

Ministry of Mines
National Mineral Exploration Trust
Minutes of 8th meeting of Technical-cum-Cost Committee -II (TCC-II)
held on 28th, 29th April & 2nd May 2025

The 8th 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 28th, 29th April & 2nd May 2025.

Members of TCC-II, NMET and representatives from Mineral Exploration and Consultancy Limited (MECL), CGM, Gujarat, DGM Mizoram, DMR Meghalaya, DGM Ladakh, Jharkhand Exploration and Mining Corporation Limited (JEMCL), M/s PRB Infra Projects Private Limited, M/s Mining Tech Consultancy Services Limited, M/s Ocean Drilling & Exploration Pvt. Ltd., M/s Vardan Environet LLP, M/s GeoExpOre Pvt. Ltd., M/s United Exploration India Pvt. Ltd. (UEIPL), M/s Maheshwari Mining Pvt. Ltd. (MMPL), M/s Geovale Services Private Limited, M/s Gemcokati Exploration Pvt. Ltd., M/s Envirogreen Consultants (India) Private Limited, M/s GEMS Projects Private Limited, M/s Enkay Enviro Services Pvt. Ltd., M/s Earthenviro Lab Private Limited, etc. have attended the meeting through video conferencing mode.

The list of participants is at Annexure-1.

Shri Pradeep Singh, DDG, GSI and Chairman, TCC-II, NMET warmly welcomed all TCC-II members and every participant representing various Notified Exploration Agencies (NEAs) and Notified Private Exploration Agencies (NPEAs).

Agenda 8.1 Technical Evaluation of New Project Proposals

Agenda 8.1.1 Preliminary Exploration (G3) for Bauxite and Associated Minerals in Nundhatad Block (5.12 sq. km), Kachchh District, Gujarat.

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

- a) The proposed exploration block of 5.12 sq. km. area, falls in Survey of India Toposheet number 41E/4 in parts of Kachchh district, Gujarat.
- b) MECL informed that CGM, Gujarat has carried out exploration in Kachchh basin for bauxite and identified several blocks for exploration of Bauxite based on their previous works. They have published the information of these blocks in Gujarat's Mineral Wealth booklet. CGM, Gujarat (via official email dated 14/11/2024) sent MECL a NOC approval to take up exploration in those blocks. The proposed Nundhatad Bauxite block (G-3 stage) is one of them. The lithology of the area includes Bauxite/Laterite associated with Deccan Trap Volcanics. The bauxites of Matanomadh formation have been formed by supergene alteration of the pyroclastic facies of Deccan basalts. It consists of ferruginous laterites which rests on the Deccan traps and, in turn, are covered by the Eocene Gypseous shale beds. In this area, the bauxite deposits are associated with the laterites. The bauxite has formed by the in-situ alteration of



underlying Deccan traps. Bauxite over basalt parent rock has higher titania compared to the bauxite over Khondalite - Charnockite.

- c) Ongoing projects for bauxite and associated minerals are in progress by MECL (in Julrai and Dhrang block) and other exploration agencies in the Matanomadh formation throughout the Kachchh district. MECL team also conducted field visit and identified bauxite associated with Laterite around the proposed block.
- d) MECL further informed that CGM, Gujarat has drilled 39 boreholes in the nearby areas out of which two (2) boreholes fall within the proposed block.

Recommendation TCC-II

The committee recommends the proposal for approval of EC for "Preliminary Exploration (G3) for Bauxite and Associated Minerals in Nundhatad Block (5.12 sq. km), Kachchh District, Gujarat" with an estimated cost of ₹125.11 Lakh (including GST) within the time schedule of 12 months and submission of the report as per Annexures 2A & 2B. The item will be reviewed after 6 months. Total 300 meterage of drilling will be done in 10 boreholes, subject to approval of TCC-II, NMET after first review of the project.

Agenda 8.1.2 Reconnaissance Survey (G4) for REE and associated Minerals in and around Dalimbari-Pipargaon Area (88.00 sq. km), West Karbi Anglong District, Assam

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

- a) As per the comments received from GSI the proposed area overlaps (15 sq. km) with the already explored G4 exploration block (2020) of GSI. In view of this TCC-II advised to exclude the overlapping area. So, the proposed exploration block has been modified and only 65.00 sq. km. area was proposed, which falls in Survey of India Toposheet number 83B/12 in parts of West Karbi Anglong District, Assam.
- b) MECL informed that, the area mostly comprises of younger granites (porphyritic granite, biotite granite, Alkali feldspar granite etc.), Nepheline syenite and pegmatites. Geologically, younger granites, Nepheline syenite and pegmatites are potential host of REE minerals. In this area, NGCM program of GSI has revealed anomalous concentration of Σ REE. A total 25 Nos. NGCM composite samples of stream sediment falls within the proposed block and the Σ REE+Sc+Y concentration varies from 74.46 ppm to 1876.80 ppm with an average of 691.70 ppm. There are 20 samples which shows Σ REE+Sc+Y concentration more than 500 ppm and 4 samples having more than 1000 ppm concentration. Further, BRS and PCS samples collected during the STM, show Σ REE+Sc+Y concentration varying from 104.84 ppm to 993.88 in 20 numbers of samples where 5 samples show concentration more than 500 ppm in younger intrusions, i.e, granitic and aplitic rocks. The geophysical survey during FSP 2019-2021 also indicates anomalous zones outside the Jashora alkaline complex which are having close gravity and magnetic signatures similar to that of Jashora alkaline complex.



- c) The TCC-II advised heavy mineral separation & magnetic separation to concentrate heavies/valuable minerals and to remove impurities. Mapping of exposed outcrops & regolith along with Pit sampling in high magnetic domains & BRS sampling were also suggested by the committee.

Recommendation TCC-II

The committee recommends the proposal for approval of EC for "Reconnaissance Survey (G-4) for REE & associated minerals in Pipargaon Area, West Karbi Anglong District, Assam" with an estimated cost of ₹517.96 Lakh (including GST) within the time schedule of 11 Months (01 month for obtaining NoC) and submission of the report as per Annexures 3A & 3B. The item will be reviewed after 6 months. Total 500 meterage of scout drilling will be done in 10 boreholes, with average depth of 50m. Auger drilling of total 150m in 30 boreholes with average depth of 5m will also be done.

Agenda 8.1.3 Reconnaissance Survey (G4) for REE and associated Minerals in and around Tengralansho Kathargaon Area (88.00 sq. km), West Karbi Anglong District, Assam.

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

- a) The proposed exploration block of 88.00 sq. km. area, falls in Survey of India Toposheet numbers 83B/12 in parts of West Karbi Anglong District, Assam.
- b) As per the comments received from GSI, the proposed block has an overlap (22 sq. km.) with already explored G4 block (2020) of GSI.
- c) The TCC-II advised to exclude the overlapping area from the proposed block. Additionally, the TCC-II noted that since the proposed G4 exploration for REE and associated minerals in the Pipargaon Area (agenda item 8.1.2), as mentioned above, is adjacent to the Tengralansho Kathargaon Area and falls within the same toposheet, initial exploration should be conducted only in the Pipargaon Area at the G4 level. Based on the positive outcomes of this project, the committee will then decide on conducting further Reconnaissance (G4) for REE and associated minerals in and around the Tengralansho Kathargaon Area.
- d) The Tengralansho Kathargaon Area as proposed will be kept reserved for MECL.

Recommendation TCC

The committee postponed the proposal until the results of the G4 Reconnaissance Survey for REE and associated minerals in the neighbouring Pipargaon Area, West Karbi Anglong District, Assam, are available.

Agenda 8.1.4 Reconnaissance Survey (G4) for REE and associated Minerals in Jaloda Area (78.87 sq. km), Chhotaudepur District, Gujarat

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

- a) The proposed exploration block of 78.87 sq. km. area, falls in Survey of India Toposheet numbers 46F/15 in parts of Chhotaudepur District, Gujarat.
- b) As informed by GSI, there is almost complete overlap of the proposed block area with previously explored GSI's G4 exploration block in FS 2019-20.
- c) The TCC-II opined that the proposed block cannot be recommended for Reconnaissance Survey (G4) for REE and associated minerals since the block has already been explored in G4 level.

Recommendation TCC

The committee does not recommend the proposal.

Agenda 8.1.5 Preliminary Exploration (G3) for Limestone in Indroi-Mandor Block, Gir Somnath District, Gujarat

[Implementing Agency: CGM Gujarat]

- a) The proposed exploration block of 10.19 sq. km. area, falls in Survey of India Toposheet numbers 41L/5 & 41L/9 in parts of Gir Somnath District, Gujarat.
- b) CGM Gujarat reported that drilling in nearby areas during 1984-85 and 1986-87 showed positive limestone results. The target area's lithology includes miliolitic limestone with minimal overburden, forming low ridges and mounds, making it easily minable. CGM Gujarat collected seven grab samples recently, with CaO% ranging from 47.67% to 54.88%.
- c) The TCC-II advised exclusion of two (2) boreholes from the proposal, as location of these boreholes were proposed very near to the block boundary.
- d) As per the comments received from GSI, the proposed area is promising for further limestone exploration.

Recommendation TCC

The committee recommends the proposal for approval of EC for "Preliminary Exploration for Limestone in Indroi-Mandor block, Gir Somnath District, Gujarat" with an estimated cost of ₹73.84 Lakh (including GST) within the time schedule of 8 Months and submission of the report as per Annexures 4A & 4B. The item will be reviewed after 4 months. Total 220 meterage of drilling will be done in 11 boreholes, with average depth of 20m.

Agenda 8.1.6 Preliminary Exploration (G3) for Limestone in Harnasa-Umbri Block, Gir Somnath District, Gujarat

[Implementing Agency: CGM Gujarat]

- a) The proposed exploration block of 9.15 sq. km. area, falls in Survey of India Toposheet numbers 41L/5 & 41L/9 in parts of Gir Somnath District, Gujarat.
- b) CGM Gujarat informed that a part of the proposed area was previously explored by them through drilling in 1971-1972 which proved positive result of limestone, so this area can be studied to evaluate the extent and quality of limestone reserves in the proposed area. Lithology of the target area comprises miliolitic limestone deposit, with very less overburden and occur in form of low ridges

and low mounds, which makes it easily minable deposit. Six (6) grab samples from Harnasa-Umbri Block indicated CaO% from 52.41 % to 54.78%.

- c) As per the comments received from GSI, the proposed area is promising for further limestone exploration.

Recommendation TCC

The committee recommends the proposal for approval of EC for “Preliminary Exploration for Limestone in Harnasa-Umbri block, Gir Somnath District, Gujarat” with an estimated cost of ₹77.91 Lakh (including GST) within the time schedule of 8 Months and submission of the report as per Annexures 5A & 5B. The item will be reviewed after 4 months. Total 240 meterage of drilling will be done in 12 boreholes, with average depth of 20m.

Agenda 8.1.7 Preliminary Exploration (G3) for Limestone in Govindpara-Savni, Gir Somnath District, Gujarat

[Implementing Agency: CGM Gujarat]

- a) The proposed exploration block of 4.45 sq. km. area, falls in Survey of India Toposheet numbers 41L/5 in parts of Gir Somnath District, Gujarat.
- b) CGM Gujarat informed that a part of the nearby area was previously explored by them through drilling in 1984-85 & 1986-87 which proved positive result of limestone, so this area can be studied to evaluate the extent and quality of limestone reserves in the proposed area. Lithology of the target area comprises miliolitic limestone deposit, with very less overburden and occur in form of low ridges and low mounds, which makes it easily minable deposit. Six (6) grab samples from Govindpara-Savni block indicated CaO% from 47.55 % to 53.52%.
- c) As per the comments received from GSI, the proposed area is promising for further limestone exploration.

Recommendation TCC

The committee recommends the proposal for approval of EC for “Preliminary Exploration for Limestone in Govindpara-Savni Block, Gir Somnath District, Gujarat” with an estimated cost of ₹47.90 Lakh (including GST) within the time schedule of 6 Months and submission of the report as per Annexures 6A & 6B. The item will be reviewed after 3 months. Total 140 meterage of drilling will be done in 7 boreholes, with average depth of 20m.

Agenda 8.1.8 Preliminary exploration (G3) for limestone in Ishwariya block (3.43 Sq. km) in Gir Somnath district, Gujarat

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

- a) The proposed exploration block of 3.43 sq. km. area, falls in Survey of India Toposheet numbers 41L/5 & 41L/9 in parts of Gir Somnath District, Gujarat.
- b) PRB Infra Projects Private Limited informed that the NOC has been given by CGM Gujarat for this proposal. The area comprises of Miliolite Formation in

which limestone has been reported in many areas. Around Six limestone leases are present in the vicinity of the proposed block. Some Drilling work has been done and CGM, Gujarat recommended to continue further exploration work (CGM.FS1985-86 by Jain and FS2002-03 by Kapse S D.). PRB Infra Projects conducted grab sampling and performed chemical analysis on 10 samples. The results reveal that the average concentration of CaO is 50.7%, while SiO₂ averages at 2.5%.

- c) GSI has also carried out preliminary appraisal of Limestone in coastal areas of Saurashtra for limestone which is suitable for chemical grade in the FS 1997-98 and has reported occurrence of good quality of limestone in the Dwarka, Gaj and Miliolite formation. (Report by Dr. Manas Roy Chowdhury).

Recommendation TCC

The committee recommends the proposal for approval of EC for "Preliminary Exploration (G3) for Limestone in Ishwariya Block, Gir Somnath District, Gujarat" with an estimated cost of ₹70.43 Lakh (including GST) within the time schedule of 10 Months and submission of the report as per Annexures 7A & 7B. The item will be reviewed after 4 months. Total 120 meterage of drilling will be done in 6 boreholes, with average depth of 20m.

Agenda 8.1.9 Reconnaissance Survey (G4) for Gold, Base Metals and Associated minerals near Pidariya & Nawanagar area, Singrauli District, Madhya Pradesh

[Implementing Agency: M/s Mining Tech Consultancy Services Limited]

- a) The proposed exploration block of 37.00 sq. km. area, falls in Survey of India Toposheet numbers 63L/7 & 63L/11 in parts of Singrauli District, Madhya Pradesh.
- b) Mining Tech Consultancy Services Limited informed that the proposed Pidariya-Nawanagar area forms a part of Mahakoshal Group which is known for hosting Gold, sulphides, Nickel, PGE and associated minerals. Geological Survey of India, since long, has been engaged in delineating various mineral occurrences (viz. gold, base metal, PGE, Nickel etc.) within these Mahakoshal Group of rocks. During FS 1985-88, drill cores showed sulphide mineralization with gold values up to 1.00 g/t and high galena content. Trenches also revealed promising gold values (1.00-4.25 g/t) from sheared, oxidized quartz veins. Exploration at Gurhar Pahar (FS 1997-98 and FS 2001-2004) identified shear-controlled gold mineralization, with total estimated gold resource of 7.29 million tonnes at an average grade of 1.03 g/t across a cumulative strike length of 3037.94 m. During FS 2018-19, quartz vein samples at Parihasi reported encouraging Cu (0.12%) and Pb (1.17%) values. Pitting-trenching samples showed Cu (0.08%-0.37%) and Pb (90 ppm-510 ppm) ranges, with silver values up to 4 ppm in PTS and 20 ppm in some BRS samples. Three new locations have been reported with encouraging results during FS-2019. In Nawanagar area, Scorodite with 2 ppm & 300 ppm gold values have been reported.

Similarly, Gold values are reported near Chitrangi Nawgai Road (Au ~3.4 ppm) in BIF and near Singrauli Railway station (Au~150 ppb).

