

Ministry of Mines
National Mineral Exploration Trust
Minutes of 9th meeting of Technical-cum-Cost Committee - II (TCC - II)
held on 29th & 30th May 2025

The 9th meeting of Technical-cum-Cost Committee – II (TCC - II) of National Mineral Exploration Trust (NMET) was held through video conferencing under the Chairmanship of Shri Pradeep Singh, Deputy Director General (DDG), Geological Survey of India (GSI) and Chairman, TCC-II, NMET on 29th & 30th May 2025.

Members of TCC-II, NMET and representatives from Mineral Exploration and Consultancy Limited (MECL), FCI Aravali Gypsum & Minerals India Limited (FAGMIL), DGM Mizoram, Central Mine Planning & Design Institute Limited (CMPDI), CGM Gujarat, DMG Rajasthan, M/s Envirogreen Consultants (India) Private Limited, M/s Novomine India Private Limited, M/s PRB Infra Projects Private Limited, M/s Gemcokati Exploration Private Limited, M/s Engeotech Consultants, M/s Geomarine Solutions Private Limited, M/s Maheshwari Mining Pvt. Ltd. (MMPL), M/s GeoExpOre Private Limited, M/s Critical Mineral Trackers, M/s Earthenviro Lab Private Limited, M/s APC Drilling & Construction Private Limited, M/s Ocean Drilling and Exploration Private Limited, M/s Enkay Enviro Services Private Limited, M/s Vardan Environet LLP. etc. have attended the meeting through video conferencing mode.

The list of participants is at Annexure-I.

Shri Sanjay Singh, Director, GSI and Member Secretary, TCC-II, NMET warmly welcomed all TCC-II members and every participant representing various Notified Exploration Agencies (NEAs) and Notified Private Exploration Agencies (NPEAs).

In his opening remarks, Shri Pradeep Singh, Chairman, TCC-II, informed the committee members that a more thorough review of the Detailed Project Reports (DPRs) and ongoing projects is required. He also emphasized that new project proposals have to be assessed with careful consideration to ensure the judicious use of NMET funds.

Agenda 9.1 Technical Evaluation of New Project Proposals

Agenda 9.1.1 Preliminary Exploration (G3) for Limestone, (9.25 Sq. Km) village Kotra, Tehsil Kotra, District Udaipur, Rajasthan

[Implementing Agency: M/s Envirogreen Consultants (India) Private Limited]

- a) The proposed exploration block of 9.25 sq. km. area, falls in Survey of India Toposheet numbers 45H/2, 45H/3 in parts of Udaipur district, Rajasthan.
- b) M/s Envirogreen Consultants (India) Private Limited informed that the block area has limestone deposit as per outcrop seen within the area. Limestone deposit has been proven by GSI & DGM, Gujarat in surrounding area of the Block through G4 exploration in the strike of the block. Exploration will locate and quantify the different grade of limestone based on the requirement for the different industries (viz. Cement, Steel, Chemical etc.).
- c) DMG Rajasthan apprised the TCC-II, that rather than entrusting external agencies with limestone exploration blocks in Rajasthan, the State Government intends to conduct the exploration itself.



- d) The TCC-II opined that further clarification from DMG Rajasthan for the proposed block is needed.

Recommendations of TCC-II

The committee does not recommend the proposal for approval of EC

Agenda 9.1.2 Reconnaissance Survey (G4) of REE mineralization in Jeerawal (W) Rohua Block, Tehsil-Reodar, (134 Sq. km Area), District Sirohi, Rajasthan

[Implementing Agency: FCI Aravali Gypsum & Minerals India Limited (FAGMIL)]

- a) The proposed exploration block of 134 sq. km. area, falls in Survey of India Toposheet numbers 45D/6 in parts of Sirohi district, Rajasthan.
- b) FAGMIL informed that, GSI in the FS 2017–18 carried out Geochemical studies and identified anomalous concentrations of U (22.12 ppm), Th (63 ppm), Pb, Ta, and elevated K₂O, Rb (253 ppm), Y (101 ppm), Sn (15.46 ppm) over granitic rocks (Erinpura, Jalore, Malani) in the NE region, especially NW of Jeerawal. High Zr (2776 ppm) and Hf (100.70 ppm) were reported near Jeerawal and Barechi. Further, in FS 2018–19, GSI conducted Geophysical survey which indicated a NE-SW trending gravity anomaly with high magnetic response, suggesting a basic intrusive body. Two significant lineaments were interpreted near Lalpura and Jeerawal. In FS 2021–22, GSI, carried out reconnaissance survey in Jeerawal–Sanpur area which revealed REE, U, Th, Zr mineralization in granitoids. EPMA analysis showed granodiorite with TREE up to 372 ppm. Of 113 samples, 15 recorded TREE >500 ppm. Higher LREE values (e.g., La 373.97 ppm, Ce 666.12 ppm) were associated with granitic and metamorphic lithologies near Jirawal, Bhilda, and Barechi.
- c) As per the comments received from GSI, the proposed block has been carved out from GSI's RMT block. Comments from AMD and DMG Rajasthan were pending at the time of the meeting.
- d) The TCC-II advised the Implementing Agency to modify the proposed block boundaries to exclude areas with thick aeolian sediment cover. It also suggested incorporating available data from the GSI's RMT project into the DPR and, accordingly, reducing the proposed geophysical components in the plan.

Recommendations of TCC-II

The committee deferred the proposal for next TCC-II meeting (Consent of DMG Rajasthan is required)

Agenda 9.1.3 Reconnaissance Survey (G4) for Bauxite and associated minerals in Ratnal area (44 sq. km), District Kachchh, Gujarat

[Implementing Agency: Mineral Exploration and Consultancy Limited (MECL)]

- a) The proposed exploration block of 44 sq. km. area, falls in Survey of India Toposheet numbers 41E/16 & 41I/4 in parts of Kachchh District, Gujarat.
- b) MECL informed that the area comprises Bauxite/Laterite associated with Deccan Trap volcanics, specifically the Matanomadh Formation. These bauxites formed through supergene alteration of pyroclastic facies of Deccan basalts and are overlain by Eocene gypseous shale beds. CGM Gujarat (1974) explored the area via pitting, reporting bauxite resource of 0.11 million tonnes with an average of 44.77% Al₂O₃ and

8.52% SiO₂, recommending further detailed exploration. The region hosts active bauxite leases and exploration in the Matanomadh Formation. Geological mapping (FSP 1981–82 & 1984–85) confirms bauxite presence in supra-trappean formations, characterized by oolitic/pisolitic bauxite, lithomarge, aluminous grit, and clays. Bauxite is formed in situ by lateritization of Deccan Trap basalts, with higher titanium content than bauxites from Khondalite-Charnockite terrains. Hence, titanium prospecting is also included in the proposed G-4 level exploration plan.

- c) MECL team also conducted field visit and identified bauxite associated with Laterite in and around the proposed block. Where, the values of Al₂O₃ (%) ranges from 10.34 to 36.69 & TiO₂ (%) ranges from 1.13 to 3.54.
- d) CGM Gujarat apprised the TCC-II that NOC approval has been given to MECL for a large area and the proposed block forms a small part of the area. As per the comments received from GSI, Al₂O₃ value ranges from 18.47 to 28.83 (wt%). Comments from AMD were pending at the time of the meeting.
- e) The TCC-II opined that geological mapping & pitting/trenching can be done in the first phase of the project. The committee agreed for total 270 meter of drilling in 9 boreholes, with average depth of 30m, subject to positive outcomes from geological mapping and pitting/trenching activities.

Recommendations of TCC-II

The committee recommends the proposal for approval of EC for “Reconnaissance Survey (G-4) for Bauxite and associated minerals in Ratnal Area, Districts Kachchh, Gujarat” with an estimated cost of ₹118.31 Lakh (including GST) within the time schedule of 10 Months and submission of the report as per Annexures IIA & IIB. The item will be reviewed after 4 months. Total 270 meter of drilling will be done in 9 boreholes, with average depth of 30m subject to encouraging outcomes after geological mapping and pitting/trenching activities.

Agenda 9.1.4 Reconnaissance Survey (G4) for Bauxite and associated Minerals in Kukma Area (13.32 sq. km), District Kachchh, Gujarat

[Implementing Agency: Mineral Exploration and Consultancy Limited (MECL)]

- a) The proposed exploration block of 13.32 sq. km. area, falls in Survey of India Toposheet numbers 41E/15 & 41E/16 in parts of Kachchh District, Gujarat.
- b) MECL informed that the area features Bauxite/Laterite linked to Deccan Trap volcanics. Bauxites of the Matanomadh Formation formed through supergene alteration of pyroclastic Deccan basalts, comprising ferruginous laterite over Deccan traps, overlain by Eocene gypseous shale beds.
- c) Bauxite deposits in the area are associated with laterites of the Matanomadh Formation, formed by in-situ alteration of Deccan Trap pyroclastics. CGM Gujarat (1974) explored the area through pitting, reporting reserves of 0.11 million tonnes with average grades of 44.77% Al₂O₃ and 8.52% SiO₂, and recommended further detailed exploration. Active bauxite leases and ongoing exploration exist nearby. Geological mapping (FSP 1981–82 & 1984–85) confirms bauxite presence in supra-trappean formations characterized by oolitic/pisolitic bauxite, lithomarge, aluminous clays, and associated sediments. Bauxite over basalt shows higher titania than that from Khondalite-Charnockite, supporting inclusion of titania prospecting in the proposed exploration. A recent MECL field visit confirmed bauxite occurrences with laterite, with

sample values of 35.45% Al_2O_3 , 6.36% TiO_2 , 646 ppm V, and 39 ppm Ga in and around the proposed block.

- d) CGM Gujarat apprise the TCC-II that NOC approval has been given to MECL for the area of the proposed block.
- e) The TCC-II opined that geological mapping & pitting/trenching can be done in the first phase of the project. The committee agreed for total 150 meter of drilling in 5 boreholes, with average depth of 30m, subject to positive outcomes of initial 2 boreholes. The committee also suggested the Implementing Agency to identify the parent rock.

Recommendations of TCC-II

The committee recommends the proposal for approval of EC for “Reconnaissance Survey (G-4) for Bauxite and associated minerals in Kukma Area, District Kachchh, Gujarat” with an estimated cost of ₹75.45 Lakh (including GST) within the time schedule of 10 Months and submission of the report as per Annexures IIIA & IIIB. The item will be reviewed after 4 months. Total 150 meter of drilling in 5 boreholes, with average depth of 30m, will be done, subject to positive outcomes of initial 2 boreholes.

Agenda 9.1.5 Reconnaissance Survey (G4) for REE and associated mineralization in Kali Talavdi Area (102.50 sq. km), Kachchh Basin, District Kachchh, Gujarat

[Implementing Agency: Mineral Exploration and Consultancy Limited (MECL)]

- a) The proposed exploration block of 102.50 sq. km. area, falls in Survey of India Toposheet numbers 41E/15 in parts of Kachchh District, Gujarat.
- b) MECL informed that they have analyzed NGCM data (Toposheet 41E/15) from the NGDR portal for the proposed block. $\Sigma\text{REE}+\text{Sc}+\text{Y}$ values in 25 stream sediment samples range from 654.73 ppm to 1614.90 ppm, averaging 998.25 ppm. Thirteen samples exceed 1000 ppm, and all exceed 500 ppm, indicating strong REE enrichment. Chondrite-normalized REE patterns show pronounced LREE enrichment with a flat HREE pattern and a strong negative Eu anomaly. GSI's NGCM data from adjacent toposheets (41E/11, 12, 15 & 16) also show anomalous REE values, supporting the proposal to take up the Kali Talavdi area for reconnaissance REE exploration. MECL is conducting G-4 exploration for REE and associated elements in five nearby blocks around Bhuj, targeting the Bhuj and Katrol formations. A field visit to the proposed block led to chip sample collection, with $\Sigma\text{REE}+\text{Sc}+\text{Y}$ values ranging from 173.47 ppm to 1652 ppm across six samples. Three samples recorded values above 500 ppm, indicating promising REE potential.
- c) CGM Gujarat apprised the TCC-II that NOC approval has been given to MECL for the area of the proposed block.
- d) The TCC-II suggested that, given the ongoing projects (5 blocks in same toposheet with similar geological set up) in adjacent areas, it would be prudent to await the results from at least one completed project before initiating exploration in the proposed block.

Recommendations of TCC-II

The committee does not recommend the proposal for approval of EC.

Agenda 9.1.6 Preliminary Exploration (G3) for Limestone, Barsora block, SW Khasi Hills District, Meghalaya

[Implementing Agency: M/s Novomine India Private Limited (NIPL)]

- a) The proposed exploration block of 4.00 sq. km. area, falls in Survey of India Toposheet numbers 78O/4 in parts of SW Khasi Hills District, Meghalaya.
- b) M/s Novomine India Private Limited informed that based on previous investigations by GSI and the Directorate of Mineral Resources (DMR) Meghalaya, along with geological data from the NGDR portal, a limestone-bearing block in the Barsora area has been proposed for G3-level exploration. The deposit, part of the Shella Formation (Tertiary age), extends over 50 km (E-W) and is light grey, fossiliferous (nummulitic), and high-grade. GSI (FS 1976–78) estimated resource of ~50 MT over 1.8 sq. km with average CaO of 48.53% and low MgO + SiO₂ (<5%). DMR (FS 1984–85) reported 37 MT with CaO ~50%, MgO 0.75%, and low silica. NIPL's recent survey confirmed high-grade limestone (CaO 51.87–54.32%, SiO₂ 0.28–1.76%). Nearby quarries (Donkurpar Massar and Rita Massar) support the resource potential. The proposed G3 - level exploration will delineate the deposit's extent, grade, and industrial suitability.
- c) As per the comments received from Directorate of Mineral Resources (DMR) Meghalaya, the proposed area is feasible for limestone exploration & there is no CL /ML in the block.
- d) The TCC-II advised conducting geological mapping at a 1:4000 scale and also suggested modifying the block boundary to facilitate effective borehole planning for G3 stage of exploration.
- e) Further, M/s Novomine India Private Limited informed the committee about the economic feasibility of the project. The average distance of nearby cement factories from the proposed exploration block is approximately 100 km.
- f) The TCC-II opined that input from the State Government and IBM, Regional Office, is required regarding the economic viability of the proposed block before a decision can be made.

Recommendations of TCC-II

The committee deferred the proposal for next TCC-II meeting (input from the State Government and IBM is required).

