

**National Mineral Exploration Trust**  
**Minutes of 11<sup>th</sup> meeting of Technical-cum-Cost Committee - II (TCC - II)**  
**held on 23<sup>rd</sup>, 24<sup>th</sup> & 25<sup>th</sup> July 2025 and 30<sup>th</sup> July 2025 (Additional session)**

The 11<sup>th</sup> 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 23<sup>rd</sup>, 24<sup>th</sup> & 25<sup>th</sup> July 2025 and 30<sup>th</sup> July 2025 (Additional session).

Members of TCC-II, NMET and representatives from Mineral Exploration and Consultancy Limited (MECL), FCI Aravali Gypsum & Minerals India Limited (FAGMIL), DMG Rajasthan, DGM Arunachal Pradesh, DMR Meghalaya, DGM Jammu & Kashmir, DGM Mizoram, DGM Assam, DGM Uttar Pradesh, Natural Resource Division Tata Steel Limited, M/s Envirogreen Consultants (India) Private Limited, M/s Ocean Drilling and Exploration Private Limited, M/s Vardan Environet LLP, M/s Geomarine Solutions Private Limited, M/s Bhushilp Mines and Minerals Private Limited, M/s Engeotech Consultant, M/s Geovale Services Private Limited, M/s Geomarine Solutions Private Limited, M/s Maheshwari Mining Pvt. Ltd. (MMPL), M/s Gemcokati Exploration Private Limited, M/s APC Drilling & Construction Private Limited, M/s Critical Mineral Trackers, M/s Eartnenviro Lab Private Limited, M/s Envirogreen Consultants (India) Private Limited, M/s Enkay Enviro Services Private Limited, M/s Kundan Concentrates Private Limited, M/s Novomine India Private Limited, M/s Ocean Drilling and Exploration Private Limited, M/s Geomarine Solutions Private Limited, M/s GeoExpOre Private Limited, Mamco Mining Private Limited (CL holder) etc.

The list of participants is at Annexure-I.

Shri Pradeep Singh, Chairman, TCC-II, NMET extended a warm welcome to all TCC-II members and every participant representing various Notified Exploration Agencies (NEAs) and Notified Private Exploration Agencies (NPEAs).

**Agenda 11.1 Technical Evaluation of New Project Proposals**

**Agenda 11.1.1 Preliminary Exploration (G3) for REE and associated Minerals in Bhimghoda South Block (6.25 sq. km), Balotra District, Rajasthan.**

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

- a) The proposed exploration block of 6.25 sq. km. area falls in Survey of India Toposheet numbers 45C/06 in parts of Balotra district, Rajasthan.
- b) Comments from AMD were pending at the time of this meeting.
- c) MECL informed that the proposed area falls in Siwana Central Region mainly consists of Rhyolite, Basic intrusions and Siwana granite suite which is considered for hosting REEs. During FS 2014-2015, GSI carried out G-4 exploration over an area of 115 sq. km. and recommended for further assessment on REE mineralization in the area. Analytical results of 55 nos. of bed rock grab samples collected from rhyolite at Bhimghoda ka pahar indicate  $\Sigma\text{REE}+\text{Y}$  ranging from 215.86 to 4938.30 ppm and 22 nos. tuff samples at Bhimghoda ka pahar yielded  $\Sigma\text{REE}+\text{Y}$  ranging from 129.92 to 3793.72 ppm. Two channels were carried out in Siwana Central block. In 13 nos of channel sample taken across rhyolite flow in Bhimghoda ka pahar area, the Range of  $\Sigma\text{REE}+\text{Y}$  varies between 1813.06-7338.68 ppm, which strongly supports REE mineralization in the area. In the Siwana Central block, five  $\Sigma\text{REE}+\text{Y}$  anomalous zones

were delineated based on geochemical anomaly mapping. In the Bhimgoda ka Pahar area, significant peaks exceeding 3000 ppm and 1800 ppm were recorded southeast and north of the Bhimgoda temple, respectively, with another >2200 ppm peak at the western periphery. Analytical results from dacitic flows and rhyolitic flow indicate  $\Sigma\text{REE}+\text{Y}$  concentrations >1500 ppm, while rhyolite dykes show values exceeding 2500 ppm, confirming strong rare earth enrichment.

