

Ministry of Mines
National Mineral Exploration Trust
Minutes of the 73rd Technical-cum-Cost Committee-1 (TCC-1) meeting held on
30th and 31st January, 2025 through video conferencing

The 73rd meeting of the Technical-cum-Cost Committee-I (TCC-1) of the National Mineral Exploration Trust (NMET) was held via video conferencing under the chairmanship of Dr. S. Ravi, Deputy Director General (DDG), Geological Survey of India Training Institute (GSITI) and Chairman, TCC-1, NMET, on 30th and 31st January, 2025.

Members of TCC-1, NMET and representatives from DGM, Chhattisgarh, DMG, Karnataka, DGM Maharashtra, CGM Tamil Nadu, MECL, CMPDI, OMC Ltd., KIOCL Limited, Maheshwari Mining Pvt Ltd, Telangana Mineral Development Corporation Limited Agency, Geo Exploration and Mining Solutions, Gemcokati Exploration Pvt Ltd, Geo Marine Solutions Pvt. Ltd., Geo Technical Mining Solutions, Critical Mineral Trackers, APC Drilling & Construction Pvt. Ltd, Kartikay Exploration and Mining Services Pvt. Ltd, and PRB Infraprojects 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 73.1: Technical evaluation of new project proposals

Agenda.73.1.1. Preliminary Exploration (G3) for Limestone in Dhunki-Chilai Block (5.58 Sq.Km Area) District- Yavatmal, Maharashtra.
[Implementing Agency: MECL]

- a) This block is a lapsed lease area and falls under 10(A) 2(B) case. The MECL claimed that DGM Maharashtra has requested MECL to upgrade the block vide letter no. Tech/1848/2023/260, dated 23/01/2024 for further exploration.
- b) The proposed area belongs to Penganga Beds or Penganga Series and falls in Survey of India toposheet no. 55I/13.
- c) The proposed exploration block lies in the east of M/s Bajrang Sales Pvt. Ltd prospected Hiwardhara lease area which shows 30.50% to 51% Cao, 2% to 19.30% MgO and 2.8% to 8% SiO₂.
- d) MECL conducted preliminary field visit in and around the Hiradhwara, Ganeshpura, Dhunki and Chilai area and collected samples which yielded 18.99% to 50.52% Cao, 1.36% to 8.22% MgO and 4.85% to 34.53% SiO₂.
- e) Based on this, MECL proposed G3 stage item in Dhunki-Chilai Block.
- f) The District Mining Officer (DMO), DMG, Maharashtra conveyed that boundaries of the block need to be modified according to the existing mining leases. It was

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informed that about 0.29 sq.km area of proposed block has overlapping with the area leased to Kundra Mines and accordingly asked MECL to modify the block and propose the NQT.

- g) The committee noted that there is river in the south western side of the proposed block and advised MECL to modify the block boundary excluding the river.
- h) The committee observed that DMG, Maharashtra has not submitted its comments, which are essential due to the leasehold areas surrounding the proposed site. It was decided that a final decision would be made only after receiving the state government's input.

Recommendations of TCC-1:

The committee recommended the proposal for approval of EC for “Preliminary Exploration (G3) for Limestone in Dhunki-Chilai Block (4.63 Sq.Km Area) District-Yavatmal, Maharashtra” with an estimated cost of ₹ 97.95 lakh (including GST) within time schedule of 08 months for carrying out the proposed work and submission of report as per Annexure - 2A & 2B. The item will be reviewed after 04 months.

Agenda.73.1.2. Reconnaissance Survey (G4) for Iron Ore in Nawagarh- Nelsod-Antagarh area, District Uttar Bastar Kanker, Chhattisgarh.

[Implementing Agency: PRB Infraprojects Pvt. Ltd.]

- a) The proposed area belongs to Durg-Bastar-Chandrapur Iron ore belt and falls in Survey of India toposheet nos. 64D/16 and 64 H/04.
- b) During 70th TCC-1 meeting two G4 items for Iron ore were proposed in Kawaro Khasgaon and Nawagarh-Nelsod areas.
- c) The proposed Kawaro Khasgaon area, located within Survey of India (SOI) Toposheet No. 64 H/4. GSI conducted regional level work and confirmed the presence of iron ore in the area. During a recent field visit, PRB Infraprojects observed exposures of Banded Hematite Quartzite (BHQ) with massive specularite bands at the two hill tops in Kawaro Khasgaon area.
- d) Similarly, the proposed Nawagarh-Nelsod area falls within SOI Toposheet No. 64 D/16 & 64 H/04, where GSI's regional studies have also reported iron ore presence. The committee was informed of an estimated 2.00 million tonnes of iron ore resources in the nearby North Metabodli Iron Ore Block, which is adjacent to the proposed Nawagarh-Nelsod Area. Additionally, an active iron ore mine is located close to this proposed block.
- e) Team of Geologists from PRB Infraprojects Pvt.Ltd visited the proposed block area and collected 5 bedrock samples yielding 33% to 64.11% Fe, 1.39% to 51.67% SiO₂ and 0.31% to 0.70% Al₂O₃.
- f) DMG, Chhattisgarh opined that the proposed area is small for a G4 stage exploration. After a detailed discussion the committee advised PRB Infra to combine both the areas and prepare a G4 stage item and present a DPR in next TCC-1 meeting.
- g) Accordingly, PRB Infra modified the proposal and submitted for approval from competent authority.

- h) The committee noted that a small portion of the proposed area falls within Bastar district and recommended that PRB include the district name in the project title.
- i) The committee also observed an extended anomalous zone in the northern part of the proposed block on the aerogeophysical map and suggested that PRB plot the block on the relevant 1:50K geological map for better understanding. PRB Infra subsequently presented the geological map and described the geophysical anomaly.
- j) After thorough review, the committee advised PRB Infra to exclude further geophysical surveys in the area and avoid ICP-MS elemental analysis.

Recommendations of TCC-1:

The committee recommended the proposal for approval of EC for “Reconnaissance Survey (G4) for Iron Ore in Nawagarh-Nelsod-Antagarh area, District Uttar Bastar Kanker, Chhattisgarh” with an estimated cost of ₹ 116.67 lakh (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure - 3A & 3B. The item will be reviewed after 03 months.

Agenda.73.1.3. Reconnaissance Survey (G4) for Precious Metals, REE, basemetals and strategic minerals in Kosgi area, Districts Vikarabad and Narayanpet, Telangana. [Implementing Agency: Critical Mineral Tracker]

- a) The proposed area is a part of Granite-Gneiss terrain of PGC-II and falls in part of SOI toposheet nos. 56 G/12, G/16 and 56H/9.
- b) The item is based on geochemical anomalies identified by GSI during the National Geochemical Mapping (NGCM), with zirconium (Zr) values ranging from 600 ppm to 2500 ppm and gold (Au) values from 1.0 ppb to 24.0 ppb, uniformly distributed across the block.
- c) During a recent field visit, Critical Mineral Trackers conducted a reconnaissance study in the Kosgi Block Area, collecting six bedrock samples. These samples yielded promising gold assay values ranging from 0.50 ppm to 1.46 ppm, with sheared granites showing higher gold concentrations.
- d) Additionally, the rubidium-to-strontium ratios of the granite samples (1.68, 1.24, 42.6, 2.34, and 3.93) suggest the Kosgi granite lacks an evolved nature.
- e) CMT presented that globally, grey granites are known for their gold mineralization potential, and in the study area, the granite composition ranges from adamellite to granodiorite. Notably, granites around Kosgi contain specks of pyrite with silvery yellow reflectivity, identified as arsenopyrite, which could be the carrier of gold.
- f) The Kosgi area hosts two prominent WNW-ESE shear zones within grey granites, marked by quartz injections as streaks, lenses, and bands. Bedrock samples (KSG-2 & KSG-4) from quartz-veined and sheared zones show higher gold values, indicating enrichment through hydrothermal alterations. This suggests that hydrothermal fluids served as carriers of gold.
- g) Following recommendations from the 68th TCC-1 meeting, two potential zones were identified within the with 93.96 sq.km area namely Zone-1 (26.5 sq. km) in the northern part of the block and Zone-2 (3.5 sq. km) in the southern part.

- h) The item was again presented during the 69th and 71st TCC-1 meetings and the committee found the item not promising for gold mineralization due to the lack of substantial evidence.
- i) The committee reviewed the item again and upon re-evaluating the item, the committee observed that the reported gold values in granite lacked evidence of shearing, and CMT was unable to show the presence of sulphides in the sheared granite. Consequently, after thorough deliberation, the committee decided not to approve the proposal.

Recommendations of TCC-1:

The committee did not find proper justification to conduct exploration in the proposed area and decided not to recommend the item. The item is not approved.