Agenda 9.1.7 Reconnaissance Survey (G4) for V-Cr-Ti bearing magnetite Mawkapiah-Mawkhiat area, West Khasi Hills district, Meghalaya

[Implementing Agency: M/s Novomine India Private Limited (NIPL)]

- a) The proposed exploration block of 36.00 sq. km. area, falls in Survey of India Toposheet numbers 78O/2 and 78O/6 in parts of West Khasi Hills district, Meghalaya.
- b) M/s Novomine India Private Limited (NIPL) informed that the proposed block has been delineated based on prior Geological Survey of India (GSI) reports and available lithological and geochemical data from the National Geoscience Data Repository (NGDR) portal. Magnetic anomalies were identified during a ground geophysical survey in the eastern part of SOI toposheet No. 78O/2. Additionally, an airborne electromagnetic (AEM) anomaly was detected by the National Geophysical Research Institute (NGRI) during an aero-geophysical survey conducted in 1977 at a flight elevation of 6,700 ft. This anomaly trends in an east-northeast to west-southwest

direction. The Myniar area, located within this anomaly, was investigated by GSI during the 2015–16 field season . The study delineated six magnetite bodies, all exhibiting promising concentrations of vanadium (0.58% to 0.76%), chromium (0.50% to 1.36%), and titanium (13.83% to 18.09%). Similar high-grade magnetite deposits enriched in vanadium, chromium, and titanium have been reported in the Rambrai area (Sreenivasaiah et al., 2012–13), situated to the southeast of the proposed block.

- c) As per the comments received from Directorate of Mineral Resources (DMR) Meghalaya, there is no CL /ML in the proposed block. Also, there is no ongoing project by DMR, Meghalaya in the block.
- d) The TCC-II opined that prior identification of the target lithology is needed. More pitting/trenching and sampling to be done by the implementing agency itself for the control over target lithology.

Recommendations of TCC-II

The committee does not recommend the proposal for approval of EC.

Agenda 9.1.8 Preliminary Exploration (G3) for Limestone in Vadekhan Block, Upleta Taluka, Rajkot District, Gujarat

[Implementing Agency: M/s PRB Infra Projects Private Limited]

- a) The proposed exploration block of 6.19 sq. km. area, falls in Survey of India Toposheet numbers 41K/1 in parts of Rajkot District, Gujarat. The project was given in-principle approval in the 4th meeting of TCC-II, NMET, held on 26th & 27th December 2024.
- b) M/s PRB Infra Projects Private Limited informed that The NOC approval has been given by CGM Gujarat for this exploration block. The area comprises of Limestone of Miliolite Formation, which is reported to be of cement grade. GSI has carried out quaternary geological mapping in the parts of Saurashtra area in the FS 1971-72 and has reported occurrence of high-grade lime stones in the Gaj and Miliolite Formations. (Report by K.K. Verma and U.B. Mathur). The PRB team has visited the area and collected 5 bed rock samples of Miliolitic limestone exposed in the area. The results of the analysis indicate that the samples meet chemical-grade classification criteria. The compositional assessment revealed an average silica (SiO₂) content of 1.2% and a calcium oxide (CaO) concentration of 50%, suggesting potential industrial applications.
- c) The TCC-II advised that initially detailed geological mapping, pitting (1st phase) and sampling to be done. After the review of the sample analysis results of 1st phase, core drilling/ pitting (Second phase) will be decided.

Recommendations of TCC-II

The committee recommends the proposal for approval of EC for “Preliminary Exploration (G3) for limestone in Vadekhan Block, Rajkot district, Gujarat” with an estimated cost of ₹68.61 Lakh (including GST) within the time schedule of 10 Months and submission of the report as per Annexures IVA & IVB. The item will be reviewed after 4 months. Total 100 meter of drilling will be done in 10 boreholes, with average depth of 10m. Drilling will commence after review.

Agenda 9.2 Review of Ongoing Procurement Projects & Timeline Extension

Agenda 9.2.1 Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities
[Implementing Agency: DGM Mizoram]

The agenda was not discussed.

9.3 Review of Ongoing Projects/ Completed Projects & Timeline Extension

Agenda 9.3.1 Reconnaissance Survey (G4) for PGE, Vanadium & associated minerals in Bhursadongari - Murum Block (100 sq. km), Balaghat District, Madhya Pradesh
[Implementing Agency: M/s Gemcokati Exploration Private Limited]

- a) M/s Gemcokati Exploration Private Limited informed that the project was recommended in 62nd meeting of TCC held on 28, 29 February & 1st March 2024. The project was approved in the 34th EC Meeting held on 12th March 2024. The OM was issued on 12th March 2024 with timeline of 06 months (up to 11.09.2024) and approved cost of INR 61.01/- Lakh. Time extension till 31.03.2025 (6 months) and till 30.06.2025 (3 months) was approved by 39th and 41st EC meetings respectively.
- b) The Implementing agency briefed that forest clearance for pitting and trenching based on new forest guidelines on Pitting and Trenching was obtained (from Range Forest office) on 6th March 2025. Further, the approved project budget has increased due to the addition of registration and processing fees related to Forest Clearance. But there is no budget provision in SoC of NMET for these expenses.
- c) Based on this G4 work, three titanium, vanadium enriched aluminous laterites capped on Amgaon phyllite (600 hectares), Sitagota basalt (320 hectares) and Kotima basalt (160 hectares) have been delineated by the Implementing agency. These are also extending into lower adjacent Maneri-Sitapala block. Demarcation of potential area has been done on the basis of BRS as well as pit & trench samples results.
- d) The TCC-II agreed for the proposed peer review of the final Geological Report. The committee also agreed to drop the EPMA studies for this project, as the chemical analysis results did not yield any significant values.

Recommendations of TCC-II

The committee agreed for the proposed peer review of the final Geological Report. The committee also agreed to drop the EPMA studies. The matter of registration and processing fees for Forest Clearance will be brought to the attention of the Executive Committee (EC).

Agenda 9.3.2 Reconnaissance Survey (G4) for PGE, Gold & REE in Maneri-Sitapala Block, Balaghat District, Madhya Pradesh (Cost escalation)
[Implementing Agency: M/s Gemcokati Exploration Private Limited]

- a) M/s Gemcokati Exploration Private Limited informed that the project was recommended in 55th meeting of TCC held on 23rd August 2023. The project was approved in the 31st EC Meeting held on 12th September 2023. The OM was issued on 5th October 2023 with timeline of 08 months (up to 04.06.2024) and approved cost of

INR 64.92/- Lakh. The project was given time extension till 31.07.2024 (2 months), 31.12.2024 (5 months) and 31.03.2025 (03 months) by 64th TCC, 37th EC and 39th EC respectively.

- b) The Implementing agency further informed the committee that the approved project budget has increased due to the addition of registration and processing fees related to Forest Clearance. But there is no budget provision in SoC of NMET for these expenses.
- c) The TCC-II agreed for the proposed peer review of the final Geological Report.

Recommendations of TCC-II:

The committee agreed for the proposed peer review of the final Geological Report. The matter of registration and processing fees for Forest Clearance will be brought to the attention of the Executive Committee (EC).

Agenda 9.3.3 Reconnaissance survey (G4) for copper and associated minerals in Kochipur District– Sidhi, Madhya Pradesh

[Implementing Agency: Central Mine Planning & Design Institute Limited (CMPDI)]

- a) CMPDI informed that the project was approved in 37th EC meeting with timeline of 10 months (up to 21.08.2025) and approved cost was INR 125.13 lakh. Sanction Order was issued on 22nd October 2024.
- b) The implementing agency briefed about the status of progress of the exploration work. Geological mapping on 1:12,500 scale of 90 sq. km. area has been completed while pitting/trenching, collection of samples & chemical analysis is in progress. The agency proposed analysis of PGE for 3 samples of Metabasic rocks.
- c) The TCC-II advised incorporation of the aeromagnetic data for tracing Iron rich bands. The committee also suggested to map the dimensions of Iron & Graphite bands. To establish the presence of iron and graphite bands, channel sampling and trenching must be carried out, respectively. Analysis of select samples for Cadmium, Indium & Germanium was also suggested by the committee.
- d) The TCC-II opined that Drilling quantum will be decided after the review of the analytical results of trench samples. Proposal for analysis of PGE for 3 samples of Meta basic rocks was not accepted as the Ni and Cr values are very low.

Recommendation of TCC-II:

The committee deferred the proposal for next TCC-II meeting for evaluation of revised cost sheet.

Agenda 9.3.4 Reconnaissance Survey (G4) for Limestone in and around Nanhwara Kymore area, Katni District, Madhya Pradesh

[Implementing Agency: M/s Engeotech Consultants]

- a) M/s Engeotech Consultants informed that the project was approved in the 39th EC Meeting held on 24th January 2025. The Sanction Order was issued on 10th February, 2025 with timeline of 10 months (up to 09.12.2025) and approved cost was INR 70,14,523/-.
- b) The implementing agency informed the committee about the progress of the project. Geological mapping on 1:12,500 scale of 22.52 sq. km area & Survey work has been done. Chemical analysis & lab studies are in progress.

- c) The TCC-II suggested the modification in Bore hole numbers with spacing of 1600m. Drilling of total 9 Bore holes with depth range of 30/50m were agreed by the committee.

Recommendations of TCC-II:

The committee recommends the proposal for approval of EC for “additional drilling in 6 Boreholes (180m)” with total revised cost of ₹103.59 Lakh as per annexure V. Total 290 meter of drilling will be done in 9 Bore holes with depth range of 30/50m (8 BHx30m each & 1 BHx50m).

Agenda 9.3.5 Preliminary Exploration (G-3) for Iron, Manganese and Associated Minerals in Tindni area (7.4 Sq. Km) Jabalpur district, Madhya Pradesh.

[Implementing Agency: Mineral Exploration and Consultancy Limited (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 15 months (up to 09.09.2025) and approved cost was ₹ 368.85/- Lakh.
- b) Further, MECL briefed that a prominent, continuous linear hill occupies the central part of the block. The northern and southern sections of the block consist of steep hill flanks and adjacent low-lying areas. The hilltop is largely composed of Banded Hematite Quartzite/Jasper (BHQ/BHJ), while the flanks and low-lying zones are predominantly underlain by Metabasalt. The cumulative length of the BHQ ridge is about 5,300 meters, with an average width of 60 meters. The general strike of the BHQ/BHJ is nearly east–west, although in the western portion of the block, it trends northeast–southwest due to folding. The dip of the BHQ varies from 50° to subvertical, generally towards the south, and towards the southeast in the western part. BHQ is characterized by alternating bands of hematite and silica, with occasional jasper. The silica bands are generally thicker than the hematite bands. No significant iron ore enrichment has been observed along the BHQ ridges. To assess the quality of the BHQ, 17 channels were excavated, and a total of 72 samples were collected. Analytical results indicate that the Fe content is below the threshold value of 45% Fe.
- c) The TCC-II suggested that the project could be discontinued, as the iron values identified in the block are not encouraging. The committee advised the implementing agency to submit the expenditure status.

Recommendations of TCC-II:

The committee recommended the proposal for approval of EC for “pre- closure of the project due to low Iron values in the block” with the total actual expenditure of ₹ 30.44/- Lakh against approved cost of ₹ 368.85/- Lakh as per Annexure VI.

Agenda 9.3.6 Preliminary Exploration (G3) for Iron- PGE and associated minerals in Chitrangi Block (5.00 sq. km), Districts: Singrauli, State: Madhya Pradesh

[Implementing Agency: Mineral Exploration and Consultancy Limited (MECL)]

- a) MECL informed that the project was approved in the 36th EC Meeting held on 29th July 2024. The Sanction Order was issued on 29th August 2024 with timeline of 12 months (up to 28.08.2025) and approved cost was ₹196.12/- Lakh.
- b) MECL further informed that Geological mapping on 1:4000 scale along with collection of Channel and other samples have been done in the block. As per the presented analytical results T Fe% ranges from 26.31 to 53.89.

- c) The TCC-II opined that the project could be discontinued, as the iron values identified in the block are not encouraging. The committee advised the implementing agency to submit the expenditure status.

Recommendations of TCC-II

The committee recommended the proposal for approval of EC for “pre- closure of the project due to low Iron values in the block” with the total actual expenditure of ₹ 41.78/- Lakh against approved cost of ₹ 196.12/- Lakh as per annexure VII.

Agenda 9.3.7 Reconnaissance Survey (G4) for Glauconitic Sandstone in Mudhan-Khatiya Block (129.00 sq. km), Kachchh District, Gujarat.

[Implementing Agency: Mineral Exploration and Consultancy Limited (MECL)]

- a) MECL informed that the project was approved by 37th EC meeting of NMET, held on 23rd September 2024, with timeline of 10 months (up to 21.08.2025) and approved cost was INR 1,61,65,384/-.
- b) Further, it was informed by MECL that they have carried out geological mapping on 1:12,500 scale along with bedrock sampling is under progress. Pitting is planned to be carried out in the identified mineral potential zones, based on the results of geological mapping and geochemical sampling. A provision of pitting of 200 cubic meter has been planned. Total 17 Nos. scout boreholes drilling on 1600m (approximately) grid spacing was proposed by MECL.
- c) The TCC-II opined that true thickness of Glauconitic Sandstone to be brought out for proper planning of Boreholes.

Recommendations of TCC-II

The committee deferred the proposal for next TCC-II meeting.

Agenda 9.3.8 Preliminary Exploration (G3) for vanadium and titanium in Dandi-Onjal-Surwada Block in Navasari and Valsad Districts, Gujarat

[Implementing Agency: M/s Geomarine Solutions Private Limited]

- a) M/s Geomarine Solutions Private Limited informed that the project was approved vide OM No. 23/451/2024-NMET/606 dated 12th March 2024 with timeline of 12 months (up to 11.03.2025) and approved cost of ₹89,78,326/-. Time extension till 11.06.2025 (3 months) was approved by 5th TCC-II
- b) The Implementing agency informed that as instructed by NMET, Draft report has already been submitted to peer reviewer on 16th May 2025. The total sand body is estimated at 12.817 million metric tonnes (MMT), of which the prime ore constitutes 10.942%, amounting to approximately 1.261 MMT. Total tonnage in +120# fraction for Fe₂O₃ is 0.2780 MMT, TiO₂ - 0.0832 MMT & V₂O₅ - 0.0020 MMT. The resource has been classified under UNFC category 333. The agency requested for timeline extension up to 15th July for submission of final geological report.
- c) The TCC-II advised M/s Geomarine Solutions Private Limited to submit the final geological report to NMET, which will, in turn, forward it to DAE, given the presence of up to 150 ppm of Monazite equivalent in the block. No further work is recommended in this block. The committee also agreed for timeline extension of 1 month up to 11th July 2025 for final GR submission.

Recommendations of TCC-II

The committee recommends the proposal for approval of EC for timeline extension of 1 month up to 11th July 2025 for submission of the final geological report after peer review. No further work is recommended in this block.

