		5.2.4	For the projects having cost exceeding Rs.50 lakhs and less than Rs.150 lakhs- A minimum of Rs.2.5 lakhs or 5% of the value of work whichever is more		4,22,831	
iv	Peer review Charges	As per EC decision		30000		30,000	
	Tender Processing Cost					69,000	
	Operational Charges					3,45,000	
H	Total Estimated Cost without GST					94,92,591	
I	Provision for GST (18% of H)					17,08,666	

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K	Total Estimated Cost with GST	1,12,01,257	
L	Total Estimated cost with GST (in lakhs)	112.01	
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 Reconnaissance survey(G4) for Graphite and associated Minerals in Barakarli block
(Block area-40.5 Sq. km) Dist:Rayagada, Odisha**

Sl. No.	Job description	Months	1	2	3	Revised	4	5	6	Revised	7	8	9
1	Camp Setting	Months											
2	Geological Mapping	Months											
3	Pitting & Trenching	Months											
4	Drilling(1 Rig)	Months											
5	Geologist Party Days	Months											
6	Sampling Party Days	Months											
8	Camp Winding	Months											
9	Laboratory Studies	Months											
10	Geologist Party Days HQ	Months											
11	Report Writing with peer Review	Months											

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Revised of Estimated Cost for Preliminary exploration (G3) for Manganese in Rongha block, Bhandara District, Maharashtra.

[Area 38.34 sq. km, No.of BH:5 , Borehole depth range-60 m each; Schedule timeline- 15 months]

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Modified Cost of the Proposal		Remarks
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	Qty. (b)	Total Amount (Rs) (a*b)	
A	Geological Mapping Other Geological Work & Surveying								
	Geological mapping, (1:12,500 scale) & Trenching , drilling work								
1a	a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.2(b)	₹ 11,000.00	90	₹ 9,90,000.00	82	₹ 9,02,000.00	The quantity has been reduced than proposed due to less drilling as the basement encountered at depth of 18 - 40 m.
1b	b. Charges for Geologist per day (HQ)	day	1.2 (a)	₹ 9,000.00	30	₹ 2,70,000.00	27	₹ 2,43,000.00	
1c	c. Labours Charges; Base rate	day	5.7	₹ 700.00	90	₹ 63,000.00	30	₹ 21,000.00	
2a	a. Charges of Surveyor (1 party) for survey layout work & Block boundary demarcation	one surveyor per day	1.6.1	₹ 8,300.00	30	₹ 2,49,000.00	22	₹ 1,82,600.00	
2b	b. Labours Charges for survey work;	day	5.7	₹ 1,400.00	30	₹ 42,000.00	12	₹ 16,800.00	
3a	a. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	₹ 5,100.00	15	₹ 76,500.00	10	₹ 51,000.00	
3b	. Labours (4 Nos)	day	5.7	₹ 1,400.00	15	₹ 21,000.00	15	₹ 21,000.00	
	Sub Total- A					₹ 17,11,500.00		₹ 14,37,400.00	
B	DRILLING (after review)								
1	Drilling up to 300m (Hard Rock)	m	2.2.1.4a	₹ 11,500.00	300	₹ 34,50,000.00	155	₹ 17,82,500.00	Drilling is achieved less than proposed due to encountering