Agenda.73.1.4. Reconnaissance Survey (G4) for REE in Kalugur area, District Karur, Tamil Nadu. [Implementing Agency: Geo Exploration and Mining Solutions]

- a) The proposed block area forms part of Madurai block of Southern Granulite Terrain (SGT) and belongs to part of SOI toposheet no. 58J/5.
- b) The proposal is based on the results of the National Geochemical Mapping conducted by GSI in 2001-2002, which identified eight distinct elemental groups, including Si-Al-K-Ba-Rb-Pb-high REE, showing strong similarities in distribution, predominantly over granitic rocks
- c) Geochemical analysis of seven composite samples from the proposed Kalugur block shows REE concentrations exceeding 1000 ppm, ranging from 1047 to 1306 ppm. The data indicates enrichment in LREEs, with significant levels of La (241–314 ppm), Ce (426–541 ppm), and Nd (184–234 ppm). Additionally, high concentrations of Ba (904–1318 ppm), Th (100–155 ppm), Sr (346–483 ppm), and Zr (1570–2480 ppm) were recorded.
- d) The item was approved in-principle in the 68th TCC-1 and the committee suggested to submit detailed project report after omitting the area of CL Block earmarked by CGM, Tamil Nadu.
- e) The committee raised the concern about commodity to be explored in the area as the area shows encouraging values for Limestone and REE & RM.
- f) The CGM, Tamil Nadu also informed that 3 existing multicolor granite quarries falls within the proposed limestone block and suggested that the agency may be requested to exclude the extent already explored by GSI for Limestone.

Recommendations of TCC-1:

The committee did not recommend the project and suggested that let the NPEA consult CGM, Tamil Nadu and sort out the block boundary and commodity issues so as to enable the TCC-1 to take a decision.

Agenda.73.1.5. Reconnaissance Survey (G4) for basemetal and associated mineralization in Dumartola-Bhagwantola area, District Rajnandgaon, Chhattisgarh. [Implementing Agency: Maheshwari Mining Pvt. Ltd]

- a) The proposed block area is a part of Kotri Rift Belt and falls in part of SOI toposheet no. 64 D/9, 64D/10, 64 D/13, 64D/14.
- b) In F.S. 1996–97, GSI identified three low-gold prospect zones: Bhagwantola, Ambagarh-Chauki, and Goplinchua. Au values in soil and bedrock samples ranged from <0.10 to 0.20 ppm, except for 0.70 ppm in a smoky quartz vein at Bhagwantola. Goplinchua samples yielded Au values of <0.10 to 0.10 ppm, with gold grains observed after panning.
- c) Mira Exploration Pvt. Ltd. conducted a reconnaissance survey over 418.25 sq. km, identifying potential for Au, Ag, Cu, Pb, Ni, and PGEs (Pt: 2.1 ppb, Pd: 1 ppb, Au: 1 ppb). Notable values include Cu: 1616 ppm, Pb: 585 ppm, Zn: 237 ppm, Ag: 2.3 g/t, Pb: 2.4%, Ag: 23 g/t, Cu: 3700 ppm, Au: 58 ppb, and Bi: 35 ppb.
- d) GSI rock sample results reported Pb (40 ppm to 3.15%), Ag (1 to 24 g/t), and Au (0.1 to 0.5 g/t).
- e) The item was presented in 71st TCC-1 seeking in-principle approval. The committee observed that the proposed area was previously explored by GSI during FS: 1994-97 on 1:50,000 scale. DGM Chhattisgarh also informed that HCL has applied to work in the same area, but the exact coordinates are not currently available and DGM would confirm the precise location after verifying the coordinates. Finally after detailed discussions the committee decided to review the item for in-principle approval after obtaining comments from DGM Chhattisgarh. The item was again proposed in 72nd TCC-1 and DGM, Chhattisgarh reported that the proposed area overlaps with an exploration proposal by the CMDC-HCL joint venture, which has already been submitted to NMET and is pending approval. Consequently, the committee decided to place both the MMPL and CMDC-HCL proposals on hold until clarification is received from NMET. During the meeting, the CGM Chhattisgarh again requested to keep the item on hold until a decision is made between MMPL and CMDC-HCL.

Recommendations of TCC-1:

The committee did not find any development regarding the conflict between MMPL and CMDC-HCL and decided to keep the matter on hold until further clarification is received.

Agenda 73.1.6. Preliminary Exploration (G-3) For Limestone in Kodangal Block, Vikarabad District, Telangana State. [Implementing Agency: Telangana Mineral Development Corporation Limited (TGMDC)]

- a) The area belongs to the Shahabad Formation of the Bhima Basin and is located within SOI toposheet Nos. 56G/8 and 56G/12. The limestone and shale sequence of the Bhima Group in this region exhibits a sickle-shaped outcrop pattern.
- b) During the 72nd TCC-1, Telangana Mineral Development Corporation Limited (TGMDC) proposed two G4 items in the same area. Upon review, the committee observed that the proposed blocks were adjacent, with only a small portion covering limestone areas, and raised concerns regarding their irregular shape. TGMDC explained that the shape was modified due to the presence of forest and revenue land. Accordingly, the committee recommended TGMDC to merge two blocks into a

single block focusing on limestone, prepare a G3 stage proposal with some analytical data, and resubmit it for review.

- c) Therefore, Telangana Mineral Development Corporation Limited (TGMDC) proposed a single block preparing a G3 stage exploration item.
- d) The committee reviewed the item and advised Telangana Mineral Development Corporation Limited (TGMDC) to drill the peripheral boreholes 200m inside the margin and plan borehole at 800x 800 m grid pattern. Besides, one borehole of 40-50 m depth is also suggested to know the stratigraphy of the block.

Recommendations of TCC-1:

The committee recommended the proposal for approval of EC for “Preliminary Exploration (G-3) For Limestone In Kodangal Block, Vikarabad District, Telangana State” with an estimated cost of ₹ 161.52lakh (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 04 months.

Agenda 73.2 Review of Ongoing Projects/Completed Project & Timeline Extension

Agenda 73.2.1. Reconnaissance Survey (G4) for Glauconitic sandstone in Parsada-Nawapara-Gurur Block, District Balod, Chhattisgarh.

[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 1,16,74,787/-.
- b) MECL informed that Geological mapping (on 1:12,500 scale), Bedrock Sampling and subsequently pitting has been carried out in the block. Bedrock sampling has been carried out and collected 121 Nos. of Samples, out of which 18 Nos. of samples are having K₂O% (1.00%-1.50%) ,02 Nos. of samples are having K₂O%(1.50%-2.00%) and 01 No. of sample is having K₂O%(2.00%-2.50%).Range is 1.00 – 2.15 % K₂O.Pitting has been carried out and collected 22 Nos. of Samples, out of which 03 Nos. of samples are having K₂O%(1.00%-1.50%) ,02 Nos. of samples are having K₂O%(1.50%-2.00%) and 01 No. of sample is having K₂O% of 6.44%.Range is 1.06 – 6.44 % K₂O.
- c) MECL requested for approval of committee for drilling of 5 vertical Boreholes of 50m each has been proposed.
- d) The committee advised MECL to rectify the LSM map with proper interpretation and disposition of potential sandstone. Considering the sporadic value of K₂O, the committee approved drilling of only 02 boreholes and instructed to present the analysis of core samples in next TCC-1.

Recommendation of TCC-1

The TCC-1 recommended drilling of 2 BHs and present the analytical data in next TCC-1 meeting.

Agenda 73.2.2. Preliminary Exploration (G3) for Manganese in Nagardhan Block, District Nagpur, Maharashtra.

[Implementing Agency: MECL]

- a) MECL informed that the analytical results of core samples are awaited and hence sought to present the data in the next TCC-1 meeting.

Recommendation of TCC-1

The TCC-1 recommended to review the project after receipt of analytical results.

Agenda 73.2.3. Reconnaissance Survey (G4) for QPC hosted Gold Mineralization and copper in Kalasapura Block, District Chikkamagaluru, Karnataka.

[Implementing Agency: MECL]

- a) MECL informed that the project was approved in the 33rd EC Meeting held on 19th February, 2024. The Sanction Order was issued on 27th February, 2024 with timeline of 12 months (up to 26.02.2025) and approved cost was INR 1,52,40,702/-.
- b) MECL requested for time extension upto 31st March 2025 for GR submission.
- c) The committee decided to recommend time line extension only after receiving the peer reviewer comment.

Recommendation of TCC-1

The TCC-1 did not recommend time extension.

Agenda 73.2.4. Preliminary Exploration (G3) for Gold in Kudrekonda Block by Geophysical Survey, District Devangere, Karnataka.

[Implementing Agency: MECL]

- a) MECL informed that the project was approved in the 33rd EC Meeting held on 19th February, 2024. The Sanction Order was issued on 27th February, 2024 with timeline of 12 months (up to 26.02.2025) and approved cost was INR 2,44,68,583/-.
- b) MECL informed that the project was reviewed in 69th TCC-1 meeting held on 26, 27th & 29th Sep, 2024 where MECL was asked to process the geophysical data of the area and pursue the local authorities for completion of the work. However, MECL informed that negotiations with the concerned local authorities are in progress for pending Deep I.P. Survey (30 Lkm).TDEM & MT survey data were presented for in the meeting. MECL requested for 6 month time extension for completion of project.
- c) The TCC-1 suggested MECL to submit all correspondences (action) taken chronologically to NMET and complete the target within three months. Timeline exists up to 28th February, 2025.
- d) The committee decided to approve 3 month extension for the project.