- d) Drilling of total 4610m in thirty-six (36) boreholes including three (03) stratigraphic boreholes with average depth of 120m in 33 BH; 250m in 2 stratigraphic BH & 150m in 1 stratigraphic BH were agreed by the TCC-II. The TCC-II recommended that timeline for project completion will be 18 months. Initially twelve (12) boreholes including three (03) stratigraphic boreholes will be drilled to target the REE rich flows. Subsequent drilling will be after review. Only three stratigraphic borehole cores will be preserved initially. Also, the quantum of sampling may vary based on the results of initial 3 to 4 boreholes.

#### **Recommendations of TCC-II**

***The committee recommends the proposal for approval of EC for "Preliminary Exploration (G3) for REE and associated minerals in Bhimgoda South Block, Balotra District, Rajasthan" with an estimated cost of ₹897.45 Lakh (including GST) within the time schedule of 18 Months and submission of the report as per Annexures 2A & 2B. The project will be reviewed after 5 months & 10 months. Total 4610 meterage of drilling will be done in 36 boreholes, with average depth of 120m in 33 BH; 250m in 2 stratigraphic BH & 150m in 1 stratigraphic BH. Initially twelve (12) boreholes including three (03) stratigraphic boreholes at 400\*400 m grid will be drilled, remaining drilling will be after review of outcome of these boreholes.***

#### **Agenda 11.1.2 Preliminary Exploration (G3) for REE and associated Mineralization in Ludrada South Block (2.75 sq. km), Siwana Ring Complex, Balotra District, Rajasthan.**

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

- a) The proposed exploration block of 2.75 sq. km. area falls in Survey of India Toposheet numbers 45C/06 and 465C/10 in parts of Balotra district, Rajasthan.
- b) As per the AMD comments there is no ongoing project of AMD in the proposed block.
- c) MECL informed that during the G4 stage of exploration by GSI, a total 43 Nos of bed rock samples were collected from the granite. The  $\Sigma\text{REE}+\text{Y}$  analysis value range from 621.10 ppm to 5439.48 ppm, with mean of 2052.44 ppm. The standard deviation (SD) has been calculated as 1111.25 ppm. Out of 43 no of granite samples it has been observed there are 18 samples which are showing  $\Sigma\text{REE}+\text{Y}$  value more than mean value, there are 4 samples which are showing  $\Sigma\text{REE}+\text{Y}$  value more than mean + 1 SD value (3163.69 ppm) and same 4 nos of samples which are  $\Sigma\text{REE}+\text{Y}$  value more than mean + 2 SD value (4274.95 ppm). A total 16 Nos of bed rock samples were analysed from the rhyolite. The  $\Sigma\text{REE}+\text{Y}$  analysis value ranges from 634.57 ppm to 6049.69 ppm, with mean of 2313.79 ppm. It has been observed that  $\Sigma\text{REE}+\text{Y}$  analysis values in the channels varying from 476.25 ppm in Dyke to 6216.72 ppm also in dyke, However, in granites  $\Sigma\text{REE}+\text{Y}$  values is varying from 1184.94 ppm to 2732.70 ppm with an average of 1894.69 ppm.

- a) Total drilling of 2480m in 31 boreholes with average depth of 80m was agreed by the TCC-II. The committee opined that, in first phase 7 Borehole will be taken up at 400\*400 m grid. Subsequent drilling will be after review. Borehole core sampling plan will be finalised after the results of first phase of drilling.
- d) The TCC-II also suggested measurement of Specific gravity and Magnetic Susceptibility of host rock and adjoining rocks.

**Recommendations of TCC-II**

**The committee recommends the proposal for approval of EC for “Preliminary Exploration (G-3) for REE and associated minerals in Ludrada South Block, Balotra District, Rajasthan” with an estimated cost of ₹649.41 Lakh (including GST) within the time schedule of 15 Months and submission of the report as per Annexures 3A & 3B. The project will be reviewed after 5 months & 10 months. Total 2480 meterage of drilling will be done in 31 boreholes, with average depth of 80m. In first phase 7 BHs will be drilled at 400\* 400 m grid. Subsequent drilling will be decided after review of outcomes of these boreholes.**