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2	Borehole fixation and determination of coordinates	per Bh	1.6.2	₹ 20,000.00	5	₹ 1,00,000.00	5	₹ 1,00,000.00	of basement at depth 18-40 m in boreholes
3	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH	5.6	₹ 19,200.00	5	₹ 96,000.00	0	₹ -	
4	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	₹ 2,000.00	5	₹ 10,000.00	0	₹ -	
5	Transportation of Drill Rig & Truck associated per drill (2 rigs)	Km	2.2.8	₹ 36.00	160	₹ 5,760.00	160	₹ 5,760.00	
6	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	₹ 50,000.00	4	₹ 2,00,000.00	3	₹ 1,50,000.00	
7	Drilling Camp Setting Cost	Nos	2.2.9a	₹ 2,50,000.00	1	₹ 2,50,000.00	1	₹ 2,50,000.00	
8	Drilling Camp Winding up Cost	Nos	2.2.9b	₹ 2,50,000.00	1	₹ 2,50,000.00	1	₹ 2,50,000.00	
9	Road Making (Flat Terrain)	Km	2.2.10a	₹ 32,200.00	2	₹ 64,400.00	0	₹ -	
								₹ -	
	Sub Total B					₹ 44,26,160.00		₹ 25,38,260.00	
C	LABORATORY STUDIES								
1	Chemical Analysis								
i	Channel samples	Nos	4.1.1	₹ 8,157.00	50	₹ 4,07,850.00	54	₹ 4,40,478.00	Less potential is proven in the area, leads to generation of less positive samples for analysis.
ii	Drill Core Samples	Nos	4.1.1	₹ 8,157.00	50	₹ 4,07,850.00	10	₹ 81,570.00	
iii	Composite Samples	Nos	4.1.1	₹ 8,157.00	10	₹ 81,570.00	0	₹ -	
2	<u>Physical & Petrological Studies</u>							₹ -	
i	Preparation of thin section	Nos	4.3.1	₹ 2,353.00	5	₹ 11,765.00	0	₹ -	
ii	Study of thin section	Nos	4.3.4	₹ 4,232.00	5	₹ 21,160.00	0	₹ -	
iii	Sp. Gravity	Nos	4.8.1	₹	5	₹	4	₹	

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				1,605.00		8,025.00		6,420.00	
iv	Bulk desnity	Nos	4.8.1	₹ 3,540.00	5	₹ 17,700.00	0	₹ -	
	Sub Total C					₹ 9,55,920.00		₹ 5,28,468.00	
D	Drill Core Preservation								
	One complete borehole plus mineralised cores of all the BHs of the block	m	5.3	₹ 1,590.00	110	₹ 1,74,900.00	0	₹ -	The drill core has been preserved at base camp - Makardhokda of DGM Regional office
	Sub Total D					₹ 1,74,900.00		₹ -	
F	Total A to D					₹ 72,68,480.00		₹ 45,04,128.00	
G	Geological Report Preparation	5 Hard copies with a soft copy	5.2	i		₹ 3,63,424.00		₹ 2,25,206	GR has been made by Geological officer of DGMs. Only expenditure for printing and binding is mentioned
H	Preparation of Exploration Proposal		5.1					₹ 90,083	
I	Peer review Charges		As per EC decision			₹ 10,000.00		₹ 30,000.00	
J	Total Estimated Cost without GST					₹ 76,41,904.00		₹ 48,49,417	
K	Provision for GST (18% of J)					₹ 13,75,542.72		₹ 8,72,895	GST will be reimburse as per actual and as per notified prescribed rate
L	Total Estimated Cost with GST					₹ 90,17,446.72		₹ 57,22,312	₹ 32,95,134.71
				Rs. In Lakhs		₹ 90.17		₹ 57.22	₹ 32.95
Note:									

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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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**Estimated cost for Preliminary Exploration (G-3 Stage) for Locating Limestone Deposits in Savalhira village, District- Chandrapur, Maharashtra
Block area- 4.04 sq. km; No. of Boreholes-06, Borehole Depth- 60m; Scheule timeline-15 months.**

S. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Approved Cost of the Proposal (Year 2022-23)		Modified Cost of the Proposal		Remarks
			SoC-Item -SI No.	Rates as per SoC	Qty.	Amount (Rs)	Qty.	Amount (Rs)	
A	GEOLOGICAL WORK								
1	Geological Mapping (1:5000), borehole logging, sampling & Report writing								
i	Survey days	days	1.6.1a	8,300	30	2,49,000	30	2,49,000	
ii	Geologist (Field days)	days	1.3	11,000	90	9,90,000	90	9,90,000	
iii	Geologist (HQ days)	days	1.3	9,000	30	2,70,000	30	2,70,000	
iv	Sample Processing work	days	1.5.2	5,100	60	3,06,000	60	3,06,000	
	Sub Total-A					18,15,000		18,15,000	
B	Drilling								
i	Surface Drilling (1Rig)	m	2.2.1.1b	5,242	360	18,87,120	400.50	20,99,421	As suggested by NMET-TCC, one stratigraphic borehole was drilled to a depth of 100.50 meters.
ii	Trenching	Cu.m	2.1.1	3,330	10	33,300	10	33,300	
iii	Drilling Camp setting cost	per Drill	2.2.9a	2,50,000	1	2,50,000	1	2,50,000	Certification in this regard is required to be provided
iv	Drilling Camp winding cost	per Drill	2.2.9b	2,50,000	1	2,50,000	1	2,50,000	
v	Road making (flat terrain)	per km	2.2.10a	22,020	1	22,020	1	22,020	Road making will be considered as per the requirment and road making charges will be

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									reimbursed accordingly
vi	Transportation of drilling rig (to & fro)	per km	2.2.8	36	500	18,000	500	18,000	
	Sub Total-B					24,60,440		26,72,741	
C	Laboratory Studies								
1	Chemical analysis								
	i) Primary Samples & Check samples								
	a) For 8 radicals CaO, MgO, SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , TiO ₂ , MnO, P ₂ O ₅	per sample	4.1.15a	4,200	272	11,42,400	380	15,96,000	Due to the increase in drilling meterage, the number of drill core samples also increases.
	b) 10% Check samples	per sample	4.1.15a	4,200	30	1,26,000	30	1,26,000	
2	Physical Analysis							-	
	i) Bulk Density Determination	Nos	4.8.3	1,568	10	15,680	10	15,680	
	Sub Total-C					12,84,080		17,37,680	
D	Preservation of core								
	Core preservation charges	Nos	5.3	1,590	240	3,81,600	240	3,81,600	this amount will be reimbursed after successful delivery of the cores to concerned libraries/authorities
	Total-A to D					59,41,120		66,07,021	
E	Geological Report	5 Hard copies with a soft copy	5.2	For projects having exceeding Rs. 50 Lakh but		2,97,056		3,30,351	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and soft copy to NMET

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				less than 150 lakh: a minimum of Rs. 2.5 lakh or 5% of work whichever is more Rs. 3,000/- per each additional copy					
F	Preparation of Exploration Proposal							1,32,140	
G	Peer review Charges		As per EC decision			10,000		30,000	
H	Total cost without GST					62,48,176		70,99,512	
I	Provision for GST (18% of G)					11,24,672		12,77,912	GST will be reimbursed as per actual and as per notified prescribed rate.
J	Grand Total					73,72,848		83,77,425	Change in amount Rs.8,04,355/- (Additional)
K				Rs in lakh		73.73		83.77	Change in amount (+) Rs. 8.04 lakh (~10.9% escalation)
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.								

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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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Cost table for G4 level Geophysical and Geological Prospecting for Diamond in part of a palaeo-channel near Mangalagiri, Guntur District, Krishna basin, Andhra Pradesh.

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the (originally approved cost)		Qty proposed for revision. (c)	Rate as per SoC (d)	Cost Proposed for Revision	Remarks
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	Qty. (c)	Rates as per SoC * (d)		
A	Geophysical Mapping Other Geological and Geophysical Work & Surveying									
	Geophysical Survey & drilling work	22.6 sq.km								
i	a. Charges for Geophysicist (30*1 Geophysicist -seismic, 20*1 Geophysicist -sounding, 60*1 Geophysicist -profiling)	day	3.18	11,000	110	0	110	11,000	0	
ii	b. Labours Charges; Base rate- 2 labourer per day (5 labourer*30-seismic; 6 labourer *60-electrical profiling.; 5 labourer *20 -elec.sounding)	day		522	610	0	610	522	0	
iii.	c. Charges for 2 Geophysicist per day (HQ) for data processing	day	3.18	9,000	30	2,70,000	30	9,000	2,70,000	
i	a. Charges for Geologist per day (Field) for drilling work	day	1.2	11,000	60	6,60,000	60	11,000	6,60,000	