Agenda 9.3.9 Preliminary Exploration (G3) for Limestone in N.W. of Boro Lakhindong, Dima Hasao, Assam

[Implementing Agency: M/s Maheshwari Mining Pvt. Ltd. (MMPL)]

- a) M/s Maheshwari Mining Pvt. Ltd. (MMPL) informed that the block was approved in 34th EC meeting held on 12th March 2024. Sanction order was received by the MMPL on 12th March 2024 with approved cost of ₹311.98/- Lakhs & timeline of 12 months (up to 11.03.2025). The time schedule was extended till 11.05.2025 (2 months) in 6th TCC meeting-II.
- b) The implementing agency further briefed that peer review of the final geological report has been done & all the comments/suggestions of peer review has been incorporated in the GR.
- c) The agency further presented the revised cost sheet as there were few discrepancies in approved cost sheet. Initially, Complete rock analysis for limestone was given under SoC para 4.1.16, by proximate analysis for graphite (Cost 3000 /- per sample) which needs to be changed to SoC para 4.1.9: Complete rock analysis for limestone (cost 2900/- per sample). Also, the cost of bedrock sample for analysis was not given but 10% external check analysis was given twice in sanction order.
- d) The TCC-II agreed with the changes requested in revised cost sheet due to changes in SoC para & change in item of work. The committee also agreed for submission of the final geological report.

Recommendations of TCC-II

The committee recommends the proposal for approval of EC for changes in SoC para & change in item of work with revised cost of ₹311.39 Lakh against approved cost of ₹311.98 Lakh as per annexure VIII and submission of the final geological report.

Agenda 9.3.10 Reconnaissance Survey (G4) for Graphite in Ranibandh Area, Bankura, West Bengal

[Implementing Agency: M/s Maheshwari Mining Pvt. Ltd. (MMPL)]

- a) M/s Maheshwari Mining Pvt. Ltd. (MMPL) informed that the block was approved in 34th EC meeting held on 12th March 2024. Sanction order was received by the MMPL on 12th March 2024 with approved cost ₹143.36/- Lakhs and timeline of 10 months (up to 11.01.2025). The time schedule was extended till 11.04.2025 (3 months) in 4th TCC meeting-II. It was further extended to 10.07.2025 (3 months) in 42nd EC meeting.
- b) MMPL proposed changes in quantum of drilling meterage from 500m to 450m and increase in pitting/trenching from 100 cu. m to 139.1 cu. m. & Change in IP. Induced Polarization (I.P) cum Resistivity S.P and Magnetic form 30 L km to 35 L km. respectively, there are modifications in quantum of laboratory studies.
- c) The TCC-II agreed for the proposed changes in quantum of work.

Recommendations of TCC-II

The committee recommends the proposal for approval of EC for changes in quantum of drilling, pitting/trenching, Ground Geophysical Survey and respective changes in quantum of laboratory studies with revised cost of ₹136.32 Lakh against approved cost of ₹143.35 Lakh as per annexure IX.

**Agenda 9.3.11 Reconnaissance Survey (G4) for Graphite and associated Minerals around Sonaghati, Amdol, Jharegaon and Bhayawari, District Betul, Madhya Pradesh
[Implementing Agency: M/s GeoExpOre Private Limited]**

- a) M/s GeoExpOre Private Limited informed that the project was approved in the 34th EC Meeting held. The Sanction Order was issued on 12th March 2024 with timeline of 12 months up to 11.03.2025 and approved cost of ₹ 111.47 Lakh. The time schedule was extended till 11.06.2025 (3 months) in 6th TCC meeting-II.
- b) The implementing agency briefed about the progress of the project. Geological mapping on 1:4000 scale of 7.34 sq. km. area & sampling has been completed in this project. Geophysical Exploration – SP Survey and chemical analysis are in progress. The agency also requested for timeline extension of 6 months for completion of the project.
- c) The TCC-II advised Geophysical Exploration – SP Survey in 5 Lkm. Timeline extension of 2 months up to 11.08.2025 was also agreed by the committee.

Recommendations of TCC-II

The committee agreed for Geophysical Exploration – SP Survey in 5 L km & timeline extension of 2 months up to 11.08.2025.

**Agenda 9.3.12 Preliminary Exploration (G3) for Limestone in Lodhva Block, Gir Somnath District, Gujarat
[Implementing Agency: CGM Gujarat]**

- a) The project was approved in the 37th EC Meeting held on 23.09.2024. The Sanction Order was issued on 22nd October 2024 with timeline of 8 months up to 21.06.2025 and approved cost of ₹ 46.64/- Lakh.
- b) CGM Gujarat briefed about the progress of the work. So Far, Topographic Survey, Geological Mapping and Bedrock/Grab Sampling collection & its analysis have been Completed. Drilling, Drilled Borehole sample preparation and analysis, Geological report preparation & Peer review of final GR is yet to be completed. The agency requested for timeline extension up to December 2025 citing various reasons.
- c) The TCC-II suggested CGM Gujarat to submit the requisition of timeline extension to NMET with proper justifications for the delay in project work.

Recommendations of TCC-II

The committee recommends the proposal for approval of EC for timeline extension of 06 months up to 31.12.2025.

Agenda 9.3.13 Preliminary Exploration (G3) for Limestone in Matana Block, Gir Somnath District, Gujarat

[Implementing Agency: CGM Gujarat]

- a) The project was approved in the 37^h EC Meeting held on 23.09.2024. The Sanction Order was issued on 22nd October 2024 with timeline of 6 months up to 21.04.2025 and approved cost of ₹ 57.47/- Lakh.
- b) CGM Gujarat briefed about the progress of the work. So Far, Topographic Survey, Geological Mapping and Bedrock/Grab Sampling collection & its analysis have been Completed. Drilling, Drilled Borehole sample preparation and analysis, Geological report preparation & Peer review of final GR is yet to be completed. The agency requested for timeline extension up to December 2025 citing various reasons.
- c) The TCC-II suggested CGM Gujarat to submit the requisition of timeline extension to NMET with proper justifications for the delay in project work.

Recommendations of TCC-II

The committee recommends the proposal for approval of EC for timeline extension of 08 months up to 31.12.2025.

Agenda 9.3.14 Preliminary Exploration (G3) for Limestone in Simar Block, Gir Somnath District, Gujarat

[Implementing Agency: CGM Gujarat]

- a) The project was approved in the 37^h EC Meeting held on 23.09.2024. The Sanction Order was issued on 22nd October 2024 with timeline of 6 months up to 21.04.2025 and approved cost of ₹ 29.52/- Lakh.
- b) CGM Gujarat briefed about the progress of the work. So Far, Topographic Survey, Geological Mapping and Bedrock/Grab Sampling collection & its analysis have been Completed. Drilling, Drilled Borehole sample preparation and analysis, Geological report preparation & Peer review of final GR is yet to be completed. The agency requested for timeline extension up to December 2025 citing various reasons.
- c) The TCC-II suggested CGM Gujarat to submit the requisition of timeline extension to NMET with proper justifications for the delay in project work.

Recommendations of TCC-II

The committee recommends the proposal for approval of EC for timeline extension of 08 months up to 31.12.2025.

Agenda 9.3.15 Detailed Exploration (G3) for Limestone in Bolas Block, Gir Somnath District, Gujarat

[Implementing Agency: CGM Gujarat]

- a) The project was approved in the 37^h EC Meeting held on 23.09.2024. The Sanction Order was issued on 22nd October 2024 with timeline of 6 months up to 21.04.2025 and approved cost of ₹ 39.97/- Lakh.



- b) CGM Gujarat briefed about the progress of the work. So Far, Topographic Survey, Geological Mapping and Bedrock/Grab Sampling collection & its analysis have been Completed. Drilling, Drilled Borehole sample preparation and analysis, Geological report preparation & Peer review of final GR is yet to be completed. The agency requested for timeline extension up to December 2025 citing various reasons.
- c) The TCC-II suggested CGM Gujarat to submit the requisition of timeline extension to NMET with proper justifications for the delay in project work.

Recommendations of TCC-II

The committee recommends the proposal for approval of EC for timeline extension of 08 months up to 31.12.2025.

Additional Agenda

9.3 Review of Ongoing Projects/ Completed Projects & Timeline Extension

Agenda 9.3.16 Reconnaissance Survey (G4) for Bauxite, Ga, V, Ti & REE in Reldi Moti area Kachchh District, Gujarat

[Implementing Agency: M/s Critical Mineral Trackers]

- a) The project was approved in the 39th EC Meeting held on 24.01.2025. The Sanction Order was issued on 10.02.2025 with timeline of 10 months up to 09.12.2025 and approved cost of ₹ 54.94/- Lakh.
- b) M/s Critical Mineral Trackers briefed about the progress of work in the project. Geological mapping in 1:12,500 scale of 7.95 sq. km area & pitting/trenching have been completed in this project. The agency also requested change from outsourced drilling to inhouse drilling & approval for respective changes in the cost of the project.
- c) The TCC-II advised the agency to complete the project as per the given timeline. The committee also agreed for the change from outsourced drilling to inhouse drilling in the project.

Recommendations of TCC-II

The committee recommends the proposal for approval of EC for the change from outsourced drilling to in-house drilling in the project with revised cost of ₹71.54 Lakh against approved cost of ₹54.94 Lakh as per annexure X.

Agenda 9.3.17 Reconnaissance Survey (G4) for Bauxite, Ga, V, Ti & REE in Lakhond area, Kachchh District, Gujarat

[Implementing Agency: M/s Critical Mineral Trackers]

- a) The project was approved in the 39th EC Meeting held on 24.01.2025. The Sanction Order was issued on 10.02.2025 with timeline of 10 months up to 09.12.2025 and approved cost of ₹ 60.01/- Lakh.
- b) M/s Critical Mineral Trackers briefed about the progress of work in the project. The agency also requested change from outsourced drilling to inhouse drilling & approval for respective changes in the cost of the project. Block boundary points were also changed from 4 to 6 numbers.

- c) The TCC-II advised the agency to complete the project as per the given timeline. The committee also agreed for the change from outsourced drilling to inhouse drilling & change in block boundary points in the project.

Recommendations of TCC-II

The committee recommends the proposal for approval of EC for the change from outsourced drilling to in-house drilling in the project with revised cost of ₹68.76 Lakh against approved cost of ₹60.01 Lakh as per annexure XI.

Agenda 9.3.18 Reconnaissance Survey (G4) for Bauxite, Ga, V, Ti & REE in Nadapa area Kachchh District, Gujarat

[Implementing Agency: M/s Critical Mineral Trackers]

- a) The project was approved in the 39th EC Meeting held on 24.01.2025. The Sanction Order was issued on 10.02.2025 with timeline of 10 months up to 09.12.2025 and approved cost of ₹ 54.0/- Lakh.
- b) M/s Critical Mineral Trackers briefed about the progress of work in the project and stated that the REE values obtained from chemical analysis are not so encouraging.
- c) The TCC-II advised the agency to complete the project as per the given timeline.

Recommendations of TCC-II

The committee advised the agency to complete the project as per the given timeline.

Agenda 9.4: Cost Evaluation of New Project proposals

The recommendations of the TCC-II of NMET for cost evaluation of new proposals are included in the recommendation of respective agenda.

Agenda 9.5: Project Evaluation for In-Principle Approval

Agenda 9.5.1 Reconnaissance survey (G4) for REE and associated minerals in Pastar Block, Alirajpur District, Madhya Pradesh

[Implementing Agency: M/s Critical Mineral Trackers]

- a) The proposed exploration block of 94.00 sq. km. area, falls in Survey of India Toposheet number 46J/7 in parts of Alirajpur District, Madhya Pradesh.
- b) M/s Critical Mineral Trackers informed that the block has been proposed on the basis of study of GSI reports in and around the proposed area.
- c) As per the comments received from GSI, the proposed block is overlapping (\approx 50%) with the already explored block of GSI in G4 stage of exploration. Also, previous work of GSI does not indicate any potential in the proposed block.
- d) The TCC-II opined that the proposed block is not promising for REE exploration as per the recommendations of GSI's report.

Recommendations of TCC-II

The committee does not agree for in-principle-approval of the proposal.

Agenda 9.5.2 Reconnaissance Survey (G4) for PGE and REE for, Rongpi Block, East Karbi Anglong, Assam

[Implementing Agency: M/s Eartnenviro Lab Private Limited]

- a) The proposed exploration block of 121.00 sq. km area, falls in Survey of India Toposheet number 83F/8 & 83F/12 in parts of East Karbi Anglong, Assam.
- b) M/s Eartnenviro Lab Private Limited informed that the block has been proposed on the basis of study of Mineral Map and Lithology Map of Assam. Based on this study Porphyritic Granite may be the host rock for PGE and REE.
- c) As per the comments received from GSI, the proposed block is overlapping (≈ 4 sq. km.) with the already explored block of GSI in G4 stage of exploration. Also, as per the comments received from AMD, there is ≈ 6 sq. km. overlap of the proposed block with exploration block of AMD.
- d) The TCC-II opined that geochemical maps of the area to be shown for the proposed block for better representation. Apart from consultation of GSI reports, field visit & few samplings by the agency itself, may be done for identification of blocks for G4 stage exploration. Fresh proposal may be submitted to NMET for In-Principle Approval, excluding the overlapping areas which are already explored.

Recommendations of TCC-II

The committee does not agree for in-principle-approval of the proposal.

Agenda 9.5.3 Reconnaissance Survey (G4) for Limestone, Sailam Block, Aizawl district, Mizoram

[Implementing Agency: M/s Eartnenviro Lab Private Limited]

- a) The proposed exploration block of 53.00 sq. km area, falls in Survey of India Toposheet number 84A/15 in parts of Aizawl district, Mizoram.
- b) M/s Eartnenviro Lab Private Limited informed that the block has been proposed on the basis of presence of sandstone, shale with fossiliferous Limestone in the area. Eartnenviro Lab Pvt. Ltd. have also observed the Limestone exposure in the area. Many Limestone Mines are being operated in the nearby Assam and Meghalaya State.
- c) There are no negative comments from GSI & MECL. Comments from State Government were pending on the day of this meeting.
- d) The TCC-II opined that the comments from State Government is essential for exploration of limestone in Mizoram.

Recommendations of TCC-II

The committee does not agree for in-principle-approval of the proposal.

Agenda 9.5.4 Reconnaissance survey (G4) for wollastonite and associated minerals in Kotra block of Ajmer District, Rajasthan

[Implementing Agency: M/s Envirogreen Consultants (India) Private Limited]

- a) The proposed exploration block of 14.00 sq. km. area, falls in Survey of India Toposheet number 45J/4 & 45J/8 in parts of Ajmer District, Rajasthan.
- b) M/s Envirogreen Consultants (India) Private Limited informed that some existing mines of Wollastonite mineral are running in and surrounding area.
- c) As per the comments received from GSI, there is a complete overlap of the proposed block with already explored G4 block of GSI in FS 2021-22.