**Agenda 11.1.3 Preliminary Exploration (G3) for REE and associated Mineralization in Ludrada North Block (2.00 sq. km), Siwana Ring Complex, Balotra District, Rajasthan.**

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

- b) The proposed exploration block of 2.00 sq. km. area falls in Survey of India Toposheet numbers 45C/06 and 465C/10 in parts of Balotra district, Rajasthan.
- c) As per the AMD comments there is no ongoing project of AMD in the proposed block.
- d) MECL informed that during the G4 stage of exploration by GSI, a total 43 Nos of bed rock samples were collected from the granite. The  $\Sigma$ REE+Y analysis value ranges from 621.10 ppm to 5439.48 ppm, with mean of 2052.44 ppm. The standard deviation (SD) has been calculated as 1111.25 ppm. Out of 43 no of granite samples it has been observed there are 18 samples which are showing  $\Sigma$ REE+Y value more than mean value, there are 4 samples which are showing  $\Sigma$ REE+Y value more than mean + 1 SD value (3163.69 ppm) and same 4 nos of samples which are  $\Sigma$ REE+Y value more than mean + 2 SD value (4274.95 ppm). A total 16 Nos of bed rock samples were analysed from the rhyolite. The  $\Sigma$ REE+Y analysis value ranges from 634.57 ppm to 6049.69 ppm, with mean of 2313.79 ppm. It has been observed that  $\Sigma$ REE+Y analysis values in the channels varying from 476.25 ppm in Dyke to 6216.72 ppm also in dyke, However, in granites  $\Sigma$ REE+Y values is varying from 1184.94 ppm to 2732.70 ppm with an average of 1894.69 ppm.
- e) Total drilling of 2000m in 25 boreholes with average depth of 80m was agreed by the TCC-II. The committee opined that in first phase 8 BHs will be taken up at 400\*400 m grid. Subsequent drilling will be after review. Borehole core sampling plan will be finalised after the results of first phase of drilling.
- f) The TCC-II also suggested measurement of Specific gravity and Magnetic Susceptibility of host rock and adjoining rocks.

**Recommendations of TCC-II**

**The committee recommends the proposal for approval of EC for “Preliminary Exploration (G-3) for REE and associated minerals in Ludrada North Block, Balotra**




***District, Rajasthan” with an estimated cost of ₹562.40 Lakh (including GST) within the time schedule of 15 Months and submission of the report as per Annexures 4A & 4B. The project will be reviewed after 5 months & 10 months. Total 2000 meterage of drilling will be done in 25 boreholes, with average depth of 80m. In first phase 8 BHs will be drilled at 400\*400 m grid. Subsequent drilling will be decided after review of outcomes of these boreholes.***

**Agenda 11.1.4 Preliminary Exploration (G3) for Graphite & Base-metal, Akola block, Tehsil Bhinder, Udaipur District, Rajasthan.**

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

- a) The proposed exploration block of 45.00 sq. km. area falls in Survey of India Toposheet numbers 45L/02 in parts of Udaipur district, Rajasthan.
- b) As per the comments received from GSI, about 40% of the proposed block is overlapping with the GSIs exploration area of FS 2025-26. Two G2 blocks (GSI & MECL) are also falling inside the proposed block.
- c) Comments from DMG Rajasthan were pending during the meeting.
- d) The TCC-II opined that the project will remain on hold until comments are received from DMG Rajasthan and MECL.

***Recommendations of TCC-II***

***The committee does not recommend the proposal for approval of EC. Comment/consent from DMG Rajasthan and MECL is required.***

**Agenda 11.1.5 Preliminary Exploration (G3) for Base metals & associated Minerals, Near Bodki-I block, Tehsil- Lasadiya, Udaipur District, Rajasthan.**

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

- a) The proposed exploration block of 60.00 sq. km. area falls in Survey of India Toposheet numbers 45L/3 and 45L/7 in parts of Udaipur district, Rajasthan.
- b) As per the comments received from GSI, the proposed block is overlapping with the GSIs explored area of FS 1995-96 & present exploration area of FS 2025-26.
- c) The TCC-II opined that the proposed block cannot be recommended for G3 stage of exploration.