Recommendation of TCC-1

The TCC-1 recommended 3 month time extension upto 26th May 2025 for completion of the project.

Agenda 73.2.5. Reconnaissance Survey (G4) for Iron Ore in Arewada – Hitapadi Block (27 sq km), District: Gadchiroli, Maharashtra.

[Implementing Agency: Gemcokati Exploration Pvt. Ltd.]

- a) Gemcokati Exploration Pvt. Ltd. informed that the project was approved in the 38th EC Meeting held on 29th November, 2024. The OM was issued on 06th January, 2025 with timeline of 06 months (up to 05.07.2025) and approved cost was INR 16,57,688/-.
- b) Gemcokati presented the progress project by enlarging the Geol. Map of the area carried out by GSI.

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- c) The TCC-1 advised to present the integrated map, details of sampling & analytical results in next TCC-1 meeting.

Recommendation of TCC-1

The TCC-1 recommended to present the integrated map, details of sampling & analytical results in next TCC-1 meeting.

Agenda 73.2.6. Preliminary Exploration (G3) for Limestone in Sawalhira (East) Block, District Chandrapur, Maharashtra.

[Implementing Agency: Gemcokati Exploration Pvt. Ltd.]

- a) Gemcokati Exploration Pvt. Ltd. informed that the project was approved in the 35th EC Meeting held on 16th May, 2024. The sanction order was issued on 10th June, 2024 with timeline of 10 months (up to 09.04.2025) and approved cost was INR 86,70,545/-.
- b) Gemcokati presented the progress of the project and informed that 3 out of 5 BHs were pending due to non- receipt of forest permission. Gemcokati informed that the agency is regularly pursuing with concerned offices for forest permission. The analytical results are yet to be received. Timeline for completion of the project exists upto 9th April, 2025.

Recommendation of TCC-1

The TCC-1 noted the progress of the project and advised Gemcokati to expedite the work.

Agenda 73.2.7. Preliminary exploration (G3) for Limestone in Rupapeth Block, District Chandrapur, Maharashtra.

[Implementing Agency: Gemcokati Exploration Pvt. Ltd.]

- a) Gemcokati Exploration Pvt. Ltd. informed that the project was approved in the 35th EC Meeting held on 16th May, 2024. The sanction order was issued on 10th June, 2024 with timeline of 10 months (up to 09.04.2025) and approved cost was INR 95,99,632/-.
- c) Gemcokati presented the progress of the project and informed that drilling in all 5 BHs have been completed and analytical results are awaited. Timeline for completion of the project exists upto 9th April, 2025.

Recommendation of TCC-1

The TCC-1 noted the progress of the project and advised Gemcokati to present the integrated geological map in next review.

Agenda 73.2.8. Preliminary exploration (G3) for Coal in West of Borda and Ghonsa-Parsoda block, Wardha Valley Coalfield, District: Chandrapur, Maharashtra.

[Implementing Agency: CMPDI]

- a) CMPDI informed that the project was approved in the 24th EC Meeting held on 18th May, 2022. The sanction order was issued on 01st June, 2022 with timeline of 18 months and approved cost was INR 12,01,56,952/-.
- b) CMPDI informed that the project was reviewed in 69th TCC-1 of NMET. Drilling has been completed in 11 BHs. In one of the BHs (CMWWB11), drilling was suspended

due to this motur formation. Out of the approved 9650m drilling, 9300.20 m has been completed.

- c) CMPDI sought approval of closure of borehole no. CMWWB11 at 630m depth and preparation of GR.
- d) The committee noted progress and agreed GR preparation. CMPDI was asked to submit the revised cost sheet during the final review submission of GR by 31.03.2025

Recommendation of TCC-1

The TCC-1 recommended closure of borehole no. CMWWB-11 at 630m depth and submission of GR by 31st March 2025. CMPDI was directed to submit the with revised cost sheet to NMET for approval.

Agenda 73.2.9. Preliminary exploration (G3) for Vanadium, Titanium and associated minerals in beach and dune sands of Talashil block, District Sindhudurg, Maharashtra.

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

- a) Geo Marine Solutions Pvt. Ltd. informed that the project was approved in the 34th EC Meeting held on 13th March, 2024. The sanction order was issued on 25th April, 2024 with timeline of 10 months (up to 11.01.2025) and approved cost was INR 1,36,12,863/-.
- b) Geomarine requested time extension upto 28th February 2025 for final review and GR submission.
- c) The committee decided to review the project after receipt of peer reviewer's comments and agreed for time extension upto 28th February 2025.

Recommendation of TCC-1

The TCC-1 approved time extension upto 28th February 2025.

Agenda 73.2.10. Preliminary Exploration (G3) for Graphite in Arasanur East block, District Sivaganga, 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/-.
- b) KIOCL informed that 1.93 sq. km area was mapped on 1:2000 scale. Graphite mineralised zone occur as continuous body trending ENE-WSW steeps south easterly dip of 70. Out of 10 BRS collected from central Graphite Gneiss band 6 samples indicates FC > IBM TV value of 10%. Central band indicates average FC % of 9.476.
- c) Further, 13 nos (150 cum) of trenches excavated at an interval of 100m with collection of 129 nos of trench samples. Trench samples revealed FC% values ranging from 4.0% to 23.04.
- d) Geophysical work (IP & resistivity) carried out with 100m grid spacing & Station interval 20m with no anomalies.
- e) In view of above, KIOCL proposed five boreholes with cumulative 590m are planned. KIOCL also sought approval for additional trenching works of 100 cum with an estimated cost of Rs. 4.48 lakhs inclusive of GST.

- f) The TCC-1 reviewed the progress and advised KIOCL to carry out trenching in the unexposed area at regular interval. Drilling should be implemented in Central (proved by surface sampling) and Southern (proved by Geophysical survey) bands at 200 m spacing with BH angle 45 to 50 degrees. Second level boreholes will be planned only on the basis of outcome of 1st level.

Recommendation of TCC-1

The TCC-1 recommended KIOCL to carry out trenching in the unexposed area at regular interval. Drilling should be implemented in Central (proved by surface sampling) and Southern (proved by Geophysical survey) bands at 200 m spacing with BH angle 45 to 50 degrees. Second level boreholes will be planned only on the basis of outcome of 1st level.

Agenda 73.2.11. Reconnaissance Survey (G4) for polymetallic mineralization (Au, Cu, Ni,Co) in Dharwar Shimoga Schist Belt of Nagavanda area Dhavangere, Haveri and Shimoga Districts, Karnataka.

[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 27th March, 2023 with timeline of 12 months and approved cost was INR 1,47,62,526/-.
- b) The project was reviewed in the 63rd and 66th TCC-1 meeting of NMET .In the 36th EC meeting of NMET held 29th July 2024, timeline extension was approved upto 31st December 2024.
- c) KIOCL informed that drilling and trenching was delayed due to non-receipt of forest permission. On 22.02.2024, KIOCL received permissions for initiating drilling work. KIOCL requested for timeline Extension of project for 07 months completion of exploration activities.
- d) In view of the above, the committee agreed for 5 months' time extension upto 31st May 2025.

Recommendation of TCC-1

The TCC-1 recommended 5 months' time extension upto 31st May 2025 and advised KIOCL to expedite the execution of the project.

Agenda 73.2.12. Reconnaissance Survey (G4) for Gold in Yediyur area, Yediyur - Karighatta schist belt, District Mandya, Karnataka.

[Implementing Agency: KIOCL]

- a) KIOCL informed that the project was approved in the 33rd EC Meeting held on 19th February, 2024. The sanction order was issued on 26th February, 2024 with timeline of 10 months (up to 27.12.2024) and approved cost was INR 1,29,16,573/-.
- b) The committee was apprised that the LSM work in the block was reviewed in the 70th meeting of TCC-1- NMET held on 24th and 25th Oct 2024.KIOCL is awaiting forest clearance for scout drilling. KIOCL requested for extension of project time line for 06 months from the date of receipt of forest permissions.
- c) The committee decided to wait till receipt of forest permissions for recommending time extension

Recommendation of TCC-1

The TCC-1 deferred the decision until after receipt of FC.

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Agenda 73.2.13. Preliminary exploration (G3) for graphite around Naringapanga block (S & W) (0.143 sq. km) block, District Rayagada, Odisha.

[Implementing Agency: DMG Odisha]

- a) DMG Odisha informed that the project was approved in the 27th EC Meeting held on 10th January, 2023. The sanction order was issued on 05th April, 2023 with timeline of 09 months and approved cost was INR 1,20,92,849/-.
- b) DMG Odisha informed that the exploration activities have been completed and the report is ready for peer review. In view of above, DMG Odisha requested for time extension upto 31st March 2025 for submission of GR.

Recommendation of TCC-1

The TCC-1 recommended time line extension upto 31st March 2025 for submission of final GR.

Agenda 73.2.14. Preliminary exploration (G3) for Graphite in Lamer-Panga block A (13.99 sq. km), District Kalahandi, Odisha.