- c) Two auction blocks, namely Gulhariya and Parihasi (Basemetal) have been notified on the eastern and Southern part of the proposed area respectively. In Gulhariya, Cu and Pb in BRS have been reported at 0.25% and 0.53% respectively. Whereas in Parihasi the value of Cu ranging from 0.12%, to 0.70%, Pb value of 1.17% and Ag ranging from 3 to 20 ppm. The proposed area is adjacent to auction block and exhibits similar geological settings.
- d) The TCC-II advised drilling in five (5) inclined boreholes with 100m depth of drilling for each borehole.

Recommendation TCC

The committee recommends the proposal for approval of EC for “Reconnaissance Survey (G4) for Gold, Base Metal & Associated Minerals in Pidariya - Nawanagar areas, Singrauli District, Madhya Pradesh” with an estimated cost of ₹235 Lakh (including GST) within the time schedule of 10 Months and submission of the report as per Annexures 8A & 8B. The item will be reviewed after 4 months & 8 months. Total 500 meterage of drilling will be done in 5 boreholes, with average depth of 100m.

Agenda 8.1.10 Reconnaissance Survey (G4) for REE & RM in Mandli-Nagana area, Barmer District, Rajasthan

[Implementing Agency: M/s Mining Tech Consultancy Services Limited]

- a) The proposed exploration block of 18.00 sq. km. area, falls in Survey of India Toposheet numbers 45B/8 & 45B/12 in parts of Barmer District, Rajasthan.
- b) Mining Tech Consultancy Services Limited informed that the proposal has been discussed in the 40th EC meeting held on 19th February 2025 (Pre-EC) & 20th February 2025 (EC). EC has opined to revisit the proposal and consider geological mapping & geochemical sampling only to test the REE & RM content in this zone prior to conducting detailed study. As per the advice of the committee, MTCS had identified 2 blocks having a total area of 18.00 sq km with prominent REE anomalies near Mandli (Block-A: 8 sq km) & Nagana (Block-B: 10 sq km) for conducting Reconnaissance Survey (G4 Level) for REE & RM.
- c) Mining Tech Consultancy Services Limited briefed that as per previous studies undertaken by GSI during field season programs REE and RM mineralization is reported within Malani Igneous Suite of rocks (basalt & rhyolites). Existence of 3 Rhyolite flows was reported around Chiriya, Thob-Patodi & Bagawas areas in Barmer, Rajasthan. Low gravity values (-25.0mGal to -11.0mGal) were reported near to Thob-Patodi & Bagawas villages in geophysical mapping (Rajan Kumar et.al. 2022). The possible reason is due to the presence of Marwar basin (Jodhpur Formation: Sandstone, Shale, Chert) underlain by deeper basement (Malani Formation: Rhyolite porphyry, Dolerite, Gabbro & Phonolite). GSI NGCM programs carried out during 2022 indicate anomalous values of REE and Y & Zr within Malani Rhyolites near Patodi, Thob & Bagawas

in toposheet 45B/8 (Satheesh S.R et.al. 2022) and near Mandli, Nagana & Korna villages in toposheet 45B/12 (Atish Thapa et.al. 2022).

- d) The TCC-II advised change in the name of proposed area as Meghawas-Nagana area. Collection of 100 numbers of BRS & pitting in 1m x 1m x 1m (total 20 cu m) was also suggested by the committee. The committee also advised to check the vertical & horizontal dispersion of REE in Rhyolites.

Recommendation TCC

The committee recommends the proposal for approval of EC for “Reconnaissance Survey (G4) for Rare Earth Elements (REE) & Rare Metals (RM) in Meghawas-Nagana area, Barmer District, Rajasthan” with an estimated cost of ₹30.47 Lakh (including GST) within the time schedule of 5 Months and submission of the report as per Annexures 9A & 9B.

Agenda 8.1.11 Preliminary exploration (G3) for rare earth elements and associated mineralization in Ramdevji ki Beri Block, Barmer District, Rajasthan

[Implementing Agency: M/s Ocean Drilling & Exploration Pvt. Ltd.]

- The proposed exploration block of 1.54 sq. km. area, falls in Survey of India Toposheet numbers 45C/6 in parts of Barmer District, Rajasthan.
- As per the comments received from DGM, Rajasthan 0.9060 sq. km. of proposed block has an overlap with the area reserved (14 sq. km.) for AMD by DGM, Rajasthan.
- In view of the comments received from DGM, Rajasthan, TCC-II opined that the proposal cannot be recommended for exploration by M/s Ocean Drilling & Exploration Pvt. Ltd.

Recommendation TCC

The committee does not recommend the proposal.

Agenda 8.1.12 Reconnaissance survey (G4) copper and associated mineralization in Salwari-Narsinghpuri-Pachlagi area, Sikar District, Rajasthan

[Implementing Agency: M/s Vardan Environet LLP]

- The proposed exploration block of 1.26 sq. km. area, falls in Survey of India Toposheet numbers 45M/10 in parts of Sikar District, Rajasthan.
- Vardan Environet LLP informed that the proposed area forms part of the south Khetri belt, where Uranium is already being mined in Rohil area by UCIL, this deposit has 1500 ppm average Cu associated. Geological survey of India (FS 2015-16) carried out LSM in part of the area which is proposed for G-4 exploration, five samples recorded values of copper ranging from 0.36% to 3.45% besides molybdenum ranging up to 201.11 ppm and TREE 0.5% in one sample. Geophysical anomalies ranging from 1 km to 1.5 km in strike length in

IP chargeability, supported by Magnetic recorded in Ground geophysics by GSI (2016), in North East of Narsinghpuri area.

- c) GSI (2016) also recommended 2 boreholes based on Geophysics in Salwari area. Heliborne survey by AMD indicated conductive zone in the same area. Several boreholes drilled by AMD and borehole core studied by GSI (FS 2015-16) recorded occurrence of sulphide zone at multiple levels, containing pyrite, pyrrhotite, covellite and chalcopyrite. GSI (FS 2015-16) carried out DM in the Block Chokari Bamnara area recorded copper values up to from 440 PPM to 0.36% in 2 channels in the northern part of the DM block. Besides moderate values of TREE.
- d) Out of four Samples collected by Vardan Environet LLP team (Nov, 2024) from the area one Sample indicated encouraging value of 2930 ppm of Cu and high Vanadium (2588 ppm) and high TiO₂ 27.03% Supports the field evidences indicating sulphide mineralisation.
- e) The TCC-II advised the NPEA to request AMD for gamma ray logging of boreholes and analysis for U and Th in the samples.

Recommendation TCC

The committee recommends the proposal for approval of EC for "Reconnaissance survey (G4) for copper and associated mineralization in Salwari area, Sikar District, Rajasthan" with an estimated cost of ₹125.31 Lakh (including GST) within the time schedule of 8 Months and submission of the report as per Annexures 10A & 10B. The item will be reviewed after 3 months. Total 400 meterage of drilling will be done in 2 boreholes, with average depth of 200m.

Agenda 8.2: Review of Ongoing Procurement Projects & Timeline Extension

Agenda 8.2.1 Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities.

[Implementing Agency: DGM Mizoram]

- a) DGM Mizoram informed that 3 projects for procurement was approved by NMET as given below:
- b) Project -1: Approval of ₹309.32 Lakh in the 27th EC of NMET held on 10th January 2023 for 12 months period. In 29th EC, the cost of WD- XRF (₹40Lakhs) approved was removed from Project 1 and approved as new item in Project 2. Time extension up to 31st March 2025 was approved in 37th EC held on 23rd September 2024.
- c) Project 2: Approval of ₹195.99 Lakh in the 29th EC of NMET held on 31st March 2023 for 12 months period. Additionally, ₹2 Lakhs were approved for purchase of bomb calorimeter in the 35th EC of NMET held on 16th May 2025. Time extension up to 31st March 2025 was approved in 37th EC held on 23rd September 2024.
- d) Project 3: 39th EC accorded approval of ₹29,50,000 with a timeline of 12 months for procurement of 01 DGPS.

Additional cost of ₹4,39,200 for procurement of 10 handheld GPS was approved in 39th EC of NMET (Project 1) to DGM, Mizoram.

e) The status of the procurement was presented by DGM Mizoram.

➤ Project 1:

- 1 set of DGPS amounting to **Rs. 16 lakhs purchased** (UC not submitted yet)
- 8 items amounting to **Rs. 20,61,999** procured (UC not submitted yet):
 - Digital Camera DSLR
 - Brunton Compass
 - Geologist Hammer
 - Scintillometer
 - Rock Processing Unit
 - Hot Plates
 - Muffle Furnace
 - Air Oven
- Total fund utilized – **Rs. 36,61,999** out of 1st installment (~**29.6%**)
- DGM Mizoram informed that approved cost for Pulveriser was ₹6 Lakhs, however after market survey the cost for the item is found to be ₹17.11 Lakhs including GST. Hence, cost enhancement for the item was sought from TCC-2.

➤ Project 2

- GIS Software (3 users) amounting to **Rs. 45,99,000** (UC submitted on 25th February 2025)
- Bomb Calorimeter amounting to **Rs. 2,00,000** procured (UC not submitted yet)
- Total fund utilized – **Rs. 47,99,000** out of two installments (~**30.6%**)

➤ Project 3

Tender document under preparation

- f) DGM Mizoram proposed approval of additional cost of ₹11,11,000/- for purchase of Pulveriser and timeline extension for 6 months up to 30th September 2025 for Project 1 and Project 2
- g) The TCC-II advised DGM Mizoram to submit the partial utilization certificate to NMET. The committee also agreed for timeline extension of 6 months for completion of the project.

Recommendation TCC

The committee recommends the proposal for approval of EC for price revision of Pulversier form ₹6 Lakhs to ₹ 17.11 Lakhs including GST (net escalation ₹11.11 Lakhs, in project 1) and timeline extension for 6 months up to 30th September 2025 for completion of the Project 1 & 2.

Agenda 8.2.2 Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities.

[Implementing Agency: DMR Meghalaya]

- a) DMR Meghalaya informed that the project was approved in the 31st EC Meeting held on 12th September, 2023. The sanction order was issued on 07th December, 2023 with timeline of 12 months and approved cost was INR 60,25,000/-.
- b) The status of the procurement was presented by DMR Meghalaya.
- h) DMR Meghalaya proposed timeline extension for 2 months up to 30th June 2025.
- c) The TCC-II agreed for timeline extension of 2 months for completion of the project.

Recommendation TCC

The committee recommends the proposal for approval of EC for timeline extension of 2 months up to 30th June 2025 for completion of the project.

Agenda 8.2.3 Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities.

[Implementing Agency: DGM Ladakh]

- a) DGM Ladakh informed that the project was approved in the 28th EC Meeting held on 16th March, 2023. The sanction order was issued on 03rd April, 2023 with timeline of 12 months and approved cost was INR 2,05,96,000/-.
- b) The status of the procurement was presented by DGM Ladakh. They informed that procurement of Truck mounted Hydrostatic Drill units & its accessories are not essential at this stage. Hence, requested for surrender of these items.
- c) Further, DGM Ladakh informed that due to Insufficient Technical and Experienced Staff, Administrative & Logistical Challenges and Climatic Constraints & Seasonal Limitations, the project was delayed. Hence requested for 15 months time extension up to 31st July 2025 for completion of the project.
- d) DGM Ladakh also requested for enhancement of cost of Portable XRF for chemical analysis of Minerals/ rock samples (approved cost ₹10 Lakhs) to ₹25Lakhs and GIS Software(approved cost ₹13 Lakhs) to ₹ 25Lakhs.
- e) Also DGM Ladakh requested for approval additional item as given below:

#	Item	Qty	Cost (₹)
1	Digital Camera	2	3,00,000
2	Handheld GPS	2	1,90,000
3	Brunton Compass	4	40,000

4	Geological Hammer	4	40,000
Total			570000/-

- f) The TCC-II advised DGM Ladakh to submit justification for “delay in procurement” & “request for timeline extension” to NMET. The committee agreed for Cost enhancement for GIS software and portable XRF . the committee also recommended new additional items as given in table above.

Recommendation TCC

The committee recommends the proposal for approval of EC for:

- ✓ ***Surrender of Hydrostatic truck mounted drill machine with 600 m to 1000 m capacity costing ₹80 Lakhs and Bits, drill rod, casing and core barrel costing ₹ 80 Lakhs .***
- ✓ ***Enhancement of cost of Portable XRF for chemical analysis of Minerals/ rock samples (approved cost ₹10 Lakhs) to ₹25 Lakhs and GIS Software (approved cost ₹13 Lakhs) to ₹ 25 Lakhs.***
- ✓ ***Additional 4 items (total qty 12nos.) amounting to ₹5.7 Lakhs as given in table above.***
- ✓ ***15 months time extension up to 31st July 2025 for project completion.***

8.3 Review of Ongoing Projects/ Completed Projects & Timeline Extension

Agenda 8.3.1 Preliminary (G3) exploration for Glauconite and associated minerals in Pitupura block, Sawai Madhopur and Karauli Districts, Rajasthan

[Implementing Agency: M/s GeoExpOre Pvt. Ltd.]

- a) GeoExpOre Pvt. Ltd informed that the project was approved in the 38th EC Meeting held on 29th November, 2024. The OM was issued on 06th January, 2025 with timeline of 12 months (up to 05.07.2026) and approved cost was INR 1,95,03,150/-.
- b) GeoExpOre Pvt. Ltd. briefed about the progress of the project and requested for change in project title as “Preliminary (G3) exploration for Glauconite and associated minerals in Pitupura block, Karauli District, Rajasthan”.
- c) The TCC-II agreed for the proposed change in project title.

Recommendation of TCC-II:

The committee recommends the proposal for approval of EC for change in project title as – “Preliminary (G3) exploration for Glauconite and associated minerals in Pitupura block, Karauli District, Rajasthan”.

Agenda 8.3.2 Reconnaissance Survey (G4) for Iron Ore in Mahakoshal Group around Chakdiya, Kushaniya, Jobra and Tusgaon area, Sonbhadra district, Uttar Pradesh

[Implementing Agency: M/s GeoExpOre Pvt. Ltd.]

- a) GeoExpOre Pvt. Ltd informed that the project was approved in the 33rd EC Meeting held on 19th February, 2024. The Sanction Order was issued on 28th February, 2024 with timeline of 09 months (up to 27.11.2024) and approved cost was INR 95,41,116/-.
- b) GeoExpOre Pvt. Ltd. informed the committee about the progress of the project and proposed timeline extension of 6 months for completion of the project. They informed that forest clearance is still awaited for this project.
- c) The TCC-II agreed for timeline extension of 6 months for completion of the project.

Recommendation of TCC-II:

The committee recommends the proposal for approval of EC for timeline extension of 6 months up to 25th November 2025 for GR submission.

Agenda 8.3.3 Preliminary Exploration (G3) for REE and Associated Minerals in Borana Block, Bhilwara District, Rajasthan

[Implementing Agency: M/s GeoExpOre Pvt. Ltd.]

- a) GeoExpOre Pvt. Ltd informed that the project was approved in the 35th EC Meeting held on 16th May, 2024. The Sanction Order was issued on 24th January, 2025 with timeline of 12 months (up to 04.06.2025) and approved cost was INR 1,46,98,108/-.
- b) GeoExpOre Pvt. Ltd. informed that they have completed all assigned activities under the Nature, Quantum and Target (NQT) framework and proposed timeline extension of 5 months for completion of the project.
- c) The drilling component was delayed due to fund constraints.
- d) The TCC-II agreed for timeline extension of 5 months for completion of the project. The committee opined that no further extension will be given for this project beyond this extended timeline.

Recommendation of TCC-II:

The committee recommends the proposal for approval of EC for timeline extension of 5 months up to 9th November 2025 for GR submission.