***Recommendations of TCC-II***

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

**Agenda 11.1.6 Preliminary Exploration (G4) for Emerald, REE and associated Mineralization, Kala Guman area, Tehsil Bhim, Rajsamand District, Rajasthan.**

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

- a) The proposed exploration block of 150.00 sq. km. area falls in Survey of India Toposheet numbers 45G/11,45G/12,45/15 & 45/16 in parts of Rajsamand district, Rajasthan.

- b) As per the comments received from GSI, the proposed block is overlapping (50%) with the GSIs explored area of FS 2021-22. A GM block by GSI is also falling inside the proposed area.
- c) DMG Rajasthan stated that the proposed area is kept reserved for exploration in FS 2026-27 for Emerald by them.
- d) The TCC-II opined that the proposed block cannot be recommended for G3 stage of exploration.

***Recommendations of TCC-II***

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

**Agenda 11.1.7 Reconnaissance Survey (G4) for REE, copper, base metal (Area=50 Sq. Km.) Jailai area, Tehsil Vallabh Nagar, District Udaipur, Rajasthan.**

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

- a) The proposed exploration block of 50.00 sq. km. area falls in Survey of India Toposheet numbers 45H/14 & 45L/2 in parts of Udaipur district, Rajasthan.
- b) As per the comments received from GSI, the proposed block is overlapping with the GSIs marked area for FS 2026-27, based on India AI Hackathon.
- e) The TCC-II advised that the M/s Envirogreen Consultants (India) Private Limited should prepare a new block/area for exploration. The committee opined that the proposed block cannot be recommended for G3 stage of exploration.

***Recommendations of TCC-II***

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

**Agenda 11.1.8 Preliminary Exploration (G3) for REE, copper & associated Minerals (Area 40 Sq. Km.) Nawaniya block, Tehsil Vallabh Nagar, District Udaipur, Rajasthan.**

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

- a) The proposed exploration block of 40.00 sq. km. area falls in Survey of India Toposheet numbers 45L/2 in parts of Udaipur district, Rajasthan.
- b) As per the comments received from GSI, the proposed block is overlapping (50%) with the GSIs exploration area of FS 2025-26.
- c) The TCC-II advised that the M/s Envirogreen Consultants (India) Private Limited should prepare a new block/area for G4 stage of exploration. The committee opined that the proposed block cannot be recommended for G3 stage of exploration.

***Recommendations of TCC-II***

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

**Agenda 11.1.9 Reconnaissance Survey (G4) of Graphite and Base Metals in Kundli-Borda area, Tehsil-Ghatol, District Banswara, Rajasthan.**

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

- a) The proposed exploration block of 35.00 sq. km. area falls in Survey of India Toposheet numbers 46I/05 in parts of Banswara district, Rajasthan.

- b) As per the comments received from GSI, the proposed G-4 block area is overlapping with the GSI, G-4, Dungaripara, Nawa Khera area. It partly overlaps with Kankariya Gara CL block.
- c) FAGMIL informed that they have collected some samples for which analytical results are pending.
- d) The TCC-II opined that the project may be kept on hold until the receiving of analytical results.

***Recommendations of TCC-II***

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

**Agenda 11.1.10 Preliminary Exploration (G3) of Graphite mineralization in Najarpura-Chekala Block, Tehsil Ghatol, District Banswara, Rajasthan.**

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

- a) The proposed exploration block of 6.52 sq. km. area falls in Survey of India Toposheet numbers 46I/05 in parts of Banswara district, Rajasthan.
- b) As per the comments received from GSI, the proposed block is overlapping with the GSIs explored area (G3) of FS 2024-25. It partly overlaps with one GM block also.
- c) The committee opined that the proposed block cannot be recommended for G3 stage of exploration.