[Implementing Agency: OMC]

- a) OMC informed that the project was approved in the 27th EC Meeting held on 10th January, 2023. The sanction order was issued on 03rd February, 2023 with timeline of 16 months and approved cost was INR 2,32,65,315/-.
- b) In the 35th EC of NMET held on 16th May 2024, project timeline was extended upto 2nd December 2024.
- c) OMC informed that Geological mapping (1:4000 scale) has been completed over the total
- d) area of 13.99 Sq Km. Based on geological mapping, surface sampling, SP survey and drilling data, the two potential mineralization zones for graphite are delineated at north-western and south-eastern part of the Lamer village. OMC informed that as forest clearance is not obtaining, the trenching work was carried out.
- e) Further, Total 17 nos. of systematic boreholes (200 m intervals of foliation direction) have been drilled and two graphite mineralization zones are delineated. The total drilling was 883 meterage out of approved 1000m. 13 nos. of boreholes are positive and FC varies from 2 % to 17.07 %. OMC apprised that 677 nos of primary samples were analyzed although approved samples were 250 nos.
- f) OMC informed that the resource has been estimated in both Cross Sectional (CS) Area method and Longitudinal Vertical (LV) Section method A total of 3098039 tonnes or 3.098 million tonnes Inferred mineral resource (333) of graphite along with different ranges of FC i.e. 1.11 million tonnes (02-05% FC), 1.532 million tonnes (05-10% FC) and 0.455 million tonnes (above 10% FC) have been estimated in Cross Sectional Area method.
- g) OMC sought approval of the committee for the revised quantum of work and time extension upto 31st March 2025 for GR submission.
- h) In view of above, the committee advised to submit the revised cost sheet with revision of quantum for approval.

Recommendation of TCC-1

The TCC-1 recommended time extension upto 31st March 2025 to EC and advised OMC to submit revised cost sheet as the Chemical Analysis of core samples

has been carried out beyond the approved NQT. Revised cost sheet should be submitted with original cost against each item/quantum and deviated cost with justification for deviation in next TCC.

Agenda 73.2.15. Preliminary Exploration (G3) for Gold in Dimirimunda Block (5 Sq. Km), District Keonjhar, Odisha.

[Implementing Agency: OMC]

- a) OMC informed that the project was approved in the 31st EC Meeting held on 12th September, 2023. The sanction order was issued on 05th October 2024 with timeline of 12 months.
- b) OMC informed that geological mapping was completed in the area and 5 BHs were drilled. However, DGPS survey, topographical survey, trenching could not be carried out in the block. In the 70th TCC-1 of NMET, the committee opined that the project may be reviewed again after completion of geophysical survey. In case, gold values are still not found encouraging, the project may be prematurely concluded after submission of justification from OMC. Meanwhile, the committee had agreed for time extension upto 31st December 2024.
- c) OMC informed drone based magnetic survey was carried out in the western margin of the Dimirimunda block at 50 m line spacing. Field verification indicated lateritized ultramafic rocks in contact with the shear zone. All 3 samples collected in the zone show consistency in Ni-Co-Cr-Cu-Pb-Zn along with Vanadium values.
- d) OMC informed that the analytical results did not indicate encouraging gold values. OMC sought approval of the committee for closure of the project with time extension up to 31st March 2025 for submission of GR.
- e) In view of above, the committee agreed for closure of the project and advised to submit the revised cost sheet with revision of quantum for approval.

Recommendation of TCC-1

The TCC-1 recommended time extension upto 31st March 2025 to EC and advised to submit revised cost sheet for the project in next TCC-1.

Agenda 73.2.16. Reconnaissance Survey (G4) for Graphite in Dindo-Belkurta-Basera Block, District Surguja, Chhattisgarh.

[Implementing Agency: Maheshwari Mining Pvt. Ltd.]

- a) Maheshwari Mining Pvt. Ltd. (MMPL) informed that the project was approved in the 31st EC Meeting held on 12th September, 2023. The sanction order was issued on 05th October, 2023 with timeline of 12 months and approved cost was INR 1,04,63,931/-.
- b) MMPL presented the outcome of the project with comments of the peer reviewer.
- c) The committee noted the outcome of the project and recommended time extension upto 15th February 2025 for GR submission after incorporation of peer reviewer's comments.

Recommendation of TCC-1

The TCC-1 recommended GR submission with time extension up to 15th February 2025 for approval of EC.

Additional Discussion

Agenda 73.2.17 Preliminary Exploration (G–3 Stage) for Coal in North of Rajathari, Pench Kanhan Tawa Valley Coalfield District: Chhindwara, Madhya Pradesh
[Implementing Agency: CMPDI]

- a) CMPDI informed that the project was approved in the 24th EC Meeting held on 18th May, 2022. The sanction order was issued on 02nd June, 2022 with timeline of 20 months and approved cost was INR 13,88,23,254/-.
- b) In continuation with the discussions in the 66th TCC of NMET held on 24th, 25th & 26th June, 2024, CMPDI requested for Approval for Coking propensity test of 6 samples is also required as petrography results suggest that the coal seams may have coking property.

SL no	Test	No of Samples	Rate	Amount(Rs.)
1.	Roga Index	06	5365.00	32190.00
2.	Swelling Index	06	2745.00	16470.00
3.	LTGK	06	4550.00	27300.00
			Total	75960.00

- c) CMPDI informed that the total cost of the proposed analyses is Rs. 89633.00 Including GST. The total expenditure of the project including these tests will be within the sanction cost of the project
- d) Considering that the request was discussed in the 66th TCC, the committee approved the Coking propensity test for 6 samples amounting to is Rs. 89633.00 Including GST.

Recommendation of TCC-1

The TCC-1 recommended additional cost of ₹ 89633.00 including GST towards Coking propensity test for 6 samples.

Agenda 73.2.18 Preliminary exploration (G3 stage) for Limestone in Katamadevarahalli Limestone Block, Gulbarga, Karnataka.
[Implementing Agency: KIOCL]

- a) The project was reviewed in the 68th TCC of NMET held on 28th, 29th & 30th August 2024. The committee had approved submission of GR with time extension upto 15th September 2024.
- b) However, as the timeline for the project was extended for 6 months upto 25.08.2024 in the 33rd EC of NMET held on 19.02.2024, the recommendation of the committee is referred to EC for approval.

Recommendation of TCC-1

The TCC-1 recommended timeline extension upto 15th September 2024 to EC of NMET.

Agenda 73.3 Review of procurement proposals

Agenda 73.3.1. Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities. (Cost Ratification and approval Hyperspectral Core Scanner with XRF and Core Scanner with LIBS technology).

[Implementing Agency: MECL]

- a) MECL informed that the project was approved in the 33rd EC Meeting held on 23rd February, 2024. The sanction order was issued on 1st March, 2024 with timeline of 12 months and approved cost was INR 3244.87 Lakh.
- b) The committee was apprised that on the revised cost for 02 nos. of Gamma ray Spectrometer amounting 67.26 Lakhs (including GST@18%) and WD- XRF costing 291.99 Lakhs (including CAMC and GST @18%) was approved in the 39th EC held on 24th January 2025.
- c) MECL informed that, the global tender for the Hyperspectral Core Scanner with XRF has been completed, while the tender for the Core Scanner with LIBS is in progress as on date. MECL informed that the cost ratification proposal for procurement was discussed in the 69th and 70th TCC-1 meetings, where the TCC-1 recommended awaiting the final outcome of the tender.
- d) MECL requested for approval of the committee for the L1 cost for Hyperspectral Core Scanner with XRF of 1728.77 Lakhs inclusive of GST and a three-year CAMC. The estimated tender cost for one Core Scanner with LIBS is Rs. 3142.34 lakhs, inclusive of GST and a three-year extended warranty. Furthermore, approval is requested for an additional amount of Rs. 938.10 lakhs for the Core Scanner with LIBS, based on the estimated tender cost (*subject to variation upon receipt of the L-1 bid price).
- e) Further, MECL requested for the timeline extension of about 18 months i.e. upto 30th September 2026 to complete the process of procurement of the instruments. The committee was apprised that the delivery period, including inspection, installation, training, and commissioning, is 10 months for the Hyperspectral Core Scanner with XRF and 16 months for the Core Scanner with LIBS, starting from the date of the Supply Order issuance.
- f) Upon review of the project, the TCC-1 opined that the revised escalated cost MECL sought for approval is due to changed specifications of the instruments. Further, the committee advised MECL to first seek the approval for the change of specifications by submitting the proposal to TCC-1 for proper discussion.
- g) In view of the above, the committee opined that the revised costs for the two instruments may be recommended after the deliberation on the changed specifications.

Recommendation of TCC-1

The TCC-1 recommended MECL to resubmit the proposal for change of specifications against each approved items for deliberation. Recommendation of TCC-1 for approval of the revised/escalated costs will be made only after thorough discussion.

72.4. Project Evaluation for in-Principle Approval

Agenda.73.4.1. Reconnaissance Survey (G-4 stage) for REE & RM mineralization in Bande-Saver Block (129 Sq km), District: Uttar Bastar Kanker, Chhattisgarh. [Implementing Agency: Gemcokati Exploration Pvt.Ltd.]