Agenda 8.3.4 Reconnaissance Survey (G4) for Graphite and associated Minerals around Sonaghati, Amdol, Jharegaon and Bhayawari, District Betul, Madhya Pradesh

[Implementing Agency: M/s GeoExpOre Pvt. Ltd.]

- a) GeoExpOre Pvt. Ltd informed that the project was approved in the 34th EC Meeting held on 13th March, 2024. The Sanction Order was issued on 28th January, 2025 with timeline of 12 months (up to 11.03.2025) and approved cost was INR 1,05,04,174/- and Revised cost was INR 1,11,47,274/-.

- b) GeoExpOre Pvt. Ltd. informed the committee about the progress of the project and so far, geological mapping and trenching has been done.
- c) The TCC-II agreed for SP survey in only 5 Line kms, since not much encouraging results were obtained from trench samples.

Recommendation of TCC-II:

The committee agrees for SP survey in 5-line kms.

Agenda 8.3.5 Reconnaissance survey (G4) for nickel-cobalt, PGE and chromium in and around Phangrai area, Ukhrul district, Manipur

[Implementing Agency: M/s United Exploration India Pvt. Ltd. (UEIPL)]

- a) UEIPL informed that the project was approved in the 35th EC Meeting held on 16th May, 2024. The Sanction Order was issued on 28th February, 2025 with timeline of 12 months (up to 05.06.2025) and approved cost was INR 1,16,27,890/-.
- b) UEIPL informed that the agency is facing resistance from Sihai Khullen village and hence District authority had advised not to enter in Sihai Khullen village area (over 18 sq. km.). The agency and civil service organisations are taking steps to solve the issue. The field work in the balance area will be started after solving the local issues which is under process.
- c) Further, Village authority of Sihai-Khullen conveyed the DC that NOC will only be provided if the project name will be modified.
- d) UEIPL also proposed change in title of the project as “*Reconnaissance Survey (G4) for nickel, cobalt, PGE and chromium in and around Sihai-Phangrei area, Ukhrul district, Manipur*”. UEIPL presented the progress of the work and requested for timeline extension of 8 months for completion of the project.
- e) The TCC-II advised UEIPL to submit the proposal for timeline extension with justifications, to NMET. The committee agrees for change in title of the project.

Recommendation of TCC-II:

The committee recommends the proposal for approval of EC for change in title of the project as - “Reconnaissance Survey (G4) for nickel, cobalt, PGE and chromium in and around Sihai-Phangrei area, Ukhrul district, Manipur” with 8 months time extension up to 5th February 2026.

Agenda 8.3.6 Preliminary Exploration (G3) for Copper, Lead, Zinc and Associated Minerals in Salaiya Phatak Block, Katni District, 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 INR 1,38,61,200/-.
- b) MECL informed that the Salaiya Phatak (G3) Block is upgraded block from Salaiya (G4) Block for exploration of Copper, Lead, Zinc and associated metals. This block was recommended in 66th TCC meeting held on June 2024 and approved in 36th EC meeting held on 29th July 2024.

- c) Geological mapping of 1.5 sq. km. area on 1:2000 scale has been completed along with trenching, channel sampling and bed rock sampling. Six (6) boreholes were proposed to be drilled with 50m depth for each borehole.
- d) The TCC-II agreed for drilling in five (5) boreholes only (BH nos. 1, 3, 4, 5 & 6) with total 500 meterage. Drilling in BH no. 2 will be decided in next review of the project.

Recommendation of TCC-II:

The committee agrees for drilling in five (5) boreholes only (BH nos. 1, 3, 4, 5 & 6) with total 500 meterage. Drilling in BH no. 2 will be decided in next review of the project.

**Agenda 8.3.7 Preliminary Exploration (G3) for Copper and Associated Minerals in Thakurdih Area-1 Block, East Singhbhum District, Jharkhand
[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 20th May, 2024 with timeline of 12 months (up to 19.05.2025) and approved cost was INR 4,36,02,614/-.
- b) The project was recommended in 63rd TCC meeting held on 22nd, 26th & 27th March 2024 and approved in 35th EC meeting of NMET held on 16th May 2024. The same was intimated to MECL vide MoM letter No. F.NO.23/454/2024-NMET/80 dated 20th May 2024.
- c) Detailed Geological Mapping of 4.10 sq.km area on 1:2000 scale has been completed along with Surface sampling (BRS), Trenching & Exploratory Drilling (2,200 m in 17 BHs). Total 592 nos. samples (17 BHs) indicated Cu value >0.1% to max 5.29%.
- d) MECL proposed analysis of additional 80 nos. of samples with additional cost of ₹6.48 Lakhs. MECL also requested for timeline extension of 3 months up to 19th August 2025 for submission of final GR.

Recommendation of TCC-II:

The committee recommends the proposal for approval of EC for revised cost of ₹474.75 lakhs (including GST) and timeline extension of 3 months up to 19th August 2025 for submission of final GR as per annexure 11A.

**Agenda 8.3.8 Preliminary Exploration (G3) for Iron and Associated Minerals in Chitrangi Block, Singrauli District, Madhya Pradesh
[Implementing Agency: Mineral Exploration and Consultancy Limited (MECL)]**

As requested by MECL the agenda was not discussed, and deferred for next TCC-II meeting.

**Agenda 8.3.9 Reconnaissance Survey (G4) for Copper in Chalima Block, Giridih District, Jharkhand (for Exploration incentive)
[Implementing Agency: Mineral Exploration and Consultancy Limited (MECL)]**

- a) MECL informed that the block was approved in 22nd EC meeting held on 22nd December 2021. Sanction order was received by MECL on 7th January 2022

with approved cost of ₹182.63 Lakhs & timeline of 12 months. Actual expenditure was ₹1,62,97,606.00/-.

- b) The geological report was reviewed in 65th TCC held on 28th, 30th & 31st May 2024. The same was submitted to NMET on 14th June 2024. Total Net geological in situ resource is 0.26 million tonnes with an average grade of 0.72% Cu, 0.42% Pb and 1.12% Zn placed under (334) category of UNFC.
- c) The G4 block has been upgraded to Jaridih-Pipradih Block in G-3 Level for Copper and associated minerals. The upgraded block was approved in 38th EC meeting held on 29th November 2024.
- d) MECL request for approval of 25% Exploration Incentive (SoC- clause 6(i)) of ₹ 40,74,401.50/- against Chalima Block, Giridih, Jharkhand (G-4) under copper Minerals as per Revised EI circular dated 3rd October 2023.

Recommendation of TCC-II:

The committee recommends the proposal for approval of EC for 25% exploration incentive of ₹40,74,401.50/- for upgradation of Chalima Block, Giridih District, Jharkhand (G-4) for Copper to Jaridih-Pipradih Block in G-3 Level for Copper and associated minerals.

Agenda 8.3.10 Reconnaissance Survey (G4) for Iron, Manganese and Associated Minerals in Salaiya Block, Jabalpur, Katni and Umaria Districts, Madhya Pradesh (for Exploration incentive)

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

- a) MECL informed that the project was approved on 28th EC meeting held on 16 March 2023. Sanction order was issued on 3rd April 2023 with timeline of 12 months and approved cost of ₹50.27 Lakhs. Geological report was reviewed in 63rd TCC held on 22nd, 26th & 27th March, 2024 and same was submitted to NMET on 28th March 2024. Actual expenditure for the project was ₹43.09 Lakhs.
- b) The block was upgraded to Salaiya Phatak Block in G-3 Level for Copper, Lead, Zinc and Associated Metals. The upgraded block was approved in 36th EC meeting held on 29th July 2024.
- c) MECL has requested for approval of 25% exploration incentive (SoC- clause 6(i)) of ₹10.77 Lakhs for the project in Salaiya Block, Jabalpur, Katni & Umaria, Madhya Pradesh for Iron, Manganese & Associated Minerals in G-4 stage under copper minerals as per Revised EI circular dated 3rd October 2023.

Recommendation of TCC-II:

The committee recommends the proposal for approval of EC for 25% exploration incentive of ₹10.77 Lakhs for upgradation of Salaiya Block, Jabalpur, Katni & Umaria, Madhya Pradesh (G-4) for Iron, Manganese & Associated Minerals to Salaiya Phatak Block in G-3 Level for Copper, Lead, Zinc and Associated Metals.

Agenda 8.3.11 Preliminary Exploration (G3) for Limestone in N.W. of Boro Lakhindong, Dima Hasao, Assam

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

- a) MMPL informed that the project was approved in the 32nd EC Meeting held on 26th December, 2023. The Sanction Order was issued on 12th March, 2024 with timeline of 12 months (11.03.2025) and approved cost was INR 3,11,98,170/-.
- b) Maheshwari Mining Pvt. Ltd. informed that they have submitted the geological report for peer review. As per the timeline of the project the GR to be submitted on or before 13th May 2025.
- c) The TCC-II opined that final review of the GR has to be done after peer review. So timeline extension is required.
- d) The TCC-II agreed for the timeline extension up to 31st May 2025 for final GR submission.

Recommendation of TCC-II:

The committee approved the timeline extension up to 31st May 2025 for final GR submission.

**Agenda 8.3.12 Reconnaissance Survey (G4) for Graphite and Vanadium in Matena-Sirar Area, Almora District, Uttarakhand
[Implementing Agency: M/s Geovale Services Private Limited]**

- a) Geovale informed that the project was approved in the 36th EC Meeting held on 29th July, 2024. The Sanction Order was issued on 03rd March, 2025 with timeline of 12 months (20.08.2025) and approved cost was INR 2,60,45,671/-.
- b) Geovale Services Private Limited briefed about the progress of the work.
- c) The TCC-II advised to identify the potential bands/zones by SP survey and accordingly boreholes (12 nos.) should be planned.

Recommendation of TCC-II:

The committee advised to identify the potential bands/zones by SP survey and to plan the boreholes accordingly.

**Agenda 8.3.13 Reconnaissance Survey (G4) for Mailar Base Metal - Gold Prospect Block in Mailar area, Lalitpur district, Uttar Pradesh
[Implementing Agency: M/s Geovale Services Private Limited]**

- a) Geovale informed that the project was approved in the 62nd TCC Meeting held on 28th, 29th and 01st March, 2024. The OM was issued on 12th March, 2024 with timeline of 12 months (11.03.2025) and approved cost was INR 2,40,95,250/-.
- b) Geovale Services Private Limited briefed about the progress of the work and informed that they have identified about ten (10) Hydrothermal conduit with high potassic alteration intensity & vein density.
- c) There are some issues related to forest clearance.
- d) The TCC-II suggested the agency to seek forest clearance through Parivesh Portal for drilling.

Recommendation of TCC-II:

The committee advised the agency to seek forest clearance through Parivesh Portal for drilling.

**Agenda 8.3.14 Reconnaissance Survey (G4) for Evaluation of Placer Xenotime Prospect in Ujol River Basin, Gujarat
[Implementing Agency: M/s Geovale Services Private Limited]**

- a) Geovale informed that the project was approved in the 31st EC Meeting held on 12th September, 2023. The Sanction Order was issued on 05th October, 2023 with timeline of 12 months and approved cost was INR 1,92,42,484/-.
- b) Geovale Services Private Limited presented the progress of the work and informed that the given quantum of work has been achieved in the project. The GR was peer reviewed and all the comments/suggestions of peer reviewer has been incorporated in the GR.
- c) Geovale Services Private Limited proposed for circulation of the GR with request of timeline extension of 2 months up to 30th June 2025.

Recommendation of TCC-II:

The committee recommends the proposal for approval of EC for timeline extension of 2 months up to 30th June 2025 for GR submission.

**Agenda 8.3.15 Reconnaissance Survey (G-4) for Ni & PGE prospect block in Limbdi-Meghpar Titodi area, Devbhumi Dwarka District, Gujarat
[Implementing Agency: M/s Geovale Services Private Limited]**

- a) Geovale informed that the project was approved in the 28th EC Meeting held on 16th March, 2023. The Sanction Order was issued on 27th March, 2023 with timeline of 18 months and approved cost was INR 2,63,40,674/-.
- b) Geovale Services Private Limited presented the progress of the work and informed that GR has been submitted. However, the agency requested for timeline extension up to 30th April 2025 for settlement of bills.

Recommendation of TCC-II:

The committee recommends the proposal for approval of EC for timeline extension of up to 30th April 2025 for GR submission.

**Agenda 8.3.16 Reconnaissance Survey (G4) for PGE, Gold & REE in Maneri-Sitapala Block, Balaghat District, Madhya Pradesh
[Implementing Agency: M/s Gemcokati Exploration Pvt. Ltd.]**

- a) Gemcokati Pvt. Ltd. informed that the project was approved in the 31st EC Meeting held on 12th September, 2023. The Sanction Order was issued on 05th October, 2023 with timeline of 08 months and approved cost was INR 64,92,482/-.
- b) Gemcokati Exploration Pvt. Ltd. informed that the assigned work in this project has been completed.
- c) The agency requested for submission of the geological report for peer review.



Recommendation of TCC-II:

The committee agrees for submission of the geological report for peer review.

Additional Agenda 8.3.17 Preliminary Exploration (G3) for Bauxite, Titanium, and Associated Minerals Harhapat block, Gumla, Jharkhand
[Implementing Agency: Jharkhand Exploration and Mining Corporation Limited (JEMCL)]

- a) JEMCL informed that the project was approved in the 37th EC of NMET held on **23rd September, 2024 for a cost of ₹73.86 Lakhs and timeline of 10 months.**
- b) JEMCL briefed about the progress of the work and informed that geological mapping has been done in the block.
- c) The TCC-II advised JEMCL to prepare geological map with topographic contours and structural fabrics for better representation of the block. Also, borehole spacing was suggested to be kept at 400m x 400m.

Recommendation of TCC-II:

The committee advised preparation of geological map with topographic contours and structural fabrics.

Agenda 8.4: Cost Evaluation of New Project proposals

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

Agenda 8.5: Project Evaluation for In-Principle Approval

Agenda 8.5.1 Reconnaissance survey (G4) for Pb, Zn, Ag, Au, Cu, Ni & REE in Amliya area, District Sirohi, Rajasthan
[Implementing Agency: M/s Envirogreen Consultants (India) Private Limited]

- a) The proposed exploration block of 40.08 sq. km. area, falls in Survey of India Toposheet number 45H/1 in parts of Sirohi District, Rajasthan.
- b) Envirogreen Consultants (India) Private Limited informed that the block has been proposed on the basis of study of GSI reports in and surrounding areas.
- c) As per the comments received from GSI, the proposed block is overlapping with the already explored block of GSI in G4 stage of exploration.
- d) The TCC-II advised that fresh proposal may be submitted to NMET for In-Principle Approval, excluding the overlapping areas which are already explored.

Recommendation of TCC-II:

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

Agenda 8.5.2 Reconnaissance survey (G4) for Pb, Zn, Ag, Au, Cu, Ni & REE in Rishabdev area, District Sirohi, Rajasthan
[Implementing Agency: M/s Envirogreen Consultants (India) Private Limited]

- a) The proposed exploration block of 40.4 sq. km. area, falls in Survey of India Toposheet number 45H/12 & 45H/16 in parts of Sirohi District, Rajasthan.
- b) Envirogreen Consultants (India) Private Limited informed that the block has been proposed on the basis of study of GSI reports in and surrounding areas.
- c) As per the comments received from GSI, the proposed block is overlapping with the already explored block of GSI in G4 stage of exploration.
- d) The TCC-II opined that apart from consultation of GSI reports, field visit & few samplings 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.