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ii	b. Labours Charges; Base rate (2 labourers)	day		522	120	62,640	120	541	64,920	Amount will be reimbursed 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		9,000	45	4,05,000	45	9,000	4,05,000	
Sub Total- A						13,97,640			13,99,920	
B	Ground Geophysical Survey									
1.b	High resolution Seismic Survey- A. Source : Hammer/Weight drop & Equip: 24 Channel- 2. Group Interval: 5m (12 Foldage) & within 300 m depth	Per Line km	3.13b	3,03,437	12	36,41,244.00	12.00	3,03,437	36,41,244	
	Elec Resistivity (sounding)	stn	3.5.a	70,650	15	10,59,750.00	15.00	70,650	10,59,750	
	Resistivity profiling	l km	3.6.c	3,00,000	20	60,00,000.00	20.00	3,00,000	60,00,000	
Sub Total- B						1,07,00,994			1,07,00,994	
C	Survey work									
a	DGPS Survey for BH -RL fixing	day	1.6.1a	8,300	10	83000	10	8300	83,000	
b	Labours Charges for DGPS survey;2 labourers	day		522	40	20880	40	541	21,640	
Sub-Total C						103880			104640	
E	DRILLING (after review)									
1	Drilling: For HX Size borehole	Per m	2.2.1.1b	7,168	300	21,50,400	300	7,168	21,50,400	
5	Transportation of Drill Rig & Truck associated per drill	Km	2.2.8	36	2048	0	2048	36	73,728	
6	Monthly Accomodation Charges for drilling Camp	month	2.2.9	50,000	2	0	2	50,000	1,00,000	
7	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	1	0	1	2,50,000	2,50,000	

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8	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	1	0	1	2,50,000	2,50,000	
9	sample processing incl marking of samples, core splitting , packing and labelling, preparation of duplicate samples etc	day	1.5.2	5,100	20	-	20	5,100	1,02,000	
	Labours Charges; Base rate (4 labourers)	day		522	80	-	80	541	43,280	
10	Drill Core Preservation	per m	5.3	1,590	300	4,77,000	300	1,590	4,77,000	
Sub-Total E						26,27,400			34,46,408	
G	LABORATORY STUDIES									
1	Chemical Analysis									
	Separation of heavy minerals from sediment samples of 2mm size through gravity and two level magnetic separation	per sample	4.3.6b	13,820	20	2,76,400	20	13,820	2,76,400	
	XRD analysis for identification of minerals(random)	per sample	4.5.1	4000	10	40000	10	4000	40,000	
	CostPer OTS testing and Gem Identification	per sample	4.3.13	1,820	20	-	20	1,820	36,400	As directed by 37th EC
	Sub-Total G					3,16,400			3,52,800	
H	Total A to G					1,51,46,314.00			1,60,04,762	
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		7,50,000.00			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			30000			30000	

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			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. 3.8 Lakhs whichever is less	3,02,926.28			3,20,095	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.
	Operational charges				10,17,570.00				
	Tendering cost				2,57,028.00				
L	Total Estimated Cost without GST				1,75,03,838.28			1,71,04,857.24	
M	Provision for GST (18% of J)				31,50,690.89			30,78,874.30	
N	Total Estimated Cost with GST				2,06,54,529.17			2,01,83,731.54	
				Rs. In Lakhs	206.55			201.84	Difference in amount: (-) Rs. 3.88 lakhs (~1.87% De-escalation)
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.								

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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.