Recommendations of TCC-II

The committee does not agree for in-principle-approval of the proposal.

Agenda 9.5.5 Reconnaissance survey (G4) for wollastonite and associated minerals in Kalesara block of Ajmer District, Rajasthan

[Implementing Agency: M/s Envirogreen Consultants (India) Private Limited]

- a) The proposed exploration block of 90.00 sq. km. area, falls in Survey of India Toposheet number 45J/4, 45J/8 in parts of Ajmer District, Rajasthan.
- b) M/s Envirogreen Consultants (India) Private Limited informed that there are presence of exposure of minerals and running Wollastonite mines in and surrounding areas.
- c) As per the comments received from GSI, there is an overlap ($\approx 50\%$) of the proposed block with GSI's G4 exploration block.
- d) Comments from DMG Rajasthan are still awaited for the proposed exploration block.
- e) The TCC-II opined that fresh proposal may be submitted to NMET for In-Principle Approval, excluding the overlapping areas which are already explored. Also, consent from DMG Rajasthan is required.

Recommendation of TCC-II

The committee does not agree for in-principle-approval of the proposal.

Agenda 9.5.6 Reconnaissance survey (G4) for wollastonite and associated minerals in Pratappura Bhinai block of Ajmer District, Rajasthan

[Implementing Agency: M/s Envirogreen Consultants (India) Private Limited]

- a) The proposed exploration block of 40.00 sq. km area, falls in Survey of India Toposheet number 45J/12 in parts of Ajmer District, Rajasthan.
- b) M/s Envirogreen Consultants (India) Private Limited informed that there are exposure of minerals and on-going existing mines for mineral Wollastonite in and surrounding areas.

Comment from DMG Rajasthan is still pending for the proposed exploration block.

Recommendations of TCC-II

The committee does not agree for in-principle-approval of the proposal.

Agenda 9.5.7 Reconnaissance survey (G4) for wollastonite and associated minerals in Roopnagar block of Ajmer District, Rajasthan

[Implementing Agency: M/s Envirogreen Consultants (India) Private Limited]



- a) The proposed exploration block of 30.00 sq. km area, falls in Survey of India Toposheet number 45J/4, 45J/8 in parts of Ajmer District, Rajasthan.
- b) M/s Envirogreen Consultants (India) Private Limited informed that there are exposure of minerals and on-going existing mines for mineral Wollastonite in and surrounding areas.
- c) Comments from DMG Rajasthan are still pending for the proposed exploration block.

Recommendation of TCC-II:

The committee does not agree for in-principle-approval of the proposal.

Agenda 9.5.8 Reconnaissance survey (G4) for wollastonite and associated minerals in Sardhana Dholiya block of Ajmer District, Rajasthan

[Implementing Agency: M/s Envirogreen Consultants (India) Private Limited]

- a) The proposed exploration block of 22.4 sq. km area, falls in Survey of India Toposheet number 45J/4, 45J/8 in parts of Ajmer District, Rajasthan.
- b) M/s Envirogreen Consultants (India) Private Limited informed that there are exposure of minerals and on-going existing mines for mineral Wollastonite in and surrounding areas.
- c) Comments from DMG Rajasthan are still pending for the proposed exploration block.

Recommendations of TCC-II

The committee does not agree for in-principle-approval of the proposal.

Agenda 9.5.9 Preliminary Investigation (G4) for Iron ore and associated Minerals around Lohariya and Karana wara Villages District Banswara, Rajasthan

[Implementing Agency: M/s APC Drilling & Construction Private Limited]

- a) The proposed exploration block of 3.50 sq. km area, falls in Survey of India Toposheet number 46I/1 in parts of Banswara District, Rajasthan.
- b) M/s APC Drilling & Construction Private Limited informed that During FS 2017–18, GSI carried out thematic mapping in Lohariya and Samlia (Banswara & Dungarpur), targeting Aravalli Supergroup and Mangalwar Group rocks. Surface signs of sulphide mineralization—malachite staining, limonitisation, pyrite, chalcopryrite, magnetite, and iron encrustations—were observed, with notable chalcopryrite, pyrrhotite, and fluorite near Chaturpura and Khadlai. Hematite mineralization was identified in marble near Lohariya village (~2 km x 100–150 m), with S- and Z-type minor folds and old workings. Fe₂O₃ values ranged from 60.08% to 64.01%. Cr, Ni, and Cu enrichment was noted in amphibolites; REE values were high in granite gneisses. In FS 2018–19, GSI confirmed this mineralization and delineated a 3.5 sq.km area (Lohariya–Karanawara) for iron ore exploration.
- c) As per the comments received from GSI, the area may be considered for G4 exploration work. Comments from DMG Rajasthan are still pending for the proposed exploration block.
- d) The TCC-II opined that the proposed area of 3.50 sq. km. is too small for G4 stage exploration work.

Recommendations of TCC-II

The committee does not agree for in-principle-approval of the project.

Agenda 9.5.10 Preliminary Exploration (G3) for Galena & Sphalerite in Phoponga Block, Goalpara, Assam

[Implementing Agency: M/s Novomine India Private Limited]

- a) The proposed exploration block of 2.15 sq. km area, falls in Survey of India Toposheet number 78J/12 in parts of Goalpara, Assam.
- b) M/s Novomine India Private Limited GSI identified the Phoponga Block as a promising Pb-Zn prospect based on NGCM results. Detailed 1:5000 scale mapping over 2 sq.km revealed high Zn (up to 13.17%) and Pb (up to 9.5%) values along a N60°W–S60°E shear zone. Geophysical surveys supported sulphide mineralization, and scout drilling (401.3 m in 4 holes) intersected mineralization in 3 holes. However, limited depth (~100 m) and coverage prevented resource estimation. Structurally controlled mineralization suggests deeper targets; hence, reappraisal with 1000 m of drilling (4–5 inclined boreholes) is proposed along a 1000 m strike length.
- c) As per the comments received from GSI, there is an overlap of 0.6 sq. km. area of the proposed block with GSI's exploration block.
- d) The TCC-II advised that the proposal should be modified excluding overlaps and resubmitted to NMET for In-Principle-Approval. Data from one nearby Borehole of GSI should be referred during preparation of the proposal.

Recommendations of TCC-II

The committee does not agree for in-principle-approval of the project.

Agenda 9.5.11 Reconnaissance survey (G4) of REE, RM & associated mineral in Panbari-Langpih-Umali Block in part of Seinduli pluton, West Khasi Hill District, Meghalaya & Kamrup District, Assam

[Implementing Agency: M/s Ocean Drilling and Exploration Private Limited]

- a) The proposed exploration block of 50.2 sq. km area, falls in Survey of India Toposheet number 78O/01 and 78O/02 in parts of West Khasi Hill District, Meghalaya & Kamrup District, Assam.
- b) M/s Ocean Drilling and Exploration Private Limited informed that During FS 2022–23, a G4 reconnaissance survey in the Seinduli Pluton (West Khasi Hills, Meghalaya) identified significant anomalous values of Tungsten (380–827.9 ppm), REEs (1067.8–2627.2 ppm + 172 ppm Y), and Scandium (341–585 ppm) from bedrock, soil, stream sediment, and pit samples. The mineralization is concentrated in the northern and northeastern parts of the block. Unexplored but geologically continuous extensions suggest further potential for REE, Sc, and W mineralization.
As per the comments received from GSI, there is an overlap of ≈ 6% area of the proposed block with GSI's exploration block. The TCC-II advised that the proposal should be modified excluding overlaps.

Recommendations of TCC-II

The committee does not agree for in-principle-approval of the project.

Note: For Agenda 9.5.12, 9.5.13, 9.5.14, 9.5.15 and additional agenda 9.5.18, the TCC-II, NMET, has decided that no new exploration projects for Glauconite and

Limestone will be considered at this time. Future actions will be determined based on the outcomes of previously approved projects.

Agenda 9.5.16 Preliminary Exploration (G-3) for Copper, Gold, and associated mineralization in Gudaliya-Mina-Ka-Khera block, Gudaliya- Devtalai-Belwa-Mansa belt, District Bhilwara, Rajasthan

[Implementing Agency: M/s Vardan Environet LLP]

- a) The proposed exploration block of 3.84 sq. km. area, falls in Survey of India Toposheet number 45O/3 in parts of Bhilwara District, Rajasthan.
- b) As per the comments received from GSI the proposed block has been carved out from GSI's G4 block.
- c) As per the comments from State Government (DMG, Rajasthan) the area is potential. According to the comments from Office of the Mining Engineer, Bhilwara Circle, the area falls in the Aravalli Hills.

Recommendations of TCC-II

The committee does not agree for in-principle-approval of the project.

Agenda 9.5.17 Preliminary exploration (G3) for Potash in Ramsara-Amarkot-Dalmir Khera Block, Fazilka District, Punjab

[Implementing Agency: M/s Ocean Drilling and Exploration Private Limited]

- a) The proposed exploration block of 10.30 sq. km area, falls in Survey of India Toposheet number 44J/4 in parts of Fazilka District, Punjab.
- b) M/s Ocean Drilling and Exploration Private Limited informed that GSI has done exploration for Potash in FS (2019-20 & 2020-21) in this area. During FS: 2019 20, borehole PFSBH 01 and in FS: 2020 21, borehole PFSBH 02 & borehole PFSBH 03, were drilled. Total resource of potash (K+) on the basis of analytical data of three boreholes (PFSBH 01, PFSBH 02 and PFSBH 03) is 409.32 million tonnes at 2% K+ cut off with average grade of 3.74 K ++%, total resource of potash (K ++) is 300.15 million tonnes at 3% K cut off with average grade of 4.18 K ++% and total resource of potash (K ++) on the basis of two boreholes (PFSBH 01 and PFSBH 03) is 194.58 million tonnes at 4% K cut off with average grade of 4.69 K ++% was estimated.
- c) The TCC-II advised drilling in 1600m spacing & no-core drilling for first 400m (overburden) depth. DPR to be submitted by the agency for G4 stage reconnaissance survey.

Recommendations of TCC-II

The committee agreed for in-principle-approval of the project for G4 stage reconnaissance survey.

Annexure -I

List of participants attended 9th meeting of Technical-cum-cost Committee (TCC-II) of NMET held on 29th & 30th May 2025 through video conferencing mode

S.no	Name	Designation	Email ID	Contact No	Organization
1	Shri. Pradeep Singh	Dy. Director General, GSI, Kolkata	ddg.it@gsi.gov.in	9810233957	Chairman, TCC -II
2	Shri. Sanjay Singh	Director, GSI, Western Region, Jaipur	sanjay.singh3@gsi.gov.in	9928860884	Member Secretary TCC-II
3	Shri. B S Jodha	Dy. Director General (Retired), GSI	jodha1961@gmail.com	9414023478	Member TCC-II
4	Shri. Sunil Kumar Vashisth	GM (Retired), Hindustan Zinc Limited, Udaipur	sunilhzl@gmail.com	982905923 6	Member TCC-II
5	Shri. Dilip Kanungo	Chief Ore Dressing officer, IBM	codo@ibm.gov.in	8237047897 9405147897	Member TCC-II
6	Shri. D.S.Jeere	Director, GSI, RSAS Bengaluru.	dattatreya.jeere@gsi.gov.in	-	Member TCC-II
7	Shri M.K.Patel	Dy. Director General (Retired), GSI	patelmk27@gmail.com	904001123 1	Member TCC-II
8	Dr.T.S.Sunil Kumar	Addl. Director (Retired), AMD	ts.sunilkumar@gmail.com	9502560153	Member TCC-II
9	Dr. Mrinal Kanti Mukherjee	Associate Professor, IIT-ISM Dhanbad	mrinal@iitism.ac.in	9431711148	Member TCC-II
10	Ms. Geetika Sharma	Deputy Secretary &HoD, NMET, Ministry of Mines	geetika.sharma@gov.in	-	Member TCC-II
11	Shri. Alok Kumar	Deputy Secretary (IFD), Ministry of Mines	alok.kumar@nic.in	-	Member TCC-II
12	Shri. Ravi Kumar Gupta	ED (Finance), HCL, Tamra Bhawan, 1, Ashutosh Chowdhury Avenue, Kolkata	ravi_g@hindustancopper.com	943327432 8	Member TCC-II
13	Shri. P.K. Maharana	GM (Finance), NALCO, NALCO Bhawan, P/1, Nagapalli, Bhubaneswar	pmaharana@rediffmail.com	850066950 0	Member TCC-II
14	Shri. Anoop Kumar	CAO, GSI, CHQ Kolkata, GSI	Anoop.kumar2@gsi.gov.in	-	Member TCC-II
15	Shri Balkrishan Vishwakarma	Manager Geology	Geology@maheshwaree.com/ balkrishan.v@maheshwaree.com	9651143638	Maheshwari mining Pvt Ltd
16	Ms. Moulipriya Bhakta	Deputy Manager Geology	moulipriya.bhakta@maheshwaree.com	7890631970	Maheshwari mining Pvt Ltd
17	Shri Bhola Prasad Yadav	Deputy Manager Geology	B.prasad@maheshwaree.in	8709723943	Maheshwari mining Pvt Ltd

18	Shri Sudev Mahato	Geologist	sudev.mahato@maheshwaree.in	8617655928	Maheshwari mining Pvt Ltd
19	Shri Anshul Yadav	Director/Partner	anshul@vardan.co.in	9953147268	Vardan Environet LLP
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68	Representative				DMG Rajasthan
69	Representative				PRB Infra Projects Private Limited
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Estimated cost for Reconnaissance Survey (G-4) for Bauxite and associated minerals in Ratnal Area, Districts Kachchh, Gujarat
[Area- 44 sq. km; Schedule timeline- 10 months; BH-9 nos; Depth : 30m each (9 BHs), Total Drilling-270m; Review- After 4 months]