Recommendation of TCC-II:

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

Agenda 8.5.3 Reconnaissance survey (G4) for Pb, Zn, Ag, Au, Cu, Ni & REE in Dhariyawad area, District-Udaipur, State-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 45L/8 in parts of Udaipur District, Rajasthan.
- b) Envirogreen Consultants (India) Private Limited informed that the block has been proposed on the basis of study of GSI reports in and surrounding areas.
- c) As per the comments received from GSI, the proposed block is overlapping with the already explored block of GSI in G4 stage of exploration.
- d) The TCC-II opined that geoscientific data and some mineral evidences are required. The committee suggested that fresh proposal may be submitted to NMET for In-Principle Approval, excluding the overlapping areas which are already explored.

Recommendation of TCC-II:

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

Agenda 8.5.4 Reconnaissance Survey (G4) for Bauxite and associated minerals Manatu area, District Gumla, Jharkhand

[Implementing Agency: M/s GEMS Projects Private Limited]

- a) The proposed exploration block of 25.25 sq. km. area, falls in Survey of India Toposheet number 73A/8 in parts of Gumla District, Jharkhand.
- b) GEMS Projects Private Limited informed that during the field visit the team of Gems Projects observed that the area is full of exposures of aluminous laterite. Good quality float bauxite boulders are found all along slope of hillocks indicating the presence of bauxite in the proposed area.
- c) As per the comments received from DGM, Jharkhand the proposed area is kept in reserve for exploration work by State DGM.

Recommendation of TCC-II:

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

Agenda 8.5.5 Reconnaissance Survey (G4) for Rock Phosphate mineralization around Lal Madri Matkeshwar area, tehsil Nathdwara, district Rajsamand, Rajasthan

[Implementing Agency: M/s Enkay Enviro Services Pvt. Ltd.]

- a) The proposed exploration block of 3.00 sq. km. area, falls in Survey of India Toposheet number 45H/9, 45H/13 in parts of Rajsamand District, Rajasthan.
- b) As per the comments received from GSI, there is an overlap of the proposed block with GSI's G4 exploration block.
- c) The TCC-II opined that coordinate of GSI's exploration blocks should be made available for Mining Tech Consultancy Services Limited by NMET and the proposed block boundary has to be modified accordingly by Mining Tech.
- d) The TCC-II opined that fresh proposal may be submitted to NMET for In-Principle Approval, excluding the overlapping areas which are already explored.

Recommendation of TCC-II:

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

Agenda 8.5.6 Reconnaissance Survey (G4) for Graphite and associated Minerals, Bopi area, Arunachal Pradesh

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

- a) The proposed exploration block of 12.2 sq. km. area, falls in Survey of India Toposheet number 83I/1 in parts of Bopi area, Arunachal Pradesh.
- b) M/s Earthenviro Lab Private Limited informed that Investigation of Graphite occurrence has been carried out by GSI around La-Lamdak Area, Upper Subansiri District. Latitude:27D 51'-27D 53' Longitude:94D13'-94D 15' The resource has been estimated about 330 million tonnes. (As per GSI Misc. Publication No. 30 Part IV Vol I(i) Arunachal Pradesh Published by the order of the Government of India,2010. The average grade is 16.24%.
- c) As per the comments received from GSI, there is an overlap of the proposed block with GSI's G4 exploration block.

Recommendation of TCC-II:

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

Agenda 8.5.7 Reconnaissance Survey (G4) for Lime stone and associated Minerals, Shnongrim area, East Jaintia Hill, Meghalaya

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

- a) The proposed exploration block of 3.21 sq. km. area, falls in Survey of India Toposheet number 83C/11 in parts of East Jaintia Hill, Meghalaya.
- b) M/s Earthenviro Lab Private Limited informed that fossiliferous Lime stone/ Calcareous shale and Sandstone, can be host rock for Limestone deposit. Geologists of Earthenviro Lab Pvt. Ltd. have also observed the limestone hillocks in the area. Many Limestone Mines are being operated in nearby areas.

- c) As per the comments received from GSI, there is an overlap of the proposed block with GSI's G4 block.
- d) The TCC-II advised that fresh proposal may be submitted to NMET for In-Principle Approval, excluding the overlapping areas which are already explored.

Recommendation of TCC-II:

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

Agenda 8.5.8 Reconnaissance Survey (G4) for Graphite and associated Minerals, Pitapool area, Arunachal Pradesh

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

- a) The proposed exploration block of 54.00 sq. km. area, falls in Survey of India Toposheet number 93E/15 in parts of Pitapool area, Arunachal Pradesh.
- b) M/s Earthenviro Lab Private Limited informed that based on reports of GSI the proposal has been formulated.
- c) As per the comments received from GSI, there is an overlap of the proposed block with GSI's G4 block.
- d) The TCC-II advised that fresh proposal may be submitted to NMET for In-Principle Approval, excluding the overlapping areas which are already explored.

Recommendation of TCC-II:

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

Agenda 8.5.9 Reconnaissance Survey (G4) for Ni, Cr, Co, PGE and associated Minerals, Pushing area, Manipur

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

- a) The proposed exploration block of 38.00 sq. km. area, falls in Survey of India Toposheet number 83K/8 in parts of Pushing area, Manipur.
- b) M/s Earthenviro Lab Private Limited informed that based on reports of GSI the proposal has been formulated.
- c) As per the comments received from GSI, there is an overlap of the proposed block with GSI's G4 block.
- d) As per the comments received State Government, there is slight overlap of the proposed block with State DGM's block.
- e) The TCC-II advised that fresh proposal may be submitted to NMET for In-Principle Approval, excluding the overlapping areas which are already explored.

Recommendation of TCC-II:

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

Agenda 8.5.10 Preliminary exploration (G3) for Glauconitic Potash in Bhatun-Jatwari Block, District Karoli, Rajasthan

[Implementing Agency: M/s Ocean Drilling & Exploration Pvt. Ltd.]

- a) The proposed exploration block of 13.27 sq. km. area, falls in Survey of India Toposheet number 54B/11 and 54B/15 in parts of Karoli District, Rajasthan.
- b) M/s Ocean Drilling & Exploration Pvt. Ltd. informed that on the basis of recommendations of GSI report and encouraging result of K₂O in Boreholes RJSK-08 and RJSK-09, Bhatun-Jatwari block is being proposed.
- c) The TCC-II opined that already a number of projects on potash exploration have been approved from NMET funding. The TCC decided to wait for the outcome of these projects before taking up more project on this mineral commodity.

Recommendation of TCC-II:

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

**Agenda 8.5.11 Preliminary Exploration (G3) for Limestone in Vadekhan block (6.19 sq, kms), Upleta taluka, district Rajkot, 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 number 41K/1 in parts of Rajkot District, Gujarat.
- b) PRB Infra Projects Private Limited informed that the block area comprises limestone of the Millolite Formation which has been reported as good quality limestone. The block has been proposed on the basis of the exploration data present in the CGM reports and on the basis of the geology of area. CGM reported the average CaO % to be 50-53% and average SiO₂% to be 24.606 % from collected Chip/grab samples. Hence this block is suggested for the G3 Exploration. Several leases for limestone mining occur in the vicinity of proposed block which is suggestive of high potentiality of the block
- c) The TCC-II advised detailed mapping and sampling in the block.

Recommendation of TCC-II:

The committee agrees for in-principle-approval of the project.

**Agenda 8.5.12 Preliminary exploration (G3) for Copper, Gold and associated mineralization in between Gudaliya and 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 overlaps with already explored GSI's G4 block. Also, comments from State Government is still awaited.

Recommendation of TCC-II:

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

**Agenda 8.5.13 Preliminary exploration (G3) for Ni-Cr, PGE, and other associated commodities in Garnala Kotra-Odwas Masaron Ki Obri Block, Rikhabdev Ultramafic Suite, District Udaipur, Rajasthan.
[Implementing Agency: M/s Vardan Environet LLP]**

- a) The proposed exploration block of 6.72 sq. km. area, falls in Survey of India Toposheet number 45H/12 in parts of Udaipur District, Rajasthan.
- b) M/s Vardan Environet LLP informed that the LSM by GSI (2016) delineated three bodies of serpentine containing anomalous values of Ni ranging from 30 ppm to 0.22% for n=110 and Cr value ranging from 15 ppm to 0.44% for n=110 in serpentines indicate presence of Ni and Cr in the area and these are believed to be the path finders for PGE in ultramafic suites. There are occurrences of Magnetite rich zones within the ultramafic suite; they are treated as potential zones for PGE mineralisation. There is presence of Pt. Grain in EPMA found in antigorite, and the petrography indicates that antigorite is the main alteration mineral present in the area, hence increased chances of PGE mineralisation always exist. The geological and tectonic set up in the proposed area is similar to the PGE deposits environment in India and the world; hence the proposed investigation is suitably geologically, tectonically and geochemically backed up for further detailed studies.
- c) The TCC-II advised channel sampling before G3 proposal.
- d) Comments from State Government is still awaited.

Recommendation of TCC-II:

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

**Agenda 8.5.14 Reconnaissance Survey (G4) for Iron ore and related mineralization in Nangwas area, District Sikar, Rajasthan
[Implementing Agency: M/s Vardan Environet LLP]**

- a) The proposed exploration block of 18.02 sq. km. area, falls in Survey of India Toposheet numbers 45M/14 in parts of Sikar District, Rajasthan.
- b) As per the comments received from GSI, the proposed block overlaps with already explored GSI's G4 block.

Recommendation of TCC-II:

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

Annexure -1

List of participants attended 8th meeting of Technical-cum-cost Committee (TCC-II) of NMET held on 28th, 29th April & 2nd 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	Mohd Aslam	Deputy Director	dgmladakh@gmail.com	7006235892	DGM Ladakh
16	Smt J.Jamu	Asst. Geologist	jamujen@gmail.com	8974046873	DMR, Meghalaya
17	Mr. C. Malsawmkima	Geologist	stalinmc20@gmail.com	8132813799	DGM, Mizoram
18	Shri P. Ravindran	GM (Exploration)	gm-exploration@mecl.co.in	9407607309	MECL, Nagpur
19	Shri Shrikant Sharma	Senior Manager (Geology)	shrikant.mecl@gmail.com	9131229758	MECL, Nagpur

20	Shri Swarup Dhara	Manager (Geology)	swarupdhara@gmail.com	9630307282	MECL, Nagpur
21	Md. Dastageer	Manager (Geology)	dastageermd@gmail.com	9560739350	MECL, Nagpur
22	Shri Sayandeep Chakraborty	Asst Manager (Geology)	Sayanchak2011@gmail.com	9038956935	MECL, Nagpur
23	Shri Saptarshi Ghosh	Asst. Manager (Geology)	saptarshighosh07@gmail.com	9655425135	MECL, Nagpur
24	Ms Moumita Ghosh	Sr. Geologist	moumitaghosh03091991@gmail.com		MECL, Nagpur
25	Dr. Vinay Sahay	Sr. Manager(Geology)	vinay.sahay@geologist.com	9730514284	Gemco kati Exploration Pvt Ltd, Chandrapur
26	Mr. Chinmay Rout	Geologist	chinmay2007rta@gmail.com	8260086563	Gemco kati Exploration Pvt Ltd, Chandrapur
27	Mr. Tejeswar Barik	Jr. Geologist	tejeswarbarik73@gmail.com	6294601759	Gemco kati Exploration Pvt Ltd, Chandrapur
28	Mr. Kaustav Bhattacharjee	Jr. Geologist	kaustavbhattacharjee18@gmail.com	8637848584	Gemco kati Exploration Pvt Ltd, Chandrapur
29	Mr. Suraj Vldhate	Jr. Geologist	vidhatesuraj2018@gmail.com	9921839321	Gemco kati Exploration Pvt Ltd, Chandrapur
30	Mr. Amit Kumar Sahoo	Jr. Geologist	pramilasahoo066@gmail.com	7008428887	Gemco kati Exploration Pvt Ltd, Chandrapur
31	Miss Devika Nagpure	Jr. Geologist	devikanagpure2018@gmail.com	8408986492	Gemco kati Exploration Pvt Ltd, Chandrapur
32	Mr. Anshul Yadav	Director/Partner	anshul@vardan.co.in	9953147268	Vardan Environet LLP
33	Dr. R K Sharma	Project Coordinator	rajsuman87@gmail.com	9460727857	Vardan Environet LLP
34	Mr B B Sharma	TAE/ Sr. geologist	bbsharma.gsi@gmail.com	9460116555	Vardan Environet LLP
35	Mr R K Singh	TAE/Sr. geophysicist	rkscmpdi@gmail.com	9437278920	Vardan Environet LLP
36	Mr B metramulu	TAE/Sr. geophysicist	dr.metramulu@gmail.com	7742588874	Vardan Environet LLP
37	Dr. Satvinder Singh	TAE/ GM exploration	satvinder@vardan.co.in	9828367130	Vardan Environet LLP
38	Mr. Nitesh Mishra	TAE/ Sr. geologist	exploration@vardan.co.in	9784805249	Vardan Environet LLP
39	Mr. Rohit Gupta	Geologist	exploration@vardan.co.in	9079113142	Vardan Environet LLP
40	Mr. Kapil Choudhary	Geologist	exploration@vardan.co.in	9672936858	Vardan Environet LLP

41	Balkrishan Vishawakarma	Manager Geology	Balkrishan.v@maheshwaree.com/ geology@maheshwaree.com	9651143638	Maheshwari Mining Pvt Ltd
42	Moulipriya Bhakta	Deputy Manager Geology	moulipriya.bhakta@maheshwaree.com	7890631970	Maheshwari Mining Pvt Ltd
43	Sudev Mahato	Geologist	sudev.mahato@maheshwaree.in	8617655928	Maheshwari Mining Pvt Ltd
44	Biplob Chatterjee	CEO & Director (Consulting)	biplob.chatterjee@geovale.com	9007 706145	Geovale Services Pvt. Ltd.
45	Tuasha Majumder	Sr. Project Manager (Geology and Exploration)	tuasha.majumder@geovale.com	9007215397	Geovale Services Pvt. Ltd.
46	Dr. Suparna Goswami	Sr. Project Manager (Geology and Exploration)	suparna.goswami@geovale.com	9874320018	Geovale Services Pvt. Ltd.
47	Dr. Taraknath Pal	Advisor	taraknath.pal@geovale.com	6300985508	Geovale Services Pvt. Ltd.
48	Dr. Joy Gopal Ghosh	Advisor	joygopal.ghosh@geovale.com		Geovale Services Pvt. Ltd.
49	Arif khan	Director/Partner	ariftdma@gmail.com	7023511786	Ocean Drilling & Exploration Pvt.Ltd
50	Sundra Moorthy	Sr.Geologist	sundargeors@gmail.com	9788414545	Ocean Drilling & Exploration Pvt.Ltd
51	Dr Yerriswamy Pateel	Director	ypateel@geoexpore.com	9980118930	GeoExpOre Pvt Ltd
52	Mr. Channamalli karjun Patil	Director	cm@geoexpore.com	9980554498	GeoExpOre Pvt Ltd
53	Dr R Chandrasekaran	Project Coordinator	chandru@geoexpore.com	6361206452	GeoExpOre Pvt Ltd
54	Mr. Mohammad Muslemeen	Sr. Geologist	mohammad@geoexpore.com	7306343588	GeoExpOre Pvt Ltd
55	Mr. Manoj V P	Sr. Geologist	manoj@geoexpore.com	9591542608	GeoExpOre Pvt Ltd
56	Mr. Shrinivas Y	Jr. Geologist	shrinivas@geoexpore.com	7411747650	GeoExpOre Pvt Ltd
57	Mr. A Gopal	Jr. Geologist	gopal@geoexpore.com	7411559399	GeoExpOre Pvt Ltd
58	Mr. Shashank S Mahapatra	Jr. Geologist	shashank@geoexpore.com	9438430412	GeoExpOre Pvt Ltd
59	Dr. A. K Jha	CEO	ceo@enkayenviro.com	8800795361	Enkay Enviro Services Pvt. Ltd
60	Mr. Kireet Acharya	VP (Exploration)	kireet.acharya@enkayenviro.com	9414163053	Enkay Enviro Services Pvt. Ltd
61	Mr. Anand Dubey	Manager Geologist	anand.dubey@enkayenviro.com	9981663155	Enkay Enviro Services Pvt. Ltd