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Revised Cost expenditure for Preliminary Exploration (G-3) for Limestone in Sawalhira East Block(G3), Chandrapur, District: Maharashtra

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Approved Cost of the Proposal		Revised cost of		Remarks
			SoC-Item No. *	Rates as per NMET SoC 2020-21	Qty. (b)	Total Amount (Rs) (a*b)	Qty. (b)	Total Amount (Rs) (a*b)	
A	Geological Mapping Other Geological Work & Surveying								
	Geological mapping, (1:4,000 scale) & Trenching , drilling work								
i	a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.3	11000	120	1320000	100	1100000	
ii	b. Labours Charges; Base rate	day	5.7	504	240	120960	200	108200	Amount will be reimbursed 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	9000	50	450000	50	450000	
	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5100	32	163200	32	163200	
	e. Labours (4 Nos)	day	5.7	504	128	64512	128	69248	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.

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	Sub Total- A					21,18,672		18,90,648	
B	Ground Geophysical Survey								
1	IP. Induced Polarization (I.P) cum Resistivity S.P and Magnetic (30 Lkm)	8-10 Line Km							
3	Geophysicist party days (Field)	per day							
4	c. Labours Charges	day							
5	Geophysicist party days (HQ)	per day							
	Sub Total- B					-			
C	Survey work								
a	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.6.2	19,200	11	211200	8	1,53,600	
b	Charges of Surveyor (1 party) for Geophysical survey layout work & Block boundary demarcation	one surveyor per day	1.6.1a	8,300	30	249000	30	249000	
c	Labours Charges for survey work;	day	5.7	504	120	60480	120	64920	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
	Sub-Total C					5,20,680		4,67,520	
D	Trenching/Pitting								
	a) Excavation of Pit	per cu.m	2.1.1	3,800		0	6	22,800	
	Sub-Total D							22,800	
E	DRILLING (after review)								
1	Drilling up to 300m (Hard Rock)	m	2.2.1.1b	6,775	300	2032500	120	8,13,000	
2	Borehole deviation Survey by Multishot Camera	m							
3	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	-	0			

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4	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	5	10000	2	4,000	3 BH dropped
5	Borehole plugging by cement	per borehole	2.2.7b	150	-	0			
6	Transportation of Drill Rig & Truck associated per drill (2 rigs)	Km	2.2.8	36	400	14400	400	14400	To and Fro
7	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	2	1,00,000	2	1,00,000	
8	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	1	2,50,000	1	2,50,000	
9	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	1	2,50,000	1	2,50,000	
10	Road Making (Flat Terrain)	Km	2.2.10a	22,020	2	44,040	2	44,040	
11	Drill Core Preservation	per m	5.3	1,590	250	3,97,500	-	-	
	Sub Total E					30,98,440		14,75,440	
F	Borehole Geophysical Logging	5 Bhs of 60m each							
G	LABORATORY STUDIES								
1	Chemical Analysis								
i)	Geochemical Sampling-Surface samples (Bedrock/Channel /Soil/Stream sediment)								
	a. Au by Fire Assay	Nos							
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos							
	c. For PGE by Fire Assay	Nos							
ii)	Surface Check samples (10% External)								
	a. Au by Fire Assay	Nos							
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos							
	c. For PGE	Nos							
iii)	Trench & Check Samples from Trench								

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	Trench samples								
	a. Au by Fire Assay	Nos							
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos							
	c. For PGE	Nos							
iv)	Trench Check samples (10% External)								
	a. Au by Fire Assay	Nos							
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos							
	c. For PGE	Nos							
v)	BH Core samples								
	a. Au by Fire Assay	Nos							
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by ICPMS-34 elements	Nos							
	c. For PGE	Nos							
vi)	BH Core samples (10%External)								
	a. Au by Fire Assay	Nos							
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos							
	c. For PGE	Nos							
vii)	Major Oxide Analysis								
	a) Estimation of major oxides by XRF/whole rock analysis for primary samples (CaO, MgO, SiO ₂ , Al ₂ O ₃ , LOI, Na ₂ O, Fe ₂ O ₃ , MnO, K ₂ O, TiO ₂ , SO ₃ , P ₂ O ₅ , Cr ₂ O ₃ , ZnO, V ₂ O ₅)	per sample	4.1.15a	4200	230	9,66,000	131	5,50,200	45 BRS+ 80CS + 6 PIT
	Estimation of major oxides by XRF/whole rock analysis for check samples	per sample	4.1.15a	4200	23	96,600	14	58,800	5 BRS + 8 CS +1 PIT
	Determination of insitu Bulk Density		4.10	3,540	2	7,080	2	7,080	