Implementing Agency: MECL

S. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item -SI No.	Rates as per SoC			
					Qty.	Amount (Rs)	
A	GEOLOGICAL WORK (1:12500 scale)						
i	Charges for one Geologist- Field	day	1.3	11,000	150	16,50,000	
ii	Charges for one Geologist per- HQ	day	1.3	9,000	60	5,40,000	
iii	2 labours/ party (As per rates of Central Labour Commissioner)	day	5.7	541	300	1,62,300	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
iv	Sampling party days-1 Samplers Labour charge not included	day	1.5.2	5,100	99	5,04,900	
v	4 labours/ party (As per rates of Central Labour Commissioner)	day	5.7	541	396	2,14,236	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub Total- A					30,71,436	
B	PITTING AND TRENCHING						
i	Pitting	Cu m	2.1.2	3800	100	3,80,000	
	Sub Total- B					3,80,000	
C	LABORATORY STUDIES						
1	Chemical Analysis						

i	Primary & Check samples for Bauxite BRS/Chip/Channel/Trench/BH samples)						
	a. Primary Samples for 5 radicals i.e. Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , TiO ₂ & LOI	Nos	4.1.15a	4,200	360	15,12,000	BH-180, BRS-80, Pit-100
	b. For each additional trace elements viz. V, Sc & Ga	Nos	4.1.15b	1,263	360	4,54,680	BH-180, BRS-80, Pit-100
	c. External (10%) Check samples for 5 radicals i.e. Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , TiO ₂ & LOI	Nos	4.1.15a	4,200	36	1,51,200	
	d. External (10%) Check samples for each additional trace elements viz. V, Sc & Ga	Nos	4.1.15b	1,263	36	45,468	
2	Physical, Petrological, Mineralogical Studies						
i	Preparation of thin section	Nos	4.3.1	2,353	10	23,530	
ii	Complete petrographic study report	Nos	4.3.4	4,232	10	42,320	
iii	Preparation of polished section	Nos	4.3.2	1,549	10	15,490	
iv	Complete mineragraphic study report	Nos	4.3.4	4,232	10	42,320	
v	Digital Photographs	Nos	4.3.7	280	10	2,800	
vi	X-RD studies for mineral identification	Nos	4.5.1	4,000	10	40,000	
vii	ICP-AES/ICPMS (sequential technique) for 34 elements i.e. 16 other elements viz. Li, Ga, In, Be, Ge, Mo, Ni, Cr, Ta, W, Ba, Co, Rb, Sr, Zr, Nb ;16 REE viz. La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Sc, Y; 02 Actinides viz. U, Th.	Nos	4.1.14	7,731	30	2,31,930	
viii	Bulk density determination	Nos	4.10	3540	5	17,700	
ix	Combined determination of Trihydrate Alumina (THA-140°C), Monohydrate Alumina (MHA-240°C) & Reactive Silica	Nos	4.1.17a	6700	10	67,000	

	Sub Total- C					26,46,438	
D	DRILLING						
i	Drilling upto 300m (Soft Rock) (1 rigs)	m	2.2.1.1b	7,168	270	19,35,360	Phase-II (As per MOC Rates)
ii	Land / Crop Compensation	per BH	5.6	20,000	9	1,80,000	
iii	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	9	18,000	
iv	Transportation of Drill Rig & Truck associated per drill	Km	2.2.8	36	2,580	92,880	Certification in this regard is required to be provided (As per actuals)
v	Monthly Accommodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	3	1,50,000	
vi	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	1	2,50,000	
vii	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	1	2,50,000	
viii	Approach Road Making	Km	2.2.10a	22,020	3	66,060	Road Making will be considered as per the requirement and Road Making Charges will be reimbursed for max. 4 km.
x	Drill core preservation: One complete borehole plus mineralised cores of all the remaining Bhs	m	5.3	1,590	190	3,02,100	This amount will be reimbursed after successful delivery of the cores to concerned libraries/authorities
	Sub Total- D					32,44,400	
E	Total A to D					93,42,274	
F	Geological Report Preparation		5.2	For the projects having cost exceeding Rs. 50 lakhs but less than Rs.150 lakhs - A minimum of Rs. 2.5 lakhs or 5% of the value of work whichever is more		4,67,114	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.

G	Peer review Charges		As per EC decision			30,000	
H	Preparation of Exploration Proposal	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is lower		1,86,845	EA has to submit the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal.
I	Total Estimated Cost without GST					1,00,26,233	
J	Provision for GST (18% of I)					18,04,722	GST will be reimburse as per actual and as per notified prescribed rate
K	Total Estimated Cost with GST					1,18,30,955	
	or Say Rs. In Lakhs					118.31	
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.						




Annexure II B													
Time Schedule/ Action Plan for Reconnaissance Survey (G-4) for Bauxite and associated minerals in Ratnal Area, Districts Kachchh, Gujarat													
S. No.	Particulars	Months/ Days	1	2	3	4	Review	5	6	7	8	9	10
1	Camp Setting	months											
2	Geological Mapping & BR sampling	months											
4	Pitting/Trenching	cu.m											
5	Drilling (1 rig)	m											
6	Geologist days	days											
7	Sampling days, BRS, Pit & Core Sampling	days											
8	Camp winding	months											
9	Laboratory Studies	months											
10	Geologist days, HQ	days											
11	Report Writing with Peer Review	months											




Annexure III A

Estimated cost for Reconnaissance Survey (G-4) for Bauxite and associated minerals in Kukma Area, District Kachchh, Gujarat
[Area- 13.32 sq. km; Schedule timeline- 10 months; BH-5 nos; Drilling-150m (Depth 30m each); Review- After 4 months]

Implementing Agency: MECL

S. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item -SI No.	Rates as per SoC	Qty.	Amount (Rs)	
A	GEOLOGICAL WORK (1:12500 scale)						
i	Charges for one Geologist- Field	day	1.3	11,000	100	11,00,000	
ii	Charges for one Geologist per- HQ	day	1.3	9,000	60	5,40,000	
iii	2 labours/ party (As per rates of Central Labour Commissioner)	day	5.7	541	200	1,08,200	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
iv	Sampling party days-1 Samplers Labour charge not included	day	1.5.2	5,100	51	2,60,100	
v	4 labours/ party (As per rates of Central Labour Commissioner)	day	5.7	541	204	1,10,364	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub Total- A					21,18,664	
B	PITTING AND TRENCHING						
i	Pitting	Cu m	2.1.2	3800	50	1,90,000	
	Sub Total- B					1,90,000	
C	LABORATORY STUDIES						

1	Chemical Analysis						
i	Primary & Check samples for Bauxite BRS/Chip/Channel/Trench/BH samples)						
	a. Primary Samples for 5 radicals i.e. Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , TiO ₂ & LOI	Nos	4.1.15a	4,200	185	7,77,000	BH-100, BRS-35, Pit-50
	b. For each additional trace elements viz. V, Sc & Ga	Nos	4.1.15b	1,263	185	2,33,655	BH-100, BRS-35, Pit-50
	c. External (10%) Check samples for 5 radicals i.e. Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , TiO ₂ & LOI	Nos	4.1.15a	4,200	19	79,800	
	d. External (10%) Check samples for each additional trace elements viz. V, Sc & Ga	Nos	4.1.15b	1,263	19	23,997	
2	Physical, Petrological, Mineralogical Studies						
i	Preparation of thin section	Nos	4.3.1	2,353	10	23,530	
ii	Complete petrographic study report	Nos	4.3.4	4,232	10	42,320	
iii	Preparation of polished section	Nos	4.3.2	1,549	10	15,490	
iv	Complete mineragraphic study report	Nos	4.3.4	4,232	10	42,320	
v	Digital Photographs	Nos	4.3.7	280	10	2,800	
vi	X-RD studies for mineral identification	Nos	4.5.1	4,000	10	40,000	
vii	ICP-AES/ICPMS (sequential technique) for 34 elements i.e. 16 other elements viz. Li, Ga, In, Be, Ge, Mo, Ni, Cr, Ta, W, Ba, Co, Rb, Sr, Zr, Nb ; 16 REE viz. La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Sc, Y; 02 Actinides viz. U, Th.	Nos	4.1.14	7,731	20	1,54,620	
viii	Bulk density determination	Nos	4.10	3540	5	17,700	
ix	Combined determination of Trihydrate Alumina (THA-140°C), Monohydrate Alumina (MHA-240°C) & Reactive Silica	Nos	4.1.17a	6700	10	67,000	

	Sub Total- C					15,20,232	
D	DRILLING						
i	Drilling upto 300m (Soft Rock) (1 rigs)	m	2.2.1.1b	7,168	150	10,75,200	Phase-II (As per MOC rates)
ii	Land / Crop Compensation	per BH	5.6	20,000	5	1,00,000	
iii	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	5	10,000	
iv	Transportation of Drill Rig & Truck associated per drill	Km	2.2.8	36	2,580	92,880	Certification in this regard is required to be provided (As per actuals)
v	Monthly Accommodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	2	1,00,000	
vi	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	1	2,50,000	
vii	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	1	2,50,000	
viii	Approach Road Making	Km	2.2.10a	22,020	3	66,060	Road Making will be considered as per the requirement and Road Making Charges will be reimbursed for max. 4 km.
x	Drill core preservation: One complete borehole plus mineralised cores of all the remaining Bhs	m	5.3	1,590	110	1,74,900	This amount will be reimbursed after successful delivery of the cores to concerned libraries/authorities
	Sub Total- D					21,19,040	
E	Total A to D					59,47,936	
F	Geological Report Preparation		5.2	For the projects having cost exceeding Rs. 50 lakhs but less than Rs.150 lakhs - A minimum of Rs. 2.5 lakhs or 5% of the value of work whichever is more		2,97,397	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
G	Peer review Charges		As per EC decision			30,000	

H	Preparation of Exploration Proposal	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is lower		1,18,959	EA has to submit the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal.
I	Total Estimated Cost without GST					63,94,292	
J	Provision for GST (18% of I)					11,50,972	GST will be reimburse as per actual and as per notified prescribed rate
K	Total Estimated Cost with GST					75,45,264	
	or Say Rs. In Lakhs					75.45	
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.						




Annexure III B													
Time Schedule/ Action Plan for Reconnaissance Survey (G-4) for Bauxite and associated minerals in Kukma Area, District Kachchh, Gujarat													
S. No.	Particulars	Months/ Days	1	2	3	4	Review	5	6	7	8	9	10
1	Camp Setting	months											
2	Geological Mapping & BR sampling	months											
4	Pitting/Trenching	cu.m											
5	Drilling (1 rig)	m											
6	Geologist days	days											
7	Sampling days, BRS, Pit & Core Sampling	days											
8	Camp winding	months											
9	Laboratory Studies	months											
10	Geologist days, HQ	days											
11	Report Writing with Peer Review	months											




Annexure IV A

Estimated Cost for Preliminary Exploration (G3) for limestone in Vadekhan Block, Rajkot district, Gujarat
Timeline: 10 months

6.19 Sqkm (BH-10 nos, depth -10 m each, drilling-100 m {as per the geological profile})

Implementing Agency: M/s PRB Infra Projects Private Limited

Item	Item of Work	Item	SOR Sr No & Rates		Estimated Cost		Remarks
Sr No.	Item	Unit	Sr.No.	Rates	Qty.	Amount(Rs)	
A	Survey work						
1	DGPS Survey BH fixation and RL determination (10 BHP & 4 BP)	Per Point	1.6.2	19,200	14	268800.00	
2.	Topographic Survey with 4m contour interval & Geological Mapping1:4000 scale					0.00	
	A) Charges of 1 Surveyor for Geological mapping & Topogaphic survey	per day	1.6.1a	8,300	15	124500.00	
	B) 4 Labours for survey work;	day	5.7	541	60	32460.00	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	SubTotal- A					425760.00	
B	GEOLOGICALWORK (Mapping1:4000 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	35	315000.00	
iii	2 labours / party	day	5.7	541	300	162300.00	As per central labour commission
iv	Sampling-1Samplers	day	1.5.2	5,100	23	117300.00	

v	Sampling 4 labours/party	day	5.7	541	92	49772.00	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	SubTotal- B					1964372.00	
	Surface sampling						
i.	Pitting (Excavation of pit between 2.0m to 5.0m depth)		2.1.3	5330	15	79950.00	
C	LABORATORY STUDIES						
1	Chemical Analysis						
i	A. Chemical Analysis; Primary samples for Major oxides	Nos	4.1.15a	4,200	155	651000.00	BRS : 40, Pit : 15, Core samples : 100
	External check samples (10%)	Nos	4.1.15a	4,200	16	67200	
ii	Composite Samples For 12 radicals (CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , SO ₃ , P ₂ O ₅ , LOI, MnO ₂ , K ₂ O, Na ₂ O and Cl.) (Per BH 1 Sample)	Nos	4.1.1	8,157	15	122355.00	10 samples for BH and 5 for pits
2	Physical, Petrological, Mineralogical Studies					0.00	
i	XRD studies for identification of minerals (Random)	Nos	4.5.1	4000	0	0.00	

ii	ICP-OES/ICP-MS(sequential technique) Sample packagee for 34elements i.e.16 other elements viz. Li,Ga,In,Be,Ge,Mo,Cr,Ta,W,Ba,Co,Rb,Sr,Zr, Nb,Ni,: 18 REE viz. La,Ce,Pr,Nd,Sm,Eu, Gd,Tb,Dy,Ho,Er,Tm, Yb,Lu,Sc,Y:02 Actinides viz.U,Th. (Per BH 1 Sample)	Nos	4.1.14	7731	15	115965.00	Per BH 1 limestone sample and 5 smaples other lithologies.
vi	Digital Photographs	Nos	4.3.7	280	10	2800.00	
vi	Preparation of thin sections	Nos	4.3.1	2,353	10	23530.00	
vii	Complete petrographic report	Nos	4.3.4	4,232	10	42320.00	
3	Geotechnical Laboratory					0.00	
i	Bulk density	Nos	4.10	3540	5	17700.00	
	SubTotal- C					1042870.00	
D	DRILLING (In-house drilling) - To be decided after review						
i	Core Drilling (BH 10 Nos) x Each 10Mtr depth =Total 100 Mtrs	m	2.2.1.1b	7,168	100	716800.00	As per MOC rates
ii	Land/Crop Compensation (As Per Requirement)	Per BH	5.6	20,000	10	200000.00	
iii	Construction of concrete Pillar (10 BHP + 4 BP)	Per BH	2.2.7a	2,000	14	28000.00	
iv	Transportation of Drill Rig & associated (1Rig 2064 km.Up & Dn)	Km	2.2.8	36	2,064	74304.00	As per actuals
v	Monthly Accommodation Charges for drilling Camp	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 (Flat Terrain)	Km	2.2.10a	22,020	5	110100.00	As per actuals

ix	Core Preservation.	m	5.3	1,590	75	119250.00	
	SubTotal- D					1898454.00	
	TotalA to D					5331456.00	
G	Geological Report Preparation (A minimum of Rs. 2.5 lakhs or 5% of the total value of work whichever is more) - 5 reports	1No.	5.2			266572.80	
H	Peer review Charges	1No.		30000		30000.00	
I	Preparation of Exploration Proposal (2% of the Cost or Rs.5 Lakhs whichever is lower)	1No.	5.1			106629.12	
J	Total Estimated Cost without GST					5814607.92	
K	Provision for GST (18%)					1046629.43	
L	Total Estimated Cost with GST					6861237.35	
	Total Estimated Cost with GST (in lakhs)					68.61	
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.						