62	Dr. Vinamra Bhushan Sharma	Dy. Manager	vinamra.sharma@enkayenviro.com	7869541310	Enkay Enviro Services Pvt. Ltd
63	Mr. Mohit Sharma	Jr. Geologist	mohit.sharma@enkayenviro.com	6350049393	Enkay Enviro Services Pvt. Ltd
64	Representative				CGM Gujarat
65	Representative				JEMCL
66	Representative				PRB Infra Projects Private Limited
67	Representative				Mining Tech Consultancy Services Limited
68	Representative				United Exploration India Pvt. Ltd. (UEIPL)
69	Representative				Envirogreen Consultants (India) Private Limited
70	Representative				GEMS Projects Private Limited
71	Representative				Earthenviro Lab Private Limited
72	Shri Sudeep Manish Toppo	Director	sudeep.toppo@gsi.gov.in	9065146048	GSI
73	Smt. Anju C. S	Superintending Geologist	nmet.mines@gov.in	8588836933	NMET
74	Ms. Bishakha	Sr. Geologist	nmet.mines@gov.in	8126541605	NMET
75	Shri. Rajesh Sharma	Sr. Geologist	nmet.mines@gov.in	8377851047	NMET
76	Shri. Monu Tomar	Sr. Geophysicist	nmet.mines@gov.in	-	NMET
77	Smt. Palak Kapoor	Sr. Geologist	nmet.mines@gov.in	-	NMET
78	Shri. Akshay Verma	Geologist	nmet.mines@gov.in	9167919949	NMET
79	Manish Kumar	Geophysicist	nmet.mines@gov.in	-	NMET

Annexure 2A							
Estimated cost for Preliminary Exploration (G-3) for Bauxite and associated minerals in Nundhatad Block, Districts: Kachchh, State: Gujarat							
[Block area-5.12 sq. km; Schedule timeline- 12 months; BH-10 nos; Drilling- 300m; Review- After 6 months]							
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 (1:4000 scale) & TOPOGRAPHICAL SURVEY (1:4000 scale)						
i	Charges for one Geologist- Field	day	1.3	11,000	150	1,650,000	
ii	Charges for one Geologist per-HQ	day	1.3	9,000	60	540,000	
iii	2 labours/ party (As per rates of Central Labour Commissioner)	day	5.7	541	300	162,300	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	71	362,100	
v	4 labours/ party (As per rates of Central Labour Commissioner)	day	5.7	541	284	153,644	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,	day	1.6. 1a	8,300	30	249,000	

	block boundary and borehole points fixation						
vii	4 labours for surveyor	day	5.7	541	120	64,920	
	Sub Total- A					3,181,964	
B	PITTING AND TRENCHING						
i	Pitting	Cu m	2.1.2	3800	100	380,000	
ii	Trenching	Cu m	2.1.1	3330	-	-	
	Sub Total- B					380,000	
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	300	1,260,000	BH-200, BRS-50, Pit-50
	b. For each additional trace elements viz. V, Sc & Ga	Nos	4.1.15b	1,263	200	252,600	From BH primary samples
	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	30	126,000	
	d. External (10%) Check samples for each additional trace elements viz. V, Sc & Ga	Nos	4.1.15b	1,263	20	25,260	3 elements @ Rs.431 for each element
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	154,620	Samples to be taken from the lithomerge & Bentonite clay horizons. Orientation survey for REE zone from pits.
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	
						2,069,640	
D	DRILLING						
i	Drilling upto 300m (Soft Rock) (1 rigs)	m	2.2.1.1b	7,168	300	2,150,400	Boreholes will be taken up subject to review by TCC-II NMET committee
ii	Land / Crop Compansation	per BH	5.6	20,000	10	200,000	
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	4,932	177,552	As per actual
v	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	3	150,000	
vi	Drilling Camp Setting Cost	Nos	2.2.9a	250,000	2	500,000	
vii	Drilling Camp Winding up Cost	Nos	2.2.9b	250,000	2	500,000	
viii	Approach Road Making	Km	2.2.10a	22,020	2	44,040	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	14	268,800	10 Boreholes+ 4 Block Boundary points
x	Drill core preservation: One complete borehole plus mineralised cores of all the remaining Bhs	m	5.3	1,590	150	238,500	This amount will be reimbursed after successful delivery of the cores to concerned libraries/authorities
	Sub Total- D					4,249,292	
E	Total A to D					9,880,896	
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		494,045	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.

				lakhs or 5% of the value of work whichever is more			
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		197,618	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					10,602,559	
J	Provision for GST (18% of I)					1,908,461	GST will be reimburse as per actual and as per notified prescribed rate
K	Total Estimated Cost with GST					12,511,019	
	or Say Rs. In Lakhs					125.11	
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 2B															
Time Schedule/ Action Preliminary Exploration (G-3) for Bauxite and associated minerals in Nundhatad Block, Districts: Kachchh, State: Gujarat															
S. No.	Particulars	Months/ Days	1	2	3	4	5	6	Review	7	8	9	10	11	12
1	Camp Setting	months													
2	Geological Mapping & BR sampling	months													
3	Survey days (Topographic survey & BH/BB survey)	days													
5	Trenching/Pitting	cu.m													
6	Drilling (2 rigs)	m													
7	Geologist days	days													
8	Sampling days, BRS, Pit & Core Sampling	days													
9	Camp winding	months													
10	Laboratory Studies	months													
11	Geologist days, HQ	days													
12	Report Writing with Peer Review	months													

Estimated Cost for Reconnaissance Survey (G-4) For REE & associated minerals in Pipargaon Area, Districts:**West Karbi Anglong, State: Assam****Total Area - 65 sq km; Scout Boreholes: 10 Nos, Average Depth: 50 m , Auger Drilling: 150m , Auger Borehole: 30 Nos, Average Depth: 5m****Completion Time -11 Months (01 month for obtaining NoC), Review after 6 Months****ANNEXURE-I**

S.N	Item of Work	Unit	Rates as per NMET SoC 2020-21			Estimated Cost of the Proposal		Remarks
			SoC-Item -SI No.	Rates as per SoC	Rates as per SoC North Eastern States and Hilly Terrain of Himalaya (3.35 times than the normal SoC rate)	Qty.	Total Amount (Rs)	
A	GEOLOGICAL WORK							
a	Charges for Geologist at HQ for data processing	day	1.3	9,000	-	60	540,000	
b	Charges for Geologist at field for LSM mapping at 1:12500	day	1.2	11,000	36,850	180	6,633,000	Hilly Tearrain with Forest area




	scale, Surface sampling, Pitting and Scout Drilling							
c	Labour Charges for Geologist at Field	day	5.7	541	1,812	360	652,320	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
d	Charges for Sampler for geochemical, channel, Pit and BH Core Samples	one sampler per day	1.5.2	5,100	17,085	70	1,195,950	
e	Labour Charges for Sampling Work; Base rate - Rs. 522/ per day	day	5.7	541	1,812	280	507,360	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub-Total A						9,528,630	
B	PITTING							
a	PITTING	Cu m	2.1.2	3,800	12,730	10	127,300	A total 5 Nos of Pit with average Depth of 2.00 m = 10 Cu. m
	Sub-Total B						127,300	

C	DRILLING							
1	Auger Drilling soft Strata	m	2.2.2	4,760	15,946	150	2,391,900	30 BH X 5 m Depth =150 m
2	Core Drilling up to depth of 300m - Hard Rock- After Review	m	2.2.1.4a	11,500	38,525	500	19,262,500	50 m Depth X 10 Nos of BH = 500 m
3	Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS (including charges for labours deployed for the work)	Per point of observation	1.6.2	19,200	64,320	10	643,200	10 Nos of Scout BHs
4	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	67,000	10	670,000	
5	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	6,700	10	67,000	
6	Transportation of Drill Rig & Truck associated per drill	Km	2.2.8	36	121	4,000	484,000	Approx 4000 km to & fro from Nagpur/ Rig
7	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	167,500	3	502,500	
8	Drilling Camp Setting Cost	Nos	2.2.9a	250,000	837,500	1	837,500	
9	Drilling Camp Winding up Cost	Nos	2.2.9b	250,000	837,500	1	837,500	
10	Road Making (Hilly Terrain)	Km	2.2.10b	32,200	107,870	5	539,350	
11	Drill Core Preservation	Per m	5.3	1,590	5,327	200	1,065,400	

	Sub-Total C						27,300,850	
D	Sub Total A to C						36,956,780	
E	Mineral Separation							
1	Seperation of Mineral by isodynamic separator	per sample	4.3.5	3640		125	455,000	50 Nos of BRS Samples and 15 Nos of Pit samples, 60 Nos of Auger samples * Item will be Outsourced as this facility is not available with MECL
	Sub-Total E						455,000	
F	LABORATORY STUDIES							
1	<u>Chemical Analysis</u>							
	Primary Samples Surface + Pit + Heavy Minerals+BH Core Samples)							
i)	Primary samples							
	REE associated Trace Elements including Nb, Ta, Cs, Y, U , Th, Sc (34 Element) by ICPMS	Nos	4.1.14	7,731		490	3,788,190	145 Nos of Heavy samples in Two Fractions, Hence 290 Nos of Samples. + Core Sample: 200
ii)	External check samples (10%)							

	REE associated Trace Elements including Nb, Ta, Cs, Y, U, Th, Sc (34 Element) by ICPMS	Nos	4.1.14	7,731		49	378,819	
iii)	Whole Rock Analysis for Major Oxides by XRF technique	Nos	4.1.15a	4,200		20	84,000	
2	<u>Physical & Petrological Studies</u>							
i)	Preparation of thin section	Nos	4.3.1	2,353		15	35,295	
ii)	Complete petrographic study report	Nos	4.3.4	4,232		15	63,480	
iii)	Preparation of polish section	Nos	4.3.2	1,549		15	23,235	
iv)	Complete mineragraphic study report	Nos	4.3.4	4,232		15	63,480	
v)	Digital Photographs	Nos	4.3.7	280		20	5,600	
vi)	EPMA Study	Hour	4.4.1	8,540		15	128,100	
vii)	XRD Study	Nos	4.5.1	4,000		30	120,000	
	Sub-Total -F						4,690,199	
G	Total D+E+F						42,101,979	

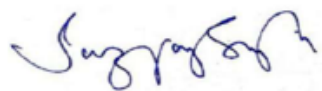



H	Geological Report Preparation	5 Hard copies with a soft copy	5.2	For the projects having cost exceeding Rs 300 Lakh, A minimum of Rs 9 Lakh or 3% of the work whichever more and Rs 10000/- per each additional copy			1,263,059	EA has to submit the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
I	Peer review Charges		As per EC decision				30,000	
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. 5.00 Lakhs whichever is lower			500,000	EA has to submit the Hard Copies and the soft copy of the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while




								clearing the proposal.
K	Total Estimated Cost without GST						43,895,038	
L	Provision for GST (18% of L)	%					7,901,107	GST will be reimburse as per actual and as per notified prescribed rate
M	Total Estimated Cost with GST						51,796,145	
or Say Rs. , In Lakhs:							517.96	
Note:								
\$	Trenching/Pitting dimensions are tentative may vary depending upon the geology and field conditions							
#	2nd level of work shall be carried out after review of 1st level work i.e. Geological mapping, geochemical sampling and analysis							
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.							
Note - 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 execusion of the project by NEA on its own, a Certifiате regarding non outsourcing of any component/project is required.								

Time Schedule/ Action for Reconnaissance Survey (G-4) for REE & associated minerals in Pipargaon Area, West Karbi Anglong District, Assam														
S. No.	Particulars	Months/ Days	1	2	3	4	5	6	Review	7	8	9	10	11
1	Camp Setting	months												
2	Geological Mapping & BR sampling	months												
3	Survey days (Topographic survey & BH/BB survey)	days												
5	Trenching/Pitting	cu.m												
6	Drilling (2 rigs)	m												
7	Geologist days	days												
8	Sampling days, BRS, Pit & Core Sampling	days												
9	Camp winding	months												
10	Laboratory Studies	months												
11	Geologist days, HQ	days												
12	Report Writing with Peer Review	months												




Annexure 4A

**Estimated Cost for Preliminary Exploration for Limestone in Indroi-Mandor block , Gir Somnath District, Gujarat Area: 10.19 sq.km,
BH Nos.: 11, Depth: 20m, Drilling : 220 m, Timeline : 8 months , Review : After 4 months**

S. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item - SI No.	Rates as per SoC	Qty.	Total Amount (Rs)	
A	Geological Mapping Other Geological Work & Surveying						
	Geological mapping, (1:4000 scale) & drilling work						
i	a. Charges for Geologist per day (Field) for geological mapping & drilling work	day	1.3b	11,000	90	990,000	Detailed Geological Mapping on scale 1:4000
ii	b. Labours Charges (2 Nos)	day	5.7	541	180	97,380	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	1.3a	9,000	60	540,000	

	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	34	1,73,400	
	e. Labours (4 Nos)	day	5.7	541	136	73,576	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub Total- A					18,74,356	
B	Ground Geophysical Survey						
1	IP. Induced Polarization (I.P) cum Resistivity S.P and Magnetic (30 Lkm)	8-10 Line Km				-	
3	Geophysicist party days (Field)	per day				-	
4	c. Labours Charges	day				-	
5	Geophysicist party days (HQ)	per day				-	
	Sub Total- B					-	
C	Survey work						
a	DGPS Survey for BH fixation & RL determination/ Boundary Point	Per Point of observation	1.6.2	19200	15	288000	
b	Charges of Surveyor (1 party) for survey layout work & Block boundary demarcation	one surveyor per day	1.6.1a	8,300	30	249000	Topographic survey - contour interval: 4 m.

c	Labours Charges for survey work; (4 Nos)	day	5.7	541	120	64920	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub-Total C					601,920	
D	Trenching/Pitting						
	a) Excavation of Trenches	per cu.m					
E	DRILLING (after review)- Outsourced						
1	Drilling (Outsourcing)	m	2.2.1.1b	7,168	220	1,576,960	800 x 800 meters grid spacing, Charges as per MoC
2	Borehole deviation Survey by Multishot Camera	m					
3	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH					
4	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7 a	2000	0	-	
5	Transportation of Drill Rig & Truck associated per drill (2 rigs)	Km					
6	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month					

7	Drilling Camp Setting Cost	Nos					
8	Drilling Camp Winding up Cost	Nos					
9	Road Making (Flat Terrain)	Km					
10	Drill Core Preservation	per m	5.3	1,590	220	349,800	
	Sub Total E					1,926,760	
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. Primary analysis (major oxides by XRF analysis)	Nos	4.1.15a	4,200	30	126,000	Bed rock samples
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos					
	c. For PGE by Fire Assay	Nos					
ii)	Surface Check samples (10% External)						
	a. Primary analysis (major oxides by XRF analysis)	Nos	4.1.15a	4,200	3	12,600	

	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos					
	c. For PGE	Nos					
iii)	Trench & Check Samples from Trench						
	Trench samples						
	a. Au by Fire Assay	Nos					
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos					
	c. For PGE	Nos					
iv)	Trench Check samples (10% External)						
	a. Au by Fire Assay	Nos					
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos					
	c. For PGE	Nos					
v)	BH Core samples						
	a. Primary analysis (major oxides by XRF analysis)	Nos	4.1.15a	4,200	220	924,000	
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by ICPMS-34 elements	Nos					
	c. For PGE	Nos					
vi)	BH Core samples (10% External)						
	a. Primary analysis (major oxides by XRF analysis)	Nos	4.1.15a	4,200	22	92,400	

	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos					
	c. For PGE	Nos					
2	<u>Physical & Petrological Studies</u>						
i	Preparation of thin section	Nos	4.3.1	2,353	10	23,530	
ii	Study of thin section	Nos	4.3.4	4,232	10	42,320	
iii	Preparation of polish section	Nos				-	
iv	study of polished section	Nos				-	
v	Digital Photographs	Nos	4.3.7	280	5	1,400	
vi	Whole Rock Analysis	Nos				-	
vii	Bulk Density	Nos	4.10	3,540	5	17,700	
	SEM Studies	per hour				-	
viii	EPMA studies	per hour				-	
	Sub Total G					1,239,950	
H	Total A to G					56,42,986	
I	Geological Report Preparation	5 Hard copies with a soft copy	5.2	Exploration cost exceeding 50 lakh but less than 150 lakhs: A Minimum of ₹2.5 lakh or 5% of the work whichever is more.		2,82,149	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.