- a) The area belongs to Bastar Craton and falls in SOI toposheet no.65A/9.
- b) Analytical results from bedrock samples at Havalbaras and Bande indicate Sn values of 10–30 ppm and Nb values of 50–100 ppm. Panned samples from streams around Havalbaras, Karakoda, Saver, and Bande show Sn values of 10–75 ppm and Nb values of 75–200 ppm.
- c) In the adjacent eastern region with a similar geological setup, Sn values in bedrock and colluvium placers range from 10–100 ppm, Nb from 50–1000 ppm, and Ta from 500–700 ppm.
- d) GemcoKati informed the committee that no exploration had been conducted in the area since 1987 until recent sampling under TCC-1 NMET directives, where five bedrock samples yielded total REE (La-Lu) values of 106–1148.12 ppm (Avg. 578 ppm), TLREE (La-Eu) of 94–1072 ppm (Avg. 524 ppm), and THREE (Gd-Lu) of 12–76 ppm (Avg. 53 ppm).
- e) 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.
- f) 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.
- g) 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.
- h) 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.

Recommendations of TCC-1:

The committee suggested that Gemcokati revisits the area to collect colluvium samples and also gather BRS if exposures are available and present DPR in next TCC-1 incorporating all the suggestions given by the committee.

Agenda.73.4.2. Reconnaissance Survey (G-4 stage) for REE & RM mineralization in Jarawandi-Sahgaon Block (133 sq km), District: Gadchiroli, Maharashtra. [Implementing Agency: Gemcokati Exploration Pvt.Ltd.]

- a) The area belongs to Bastar Craton and falls in SOI toposheet nos.65A/05 & 09.
- b) Panned samples collected from streams around Jarawandi and Sohgaon Dodgri indicate Sn values of 10–75 ppm and Nb values of 75–200 ppm, while Ta and W

values remain below 500 ppm and 100 ppm, respectively. Additionally, bedrock and panned concentrate samples from the granite massif were analyzed, with results from Bhapda and Handipaille showing Sn values of 10–30 ppm and Nb values of 50–100 ppm.

- c) In the adjacent eastern region with a similar geological setup, Sn values in bedrock and colluvium placers range from 10–100 ppm, Nb from 50–1000 ppm, and Ta from 500–700 ppm.
- d) GemcoKati informed the committee that no exploration had been conducted in the area since 1987 until recent sampling under TCC-1 NMET directives, where 4 bedrock samples yielded total REE (La-Lu) ranges from 518.38 – 1261.81 ppm (Avg- 968.63) with TLREE (La-Eu) ranges from 475.73 - 1135.60 ppm (Avg. 882.5 ppm) and THREE (Gd-Lu) ranges 42.65-126.17 ppm (Avg 86.52).
- e) The committee observed that the item is similar to the previously proposed Bande-Saver item by Gemcokati, as both are adjacent to each other and pertain to the same commodity. Therefore, the committee decided to review the item only after obtaining the outcome of the Bande-Saver proposal.

Recommendations of TCC-1:

The committee recommended to review the item after obtaining the outcome of the Bande-Saver item.

Agenda.73.5.3. Preliminary exploration (G3) for Cr, Ni & PGE in Holenarasipur Block, District Hassan, Karnataka.

[Implementing Agency: Critical Mineral Tracker]

- a) The area lies within the Holenarasipur schist belt (SOI toposheet no. 57 D/5&6), hosting high-grade ultramafic lithounits of the Sargur Group. NGCM data indicates significant chromium (max 8043 ppm) and nickel (max 689 ppm) values. Additionally, peridotites, serpentinites, and komatiites in the region have recorded chromium values up to 2475 ppm and nickel up to 1200 ppm.
- b) These ultramafic being very conducive for the presence of PGE minerals and as it has not been investigated for them earlier. They have also been included for investigation.
- c) GSI (FS-2013-14) has reported Cr Values 47 ppm to 3482 ppm, Ni values from 54 ppm to 1266 ppm in trenches in and around Bettedasetanpalli, Thirumalapura and Yadegowdanapalli areas of Holenarasipur schist. The analytical data from the samples collected from old workings show occurrences of Cr (47 ppm to 3649 ppm), Ni (54 ppm to 1266 ppm), PGE (3 to 139 ppb), Pt-Pd (5 to 30 ppb), Ru (3 to 93 ppb), Ir (23 ppb).
- d) However, this may be noted that out of 100 samples, only one sample has shown 139 ppb of PGE from chromite samples of Thirumalapura area. Few samples from actinolite -tremolite schist showed PGE content upto 38 ppb.
- e) To formulate a G3 stage item, it is essential to have an understanding of the dimensions of the mineralized zone, which CMT has not been able to establish. Additionally, the analytical data of Cr₂O₃ presented by CMT appears to be less.
- f) The committee finds that the proposed area is overlapping with GSI's G4 stage work carried out during FS: 2013-14. As per DMG, Karnataka, some quarries also

exist in the area. The G4 stage work did not indicate potentiality for Cr, Ni & PGE except some stray values.

Recommendations of TCC-1:

Since, the existing G4 stage work did not indicate potentiality for Cr, Ni & PGE except some stray values in the area; the item is not approved with the existing data presented by CMT.

Agenda.73.4.4. Preliminary exploration (G3) of Limestone in Birpur block, District Jagtial, Telangana.

[Implementing Agency: Critical Mineral Tracker]

- a) Location of the proposed block demarcated on Survey of India (SOI) Toposheet Nos.-56 N/1
- b) GSI has carried out G4 stage work in and the proposed area during Field Season 2022-23 and reported that about 72% of BRS of limestone shows values above threshold i.e., CaO 34.89 to 54.15% and MgO 0.05 to 1.27%.
- c) M/s GeoExplore Ore Pvt Ltd proposed the area to be explored in 68th TCC-1 and the committee found that the area lies within the G4 stage exploration block carried out by GSI during the FS year 2022-23. The area could not be upgraded to G3 stage because of the forest cover. However; an area of 4 sq. km was carved out and submitted as Geological Memorandum (GM) (Ganeshpalli block) during the 63rd CGPB meeting.
- d) The area proposed by CMT overlaps with the area proposed by M/s GeoExplore Ore Pvt Ltd. DMG, Telangana informed the committee that they are awaiting the field report, after which they will be able to provide their comments.
- e) After deliberation, the committee concluded that revisiting the area at this stage is not needed and recommended proceeding with the auction of the GM block.

Recommendations of TCC-1:

The committee did not approve the item.

Agenda.73.4.5. Preliminary exploration (G3) for Limestone in Thirumangalam Block, Poosaripatti, Thirumangalam, District: Madurai, Tamil Nadu.

[Implementing Agency: Geo Technical Mining Solutions]

- a) The area falls in SOI toposheet no.58G/13.
- b) Shri N.K.N. Iyengar classified the limestones in this area as kankar-type, characterized by irregular thickness (0.2–1.0 m) and ferruginous and aluminous clayey impurities.
- c) Impure, massive (tuffaceous) limestones and kankar of recent and sub-recent age are commonly found around Kottaiyur, Poosaripatti, and Karumattur, though no outcrops were observed in the proposed blocks.
- d) As impure crystalline limestone and calc-silicate bands occur near Chettikulam and Karadikkal, a search for pure crystalline limestone was undertaken.
- e) The proposed area covers approximately 5 sq. km, lying beneath 1.0 m of soil and extending to depths of 1–1.75 m. Groove-cut samples from nine open wells in the proposed block area confirmed the presence of limestone beneath the soil cover.

- f) The committee observes that the block proposed by Geo Technical Mining Solutions contains multiple lakes. Additionally, the block covers an area of 12 sq km, which is considered too large for G3 stage exploration. According to the agency, the target rock is calc-granulite with limestone which occupies only a small portion of the proposed area. However, considering the high grade metamorphism in the area, the committee advised GMTS to identify the rock types accurately (particularly limestone) and provide proper nomenclature.
- g) Based on these, the committee finds no justification for targeting the entire 12 sq. km area. However, if favorable chemical data becomes available, GTMS may resubmit the proposal for in-principle approval.

Recommendations of TCC-1:

The item is not approved at this stage. GTMS may resubmit the proposal for in-principle approval if favorable chemical data becomes available.

Agenda.73.5.6. Reconnaissance Survey for REE (G4), Mulanur area, District Tiruppur, Tamil Nadu. [Implementing Agency: Maheshwari Mining Pvt. Ltd.]