Time Schedule / Action Plan for Preliminary Exploration (G3) for limestone in Vadekhan Block, Rajkot district, Gujarat

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




Revised Cost of Estimated Cost for Reconnaissance Survey (G-4 Stage) for Limestone in and around Nanhwara Kymore Area in Katni District of Madhya Pradesh,
Area 22.52 sq. km, No.of BH: 09, Borehole depth range- 30/50 m; Schedule timeline- 10 months Review: After 3 Months

Implementing Agency: Engeotech Consultants

S. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Original Estimated Cost of the Proposal		Revised Estimated Cost of the Proposal		Remarks
			SoC-Item -SI No.	Rates as per SoC	Qty.	Total Amount (Rs)	Qty.	Total Amount (Rs)	
A	Geological Mapping (1:12500) & Other Geological Work								
1	Charges for Geologist man days for LSM and & sampling	day	1.2.b	11,000	90	9,90,000	90	9,90,000	2 geologists x 45 days each
2	Labours Charges; Base rate	day	5.7	526	180	94,680	180	94,680	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
3	Charges for Geologist per day (HQ) for data interpretation and Map preparation	day	1.2.a	9,000	60	5,40,000	60	5,40,000	
	Sub Total- A					16,24,680		16,24,680	
B	Survey work								
1	Charges of Surveyor for survey layout work & Block boundary demarcation	per day	1.6.1a	8,300	45	3,73,500	45	3,73,500	2 surveyors x 45 days each

2	Labours Charges; Base rate	day	5.7	526	180	94,680	180	94,680	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
3	DGPS Survey for boundary pillar, BH fixation & RL determination	Per Point	1.6.2	19,200	16	3,07,200	22	4,22,400	13 Boundary Pillars & 09 BH
	Sub-Total B					7,75,380		8,90,580	
C	Mineral Investigation								
1	Excavation of Pit upto 2.0 m depth	per cu.m.	2.1.2	3,800	18	68,400	18	68,400	3 pits (1x1x6)
	Sub-Total C					68,400		68,400	
D	DRILLING								
1	Drilling up to 300m (Soft Rock)	m	2.2.1.1a	7,168	110	7,88,480	290	20,78,720	8 BHx30M each & 1 BHx50M
2	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	3	6,000	9	18,000	
3	Transportation of Drill Rig & Truck associated per drill (1 rigs)	Km	2.2.8	36	300	10,800	300	10,800	As per actuals
4	Monthly Accommodation Charges for drilling Camp	month	2.2.9	50,000	2	1,00,000	2	1,00,000	
5	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	1	2,50,000	1	2,50,000	
6	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	1	2,50,000	1	2,50,000	
7	Road Making (Flat Terrain)	Km	2.2.10a	22,020	1	22,020	1	22,020	As per actuals
8	Drill Core Preservation	per m	5.3	1,590	110	1,74,900	150	2,38,500	
9	Sample Processing	per day	1.5.2	5,100	19	96,900	33	1,68,300	To be discussed

10	Labours Charges; Base rate	day	5.7	526	76	39,976	132	69,432	526*76+ 541*40=61,616 New rate will be applicable only on the difference in samples (earlier sanctioned samples will be charged on previous rates)
11	Land/Crop Compensation	per BH	5.6	20,000	3	60,000	9	1,80,000	
	Sub Total D					17,99,076		33,85,772	
E	Borehole Geophysical Logging & Sampling								
1	Logging & Sampling	per day	1.2.b	11,000	-		-	-	
	Sub Total E							-	
F	LABORATORY STUDIES								
	Chemical Analysis								
1	Geochemical Sampling-Surface samples (Bedrock/Channel /Soil/Stream sediment)	Nos	4.1.1	8,157	150	12,23,550	240	19,57,680	200 drilling and 40 BRS sample
	External Check samples (10 percent)	Nos	4.1.1	8,157			24	1,95,768	
	<u>Physical & Petrological Studies</u>								
2	Preparation of thin section	Nos	4.3.1	2,353	5	11,765	5	11,765	
3	Study of thin section	Nos	4.3.4	4,232	5	21,160	5	21,160	
4	Digital Photographs	Nos	4.3.7	280	10	2,800	10	2,800	
5	Bulk Density	Nos	4.10	3,540	5	17,700	5	17,700	
	Sub Total F					12,76,975		22,06,873	
G	Total A to F					55,44,511		81,76,305	

H	Geological Report Preparation	5 Hard copies with a soft copy	5.2	Exploration cost exceeding 50 lakh but less than 150 lakh: A Minimum of ₹2.5 lakh or 5% of the work whichever is more		2,50,000		4,08,815	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
I	Peer review Charges		As per EC decision			30,000		30,000	
J	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		1,20,000		1,63,526	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.
K	Total Estimated Cost without GST					59,44,511		87,78,646	
L	Provision for GST (18% of J)					10,70,012		15,80,156	GST will be reimburse as per actual and as per notified prescribed rate
M	Total Estimated Cost with GST					70,14,523		1,03,58,803	
				or Say Rs. In Lakhs		70.15		103.59	
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.




Annexure VI

Revised Cost of Estimated cost for Preliminary Exploration (G-3) for Iron, Manganese and associated minerals in Tindni Block, Districts: Jabalpur, State: Madhya Pradesh.
[Block area- 3.77 sq. km; Schedule timeline- 15 months; Review after 6 months & 12 months; 13 BHs, 1500m drilling]

Implementing Agency: MECL

S. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Approved Cost of the Proposal		Achieved/To be Achieved		Remarks
			SoC-Item -SI No.	Rates as per SoC					
					Qty.	Amount (Rs)	Qty	Amount	
A	GEOLOGICAL WORK (1:4000 scale) & Topographical survey								
i	Charges for one Geologist-Field	day	1.2	11,000	180	19,80,000	74	8,14,000	
ii	Charges for one Geologist per-HQ	day	1.2	9,000	30	2,70,000	30	2,70,000	
iii	2 labours/ party (As per rates of Central Labour Commissioner)	day	5.7	522	360	1,87,920	148	77,848	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
iv	Core Sampling -1 Samplers Labour charge not included	day	1.5.2	5,100	103	5,25,300	9	45,900	

v	4 labours/ party (As per rates of Central Labour Commissioner)	day	5.7	522	412	2,15,064	36	18,936	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
vi	Survey Party Days for topographical contour survey, block boundary and borehole points fixation	day	1.6. 1a	8,300	40	3,32,000	40	3,32,000	
vii	4 labours for surveyor	day	5.7	522	160	83,520	160	84,160	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub Total- A					35,93,804		16,42,844	
B	PITTING AND TRENCHING								
i	Trenching	Cu m	2.1.1	3330	-	-	-	-	
	Sub Total- B					-	-	-	
C	LABORATORY STUDIES								
1	Chemical Analysis								
i	Primary & Check samples for Iron-Manganese BRS/Chip/Channel/Trench/BH samples)								
	a. Primary Samples for Total Fe, Total Mn, Al ₂ O ₃ , P ₂ O ₅ , CaO, SiO ₂ and Acid insolubles	Nos	4.1.15a	4,200	750	31,50,000	72	3,02,400	Channel Samples-250, BH Samples-500

	b.External (10%) Check samples for Total Fe, Total Mn, Al ₂ O ₃ , P ₂ O ₅ , CaO, SiO ₂ and Acid insolubles	Nos	4.1.15a	4,200	75	3,15,000	7	29,400	
ii	Primary & Check samples for gold (BRS/Channel/Core)								
	a. Primary Samples for Au by Fire Assay	Nos	4.1.5a	2,380	-	-			
	b. External (10%) Check samples for Au by Fire Assay	Nos	4.1.5a	2,380	-	-			
2	Physical, Petrological, Mineralogical Studies								
i	Preparation of thin section	Nos	4.3.1	2,353	10	23,530	3	7,059	
ii	Complete petrographic study report	Nos	4.3.4	4,232	10	42,320	3	12,696	
iii	Preparation of polished section	Nos	4.3.2	1,549	10	15,490	2	3,098	
iv	Complete mineragraphic study report	Nos	4.3.4	4,232	10	42,320	2	8,464	
v	Digital Photographs	Nos	4.3.7	280	10	2,800	5	1,400	
vi	Bulk Density	Nos	4.10	3,540	5	17,700	-	0	
	Sub Total- C					36,09,160		3,64,517	
D	DRILLING								
i	Drilling upto 300m (Very Hard Rock) (2 rigs)	m	2.2.1.5a	12,650	1,500	1,89,75,000	-	0	
iii	Land / Crop Compensation	per BH	5.6	20,000	-	-	-	0	Amount will be reimbursed as per actuals or max. Rs. 20000 per BH with certification from local authorities
iv	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	13	26,000	-	0	

v	Transportation of Drill Rig & Truck associated per drill	Km	2.2.8	36	1,200	43,200	-	0	Certification in this regard is required to be provided
vi	Monthly Accommodation Charges for drilling Camp	month	2.2.9	50,000	4	2,00,000	-	0	
vii	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	2	5,00,000		0	
viii	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	2	5,00,000	-	0	
ix	Approach Road Making (Hilly Terrain)	Km	2.2.10b	32,200	10	3,22,000	-	0	
x	Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes by DGPS & Block boundary points	Nos	1.6.2	19,200	33	6,33,600	18	3,45,600	13 Boreholes+20 Block boundary points
xi	One complete borehole plus mineralised cores of all the remaining Bhs	m	5.3	1,590	900	14,31,000	-	0	This amount will be reimbursed after successful delivery of the cores to concerned libraries/authorities
	Sub Total- D					2,26,30,800		3,45,600	
E	Total A to D					2,98,33,764		23,52,961	
F	Geological Report Preparation		5.2	For the projects having cost exceeding Rs. 150 lakhs but less than Rs. 300 lakhs - A minimum of Rs. 7.5		8,95,013		1,50,000	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.

				lakhs or 3% of the value of work whichever is more					
G	Peer review Charges		As per EC decision			30,000		30,000	
H	Preparation of Exploration Proposal	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is lower		5,00,000		47,059	EA has to submit the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal.
I	Total Estimated Cost without GST					3,12,58,777		25,80,020	
J	Provision for GST (18% of I)					56,26,580		4,64,404	GST will be reimburse as per actual and as per notified prescribed rate
K	Total Estimated Cost with GST					3,68,85,357		30,44,424	
	or Say Rs. In Lakhs					368.85		30.44	
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.



Annexure VII

Revised Cost of Estimated cost for Preliminary Exploration (G-3) for Iron- PGE and associated minerals in Chitrangi Block, Districts: Singrauli, State: Madhya Pradesh.

[Block area- 21.00 sq. km; Schedule timeline- 14 months; BH-10 nos; Drilling- 800m; Review- 6 months]

Implementing Agency: MECL

S. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Approved Cost of the Proposal		Achieved/To be achieved		Remarks
			SoC-Item -SI No.	Rates as per SoC					
					Qty.	Amount (Rs)	Qty.	Amount (Rs)	
A	GEOLOGICAL WORK (1:4000 scale) & TOPOGRAPHICAL SURVEY								
i	Charges for one Geologist-Field	day	1.2	11,000	150	16,50,000	120	13,20,000	
ii	Charges for one Geologist per-HQ	day	1.2	9,000	40	3,60,000	40	3,60,000	
iii	2 labours/ party (Rs 504/day/labour) (As per rates of Central Labour Commissioner)	day	5.7	522	300	1,56,600	240	1,26,240	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
iv	Sampling party days-1 Samplers Labour charge not included	day	1.5.2	5,100	62	3,16,200	16	81,600	
v	4 labours/ party (Rs 504/day/labour) (As per rates of Central Labour Commissioner)	day	5.7	522	248	1,29,456	64	33,664	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or

									respective State Govt. whichever is higher
vi	Survey Party Days for topographical contour survey, block boundary and borehole points fixation	day	1.6. 1a	8,300	40	3,32,000	40	3,32,000	
vii	4 labours for surveyor	day	5.7	522	160	83,520	160	84,160	
	Sub Total- A					30,27,776		23,37,664	
B	PITTING AND TRENCHING								
i	Trenching	Cu m	2.1.1	3330	-	-			
	Sub Total- B					-			
C	LABORATORY STUDIES								
1	Chemical Analysis								
i	Primary & Check samples for Iron-PGE & associated minerals BRS/Chip/Channel/Trench/BH samples)								
	a. Primary Samples for PGE (ICP-MS, Ni-S fire Assay)	Nos	4.1.5d	11,800	25	2,95,000	18	2,12,400	Surface Samples-120, Trench Samples-60, BH Samples-20
	b.External (10%) Check samples for PGE	Nos	4.1.5d	11,800	3	29,500	2	21,240	
	c. Primary samples Ni, Cr, Co, Cu	Nos	4.1.7a	2,506	-	-	-	-	Surface Samples-50, Trench Samples-20, BH Samples-20
	d.External (10%) Check samples for Ni, Cr, Co, Cu	Nos	4.1.7a	2,506	-	-	-	-	
	e. Primary Samples for Iron	No.	4.1.15a	4,200	400	16,80,000	100	4,20,000	Surface Samples-20, Trench Samples-0, BH Samples-600
	f.External (10%) Check samples for Iron	No.	4.1.15a	4,200	40	1,68,000	10	42,000	

ii	Primary & Check samples for gold (BRS/Channel/Core)							-	
	a. Primary Samples for Au by Fire Assay	Nos	4.1.5a	2,380	25	59,500	12	28,560	Selective samples (BRS-10, Trench-10, BH-30)
	b.External (10%) Check samples for Au by Fire Assay	Nos	4.1.5a	2,380	3	5,950	1	2,856	
2	Physical,Petrological, Mineralogical Studies							-	
i	Preparation of thin section	Nos	4.3.1	2,353	10	23,530	8	18,824	
ii	Complete petrographic study report	Nos	4.3.4	4,232	10	42,320	8	33,856	
iii	Preparation of polished section	Nos	4.3.2	1,549	10	15,490	8	12,392	
iv	Complete mineragraphic study report	Nos	4.3.4	4,232	10	42,320	8	33,856	
v	Digital Photographs	Nos	4.3.7	280	10	2,800	8	2,240	
vi	Estimation of Major oxides by XRF technique (Whole Rock Analysis)	Nos	4.1.15a	4,200	-	-			
vii	Analysis of rock sample for determination of a package by 34 elements by ICPMS (Trace element studies)	Nos	4.1.14	7,731	-	-			
viii	EPMA studies	per hour	4.4.1	8,540	-	-			Outsource component
ix	SEM studies	per hour	4.4.2	2,940	-	-			Outsource component
x	Operational Charge = (viii+ix) X 10%		6.0 (i)	10% of total outsourced Cost in case of total ousouce cost up to 50 lakh	-	-			
xi	Bulk Density	Nos	4.10	3540	5	17,700			
	Sub Total- C					23,82,110		8,28,224	
D	DRILLING								

i	Drilling upto 300m (Very Hard Rock) (1 rigs)	m	2.2.1.4b	12,420	600	74,52,000		-	
ii	Land / Crop Compensation	per BH	5.6	20,000	10	2,00,000		-	
iii	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	10	20,000		-	
iv	Transportation of Drill Rig & Truck associated per drill	Km	2.2.8	36	2,600	93,600		-	Certification in this regard is required to be provided
v	Monthly Accommodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	4	2,00,000		-	
vi	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	2	5,00,000		-	
vii	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	2	5,00,000		-	
viii	Approach Road Making (Hilly Terrain)	Km	2.2.10b	32,200	10	3,22,000		-	Road Making will be considered as per the requirement and Road Making Charges will be reimbursed for max. 4 km.
ix	Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes by DGPS	Nos	1.6.2	19,200	16	3,07,200	6	1,15,200	10 Boreholes+ 4 Block Boundary points
x	One complete borehole plus mineralised cores of all the remaining Bhs	m	5.3	1,590	330	5,24,700			This amount will be reimbursed after successful delivery of the cores to concerned libraries/authorities
	Sub Total- D					1,01,19,500		1,15,200	
E	Total A to D					1,55,29,386		32,81,088	