J	Peer review Charges		As per EC decision			30,000	
K	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5.00 Lakhs whichever is less		112,860	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.
	Tender Process		2.3	2% of the Cost or Rs. 5.00 Lakhs whichever is lower		31,539.20	
	Operational Charges		6 (i)	10 % of the total outsourced component		157,696.00	
L	Total Estimated Cost without GST					62,57,230	
M	Provision for GST (18%)					1,126,301	GST will be reimburse as per actual and as per notified prescribed rate
N	Total Estimated Cost with GST					73,83,532	
				or Say Rs. In Lakhs		73.84	
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 4B

Time Schedule/ Action plan of Preliminary Exploration for Limestone in Indroi-Mandor block , Gir Somnath District, Gujarat											
Sl. No.	Activities	Unit	MONTHS				Review	5	6	7	8
			1	2	3	4					
1	Camp Setting	Month									
2	Surface Drilling	m.									
3	Survey Party days (1 Party)	day									
4	Geologist Party days in field (1 Party)	day									
5	Sampling Party days, Core Sampling (1 party)	day									
6	Laboratory Studies	Nos.									
7	Camp Winding	Month									
8	Geologist Party days in HQ (1 Party)	day									
9	Geological Report Writing with Peer Review	Month									

Annexure 5A

**Estimated Cost for Preliminary Exploration for Limestone in Harnasa-Umbri block , Gir Somnath District, Gujarat Area: 9.15 sq.km,
BH Nos.: 12, Depth: 20m, Drilling : 240 m, Timeline : 8 months , Review : After 4 months**

S. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item - SI No.	Rates as per SoC	Qty.	Total Amount (Rs)	
A	Geological Mapping Other Geological Work & Surveying						
	Geological mapping, (1:4000 scale) & drilling work						
i	a. Charges for Geologist per day (Field) for geological mapping & drilling work	day	1.3b	11,000	90	990,000	Detailed Geological Mapping on scale 1:4000
ii	b. Labours Charges (2 Nos)	day	5.7	541	180	97,380	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	1.3a	9,000	60	540,000	
	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	37	188,700	
	e. Labours (4 Nos)	day	5.7	541	148	80,068	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub Total- A					1,896,148	
B	Ground Geophysical Survey						
1	IP. Induced Polarization (I.P) cum Resistivity S.P and Magnetic (30 Lkm)	8-10 Line Km				-	
3	Geophysicist party days (Field)	per day				-	
4	c. Labours Charges	day				-	
5	Geophysicist party days (HQ)	per day				-	
	Sub Total- B					-	
C	Survey work						

a	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.6.2	19200	16	307200	
b	Charges of Surveyor (1 party) for survey layout work & Block boundary demarcation	one surveyor per day	1.6.1a	8,300	30	249000	Topographic survey - contour interval: 4 m.
c	Labours Charges for survey work; (4 Nos)	day	5.7	522	120	62640	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub-Total C					618,840	
D	Trenching/Pitting						
	a) Excavation of Trenches	per cu.m					
E	DRILLING (after review)						
1	Drilling (Outsourcing)	m	2.2.1.1b	7,168	240	1,720,320	800 x 800 meters grid spacing, Charges as per MoC
2	Borehole deviation Survey by Multishot Camera	m					
3	Land / Crop Compansation (in case	per BH					

	the BH falls in agricultural Land)						
4	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7 a	2000	0	-	
5	Transportation of Drill Rig & Truck associated per drill (2 rigs)	Km					
6	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month					
7	Drilling Camp Setting Cost	Nos					
8	Drilling Camp Winding up Cost	Nos					
9	Road Making (Flat Terrain)	Km					
10	Drill Core Preservation	per m	5.3	1,590	240	381,600	
	Sub Total E					2,101,920	
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. Primary analysis (major oxides by XRF analysis)	Nos	4.1.15a	4,200	30	126,000	Bed rock samples
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos					
	c. For PGE by Fire Assay	Nos					
ii)	Surface Check samples (10% External)						
	a. Primary analysis (major oxides by XRF analysis)	Nos	4.1.15a	4,200	3	12,600	
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos					
	c. For PGE	Nos					
iii)	Trench & Check Samples from Trench						
	Trench samples						
	a. Au by Fire Assay	Nos					




	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos					
	c. For PGE	Nos					
iv)	Trench Check samples (10% External)						
	a. Au by Fire Assay	Nos					
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos					
	c. For PGE	Nos					
v)	BH Core samples						
	a. Primary analysis (major oxides by XRF analysis)	Nos	4.1.15a	4,200	240	1,008,000	
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by ICPMS-34 elements	Nos					
	c. For PGE	Nos					
vi)	BH Core samples (10%External)						




	a. Primary analysis (major oxides by XRF analysis)	Nos	4.1.15a	4,200	24	100,800	
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos					
	c. For PGE	Nos					
2	<u>Physical & Petrological Studies</u>						
i	Preparation of thin section	Nos	4.3.1	2,353	10	23,530	
ii	Study of thin section	Nos	4.3.4	4,232	10	42,320	
iii	Preparation of polish section	Nos				-	
iv	study of polished section	Nos				-	
v	Digital Photographs	Nos	4.3.7	280	5	1,400	
vi	Whole Rock Analysis	Nos				-	
vii	Bulk Density	Nos	4.10	3,540	5	17,700	
	SEM Studies	per hour				-	
viii	EPMA studies	per hour				-	
	Sub Total G					1,332,350	
H	Total A to G					5,949,258	

I	Geological Report Preparation	5 Hard copies with a soft copy	5.2	Exploration cost exceeding 50 lakh but less than 150 lakhs: A Minimum of ₹2.5 lakh or 5% of the work whichever is more.		297,463	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
J	Peer review Charges		As per EC decision			30,000	
K	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5.00 Lakhs whichever is less		118,985	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.
	Tender Process		2.3	2% of the Cost or Rs. 5.00 Lakhs whichever is lower		34,406	




	Operational Charges		6 (i)	10 % of the total outsourced component		172,032	
L	Total Estimated Cost without GST					6,602,144	
M	Provision for GST (18%)					1,188,386	GST will be reimburse as per actual and as per notified prescribed rate
N	Total Estimated Cost with GST					7,790,530	
				or Say Rs. In Lakhs		77.91	
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 5B

Time Schedule/ Action plan of Preliminary Exploration for Limestone in Harnasa-Umbri block , Gir Somnath District, Gujarat

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




Annexure 6A

Estimated Cost for Preliminary Exploration for Limestone in Govindpara-Savni Block, Gir Somnath District, Gujarat

Area: 4.45 sq.km,

BH Nos.: 07, Depth: 20m, Drilling : 140 m, Timeline : 6 months , Review : After 3 months

S. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item -SI No.	Rates as per SoC	Qty.	Total Amount (Rs)	
A	Geological Mapping Other Geological Work & Surveying						
	Geological mapping, (1:4000 scale) & drilling work						
i	a. Charges for Geologist per day (Field) for geological mapping & drilling work	day	1.3b	11,000	60	660,000	Detailed Geological Mapping on scale 1:4000
ii	b. Labours Charges (2 Nos)	day	5.7	541	120	64,920	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher

	c. Charges for Geologist per day (HQ)	day	1.3a	9,000	30	270,000	
	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	23	117,300	
	e. Labours (4 Nos)	day	5.7	541	92	49,772	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub Total- A					1,161,992	
B	Ground Geophysical Survey						
1	IP. Induced Polarization (I.P) cum Resistivity S.P and Magnetic (30 Lkm)	8-10 Line Km				-	
3	Geophysicist party days (Field)	per day				-	
4	c. Labours Charges	day				-	
5	Geophysicist party days (HQ)	per day				-	
	Sub Total- B					-	
C	Survey work						

a	DGPS Survey for BH fixation & RL determination/ Boundary Point	Per Point of observation	1.6.2	19200	11	211200	
b	Charges of Surveyor (1 party) for survey layout work & Block boundary demarcation	one surveyor per day	1.6.1a	8,300	20	166000	Topographic survey - contour interval: 4 m.
c	Labours Charges for survey work; (4 Nos)	day	5.7	541	80	43280	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub-Total C					420,480	
D	Trenching/Pitting						
	a) Excavation of Trenches	per cu.m					
E	DRILLING (after review)						
1	Drilling (Outsourcing)	m	2.2.1.1b	7,168	140	1,003,520	800 x 800 meters grid spacing, Charges as per MoC
2	Borehole deviation Survey by Multishot Camera	m					

3	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH					
4	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7 a	2000	7	14,000	
5	Transportation of Drill Rig & Truck associated per drill (2 rigs)	Km					
6	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month					
7	Drilling Camp Setting Cost	Nos					
8	Drilling Camp Winding up Cost	Nos					
9	Road Making (Flat Terrain)	Km					
10	Drill Core Preservation	per m	5.3	1,590	140	222,600	
	Sub Total E					1,240,120	
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. Primary analysis (major oxides by XRF analysis)	Nos	4.1.15a	4,200	30	126,000	Bed rock samples
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos					
	c. For PGE by Fire Assay	Nos					
ii)	Surface Check samples (10% External)						
	a. Primary analysis (major oxides by XRF analysis)	Nos	4.1.15a	4,200	3	12,600	
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos					
	c. For PGE	Nos					

iii)	Trench & Check Samples from Trench						
	Trench samples						
	a. Au by Fire Assay	Nos					
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos					
	c. For PGE	Nos					
iv)	Trench Check samples (10% External)						
	a. Au by Fire Assay	Nos					
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos					
	c. For PGE	Nos					
v)	BH Core samples						
	a. Primary analysis (major oxides by XRF analysis)	Nos	4.1.15a	4,200	140	588,000	
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by ICPMS-34 elements	Nos					

	c. For PGE	Nos					
vi)	BH Core samples (10%External)						
	a. Primary analysis (major oxides by XRF analysis)	Nos	4.1.15a	4,200	14	58,800	
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos					
	c. For PGE	Nos					
2	<u>Physical & Petrological Studies</u>						
i	Preparation of thin section	Nos	4.3.1	2,353	5	11,765	
ii	Study of thin section	Nos	4.3.4	4,232	5	21,160	
iii	Preparation of polish section	Nos				-	
iv	study of polished section	Nos				-	
v	Digital Photographs	Nos	4.3.7	280	5	1,400	
vi	Whole Rock Analysis	Nos				-	
vii	Bulk Density	Nos	4.10	3,540	3	10,620	
	SEM Studies	per hour				-	
viii	EPMA studies	per hour				-	

	Sub Total G					830,345	
H	Total A to G					3,652,937	
I	Geological Report Preparation	5 Hard copies with a soft copy	5.2	Exploration cost up to 50 lakh : A Minimum of ₹1.5 lakh or 5% of the work whichever is more.		182,647	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
J	Peer review Charges		As per EC decision			30,000	
K	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5.00 Lakhs whichever is less		73,059	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.
	Tender Process		2.3	2% of the Cost or Rs. 5.00 Lakhs whichever is lower		20,070	

	Operational Charges		6 (i)	10 % of the total outsourced component		100,352.00	
L	Total Estimated Cost without GST					4,059,065	
M	Provision for GST (18%)					730,632	GST will be reimburse as per actual and as per notified prescribed rate
N	Total Estimated Cost with GST					4,789,697	
				or Say Rs. In Lakhs		47.90	
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 of Preliminary Exploration for Limestone in Govindpara-Savni Block, Gir Somnath District, Gujarat

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




Annexure 7A							
Estimated Cost for Preliminary Exploration (G3) for Limestone in Ishwariya Block , Gir somnath District, Gujarat							
Area: 3.43 sq.km, Drilling : 120m - 6 Bh, Depth 20m depth , Timeline : 10 months , Review : after 4 months							
Item	Item of Work	Item	SOR Sr No & Rates		Estimated Cost		Remarks
SrNo.	Item	Unit	Sr. No.	Rates	Qty.	Amount(Rs)	
A	Survey work						
1	DGPS Survey BH fixation and RL determination (6 BHP & 5 BP)	Per Point	1.6.2	19,200	11	211200	
2	Topographic survey with 2m contour interval and geological mapping in 1:4000	day	1.6.1a	8300	30	249000	
	4 No labors for survey work	day	5.7	541	120	64920	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub Total- A					525120	
B	GEOLOGICAL WORK						
i	Charges for one Geologist-Field	day	1.2	11,000	120	1320000	
ii	Charges for one Geologist per-HQ	day	1.2	9,000	60	540000	
iii	2labours/party	day	5.7	541	240	129840	Amount will be reimbursed as per

							the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
iv	Sampling-1Samplers	day	1.5.2	5,100	23	117300	
v	Sampling4labours/party	day	5.7	541	92	49772	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	SubTotal- B					2156912	
C	LABORATORY STUDIES						
1	Chemical Analysis						
i	A.ChemicalAnalysis;Primary core samples for 6 radicals i.e. CaO, MgO, Al2O3, SiO2, Fe2O3 and LOI	Nos	4.1.15a	4,200	120	504000	
	Chemical Analysis; Primary Surface (BR) samples for 6 radicals i.e. CaO, MgO, Al2O3, SiO2, Fe2O3 and LOI	Nos	4.1.15a	4,200	40	168000	
	ExternalChecksamplforanalysisof6radicals	Nos	4.1.15a	4,200	16	67200	




ii	Composite Samples For 12 determinations (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.- Conventional Wet chemical method	Nos	4.1.1	8,157	6	48942	
						0	
2	Physical, Petrological, Mineralogical Studies					0	
						0	
i	XRD studies for identification of minerals (Random)	Nos	4.5.1	4000	0	0	
						0	
vi	Digital Photographs	Nos	4.3.7	280	10	2800	
vi	Preparation of thin sections		4.3.1	2353	10	23530	
vii	Complete petrographic report		4.3.4	4232	10	42320	
3	Geotechnical Laboratory					0	
i	Bulk Density	Nos	4.10	3540	5	17700	
	SubTotal- C					874492	
D	DRILLING - In-House						
i	Core Drilling(BH06Nos)xEach20Mtr	m	2.2.1.1b	7,168	120	860160	
ii	Land/Crop Compensation (As Per Requirement)	Per BH	5.6	20,000	3	60000	
iii	Construction of concrete Pillar(3BHP+5BP)	Per BH	2.2.7a	2,000	11	22000	
iv	Transportation of Drill Rig & associated (1Rig	Km	2.2.8	36	2,812	101232	To and Fro from Nagpur

v	Monthly Accommodation Charges for drilling Camp	month	2.2.9	50,000	3	150000	
vi	Drilling Camp Setting Cost	Nos	2.2.9a	250,000	1	250000	
vii	Drilling Camp Winding up Cost	Nos	2.2.9b	250,000	1	250000	
viii	Approach Road Making (Flat Terrain)	Km	2.2.10a	22,020	5	110100	As per actual
ix	Core Preservation.	m	5.3	1,590	120	190800	
	SubTotal- D					1994292	
	Total A to D					5550816	
G	Geological Report Preparation(A minimum of Rs. 2.5 lakhs or 5% of the total value of work whichever is more)	1No.	5.2			277541	
H	Peer review Charges	1No.		30000		30000	
I	Preparation of Exploration Proposal	1No.	5.1			111016	
J	Total Estimated Cost without GST					5969373	
K	ProvisionforGST(18% ofI)					1074487	
L	Total Estimated Cost with GST					7043860	
	Rs in lakhs					70.43	
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 7B													
Time Schedule/ Action plan of Preliminary Exploration (G3) for Limestone in Ishwariya Block , Gir somnath District, Gujarat													
Implementing Agency: M/s PRB Infra Projects Private Limited													
Sl. No.	Activities	Unit	MONTHS										
			1	2	3	4	Review	5	6	7	8	9	10
1	Camp Setting	Month											
2	Surface Drilling	m.											
3	Survey Party days (1 Party)	day											
4	Geologist Party days in field (1 Party)	day											
5	Sampling Party days, Core Sampling (1 party)	day											
6	Laboratory Studies	Nos.											
7	Camp Winding	Month											
8	Geologist Party days in HQ (1 Party)	day											
9	Geological Report Writing with Peer Review	Month											