- a) The proposed block lies east of the Rudrawathi Block (Toposheet 58F/09), explored by MECL at the G4 stage for REEs under NMET fund.
- b) MECL collected 25 bedrock samples from mapped pegmatites, showing REE concentrations of 81.20–2851.30 ppm (avg. 908 ppm), LREE of 22.00–2769.18 ppm (avg. 830 ppm), and HREE of 9.2–426.2 ppm (avg. 78.1 ppm).
- c) Additionally, 200 pit samples from weathered regolith horizons show REE of 95.20–4182.47 ppm (avg. 526.28 ppm), LREE of 84.04–4086.91 ppm (avg. 489.17 ppm), and HREE of 4.7–61.96 ppm (avg. 17.77 ppm).
- d) The committee observed that MMPL neither provided any data specific to the proposed area, nor they consulted NGCM and NGPM data for the area proposed. Therefore, the committee recommended compiling all relevant data pertaining to the proposed area for further review and reconsideration for in-principle approval.
- e) The committee observed that the proposed area is located adjacent to the Rudravati block, which is currently being explored by MECL. It was noted that in the case of the Rudravati block, the encouraging values are confined to pegmatite, which should be taken into consideration.

Recommendations of TCC-1:

The committee advised MMPL to conduct a field visit, identify the exposed lithounits, and collect bedrock samples (BRS) from pegmatite and the surrounding colluvium and then present the DPR in next TCC-1.

Agenda.73.4.7. Preliminary exploration (G3) of Iron Ore in Parvi block, District Kanker, Chhattisgarh. [Implementing Agency: Kartikay Exploration and Mining Services Private Limited.]

- a) The area falls in SOI toposheet no.64H/3.
- b) During the reconnoitry traverse M.K. Patel (2006-07) has brought out the presence of magnetite-specularite band and BMQ bands in this area.
- c) The area covers 4 iron bands trending from N-S to NW-SE direction.

- d) Kartikay informed that 4 out of 9 samples collected from the area show 43.27% to 59.70% Fe%.

Recommendations of TCC-1:

The committee granted in-principle approval for the item. However, Kartikay must include the LSM map in the Detailed Project Report (DPR).

Agenda.73.4.8. Preliminary exploration (G3) of Iron Ore in Bhanu Block, District Kanker, Bhanupratap, Chhattisgarh. [Implementing Agency: Kartikay Exploration and Mining Services Private Limited.]

The item has already obtained in-principle approval in 72nd TCC-1. Hence the committee again advised Kartikay Exploration and Mining Services Private Limited to prepare and submit the DPR.

Agenda.73.4.9. Preliminary exploration (G3) For Iron ore in Sitapur Block, District Kanker, Chhattisgarh. [Implementing Agency: Kartikay Exploration and Mining Services Private Limited.]

- The area falls in part of SOI toposheet no. 64D/12.
- GSI has conducted reconnaissance survey in the area during 2006-07 and has reported the presence of magnetite-specularite band and BMQ bands in this area. Based on this, Kartikay has proposed the item.
- The committee finds that comments from DMG, Chhattisgarh has not yet been received.

Recommendations of TCC-1:

The committee decided to review the item after obtaining comments from DMG, Chhattisgarh.

Agenda.73.4.10. Preliminary exploration (G3) of Aluminum Laterites and Associated Critical Mineral, Shivat-Ishavali block, District Ratnagiri, Maharashtra. [Implementing Agency: Kartikay Exploration and Mining Services Private Limited.]

- The area belongs to Sahyadri Group in the Western Ghats as well as the rocks of the Dharwar Supergroup and falls in SOI toposheet no. 47H/05.
- The proposed area hosts aluminum laterite, known for bauxite ore and its potential for associated critical minerals such as cobalt, vanadium, gallium, hafnium, chromium, and niobium.
- Adjoining areas, including Ghodepawadi, Nanar, Kumbhawade, Kalambewadi, Katta-Kalvi, Padve, and Paliye, are well known for aluminum laterite/bauxite and associated critical minerals, with some blocks from these areas already auctioned.
- STM work carried out by GSI in the area reported Al_2O_3 content ranging from 17.30% to 25.03%, vanadium (V) between 261 ppm and 813 ppm, and Fe_2O_3 from 12.76% to 28.08% within laterite.
- DMG, Maharashtra informed the committee that some part of the proposed area falls in CRZ and some part falls within ESZ and overall the possibilities to work in the area is very less.

Recommendations of TCC-1:

The committee did not approve the item.

Agenda.73.4.11. Preliminary exploration (G3) for Limestone & Manganese ore in Kobhai-Ponnala Block, District Adilabad, Telangana. [Implementing Agency: Kartikay Exploration and Mining Services Private Limited.]

- a. The proposed area falls in SOI toposheet no. 56 I/13 & 56 I/14.
- b. The geological formations in the area include the Archaeans, Pengangas, Infratrappeans, and Deccan Traps.
- c. The Penganga sedimentary consists of basal quartzitic sandstones/quartzites and limestone beds with shale intercalations. These limestones, ranging from grey to dark and pink, occur as massive and bedded deposits, often intercalated with chert and Jasper, which are associated with manganese ores.
- d. The occurrence of these limestones was reported by T.W.H. Hughes (1877),
- e. P.V. Rao (1951) gave a brief account of limestone quarries near Adilabad and further mapping and description by D.S. Deshmukh (1952).
- f. GSI reports indicate CaO value exceeding 40% in the area.
- g. The committee observed that the proposed block has partial overlapping with the area proposed by MMPL and partial overlapping with the area proposed by Gemcokati.

Recommendations of TCC-1:

The committee did not approve the item.

Agenda.73.4.12. Reconnaissance Survey (G4) for Phosphate and Associated Minerals around Baliyara-Kandel-Kharenga-Donar area, District Dhamtari, Chhattisgarh.

[Implementing Agency: APC Drilling & Construction Private Limited.]

- a. The study area under T.S. No. 64H/05 and falls in southwestern part of Hirri sub-basin.
- b. The mapped area is predominantly covered by limestones of the Charmuria Formation, overlain by the purple shale of the Gunderdehi Formation, which in turn is overlain by the stromatolitic limestone of the Chandi Formation.
- c. A small circular patch of glauconitic sandstone occurs within the stromatolitic limestones. Glauconite, easily recognizable by its green color, may serve as an indirect guide to mineralization. Sedimentary phosphate deposits typically occur in phosphorites (18% P₂O₅) and phosphate rocks (<18% P₂O₅), with associated rock types including marl, black shale, chert, limestone, dolostone, and occasionally lava flows, tuffs, and diatomite-bearing rocks.
- d. During a phosphorite investigation (1972-73), U.S. Vatsa et al. reported phosphate occurrences with P₂O₅ content reaching up to 29% in some clay samples within the cherty limestone of the Charmuria Formation.
- e. The committee noted that the threshold value of P₂O₅ is 10, whereas the values proposed by APC are significantly lower. Additionally, cherty limestone is not suitable for P₂O₅ exploration.

Recommendations of TCC-1:

The committee advised APC to revisit the area, collect samples for analysis, and present the chemical data in the next meeting before resubmitting the proposal for in-principle approval.

Agenda.73.4.13. Reconnaissance Survey (G4) for Phosphate and Associated Minerals around Tamora-Borara-Sarbada area, Districts Dhamtari and Balod, Chhattisgarh.

[Implementing Agency: APC Drilling & Construction Private Limited.]

- a. The study area under T.S. No. 64H/05 & 64H/06 and falls in southwestern part of Hirri sub- basin.
- b. The mapped area is predominantly covered by limestones of the Charmuria Formation, overlain by the purple shale of the Gunderdehi Formation, which in turn is overlain by the stromatolitic limestone of the Chandi Formation.
- c. A small circular patch of glauconitic sandstone occurs within the stromatolitic limestones. Glauconite, easily recognizable by its green color, may serve as an indirect guide to mineralization. Sedimentary phosphate deposits typically occur in phosphorites (18% P₂O₅) and phosphate rocks (<18% P₂O₅), with associated rock types including marl, black shale, chert, limestone, dolostone, and occasionally lava flows, tuffs, and diatomite-bearing rocks.
- d. During a phosphorite investigation (1972-73), U.S. Vatsa et al. reported phosphate occurrences with P₂O₅ content reaching up to 29% in some clay samples within the cherty limestone of the Charmuria Formation.
- e. The committee finds that the proposed area is overlapping with GSI's ongoing item.