F	Geological Report Preparation		5.2	For the projects having cost exceeding Rs. 150 lakhs but less than Rs. 300 lakhs - A minimum of Rs. 7.5 lakhs or 3% of the value of work whichever is more		7,50,000		1,64,054	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
G	Peer review Charges		As per EC decision			30,000		30,000	
H	Preparation of Exploration Proposal	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is lower		3,10,588		65,622	EA has to submit the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal.
I	Total Estimated Cost without GST					1,66,19,974		35,40,764	
J	Provision for GST (18% of I)					29,91,595.27		6,37,338	GST will be reimburse as per actual and as per notified prescribed rate
K	Total Estimated Cost with GST					1,96,11,568.99		41,78,102	
	or Say Rs. In Lakhs					196.12		41.78	
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.								

Aug 1950

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Annexure VIII													
Revised Cost of Estimated Cost for Preliminary Exploration (G3 stage) for Limestone in Northwest of Boro Lakhindong Blork, Dima- Hasao district, Assam													
Timeline : 12 months , Review 6 months , BH : 5 nos., BH m: 500m; Total area: 4.82 sq km													
Implementing Agency: MMPL													
Approved Cost							Seeking to ammend the cost						
			Rates as per NMET		Estimated Cost of the			Rates as per NMET		Estimated Cost of the			
			SoC 2020-21		Proposal			SoC 2020-21		Proposal			
S. No.	Item of Work *	Unit *	SoC-	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs)	Item of Work *	SoC-	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs)	Remarks	
			Item No.			(a*b)		Item No.			(a*b)		
			*					*					
1	Geological Mapping (on 1:4000) (4.82 sq km)						Geological Mapping (on 1:4000) (4.82 sq km)						
a	Charges for Geologist in field (without labourer)	per day per Geologist	1.2.b	11,000	120	1320000	Charges for Geologist in field (without labourer)	1.2.b	11,000	120	1320000		
c	Wages for 2 labourers for geologist	per day	5.7	504	240	120960	Wages for 2 labourers for geologist	5.7	504	240	120960	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher	
2	Land/Crop compensation (as per actual)	per Borehole	5.6	20000	5	100000	Land/Crop compensation (as per actual)	5.6	20000	5	100000	Amount will be reimburse as per actuals or max. Rs. 20000 per BH with certification from local authorities	
3	Geochemical sampling (Bedrock sampling)	50 Nos	-	-	-	-	Geochemical sampling (Bedrock sampling)	-	-	-	-		
5	Survey work					0	Survey work				0		
a	Surveyor Charges (without labourer)	per day	1.6.1a	8300	30	249000	Surveyor Charges (without labourer)	1.6.1a	8300	30	249000		

b	Labour(4nos) charges for survey work	per day	5.7	504	120	60480	Labour(4nos) charges for survey work	5.7	504	120	60480	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
6	Technological Survey					0	Technological Survey				0	
a	Trenching	per cu m	2.1.1	0	0	0	Trenching	2.1.1	0	0	0	
b	Drilling	per m in soft rock	2.2.1.4b	6775	500	3387500	Drilling	2.2.1.4b	6775	500	3387500	As per MoC
c	Borehole pillaring (construction of concrete pillar) 12 inches x12 inches x 30 inches	per borehole	2.2.7a	2000	5	10000	Borehole pillaring (construction of concrete pillar) 12 inches x12 inches x 30 inches	2.2.7a	2000	5	10000	
d	Transportation of Drill Rig and truck(to and from Headquarters or Previous drill site)	per km	2.2.8	36	2290	82440	Transportation of Drill Rig and truck(to and from Headquarters or Previous drill site)	2.2.8	36	2290	82440	Certification in this regard is required to be provided (Raniganj to Boro Lakhindong and back)
e	Drilling camp setting cost	per drill	2.2.9a	250000	1	250000	Drilling camp setting cost	2.2.9a	250000	1	250000	
f	Drilling camp winding cost	per drill	2.2.9a	250000	1	250000	Drilling camp winding cost	2.2.9a	250000	1	250000	
g	Monthly accommodation charges for drilling camp	per Month	2.2.9	50000	3	150000	Monthly accommodation charges for drilling camp	2.2.9	50000	3	150000	
h	Approach road making to drill site (as oer actual)	per Km	2.2.10a	22020	5	110100	Approach road making to drill site (as oer actual)	2.2.10a	22020	5	110100	Road Making will be considered as per the requirement and Road Making Charges will be reimbursed later
	Sampler			5100	70	357000	Sampler		5100	70	357000	
	Labour(4nos)			504	280	141120	Labour(4nos)		504	280	141120	
	total					6588600	total				6588600	

A	north eastern state: 3.35 times of normal SoC rate					22071810	north eastern state: 3.35 times of normal SoC rate				22071810	
	charges for geologist at head quarters	perday	1.2a	9000	45	405000	charges for geologist at head quarters	1.2a	9000	45	405000	
B	LABORATORY STUDIES											
	complete analysis for limestone	Nos	4.1.16	3,000	500	1500000	complete analysis for limestone BH core samples	4.1.9	2,900	500	1450000	
	complete analysis for limestone (10% external check	Nos	4.1.16	3,000	50	150000	complete analysis for limestone Bedrock sample	4.1.9	2,900	50	145000	
	petrochemical Studies (PCS)	Nos	4.1.15a	4200	10	42000	petrochemical Studies (PCS)	4.1.15a	4200	10	42000	
	Check sample (10% external)	Nos	4.1.16	3,000	50	150000	Check sample (10% external BRS and BH-Core samples	4.1.9	2,900	55	159500	
	preparation of thin sections	per sample	4.3.1	2,353	5	11765	preparation of thin sections	4.3.1	2,353	5	11765	
	study of thin section	per sample	4.3.4	4,232	5	21160	study of thin section	4.3.4	4,232	5	21160	
	bulk density	per sample	4.8.1	1,605	3	4815	bulk density	4.8.1	1,605	3	4815	
	drill core preservation	per sample	5.3	1,590	500	795000	dril core preservation	5.3	1,590	500	795000	
	Total E					3079740	Total B				3034240	
	Total A +B					2,51,51,550	Total A + B				2,51,06,050	
G	Geological Report Preparation	5 Hard copies with a soft copy	5.2	ii		754547	Geological Report Preparation	5.2	ii		753181.5	
H	Peer review Charges		As per EC decision	30,000	1	30,000	Peer review Charges	As per EC decision	30,000	1	30,000	

I	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		503031	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is less		500000		
J	Total Estimated Cost without GST					2,64,39,128	Total Revised Estimated Cost without GST					2,63,89,232	
K	Provision for GST (18% of J)					4759043.04	Revised Provision for GST (18% of J)					4750061.67	
L	Total Estimated Cost with GST					3,11,98,171	Total Revised Estimated Cost with GST					3,11,39,293	
				Rs. In Lakhs	311.9817104	Revised Rs. In Lakhs					311.3929317		
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.												




Revised Cost of Estimated cost for Reconnaissance Survey (G4) for Graphite in Ranibandh Area, Bankura, West Bengal

Total area: 16 sq km, Period of Completion: 12 months BH: 5 nos. review: after 6 months

Implementing Agency: MMPL

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Revised Estimated cost		Remarks
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	Revised Qty.	Revised Total Amount	
A	Geological Mapping Other Geological Work & Surveying								
	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. b	11,000	120	13,20,000	120	1320000	1:12,500 scale map modification of 14sq km = 60Days 1:4000 scale map of 3 sq km area = 60 Days During Drilling=60 Days
ii	b. Labours Charges; Base rate	day	5.7	504	240	1,20,960	240	120960	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	1.2. a	9,000	60	5,40,000	60	540000	
	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	34	1,73,400	34	173400	

	e. Labours (4 Nos)	day	5.7	504	136	68,544	136	68544	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub Total- A					22,22,904		22,22,904	
B	Ground Geophysical Survey								
1	IP. Induced Polarization (I.P) cum Resistivity S.P and Magnetic (30 Lkm)	8-10 Line Km	3.3a	29,600	3	88,800	3.5	103600	
3	Geophysicist party days (Field)	per day	3.18b	11,000	-	-		0	
4	c. Labours Charges(2 nos)	day	5.7	504	-	0		0	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
5	Geophysicist party days (HQ)	per day	3.18a	9,000	20	1,80,000	20	180000	
	Sub Total- B					2,68,800		2,83,600	
C	Survey work								
a	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.6.2	19,200	5	96000	6	115200	
b	Charges of Surveyor (1 party) for Geological 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	60480	4 labours per day
	Sub-Total C					4,05,480		4,24,680	

D	Trenching/Pitting								
	a) Excavation of Trenches	per cu.m	2.1.1	3,330	100	333000	139.1	4,63,203	
E	DRILLING (after review)								
1	Drilling up to 500m (Medium Hard Rock)	m	2.2.1.3b	10,908	500	54,54,000	450	49,08,600	
2	Borehole deviation Survey by Multishot Camera	m	2.2.6	330	500	1,65,000	45	14850	
3	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	5	1,00,000	6	120000	
4	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	5	10,000	6	12000	
5	Transportation of Drill Rig & Truck associated per drill (2 rigs)	Km	2.2.8	36	400	14,400	400	14400	
6	Monthly Accommodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	2	1,00,000	2	100000	
7	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	1	2,50,000	1	250000	
8	Drilling Camp Winding up Cost	Nos	2.2.9a	2,50,000	1	2,50,000	1	250000	
9	Road Making (Flat Terrain)	Km	2.2.10a	22,020	5	1,10,100	5	110100	
10	Drill Core Preservation	per m	5.3	1,590	300	4,77,000	200	318000	
	Sub Total E					69,30,500		60,97,950	
F	Borehole Geophysical Logging	5 Bhs of 350m 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							
	d. Proximate Analysis for Graphite	Nos	4.1.16	3,000	50	1,50,000	83	249000	quantum is including BRS and Channel/Groove Both
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							
	d. Proximate Analysis for Graphite	Nos	4.1.16	3,000	5	15,000	8	24000	
iii)	Trench & Check Samples from Trench								
	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							
	d. Proximate Analysis for Graphite	Nos	4.1.16	3,000	50	1,50,000	47	141000	
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							
	d. Proximate Analysis for Graphite	Nos	4.1.16	3,000	5	15,000	5	15000	
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	4.1.14	7,731	50	3,86,550	50	386550	
	c. For PGE	Nos							
	d. Proximate Analysis of Graphite	Nos	4.1.16	3,000	100	3,00,000	104	312000	
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							
	d. Proximate Analysis for Graphite	Nos	4.1.16	3,000	10	30,000	10	30000	
2	Physical & Petrological Studies								

i	Preparation of thin section	Nos	4.3.1	2,353	10	23,530	10	23530	
ii	Study of thin section	Nos	4.3.4	4,232	10	42,320	10	42320	
iii	Preparation of polish section	Nos							
iv	study of polished section	Nos							
v	Digital Photographs	Nos	4.3.7	280	10	2,800	10	2800	
vi	Whole Rock Analysis	Nos	4.1.15a	4,200	10	42,000	10	42000	
vii	Sp. Gravity	Nos	4.8.1	1,605	5	8,025	5	8025	
	SEM Studies	per hour							
viii	EPMA studies	per hour							
	Sub-Total G					11,65,225		12,76,225	
H	Total A to G					1,13,25,909		1,07,68,562	
I	Geological Report Preparation	5 Hard copies with a soft copy	5.2		1.00	5,66,295		5,38,428	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	1	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		2,26,518		2,15,371	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					1,21,48,723		1,15,52,361	Total cost is reduced from 143.35 Lakhs to 136.78 Lakhs
M	Provision for GST (18%)					21,86,770		20,79,425	
N	Total Estimated Cost with GST					1,43,35,493		1,36,31,786	
				or Say Rs. In Lakhs		143.35		136.32	

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.		