Annexure 8A

Estimated Cost for Reconnaissance Survey (G4) for Gold, Base Metal & Associated Minerals in Pidariya - Nawanagar areas, Singrauli District, Madhya Pradesh, Area- 37.0 sq. km, No.of BH:5, Borehole depth range- 100m; Schedule timeline- 10 months, Review: After 4 & 8 Months							
S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	
A	Geological Mapping Other Geological Work & Surveying						
i	Charge for procurement of Satellite Imagery (CartoSat-1 PAN-CartoDEM-2.5m) for Remote sensing, multispectral and DEM data analysis	Lumpsum	1.1	6290	2	12,580	IRS Satellite Data Products Price list S.No.5.4(@ INR 6290 / Scene), Satellite imagery/ Aerial Photo
ii	Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.2	11,000	140	1,540,000	
iii	Labours Charges; Base rate	day	5.7	541	280	151,480	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
iv	Charges for Geologist per day (HQ)	day	1.2	9,000	60	540,000	

v	Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	42	2,14,200	
vi	Labours (4 Nos)	day	5.7	541	168	90,888	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub Total- A					25,49,148	
B	Ground Geophysical Survey - In House						
a	Induced Polarization (I.P) cum Resistivity S.P and Magnetic	8-10 Line Km	3.4b	1,448,693	5	7,243,465	50Lkm Estimated
b	Geophysicist party days (Field)	per day	3.18	11,000	0	-	1 Geophysicist will be deployed
c	Charge of Surveyor for Geophysical survey layout work	per day	1.6.1a	8,300	0	-	
d	Labours Charges - 4 No.	day	5.7	526	0	-	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
e	Geophysicist party days (HQ)	per day	3.18	9,000	15	135,000	1 Geophysicist will be deployed
	Sub Total- B					7,378,465	
C	Survey work						

a	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.6.2	19,200	-	-	
b	Charges of Surveyor (1 party) for Geophysical survey layout work & Block boundary demarcation	one surveyor per day	1.6.1a	8,300	-	-	
c	Labours Charges for survey work;	day	5.7	526	-	-	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub-Total C					-	
D	Trenching/Pitting						
	a) Excavation of Trenches	per cu.m	2.1.1	3,300	100	330,000	
E	DRILLING (after review)- In - House						
1	Drilling up to 300m (Hard Rock)	m	2.2.1.4a	11,500	500	5,750,000	5 inclined boreholes with 100m depth of drilling for each hole.
2	Borehole deviation Survey by Multishot Camera	m	2.2.6	330	500	165,000	
3	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	4	80,000	
4	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	5	10,000	

5	Transportation of Drill Rig & Truck associated per drill (2 rigs)	Km	2.2.8	36	900	32,400	1 Rig, To & Fro from Raigarh, Chhattisgarh
6	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	2	100,000	Total 2 months considered for completion of scout drilling
7	Drilling Camp Setting Cost	Nos	2.2.9a	250,000	1	250,000	
8	Drilling Camp Winding up Cost	Nos	2.2.9b	250,000	1	250,000	
9	Road Making (Flat Terrain)	Km	2.2.10a	22,020	10	220,200	As per actuals
10	Drill Core Preservation	per m	5.3	1,590	150	238,500	
11	Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes by DGPS	Per Point of observation	1.6.2	19,200	5	96,000	
12	Charge of Surveyor for Borehole fixation	day	1.6.1a	8,300	0	-	
13	Labor (Field) - 2 No for Survey work	day	5.7	526	0	-	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub Total E					7,192,100	
F	Borehole Geophysical Logging	5 Bhs of 350m each	3.12	1,088,941	-	-	
G	LABORATORY STUDIES						
1	Chemical Analysis						

i	Fire Assay - Au	Nos	4.1.5a	2,380	121	287,980	BRS: 25 , Trench : 25 , CS : 60 + 11 External Check samples.Mineralised protion of BRS, Trench and BH are to be analysed.
ii	Fire Assay - Ni, PGE, Cr (ICP-MS Ni-S Fire Assay technique)	Nos	4.1.5d	11,800	5	59,000	
iii	Whole Rock analysis - Major Oxides	Nos	4.1.15a	4,200	10	42,000	(BRS+ Core Samples)To be done for same samples. Important fresh rock samples from different rock suites in the area need to be analysed
						-	
	Analysis of one rock/ soil sample for determination of a package by 34 elements by ICP-AES / ICPMS (sequential technique)	Nos	4.1.14	7,731	10	77,310	
iv	5 radicals (Cu, Pb, Zn, Ni, Co) analysis by AAS method	Nos	4.1.7a	2,506	137	343,322	BRS: 50 , Trench : 25 , CS: 50 + 12 External Check samples
v	Radical (Fe, Al ₂ O ₃ , P, SiO ₂) analysis by XRF	Nos	4.1.15a	4,200	55	231,000	S 50+5 External check Samples, specifically for BIFs (Iron), the remaining package elements also included
2	<u>Physical & Petrological Studies</u>						
i	Preparation of thin section	Nos	4.3.1	2,353	10	23,530	
ii	Study of thin section	Nos	4.3.4	4,232	10	42,320	

iii	Preparation of polish section	Nos	4.3.2	1,549	10	15,490	
iv	study of polished section	Nos	4.3.4	4,232	10	42,320	
v	Digital Photographs	Nos	4.3.7	280	10	2,800	
vi	Whole Rock Analysis	Nos	4.1.15a	4,200	0	-	
vii	Bulk Density	Nos	4.10	3,540	5	17,700	
viii	SEM Studies	per hour	4.4.2	2,940	-	-	
ix	EPMA studies	per hour	4.4.1	8,540	10	85,400	
x	XRD Analysis	Nos	4.5.1	4,000	10	40,000	
						1,310,172	
H	Total A to G					1,87,59,885	
I	Geological Report Preparation	5 Hard copies with a soft copy	5.2 (iii)			750,000	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
J	Peer review Charges		As per EC decision			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. 5.00 Lakhs whichever is less		3,75,198	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				1,99,15,083	
M	Provision for GST (18% of L)				35,84,715	GST will be reimburse as per actual and as per notified prescribed rate
N	Total Estimated Cost with GST				2,34,99,798	
				or Say Rs. In Lakhs	235.00	
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 8B															
Time Schedule/ Acton Plan for Reconnaissance Survey (G4) for Gold, Base Metal & Associated Minerals in Pidariya - Nawanagar areas, Singrauli District, Madhya Pradesh,															
S. No.	Activity		1	2	3	4	Review	5	6	7	8	Review	9	10	
1	Desktop study with Remote sensing, multispectral and DEM data analysis	HQ													
2	Camp setting	Field													
3	Geological Mapping (including surface & stream sediment sampling)	Field													
4	Geophysical survey (including mobilization & data acquisition)	Field													
5	Geophysical survey (interpretation & report)	HQ													
6	Trenching (including logging, sampling etc)	Field													
7	Drill Rig mobilization	Field													
8	Scout Drilling	Field													
9	Laboratory Studies of Samples	Field													
10	Geological Report Preparation & submission to NMET	HQ													

Annexure 9A

**Estimated Cost for Reconnaissance Survey (G4 Stage) for Rare Earth Elements (REE) & Rare Metals (RM)
in Meghawas-Nagana area, Barmer District, Rajasthan
Area: 18.00 sq.km, Schedule timeline: 05 months**

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	
A	Geological Mapping Other Geological Work & Surveying						
	Geological mapping (1:12,500 scale), pitting & geochemical sampling						
1	Charges for Geologist per day (Field) for geological mapping, pitting & geochemical sampling	day	1.2	11,000	60	660,000	
2	Labours Charges; Base rate	day	5.7	541	120	64,920	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
4	Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	14	71,400	
5	Labours (4 Nos) for sampling	day	5.7	541	56	30,296	




3	Charge for procurement of Satellite Imagery (CartoDEM, 2.5m posting, DSM, 14km x 14km scene) for Remote sensing, multispectral and DEM data analysis)	day	1.1	6,290	1	6,290	IRS Satellite Data Products Price list S.No.5.4(@ INR 6290 / Scene), Satellite imagery/ Aerial Photo
4	Geologist (HQ)	day	1.2	9,000	40	360,000	
	Sub Total- A					1,192,906	
B	Ground Geophysical Survey (Out sourced)						
1	a. Gravity-Magnetic Survey	Station	3.1b	4,500	-	-	
	b. Radiometry Survey	Station		200	-	-	
2	Geophysicist party days (Field)	per day	3.18	11,000	-	-	
3	Labours Charges - 4 No	day	5.7	522	-	-	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
4	Geophysicist party days (HQ)	per day	3.18	9,000	-	-	
	Sub Total- B					-	
C	Survey work						
a	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.6.2	19,200	-	-	

b	Charges of Surveyor (1 party) for Geophysical survey layout work	one surveyor per day	1.6.1a	8,300	-	-	
c	Labours Charges for survey work - 2 no	day	5.7	522	-	-	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
	Sub-Total C					-	
D	Trenching/Pitting/Auger Drilling						
a	Excavation of Pits (upto 2m depth)	per cu.m	2.1.2	3,800	20	76,000	
b	Excavation of Trenches	per cu.m	2.1.1	3,300	-	-	
c	Auger Drilling upto 150m (Soft Rock)	m	2.2.2	4,760	-	-	
	Sub-Total D					76,000	
E	SCOUT DRILLING						
1	Drilling upto 300m (Very Hard Rock)	m	2.2.1.5a	12,650	-	-	
2	Borehole deviation Survey by Multishot Camera	m				-	
3	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	-	-	
4	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	-	-	

5	Transportation of Drill Rig & Truck associated per drill (1 Auger Drill rig)	Km	2.2.8	36	-	-	
6	Monthly Accommodation Charges for drilling Camp (1 Auger Drill Rig)	month	2.2.9	50,000	-	-	
7	Drilling Camp Setting Cost	Nos	2.2.9a	250,000	-	-	
8	Drilling Camp Winding up Cost	Nos	2.2.9b	250,000	-	-	
9	Road Making (Flat Terrain)	Km	2.2.10a	22,020	-	-	
10	Drill Core Preservation	per m	5.3	1,590	-	-	
	Sub Total E					-	
F	LABORATORY STUDIES						
1	Chemical Analysis (ICP-MS: 34 elements)						
i)	Geochemical Sampling- Surface samples (BRS)						
	a. ICP-MS (34 elements)	Nos	4.1.14	7,731	100	773,100	
ii)	Surface Check samples (10% External)						
	a. ICP-MS (34 elements)	Nos	4.1.14	7,731	10	77,310	
iii)	Trench samples						
	a. ICP-MS (34 elements)	Nos	4.1.14	7,731	-	-	
iv)	Trench Check samples (10% External)						
	a. ICP-MS (34 elements)	Nos	4.1.14	7,731	-	-	
v)	Auger Drill samples						
	a. ICP-MS (34 elements)	Nos	4.1.14	7,731	-	-	

vi)	Auger Drill Check samples (10%External)						
	a. ICP-MS (34 elements)	Nos	4.1.14	7,731	-	-	
vii)	Core Samples						
	a. ICP-MS (34 elements)	Nos	4.1.14	7,731	-	-	
viii)	Core Check samples (10%External)						
	a. ICP-MS (34 elements)	Nos	4.1.14	7,731	-	-	
2	<u>Physical & Petrological Studies</u>						
i	Preparation of thin polished section	Nos	4.3.1	2,353	10	23,530	
ii	Study of thin polished section	Nos	4.3.4	4,232	10	42,320	
iii	Preparation of polish section	Nos	4.3.2	1,549	-	-	
iv	Study of polished section	Nos	4.3.4	4,232	-	-	
v	Digital Photographs	Nos	4.3.7	280	10	2,800	
vi	Whole Rock Analysis (XRF Analysis)	Nos	4.1.15a	4,200	10	42,000	
vii	XRD Analysis	Nos	4.5.1	4,000	10	40,000	
viii	EPMA studies	per hour	4.4.1	8,540	10	85,400	5 samples considered
	Sub Total F					1,086,460	
G	Total A to F					23,55,366	
H	Geological Report Preparation	5 Hard copies with a soft copy	5.2 (i)			150,000	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	
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. 5.00 Lakhs whichever is less		47,107	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					25,82,473	
L	Provision for GST (18% of K)					464,845	GST will be reimbursed as per actual and as per notified prescribed rate
M	Total Estimated Cost with GST					30,47,319	
				or Say Rs. In Lakhs		30.47	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.						