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2	<u>Physical & Petrological Studies</u>								
i	Preparation of thin section	Nos							
ii	Study of thin section	Nos							
iii	Preparation of polish section	Nos	4.3.2	1,549	5	7,745	5	7,745	
iv	study of polished section	Nos	4.3.4	4,232	5	21,160	5	21,160	
v	Digital Photographs	Nos	4.3.7	280	10	2,800	10	2,800	
vi	Whole Rock Analysis	Nos							
vii	Sp. Gravity	Nos							
	SEM Studies	per hour							
viii	EPMA studies	per hour							
	Sub total G					11,01,385		6,47,785	
H	Total A to G					68,39,177		45,04,193	
I	Geological Report Preparation	5 Hard copies with a soft copy	5.2	5.2 (i)		3,41,959		2,25,210	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			30,000		30,000	
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		1,36,784		90,084	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					73,47,919		48,49,487	
M	Provision for GST (18% of J)					13,22,625		8,72,908	GST will be reimburse as per actual and as

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								per notified prescribed rate
N	Total Estimated Cost with GST				86,70,545		57,22,394	29,48,151
				Rs. In Lakhs	86.71		57.22	29.48
				Change in amount				(-) Rs 29.69 lakhs (~34.24% de-escalation)
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 79th Meeting of TCC-I

Annexure-11

Sl. No.	Block/Project	Agency	Scheduled date of completion	Timeline Extension		Approval/ Recommendation in 79 th TCC-I		
				Extended timeline	Approving authority	Timeline	Status	Remarks
1.	Preliminary Exploration (G3) for Manganese ore in Dhavalapur block (2.00 sq. km), Nagpur District, Maharashtra	MECL	09.06.2025	--	--	30.09.2025 (3.5 months)	Recommended to EC	For closure of project and submission of GR
2.	Preliminary exploration (G3) for Manganese in Rongha block, Bhandara District, Maharashtra	DGM Maharashtra	26.10.2023	--	--	--	--	As the timeline for the project was over by 26th October, 2023 itself, the application for pre-closure of the project along with detailed justifications for the delay in execution need to be submitted to EC for approval.
3.	Preliminary exploration for Limestone in Savalhira block (4.04 sq. km), Chandrapur District, Maharashtra.	DGM Maharashtra	20.10.2023	31.03.2024	32 nd EC			As the timeline for the project was over by 31 st March, 2024 itself, the application for pre-closure of the project along with detailed justifications for the delay in execution need to be submitted to EC for approval.
4.	Preliminary Exploration (G-3) for Limestone in Alda Block Raipur & Balodabazar-Bhatapara Districts, Chhattisgarh	DGM Chhattisgarh	27.12.2024	27.03.2025	72 nd TCC	31.07.2025 (1 month)	Recommended to EC	For GR submission
				31.05.2025	42 nd EC			
				30.06.2025	42 nd EC			
5.	Reconnaissance Survey (G4) for Graphite in Nawadih Block, Balrampur District, Chhattisgarh	UEIPL	5.12.2023	31.05.2024	36 th EC	15.09.2025 (2.5 months)	Recommended to EC	For GR submission
				30.11.2024	37 th EC			
				30.06.2025	42 nd EC			
6.	Preliminary Exploration (G-3) for aluminous laterite and associated critical minerals in Govindagudde & Sedigudde Block, Udipi District, Karnataka	CMT	06.09.2025			31.10.2025 (2 months)	Approved	For completion of project

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