Annexure X											
Revised Cost of Estimated Cost for Reconnaissance Survey (G4) for Bauxite, Ga, V, Ti & REE in Reldi Moti area Kachchh District, Gujarat											
Name of the Exploration Agency – Critical Mineral Trackers, Hyderabad											
Total Area -7.95sq.km ; No of Boreholes- 4 , 120m Completion Time -10 months ,review: 4 months											
S.N o	Item of Work	Unit	Rates as per NMET SoC		Estimated Cost of the Proposal		Remarks		Revised Cost of the Proposal		Remarks
			SoC-Item-SI No.	Rates as per SOC	Qtm	Total Amount(Rs)		Rates as per SOC	Qtm	Total Amount(Rs)	
A	Geological Work										
1	Geological Mapping(1:12,500)& sampling – Geologist field-days	7.95Sq.km	1.2	11000	170	18,70,000	man days	11000	170	18,70,000	man days
2	Geologists(HQ)days, pre & post field interpretation 15 +20 days	One Geologist Per Day	1.2	9000	35	3,15,000	man days(cluding Remote sensing studies	9000	35	3,15,000	man days(cluding Remote sensing studies
3	Pitting-20nos each one size 1*1*1m(1 Cu.m each)	Per Cu.m	2.1.2	3800	20	76,000	20 cu.m	3800	20	76,000	20 cu.m

4	Trenching-5 nos, each one size 10*1*1(10 cu.m each)	Per Cu.m	2.1.1	3300	50	1,65,000	50 cu.m	3300	50	1,65,000	50 cu.m
5	sampler	45 days	1.5.2	5100	23	1,17,300	man days	5100	23	1,17,300	man days
6	Labour(2 labour) attached to sampler	90 labour days	5.7	526	92	48,392	labour days	526	92	48,392	labour days
7	Labour (100Field days) per team:2 workers : 100*4 for two geologist teams	Per Team of 2 Geologists	5.7	526	340	1,78,840	labour days	526	340	1,78,840	labour days
		(2*2=4)									
		Labour/Field workers									
	Sub-Total -A					27,70,532				27,70,532	
B	Survey Work:										
1	Surveyor: Fixation & connection of boundary points(4 nos),4 Bh by Total station/DGPS	One surveyor	1.6.2	19,200	8	1,53,600	Total 8 points		8	1,53,600	Total 8 points
	Sub-total-B					1,53,600				1,53,600	
C	Core Drilling (In-house)										
1	Scout drilling(coring) :4 points(each 30m deep) 4*30	Per meter	2.2.1.1b	7,168	120	8,60,160	120m soft rock-MoC rate	7168	120	8,60,160	120m soft rock-MoC rate
2	Construction of BH pillar(12"*12"*30")	Per pillar	2.2.7a		0	0	4pillars	2000	4	8,000	4pillars
3	**Mob & demob of drilling machine & BH shifting	1500km*2 =3000km	2.2.8		0	0	3000km	36	3000	1,08,000	3000km

4	Monthly accommodation charges for drilling camp	Rs50,000/month			0	0	one month	50,000	1	50,000	one month
5	Drilling camp setting cost	lumpsum	2.2.9a		0	0	Fixed cost	2,50,000	1	2,50,000	Fixed cost
6	Drilling camp winding cost	lumpsum	2.2.9b		0	0	fixed cost	2,50,000	1	2,50,000	fixed cost
7	Approach road making		2.2.10a		0	0	One km approx	22020	1	22,020	One km approx
8	Compensation for 4 Bhs		5.6		0	0	4 BHs	20,000	4	80,000	As per actuals
9	Drill core preservation in GI boxes	Per meter	5.3	1590	120	1,90,800	120m core	1590	120	1,90,800	90m core
	Sub total-C					10,50,960				18,18,980	
D	Laboratory Studies										
1	Trench Samples (5*5=25nos):by AAS method	First five radicals+2	4.1.7a &7b	4181	0	0	90 samples		0	0	90 samples
2	Pitting Sample: (20*1=20nos)-AAS method	First five radicals+2 radicals	4.1.7a &7b	4181	0	0	60 samples		0	0	60 samples
3	Core drilling Samples-4*60=180	First five radicals+2 radicals	4.1.7a &7b	4181	0	0	24 samples		0	0	24 samples
	Total depth 30m each, samples will be collected at every 0.5m interval.										
	AAS method										
	XRF-Major Oxide		4.1.15a	4200	143	6,00,600	Trench-70,pit-20,BH-40 (130+13)	4200	143	6,00,600	Trench-70,pit-20,BH-40 (130+13)
4	Analysis for REE(14 elements/radicals) by ICP-MS	14 elements/radicals	4.1.13	5380	36	1,93,680	33+3 check samples	5380	36	1,93,680	33+3 check samples
5	Combined determination of THA,MHA and Reactive silica		4.1.17a	6700	4	26,800	4 samples	6700	4	26,800	4 samples

6	Preparation of polished thin section	Per sample	4.3.2	1549	10	15,490	10 sections	1549	10	15,490	10 sections
7	Complete petrographic/ore microscopic/mineragraphic studies		4.3.4	4232	10	42,320	10 sections	4232	10	42,320	10 sections
8	XRD analysis for identification of minerals(random)	Per sample	4.5.1	4000	4	16,000	4 samples	4000	4	16,000	4 samples
	Sub-total-D					2,51,970	Actual Sub-Total is Rs.894,890 But sub-total shown in Approved Cost Sheet wrongly as 2,51,970			8,94,890	Rs894,890 but sub-total shown wrongly as 2,51,970
E	Surface Geophysical Survey		Not recommended								
1	Electrical resistivity	Per Station									
2	gravity surveys	Per station									
3	Geo Physicist Man days (Field Man-days)										
4	Geo Physicist Man days (HQ)										
	Sub-total-E										
	TOTAL (A+B+C+D)					42,27,062				56,38,002	
F	Preparation of Exploration Proposal (5 Hard copies with a soft copy)		5.1	2% of the project cost subject to a maximum of 5 lakhs	1	84,541	2% of the Project cost.		1	1,12,760	2% of the Project cost.
G	Geological Report		5.2			2,11,353				2,81,900	

	(5 Hard copies with a soft copy)			5% of the Project cost			5% of the Project Cost.				5% of the Project Cost.
	operational charges		6.0			86016				0	
	Tender process cost		2.3			17203				0	
	peer review					30,000				30,000	
	Additional Copy			1000	0	0			0	0	
	Project Cost without GST					46,56,175				60,62,662	
	18% GST					8,38,112				1091279	
	Total Project Cost					54,94,287				71,53,941	

CMT will deploy in-house drill machine(instead of outsourcing) in this block and hence the cost sheet is revised as agreed in review meeting held on 29th May,2025

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.

Annexure XI

Revised cost of Estimated Cost for Reconnaissance Survey (G4) for Bauxite, Ga, V, Ti & REE in Lakhond area, Kachchh District, Gujarat

Name of the Exploration Agency – Critical Mineral Trackers, Hyderabad

Total Area -6.12sq.km ; No of Boreholes- 4 ; Completion Time -10 months, Review: 4 months

S.No	Item of Work	Unit	Rates as per NMET SoC		Estimated Cost of the Proposal		Remarks	Rates as per NMET SoC		Revised Cost of the Proposal		Remarks
			SoC-Item-SI No.	Rates as per SOC	Qtm	Total Amount(Rs)		SoC-Item-SI No.	Rates as per SOC	Qtm	Total Amount(Rs)	
A	Geological Work											
1	Geological Mapping(1:25,000) & sampling – Geologist field-days	6.12	1.2	11000	150	16,50,000	man days	1.2	11000	150	16,50,000	man days
2	Geologists(HQ)days, pre & post field interpretation 15 +20 days	One Geologist Per Day	1.2	9000	35	3,15,000	man days(including Remote sensing studies)	1.2	9000	35	3,15,000	man days(including Remote sensing studies)
3	Pitting-20nos each one size 1*1*1m(1 Cu.m each)	Per Cu.m	2.1.2	3800	20	76,000	20 cu.m	2.1.2	3800	20	76,000	20 cu.m
4	Trenching-5 nos, each one size 10*1*1(10 cu.m each)	Per Cu.m	2.1.1	3300	50	1,65,000	50 cu.m	2.1.1	3330	50	1,66,500	50 cu.m
5	sampler	45 days	1.5.2	5100	23	1,17,300	man days	1.5.2	5100	23	1,17,300	man days

6	Labour(2 labour attached to sampler	90 labour days	5.7	526	92	48,392	labour days	5.7	526	92	48,392	labour days
7	Labour (100Field days) per team:2 workers : 100*4 for two geologist teams	Per Team of 2 Geologists (2*2=4) Labour /Field workers	5.7	526	300	1,57,800	labour days	5.7	526	300	1,57,800	labour days
	Sub-Total -A					25,29,492					25,30,992	
B	Survey Work:											
1	Surveyor: Fixation & connection of boundary points(6 nos),4 Bh by Total station/DGPS	One survey or	1.6.2	19,200	8	1,53,600	Total 8 points	1.6.2	19,200	10	1,92,000	Total 8 points (It should be 10 points)
	Sub-total-B					1,53,600					1,92,000	
C	Core Drilling (In-House)											
1	Scout drilling(coring) :4 points(each 30m deep) 4*30	Per meter	2.2.1.1b	7,168	120	8,60,160	120m,so ft rock,MOC rate	2.2.1.1b	7,168	120	8,60,160	120m,soft rock,MOC rate
2	Construction of BH pillar(12"*12"*30")	Per pillar	2.2.7a	2000	0	0	4 pillars	2.2.7a	2000	4	8,000	4 pillars

3	**Mob & demob of drilling machine & BH shifting	12km away from Reldimoti block	2.2.8	24	0	0	Lokhand is 12km away from reldimoti block	2.2.8	24	36	864	Lokhand is 12km away from reldimoti block
4	Monthly accommodation charges for drilling camp	Rs50,000/month		50,000	0	0	one month		50,000	1	50,000	one month
5	Drilling camp setting cost	lumpsum	2.2.9a	2,50,000	0	0	fixed cost	2.2.9a	2,50,000	1	2,50,000	fixed cost
6	Drilling camp winding cost	lumpsum	2.2.9b	2,50,000	0	0	fixed cost	2.2.9b	2,50,000	1	2,50,000	fixed cost
7	Approach road making		2.2.10a	22020	0	0	Approx. 5km	2.2.10a	22020	5	1,10,100	Approx.5km
8	Compensation for 4 BHs		5.6	20,000	0	0	4 BHs	5.6	20,000	4	80,000	4 BHs
9	Drill core preservation in GI boxes	Per meter	5.3	1590	120	1,90,800	120m core	5.3	1590	120	1,90,800	120m core
	Sub total-C					10,50,960					17,99,924	
D	Laboratory Studies											
1	Trench Samples (5*5=25nos):by AAS method	First five radical s+2,Ga,v,Ti,Sc,REE	4.1.7a &7b	0	90	0	90 samples	4.1.7a &7b	0	90	0	90 samples

2	Pitting Sample: (20*1=20nos)-AAS method	First five radical s+2,G a,v,Ti, Sc,RE E	4.1.7a &7b		60	0	60 samples	4.1.7a &7b		60	0	60 samples
3	Core drilling Samples-4*30=120 Total depth 30m each, samples will be collected at every 5m interval. AAS method	First five radical s+2,G a,v,Ti, Sc,RE E	4.1.7a &7b		24		24sampl es	4.1.7a &7b		24		24samples
	XRF-Major oxides		4.1.15a	4200	14 3	6,00,600	Trench: 50 horizont al.20 vertivcal ,pits:20, BHs:40(130+13 Check samples)	4.1.15a	4200	143	6,00,600	Trench:50 horizontal.20 vertivcal,pits:20,BHs :40(130+13 Check samples)
4	Analysis for REE(14 elements/radicals) by ICP-MS	14 eleme nts/rad icals	4.1.13	5380	36	1,93,680	pit- 20,Tren ch- 5,Bhs:8(33+3 chechk samples)	4.1.13	5380	36	1,93,680	pit-20,Trench- 5,Bhs:8(33+3 chechk samples)

5	Combined determination of THA,MHA and Reactive silica		4.1.17a	6700	4	26,800	4 samples	4.1.17a	6700	4	26,800	4 samples
6	Preparation of polished thin section	Per sample	4.3.2	1549	10	15,490	10 sections	4.3.2	1549	10	15,490	10 sections
7	Complete petrographic/ore microscopic/mineragraphic studies	per sample	4.3.4	4232	10	42,320		4.3.4	4232	10	42,320	
8	XRD analysis for identification of minerals(random)	Per sample	4.5.1	4000	4	16,000	4 samples	4.5.1	4000	4	16,000	4 samples
	Sub-total-D					8,94,890					8,94,890	
E	Surface Geophysical Survey		Not recommended					Not recommended				
1	Electrical resistivity	Per Station										
2	gravity surveys	Per station										
3	Geo Physicist Man days (Field Man-days)											
4	Geo Physicist Man days (HQ)											
	Sub-total-E					0					0	
	TOTAL (A+B+C+D)					46,28,942					54,17,806	

F	Preparation of Exploration Proposal			2% of the project cost subject to a maximum of 5 lakhs	1	92,579	2% of the Project cost.	5.1	2% of the project cost subject to a maximum of 5 lakhs	1	1,08,356	2% of the Project cost.
	(5 Hard copies with a soft copy)		5.1									
G	Geological Report			5% of the Project cost		2,31,447	5% of the Project Cost.	5.2	5% of the Project cost		2,70,890	5% of the Project Cost.
	(5 Hard copies with a soft copy)		5.2									
	Tender Process Cost					17203.2					0	
	Operational Charges					86016					0	
	peer review		30,000			30,000		30,000			30,000	
	Additional Copy			1000	0	0			1000	0	0	
	Project Cost without GST					50,86,187	Project Cost without GST					0
	18% GST					9,15,514	18% GST					0
	Total Project Cost					60,01,701	Total Project Cost					0
CMT will deploy in-house drill machine(instead of outsourcing) in this block and hence the cost sheet is revised as agreed in review meeting held on 29th May,2025												
Note :												
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.											
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.											
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.											

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




Timeline Extension for Ongoing Projects Approved / Recommended in the 9th Meeting of TCC-II

Annexure-XII

S. No.	Block/Project	Agency	Actual date of completion	Timeline Extension		Approval / Recommendation in 9 th TCC-II		
				Extended Timeline	Approving Authority	Timeline	Status	Remarks
1.	Preliminary Exploration (G3) for vanadium and titanium in Dandi-Onjal-Surwada Block in Navasari and Valsad Districts, Gujarat	M/s Geomarine Solutions Private Limited	11.03.2025	11.06.2025 (03 months)	5 th TCC-II	11.07.2025 (1 months)	Recommended to EC	For GR submission
2.	Reconnaissance Survey (G4) for Graphite and associated Minerals around Sonaghati, Amdol, Jharegaon and Bhayawari, District Betul, Madhya Pradesh	M/s GeoExpOre Private Limited	11.03.2025	11.06.2025 (03 months)	6 th TCC-II	11.08.2025 (02 months)	Recommended to EC	For completion of project
3.	Preliminary Exploration (G3) for Limestone in Lodhva Block, Gir Somnath District, Gujarat	CGM Gujarat	21.06.2025	---	---	31.12.2025 (06 months)	Recommended to EC	For completion of project
4.	Preliminary Exploration (G3) for Limestone in Matana Block, Gir Somnath District, Gujarat	CGM Gujarat	21.04.2025	---	---	31.12.2025 (08 months)	Recommended to EC	For completion of project
5.	Preliminary Exploration (G3) for Limestone in Simar Block, Gir Somnath District, Gujarat	CGM Gujarat	21.04.2025	---	---	31.12.2025 (08 months)	Recommended to EC	For completion of project
6.	Detailed Exploration (G3) for Limestone in Bolas Block, Gir Somnath District, Gujarat	CGM Gujarat	21.04.2025	---	---	31.12.2025 (08 months)	Recommended to EC	For completion of project