Recommendations of TCC-1:

The committee did not approve the item because the area is overlapping with GSI's ongoing item

Parathi
11/21/2025-

Parathi
11/02/2025

Annexure 1

List of participants attended 73rd meeting of Technical-cum-cost Committee (TCC-1) of NMET held on 30th and 31st January, 2025 through video conferencing mode

S.no	Name	Designation	Email ID	Contact No	Organization
1	Dr. S. Ravi,	Dy. Director General, GSITI, GSI Hyderabad	s.ravi1@gsi.gov.in	9441138834	Chairman, TCC-1
2	Shri. I.R. Kirmani	ADG (Retd.), GSI	irkirmani@yahoo.com	9414014723	Member TCC-1
3	Shri. Hemraj Suryavanshi	Addl. Director General (Retd.), GSI	hemraj.nmet@gmail.com	9425603674 7477042176	Member TCC-1
4	Shri. K. Koteswara Rao	Dy.D.G. (Retd.) GSI	kkrao1957@gmail.com	9000117969	Member TCC-1
5	Shri. S.K. Adhikari	Chief Mining Geologist, IBM, Nagpur	skadhikari@ibm.gov.in	7588690545	Member TCC-1
6	Dr.E.V.S.S.K. Babu	Scientist (G), NGRI	evsskbabu@ngri.res.in	9441535852	Member TCC-1
7	Shri.K.L.Mundra	Additional Director, AMD, Hyderabad	klmundra.amd@gov.in	9414785663	Member TCC-1
8	Shri. Ravi Kumar Gupta	General Manager (Finance) HCL, Kolkata	ravi_g@hindustancopper. com	9433274328	Member TCC-1
9	Smt. Vandana	Cost Accounts Officer, RSAS, Bangalore, GSI	vandana@gsi.in	8660939235	Member TCC-1
10	Shri. C. Parthasarathi	Director, GSI & Member Secretary, TCC-1- NMET, GSI, Bengaluru	c.parthasarathi@gsi.gov.i n	9483186932	Member Secretary, TCC-1
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13	Shri Shrikant Sharma	Head (Exploration)	shrikant.mecl@gmail.com	9131229758	MECL, Nagpur
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18	Dr. K Mahender Reddy	Technical Area Expert / Principal Investigator	Criticalmineraltrackers@g mail.com	9032012955	Critical Mineral Trackers
19	Mr. S.Rama Murthy	Technical Area Expert	Criticalmineraltrackers@g mail.com	9490685131	Critical Mineral Trackers
20	Mr. K. Nageswara Rao	Technical Area Expert	Criticalmineraltrackers@g mail.com	7893847742	Critical Mineral Trackers
21	Mr.S.Uma Maheswara Rao	Technical Area Expert	Criticalmineraltrackers@g mail.com	7993935619	Critical Mineral Trackers
22	Mr. Vikram KY	Director- Operations,HR,Admin,Fin anace	Criticalmineraltrackers@g mail.com	9849574333	Critical Mineral Trackers

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25	Shri. Promit Roy	Geologist	promit.roy@maheshwaree.in	6289104640	Maheshwari Mining Pvt Ltd
26	Shri. Subrata Sarkar	V.P. (Project & Planning)	subrata.sarkar@gemcokati.com	7044208900	Gemco kati Exploration Pvt Ltd, Chandrapur
27	Dr. Vinay Sahay	Sr. Manager(Geology)	vinay.sahay@geologist.com	9730514284	Gemco kati Exploration Pvt Ltd, Chandrapur
28	Mr. Chinmay Rout	Geologist	chinmay2007rta@gmail.com	8260086563	Gemco kati Exploration Pvt Ltd, Chandrapur
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36	Mr. Vijay Kumar	Jr. Geologist	kumarvijay0688@gmail.com	9599960131	Gemco kati Exploration Pvt Ltd, Chandrapur
37	Shri. A. C. Dinesh	Chief Technology Officer	oed@geomarinesolutions.in	9038534560	Geo Marine Solutions Pvt. Ltd.
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47	Mr.G. Umamaheswaran	Sr.Geologist	info.gtmsdpi@gmail.com	9790462882	M/s.Geo Technical Mining Solutions, Dharmapuri
48	Mr. BL Mallikarjun	Chief General Manager	cgmexploraiton@apcdrilling.co	9422801575	APC Drilling & Construction Pvt Ltd, Namakkal, TN
49	Mr. CS Ramesh	General Manager	gmexploraiton@apcdrilling.co	9980544027	APC Drilling & Construction Pvt Ltd, Namakkal, TN
50	Mr. Atul Rathore	DGM	dgmexploraiton@apcdrilling.co	7011884417	APC Drilling & Construction Pvt Ltd, Namakkal, TN
51	Dr. Shirish.M.Naik	Sr. Geologist	director@mahadgm@gmail.com	9420645793	DGM Maharashtra
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53	Smt. Palak Kapoor	Senior Geologist	nmet-mines @gov.in	8851742488	NMET Sectt.
54	Dr. Rajesh Sharma	Senior Geologist	nmet-mines @gov.in	8377851047	NMET Sectt.
55	Shri. Akshay Verma	Geologist	nmet-mines @gov.in	9167919949	NMET Sectt.
56	Representatives				Geo Exploration and Mining Solutions
57	Representatives				DMG Odisha
58	Representatives				Kartikay Exploration and Mining Services Pvt. Ltd.

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Estimate Cost for Preliminary Exploration (G3) for Limestone in Dhunki-Chilai Block (4.63 Sq.Km Area) District- Yavatmal, Maharashtra

**Total Area – 4.63 Sq Km; Nos. of Borehole -07; Borehole depth range - 50m (BGL); Completion Time - 8 Months , Review - 4 months
Exploration Agency - MECL**

S.N	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item - SI No.	Rates as per SoC	Qty.	Total Amount (Rs)	
A	GEOLOGICAL WORK						
1	Mapping (1:4000), Topographical survey , Borehole logging & Sampling & Report writing						
a	Charges for one Geologist per day at HQ	day	1.3a	9,000	30	2,70,000	
b	Charges for one Geologist per day at field	day	1.3b	11,000	100	11,00,000	
c	Labour for Geologist (2 Nos)	day	5.7	526	200	1,05,200	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
d	Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	44	2,24,400	
e	Labours for sampling work (4 Nos)	day	5.7	526	176	92,576	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
2	Survey (on 1:4000 Scale)						
a	Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes and block cardinal points by DGPS	Per Point of observation	1.6.2	19,200	11	2,11,200	Block cardinal point- 4 Borehole- 7

b	Charges of one Surveyor (1 Party)	one surveyor per day	1.6.1a	8,300	30	2,49,000	Contouring at 2m interval
c	Labours (4 Nos)	day	5.7	526	120	63,120	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub-Total A					23,15,496	
B	DRILLING						
1	Drilling -Soft rock	m	2.2.1.1b	7,168	350	25,08,800	MoC Rate
2	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	7	1,40,000	Amount will be reimbursed as per actuals or max. Rs. 20000 per BH with certification from local authorities
3	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	7	14,000	
4	Transportation of Drill Rig & Truck associated per drill	Km	2.2.8	36	400	14,400	To & fro
5	Monthly Accommodation Charges for drilling Camp (up to 1 Rigs)	month	2.2.9	50,000	2	1,00,000	
6	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	1	2,50,000	
7	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	1	2,50,000	
8	Road Making (Flat Terrain)	Km	2.2.10a	22,020	5	1,10,100	Road Making will be considered as per the requirement and Road Making Charges will be reimbursed accordingly.
9	Drill Core Preservation	per m	5.3	1,590	320	5,08,800	
	Sub Total B					38,96,100	
C	LABORATORY STUDIES						
1	Chemical Analysis						
i)	Primary samples						

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	a. For 10 radicals i.e. CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , SO ₃ , P ₂ O ₅ , K ₂ O, Na ₂ O and LOI by XRF	Nos	4.1.15a	4,200	320	13,44,000	300 Core Samples, 20 BRS
ii)	External Check samples (10%)						
	a. For 10 radicals i.e. CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , SO ₃ , P ₂ O ₅ , K ₂ O, Na ₂ O and LOI by XRF	Nos	4.1.15a	4,200	32	1,34,400	
iii)	Petrological samples (Bh Core Samples)						
i	Preparation of thin section	Nos	4.3.1	2,353	5	11,765	
ii	Study of Thin Section	Nos	4.3.4	4,232	5	21,160	
iv)	Bulk Density Determination						
	Bulk Density	No.	4.1	3,540	2	7,080	
	Total - C					15,18,405	
D	Sub Total (A to C)					77,30,001	
E	Geological Report Preparation		5.2	For the projects exceeding Rs. 50 Lakhs but less than 150 Lakhs: A Minimum of Rs. 2.5 lakhs or 5% of the work whichever is more		3,86,500	EA has to submit the final Geological Report in Hard Copies (5 Nos) and soft copy to NMET
F	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1/28th EC	2% of the Cost or Rs. 5.0 Lakhs whichever is lower		1,54,600	EA has to submit the Hard copies and soft copies of final proposal along with maps and plan as suggested by the TCC-1-NMET in its meeting while clearing the proposal.
G	Peer review Charges		As per EC decision			30,000	
H	Total Estimated Cost without GST					83,01,101	
I	Provision for GST (18% of H)	%				14,94,198	GST will be reimbursed as per actual and as per notified prescribed rate

J	Total Estimated Cost with GST					97,95,299	
				Rs. In Lakhs		97.95	
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 Limestone in Dhunki-Chilai Block District- Yavatmal, Maharashtra

Sl. No.	Activities	Unit	MONTHS								
			1	2	3	4	Review	5	6	7	8
1	Camp Setting	Month									
2	Surface Drilling (1 rig)	m.									
3	Survey Party days (1 Party)	day									
4	Geologist Party days in field (1 Party)	day									
5	Sampling Party days, Core Sampling (1 party)	day									
6	Camp Winding	Month									
7	Laboratory Studies	Nos.									
8	Geologist Party days in HQ (1 Party)	day									
9	Geological Report Writing with Peer Review	Month									

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Estimate Cost for Reconnaissance Survey (G4) for Iron Ore in Nawagarh-Nelsod-Antagarh area, District Uttar Bastar Kanker, Chhattisgarh
Area -35 Sqkm, Drilling- 300m, Bhs-6, Timeline- 10 months , Review 3 months
Exploration Agency – PRB Infraprojects Pvt Ltd.