Annexure 9B							
Time Schedule/ Action Plan for Reconnaissance Survey (G4 Stage) for Rare Earth Elements (REE) & Rare Metals (RM) in Meghawas-Nagana area, Barmer District, Rajasthan							
S.No	Activity	Type of Job	Months				
			1	2	3	4	5
1	Desktop study with Satellite data (including obtaining clearances etc)	HQ	20				
2	Geological Mapping (including bedrock sampling)	Field	10	30	20		
3	Laboratory Studies of Samples	Field			10	30	
4	Geological Report Preparation & submission to NMET	HQ					30




Estimated Cost for Reconnaissance Survey (G4) for Copper and Associated Mineralization in Salwari Area, Sikar District, Rajasthan
Area: 2.00 sq. km, No.of BH: 2 Each Borehole depth range- 200 m Schedule timeline- 8 months Review: After 3 Months

Sl.No.	Item of Work	SoC Sr. No.	Units	Qty	Cost per unit/ per day/ manday (In Rs.)	Total Amount (In Rs.)	Remarks
1	Geological Mapping (Scale 1:2000)						
a.	Satellite Imageries	1.1a	Per Imageries	0	0		
b.	Geologists (HQ) days (1 No) [Multispectral and DEM data analysis]	1.1b	Per day	10	9000.00	90000.00	
c.	Geologists(HQ) days(1 No)	1.2a	Mandays	50	9000.00	450000.00	
d.	Charges of Geologist	1.2b	Mandays	120	11000.00	1320000.00	Geological Mapping on 1:12,500 Scale, core logging, sampling, supervision of trenching and pitting
e.	Labour Charges (2 Helper for each geo)	5.7	Mandays	240	541.00	129840.00	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub Total :- 1					1989840.00	
2	Survey work						

a.	Charges of Surveyor	1.6.1b	Per day	0	8300.00	0.00	BH fixation and Boundary Point Marking
b.	Labours Charges for survey work	5.7	Per day	0	541.00	0.00	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
c.	Demarcation of block boundary & boreholes	1.6.2	Per point	6	19200.00	115200.00	2 BHs and 4 boundary coordinates
	Sub Total :- 2					115200.00	
3	Trenching/Pitting						
a.	Trenching	2.1.1	cu.m	50	3330.00	166500.00	
b.	Pitting	2.1.2	cu.m	10	3800.00	38000.00	
	Sub Total :- 3					204500.00	
4	Sample Preparation						
a.	Sampler charges for Sample processing work	1.5.2	Mandays	53	5100.00	270300.00	
b.	Labour(Field days)(4workers per sampler)	5.7	Mandays	212	541.00	114692.00	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub Total :- 4					384992.00	
5	Core Drilling (400 m/ 2 BH)- Out sourced						
a.	Transportation of Drill Rig & Truck associated for drill	2.2.8	Km	1000	0.00	0.00	(To and fro) As per actuals

b.	Land/Crop Compensation	5.6	Per BH	2	0.00	0.00	Amount will be reimburse as per actuals or max. Rs. 20000 per BH with certification from local authorities
c.	Road Preparation (Dozing Charges, Drill site)	2.2.10b	Km	1	0.00	0.00	Road Making will be considered as per the requirement and Road Making Charges will be reimbursed later
d.	Drilling (HQ Size Core) (2 BH)(Hard Rock of 80m)	2.2.4a	Per m	80	13800.00	1104000.00	
e.	Drilling (NQ Size Core) (2 BH)(Hard Rock of <300m), 320 m	2.2.1.4a	Per m	320	11500.00	3680000.00	
f.	Drill Core Preservation - In house	5.3	Per m	200	1590.00	318000.00	This amount will be reimbursed after successful delivery of the cores to concerned libraries/authorities
g.	Borehole plugging by cement for HQ size	2.2.7b	Per m	8	0.00	0.00	
h.							Moved to Row no. 73
	Sub Total :- 5					5102000.00	
6	Laboratory Study						
6.1	Bed Rock Samples						
a.	Bed Rock samples by XRF for whole rock analysis	4.1.15a	Nos	25	4200.00	105000.00	

	Bed Rock samples by XRF for whole rock analysis- External Check 10%	4.1.15a	Nos	3	4200.00	12600.00	
6.2	Drill Core Samples						
a.	Drill core samples by ICPMS	4.1.13	Nos	75	5380.00	403500.00	For REE, U-Th
	Drill core samples by ICPMS Check samples	4.1.13	Nos	8	5380.00	43040.00	
b.	Drill core samples by AAS (Cu, Pb, Zn, Ni, Co)	4.1.7a	Nos	75	2506.00	187950.00	
	Drill core samples by AAS (Cu, Pb, Zn, Ni, Co)- Ext. check	4.1.7a	Nos	8	2506.00	20048.00	
c.	Drill core samples by AAS (Ag)	4.1.7b	Nos	75	335.00	25125.00	
	Drill core samples by AAS (Ag)- Ext. Check	4.1.7b	Nos	8	335.00	2680.00	
d.	Drill core samples by AAS (Au)	4.1.6	Nos	80	1557.00	124560.00	
e.	Drill core check samples by AAS (Au)- Ext Check	4.1.6	Nos	8	1557.00	12456.00	
f.	Specific Gravity Determination (BH)	4.8.1	Nos	10	1605.00	16050.00	
6.3	Trench/Pit Samples						
a.	Trench samples) by ICPMS	4.1.13	Nos	5	5380.00	26900.00	
b.	Trench samples by XRF (Whole rock analysis)	4.1.15a	Nos	50	4200.00	210000.00	
c.	Trench samples by XRF (Whole rock analysis)- Ext Check	4.1.15a	Nos	5	4200.00	21000.00	
	Sub Total :- 6					1210909.00	
7	Geophysical Survey- Outsourced						

	Borehole Geophysical logging (Gamma Logging for 2 BH)	3.12	No.	-	217788.00	0.00	For Gamma logging
a.	Base Log	3.11a	Per m	400	151.00	60400.00	
b.	Resistivity	3.11c	Per m	400	39.00	15600.00	
c.	Dual Density	3.11d	Per m	400	102.00	40800.00	
d.	Caliper	3.11g	Per m	400	19.00	7600.00	
e.	Natural Gamma	3.11h	Per m	400	90.00	36000.00	
f.	SPR	3.11i	Per m	400	39.00	15600.00	
g.	Geophysicist (HQ) days(1 No)	3.18a	Mandays	2	9000.00	18000.00	
h.	Charges of Geophysicist (Field)	3.18b	Mandays	3	11000.00	33000.00	
	Sub Total :-7					227000.00	
8	Petrological studies						
a.	Preparation of thin section	4.3.1	Nos	10	2353.00	23530.00	
b.	Study of thin section for petrography	4.3.4	Nos	10	4232.00	42320.00	
c.	Preparation of polished section	4.3.2	Nos	10	1549.00	15490.00	
d.	Study of polished section for mineragraphy	4.3.4	Nos	10	4232.00	42320.00	
e.	Digital photomicrograph of thin polished	4.3.7	Nos	10	280.00	2800.00	
	Sub Total :-8					126460.00	
	Total (Sno.1 to 8)					9360901.00	
	Preparation of Exploration Proposal	5.1				187218.02	
	Geological Report Preparation	5.2 (ii)				468045.05	
	Tender Processing cost	2.3				95680.00	
	Operational Charges	6 (i)				478400.00	

10	Peer Review charge	As per EC				30000.00	
	GRAND TOTAL					10620244.07	
	Add GST @ 18%				18%	1911644	
	Grand Total Including GST					12531888	
	Rs in lakh					125.31	
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.						




Revised Estimated cost for Preliminary Exploration (G-3 stage), for Copper and associated minerals in Thakurdih-Area-1, District:East Singbhum, State: Jharkhand.

[Block area- 4.10 sq. km; Schedule timeline- 12 months, Review - 6 months, BH-17 (Phase-I: 1-7 Bhs, Phase-II=10 Bhs, Total 20 Bhs, 3 existing), Drilling 2200m

S. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Previous Estimated Cost of the Proposal		Revised Estimated Cost of the Proposal		2nd Revised Estimated Cost of the Proposal		Remarks
			SoC-Item -SI No.	Rates as per SoC							
					Qty.	Amount (Rs)	Qty.	Amount (Rs)	Qty.	Amount (Rs)	
A	GEOLOGICAL & SURVEY WORK										
i	Detailed geological mapping (1:4000 scale)	sq.km.			4.10 sq.km						
i	Charges for one Geologist- Field	day	1.2	11,000	130	1,430,000					
ii	Charges for one Geologist per- HQ	day	1.2	9,000	30	270,000					
iii	2 labours/ party (Rs 504/day/labour) (As per rates of Central Labour Commissioner)	day	5.7	504	260	131,040					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 Sampler	day	1.5.2	5,100	73	372,300					

	Labour charge not included										
v	4 labours/ party (Rs 504/day/labour)	day	5.7	504	292	147,168					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	30	249,000					
vii	4 labours for surveyor	day	5.7	504	120	60,480					Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub Total- A					2,659,988					
B	TRENCHING/PITTING										
i	Excavation of Trenches	per.cu.m.	2.1.1	3,330	200	666,000					
	Sub Total- B					666,000					
C	DRILLING										
i	Drilling upto 300m (Hard Rock) (1 rigs)	m	2.2.1.4a	11,500	2,200	25,300,000					

ii	Borehole deviation Survey	m	2.2.6	330	2,200	726,000					
iii	Borehole Geophysical logging	5 Bhs of 350m each	3.12	622.25	2,200	1,368,950					Base reate Rs. 10, 88, 941/1750=622.25m
iv	Land / Crop Compansation	per BH	5.6	20,000	17	340,000					
v	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	17	34,000					
vi	Transportation of Drill Rig & Truck associated per drill (2 rigs)-Two way	Km	2.2.8	36	4,000	144,000					
vii	Monthly Accomodation Charges for drilling Camp	month	2.2.9	50,000	4	200,000					
viii	Drilling Camp Setting Cost	Nos	2.2.9a	250,000	2	500,000					
ix	Drilling Camp Winding up Cost	Nos	2.2.9b	250,000	2	500,000					
x	Approach Road Making (Flat Terrain)	Km	2.2.10a	22,020	6	132,120					
xi	Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes and block boundary by DGPS	Nos	1.6.2	19,200	17	326,400					
xii	Borehole core preservation-One complete borehole	m	5.3	1,590	300	477,000					

	plus mineralised cores of all the remaining BHs										
	Sub Total- C					30,048,470					
D	LABORATORY STUDIES										
1	Chemical analysis										
A	Geochemical surface samples (Primary) (Bedrock/channel)										
	a) Primary samples for Cu, Pb, Zn, Ni, Co, Mo, & W		4.1.7a & b	3,176	30	95,280					AAS method
	Surface Check samples (10% External check)										
	c) For Cu, Pb, Zn, Ni, Co, Mo, & W		4.1.7a & b	3,176	3	9,528					AAS method
B	Trenching Samples										
	a) Primary samples for Cu, Pb, Zn, Ni, Co, Mo, & W		4.1.7a & b	3,176	150	476,400					AAS method
	Trench Check samples (10% External check)										
	c) For Cu, Pb, Zn, Ni, Co, Mo, & W		4.1.7a & b	3,176	15	47,640					AAS method
C	BH core samples										
	a) Primary samples for Cu, Pb, Zn, Ni, Co, Mo, & W	Nos	4.1.7a & b	3,176	350	1,111,600					AAS method

	BH Core Check samples (10% External check)										
	a) External Check sample (10% of Primary samples) for Cu, Pb, Zn, Ni, Co, Mo, & W	Nos	4.1.7a & b	3,176	35	111,160					AAS method
	Sub Total- D					1,851,608					
D-a	Additional Samples (Phase-I & II Drilling)										
	Primary Analysis for Cu, Pb, Zn, Ni, Co, Mo & W	Nos	4.1.7a & b	3,176			700	2,223,200			
	External Check analysis for Cu, Pb, Zn, Ni, Co, Mo & W	Nos	4.1.7a & b	3,176			70	222,320			
	Composite analysis for Bi, Ge, Te, Sn, Au, Ag (Au, Ag shall be replaced by As, Cd)	Nos	4.1.7a & b	2,841			30	85,230			For >0.50% cu zones
	Sub Total- D-a							2,530,750			
D-b	Additional Samples (Phase-I & II Drilling)										
	Composite samples for 34 Element Analysis by ICP-MS (La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Se, Y, U, Th, Li, In, Be, Mo,	Nos.	4.1.14	7,731					50	386,550	

	Ni, Cr, Ta, Cu, Pb, Zn, Ba, Co, Rb, Sr, Zr, Nb)										
	For Fe (T), SiO ₂ , Al ₂ O ₃ , TiO ₂ , V ₂ O ₅ , Cr ₂ O ₃ , MnO, MgO, CaO, S P, & Lol	Nos	4.1.15a	4,200					30	126,000	
	For Au & Ag by Fire assay	Nos.	4.1.5a	4,760					30	142,800	For >0.50% cu zones
	Sub Total- D-b									655,350	
E	Petrological & Mineragraphic studies										
iv	Preparation of thin section	Nos	4.3.1	2,353	10	23,530					
v	Complete petrographic study report	Nos	4.3.4	4,232	10	42,320					
vi	Preparation of polished section	Nos	4.3.2	1,549	10	15,490					
vii	Complete mineragraphic study report	Nos	4.3.4	4,232	10	42,320					
viii	Digital Photographs	Nos	4.3.7	280	10	2,800					
x	Specific Gravity Determination	Nos	4.8.1	1,605	5	8,025					
	Sub Total- E					134,485					
D	Total A to E					35,360,551		37,891,301		38,546,651	

E	Geological Report Preparation		5.2	For Projects having cost less than Rs. 300 lakhs-A minimum of Rs.7,50,000 or 3% of the value of work whichever is more For the projects having cost exceeding Rs. 150 lakhs and less than Rs. 300 lakhs - A minimum of Rs. 7.5 lakhs or 3% of the value of work whichever is more		1,060,817		1,136,739		1,156,400	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
F	Peer review Charges		As per EC decision			30,000		30,000		30,000	




G	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is lower		500,000		500,000		500,000	EA has to submit the Hard Copies and the soft copy of the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal.
H	Total Estimated Cost without GST					36,951,368		39,558,040		40,233,051	675,011
I	Provision for GST (18%)					6,651,246		7,120,447		7,241,949	GST will be reimburse as per actual and as per notified prescribed rate
J	Total Estimated Cost with GST					43,602,613.69		46,678,487		47,475,000	
				or Say Rs. In Lakhs		436.03		466.78		474.75	1.70% additional on approved cost
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 12

Timeline Extension for Ongoing Projects Approved / Recommended in the 8th Meeting of TCC-2

S. No.	Block/Project	Agency	Actual date of completion	Timeline Extension		Approval / Recommendation in 8 th TCC-2		
				Extended Timeline	Approving Authority	Timeline	Status	Remarks
1.	Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities- Project1 and Project 2	DGM Mizoram	Project 1- 23.3.2024 Project 2- 19.4.2024	31.03.2025	37 th EC	30.09.2025 (6 months)	Recommended to EC	Tendering in Progress
2.	Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities.	DMR Meghalaya	06.12.2024	31.03.2025	39 th EC	30.06.2025 (3 months)	Recommended to EC	Procurement in Progress
3.	Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities.	DGM Ladakh	02.04.2024	-	=	31.07.2025 (15 months 29 days)	Recommended to EC	Administrative & Logistic issues
4.	Reconnaissance Survey (G4) for Iron Ore in Mahakoshal Group around Chakdiya, Kushaniya, Jobra and Tusgaon area, Sonbhadra district, Uttar Pradesh.	GeoExpOre Pvt. Ltd	27.11.2024	26.05.2025	39 th EC	25.11.2025 (5 months)	Recommended to EC	For GR Submission

5.	Preliminary Exploration (G3) for REE and Associated Minerals in Borana Block, Bhilwara District, Rajasthan.	GeoExpOre Pvt. Ltd	09.06.2025	-	=	09.11.2025 (5 months)	Recommended to EC	For GR Submission
6.	Reconnaissance survey (G4) for nickel-cobalt, PGE and chromium in and around Phangrai area, Ukhrul district, Manipur.	UEIPL	05.06.2025	-	-	04.02.2026 (8 months)	Recommended to EC	For completion of project
7.	Preliminary Exploration (G3) for Copper and Associated Minerals in Thakurdih Area-1 Block, East Singhbhum District, Jharkhand.	MECL	19.05.2025	-	-	19.08.2025 (3 months)	Approved	For GR submission
8.	Preliminary Exploration (G3) for Limestone in N.W. of Boro Lakhindong, Dima Hasao, Assam.	MMPL	11.03.2025	11.05.2025	6 th TCC-2	31.05.2025 (20 days)	Recommended to EC	For GR submission
9.	Reconnaissance Survey (G4) for Evaluation of Placer Xenotime Prospect in Ujol River Basin, Gujarat.	Geovale	04.10.2024	30.04.2025	41 st EC	30.06.2025 (2 months)	Recommended to EC	For GR submission
10.	Reconnaissance Survey (G-4) for Ni & PGE prospect block in Limbdi-Meghpar Titodi area, Devbhumi Dwarka District, Gujarat.	Geovale	26.09.2024	10.03.2025	41 st EC	30.04.2025 (1 month 20 days)	Recommended to EC	For GR submission