Item	Item of Work	Item	SOR Sr No & Rates		Estimated Cost		Remarks
Sr No.	Item	Unit	Sr. No.	Rates	Qty.	Amount (Rs)	
A	GEOLOGICAL WORK (Mapping 1:12,500 scale)						
i	Charges for one Geologist- Field	day	1.2	11,000	120	1320000.00	
ii	Charges for one Geologist per- HQ	day	1.2	9,000	30	270000.00	
iii	2 labours/ party (Rs 494/day/labour)	day	5.7	526	240	126240.00	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
iv	Sampling -1 Samplers	day	1.5.2	5,100	21	107100.00	
v	Sampling 4 labours/ party	day	5.7	526	84	44184.00	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub Total- A					1867524.00	
B	LABORATORY STUDIES						
1	Chemical Analysis						
i	BRS/Channel/BH samples)						
a	Primary Samples: Whole Rock Analysis by XRF (Major oxides) for Total Fe, Total Mn, Al ₂ O ₃ , P ₂ O ₅ , CaO, SiO ₂ etc (BRS Samples-60, Channel Samples- 30, BH Samples-60)	Nos	4.1.15a	4,200	150	630000.00	
b	Check samples 10% External check sample	Nos	4.1.15a	4,200	15	63000.00	
2	Physical, Petrological, Mineralogical Studies						
i	Preparation of thin section	Nos	4.3.1	2,353	5	11765.00	
ii	Complete petrographic study report	Nos	4.3.4	4,232	5	21160.00	

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iii	Preparation of polished section	Nos	4.3.2	1,549	5	7745.00	
iv	Complete mineragraphic study report	Nos	4.3.4	4,232	5	21160.00	
v	Digital Photographs	Nos	4.3.7	280	10	2800.00	
vi	XRD	Per sample	4.5.1	4,000	5	20000.00	
	Sub Total- B					777630.00	
E	DRILLING- in-house						
i	Drilling upto 300m (Very Hard Rock 1Rig)*	m	2.2.1.4b	12,650	300	3795000.00	6 Bhs (Scout Boreholes)
ii	Land / Crop Compensation	per BH	5.6	20,000	0	0.00	
iii	Construction of concrete Pillar (6BH)	per BH	2.2.7a	2,000	6	12000.00	
iv	Transportation of Drill Rig & associated (Up-Dn)	Km	2.2.8	36	800	28800.00	To & From Nagpur to Metabodeli
v	Monthly Accommodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	3	150000.00	
vi	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	1	250000.00	
vii	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	1	250000.00	
viii	Approach Road Making (Hilly Terrain)	Km	2.2.10a	32,200	6	193200.00	As per actual
ix	BH Fixation and determination of co-ordinates & RL of 6 BH by DGPS	Nos	1.6.2	19,200	6	115200.00	
x	Drill Core Preservation (One complete borehole plus mineralised cores of all the BHs)	m	5.3	1,590	110	174900.00	
	Sub Total- C					4969100.00	
	Total A to C					7614254.00	
	Amount not eligible for LWE incentive					1222530.00	
	Total eligible amount for LWE incentive					6391724.00	
	Incentive LWE @ 1.25 times on Field item A+B+C+D+E					7989655.00	
F	Total Cost					9212185.00	
G	Geological Report Preparation (A minimum of Rs. 2.5 lakhs or 5% of the value of work whichever is more)		5.2			460609.25	
H	Peer review Charges					30000.00	
I	Preparation of Exploration Proposal (2% of the Cost or Rs. 5 Lakhs whichever is lower)		5.1			184243.70	

J	Total Estimated Cost without GST		9887037.95	
K	Provision for GST (18% of I)		1779666.83	
L	Total Estimated Cost with GST		11666704.78	
	Rs. In Lakhs		116.67	
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 Iron Ore in Nawagarh-Nelsod-Antagarh area, District Uttar Bastar Kanker, Chhattisgarh												
	Month	1	2	3	review	4	5	6	7	8	9	10
	ITEM Of WORK											
1	Prefield preparations and forest clearance											
2	Geological mapping on 1:12500 scale, bedrock sampling and analyses											
3	Drilling and core sampling preparation and analyses											
4	Interpretation of analytical data, finalisation of lithologs, maps etc.											
5	Report preparation and Peer review											
6	Final Report Submission											

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**Estimate Cost For Preliminary Exploration (G-3) For Limestone In Kodangal Block, Vikarabad District, Telangana
Exploration Agency - TGMDC**

Area- 8.65 sq. km, Drilling- 800m , BH: 20 nos. (40m depth) , Timeline- 10 months , Review- 4 months

S. NO	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item- Sl. No.	Rates as per SoC	Quantity	Amount	
A	Geological work						
1	Geological Mapping (1:4000) with Topographical Survey, Core logging, Sampling & report writing						
	a) Survey work- Surveyor	per day	1.6.11a	8,300	30	249000.00	
	f) 4 labours / Party (Rs 526/ day / labour) (As per rates of Central Labour Commissioner)	day	5.7	526	120	63120.00	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	b) Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS	per point of observation	1.6.2	19,200	29	556800.00	
	c) Charges for Geologist party days in field	Per day	1.5.1a	11,000	150	1650000.00	
	f)2 labours / Party (Rs 526/ day / labour) (As per rates of Central Labour Commissioner)	day	5.7	526	300	157800.00	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	d) Charges for Geologist party days (at H Q)	Per day	1.5.1a	9,000	30	270000.00	
	e) Sample processing work	Sampler per day	1.5.2	5,100	60	306000.00	

	f) 4 labours / Party (Rs 526/ day / labour) (As per rates of Central Labour Commissioner)	day	5.7	526	120	63120.00	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub total - A					3315840.00	
B	Drilling- Out sourced						
1	Surface drilling	Per m	2.2.1.1B	5242	800	4193600	
2	Accommodation	ONE Month	2.2.9	50000	0	0.00	
3	Approach road making for flat terrain	Per km	2.2.10a	22020	0	0.00	
4	Land or Crop Compensation	per bore hole	5.6	20000	0	0.00	As per actual
5	Camp setting	per drill	2.2.9a	250000	0	0.00	
6	Camp winding	per drill	2.2.9b	250000	0	0.00	
7	Drilling Tendering process cost	One time	2.3	500000	0	0.00	
8	Transportation of drill rig & truck associated per drill	K.M	2.2.8	36	0	0.00	
9	Vehicle & POL Charges for field	Month	N.A.	40,000	0	0.00	As per actual
	Drill Core Preservation	Per m	5.3	1,590	700	1113000.00	
	SUB TOTAL B					5306600.00	
C	Laboratory studies						
1	Chemical analysis						
	a) Primary core Samples- XRF method - Major Oxides	per sample	4.1.15 a	4200	800	3360000.00	750 Core samples +50 BRS
	b) Internal Check Samples for 8 radicals i.e. CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ and Lol	Per sample	4.1.9	3511	0	0.00	
	c) External Check Samples 10 % XRF method - Major Oxides	Per sample	4.1.15 a	2841	80	227280.00	
	d) Composite Samples for 6 radicals CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , and Lol	Per sample	4.1.9	2841	0	0.00	
2	Physical analysis					0.00	
	a) Preparation of thin sections	Nos.	4.3.1	2353	10	23530.00	
	b) Petrographic studies	Nos.	4.3.4	4232	10	42320.00	
	c) Bulk Density	Nos.	4.1	3540	5	17700.00	

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	Digital Photographs	Nos.	4.3.7	280	5	1400.00	
	SUB TOTAL C					3672230.00	
	TOTAL (A+B+C)					12294670.00	
	Tendering Cost		2.3			83872.00	
	Operational Charges		6	i		419360.00	
E	Preparation of Exploration proposal		5.1			245893.40	
F	Geological Report Preparation		5.2	ii		614733.50	
G	Peer Review Charges		As per EC Decision			30000.00	
	TOTAL (A+B+C+D+E+F+G)					13688528.90	
H	GST @ 18%					2463935.20	
I	GRAND TOTAL					16152464.10	
J	Rs. In Lacs					161.52	
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 (G-3) For Limestone In Kodangal Block, Vikarabad District, Telangana State

Time Schedule, Action Plan for Preliminary Exploration (G-3) For Limestone in Kozhanga Block, Pithorabud District, Telangana State													
S.No	Activities	Unit	Months										
			1	2	3	4	Review	5	6	7	8	9	10
1	Survey work	Month											
2	Camp Mobilisation	Month											
3	Surface Drilling	Month											
4	Core logging and Sampling	Month											
	Geological party												
5	Laboratory Studies	Month											
6	Geologist Party days(1 party)	Month											
7	Camp Demobilisation	Month											
8	Synthesis of data and Geological report Writing	Month											
	Peer review work												
10	Finalisation of Geological Report & Printing	Month											

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