***Recommendations of TCC-II***

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

**Agenda 11.1.11 Reconnaissance Survey (G4) Of REE mineralization in Jeerawal (W) Rohua Block, Tehsil Reodar, District Sirohi, Rajasthan.**

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

- a) The proposed exploration block of 48.6 sq. km. area falls in Survey of India Toposheet numbers 45D/06 in parts of Sirohi district, Rajasthan.
- b) FAGMIL informed that A reconnaissance survey by GSI in FS 2021-22, in the Jeerawal–Sanpur area identified significant U, Th, Zr, and REE mineralization in granitoid rocks through detailed EPMA analysis. Granodiorite samples showed the highest total REE (TREE) concentration at 372 ppm among felsic rocks. Out of 113 bedrock samples collected, 15 samples recorded TREE values greater than 500 ppm, indicating substantial REE enrichment in the area. The proposed block is adjacent to this area with similar lithology. Anomalous values of LREE La (373.97 ppm), Ce (666.12 ppm), Pr (74.33 ppm), Nd (286.71ppm), Eu (2.52 ppm)) are found to occur over Erinpura granite, Jalore granite, and granite porphyry near Jirawal, Bhilda, and Barechi over quartzite, marble, and micaceous quartzite. During FS 2018-19 the Geophysical survey of toposheet 45D/06 reveals a NE-SW trending high gravity anomaly zone with high magnetic response, which is indicative of an underlying basic intrusive body. Two lineaments are interpreted in this zone near Lalpura and Jeerawal.
- c) The TCC-II suggested heavy mineral separation in this exploration. Committee advised to consult NAGMP data from NGDR portal to Interpret lineaments & basic intrusive bodies. Committee advised to search for carbonatite veins/bands within




Erinpura granite as reported in adjacent lying Mundwara complex. Geophysical survey was not recommended in this project.

### **Recommendations of TCC-II**

**The committee recommends the proposal for approval of EC for “Reconnaissance Survey (G-4) for REE in Jeerawal (W) - Rohua area, district Sirohi, Rajasthan” with an estimated cost of ₹58.75 Lakh (including GST) within the time schedule of 10 Months and submission of the report as per Annexures 5A & 5B. The project will be reviewed after 5 months.**

### **Agenda 11.1.12 Preliminary exploration (G3) for REE and associated mineralization in North of Kuship Block, Barmer District, Rajasthan.**

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

- a) The proposed exploration block of 2.296 sq. km. area falls in Survey of India Toposheet numbers 45C/06 in parts of Barmer district, Rajasthan.
- b) DMG Rajasthan informed that there are 3 leases of minor mineral leases with cumulative area of 4.73 hectare, falling in the block.
- c) The implementing agency informed that preliminary sampling of the rhyolites and associated tuffs of Bhimgoda Pahar and Koiliyasar-Ka-Pahar of Siwana Ring Complex, Barmer district, carried out by GSI during 2013-14, indicated anomalous REE values with REE ranging from 1334 to 2692ppm and 1075 to 3319ppm REE respectively (Rastogi & Mukherjee, 2015). Bidwai et al., 2014, reported the presence of high LREE, Zr, Nb, Th and U along with Ag in surface samples in the Siwana Ring Complex. Das et al., 2015, carried G4 investigation in Siwana eastern and central blocks and anomalous value of REE were reported. Barman and Neogi, 2018 carried G-4 stage investigation in northern part of plutonic phase of Siwana Ring Complex and reported REE+Y ranging from 142.3 ppm to 0.85% in BRS samples. Kumar and Sharma, 2020, carried out G-4 investigation and reported REE+Y ranges in various lithounits are i) Plagioclase rich granite REE+Y = 0.029%-0.70%. ii) Kfeldspar rich granite REE+Y= 0.047%-0.66%. iii) Younger Intrusives REE+Y= 0.019%-2.66%. iv) Felsic volcanic REE+Y = 0.015%-0.96% and v) Enclave/ Restite/ Soil REE+Y = 0.022%-1.27%. Apart from REE, rare metals and some trace elements also indicate very encouraging results, Zr (0.1% to 1.1%), Nb (2.5ppm to 1039ppm), Ba (25ppm to 3948ppm), Zn (120ppm to 1258ppm), U (0.61ppm to 124ppm), Th (2ppm to 481ppm) and Hf (4.52ppm to 828.18ppm). Shankar and Ghosh (2023) carried G4 stage of investigation in Sanji ki Beri-Meli block during FS 2021-22. Based on chemical analysis data of 203 BRS from rhyolite samples of study area yielded  $\Sigma$ REE+Y values ranging from 91.76ppm to 9764.68ppm, with average value of 1844.84ppm.  $\Sigma$ HREE/ $\Sigma$ LREE ratio of the same is 0.15. 22 BRS samples from felsic/rhyolite dykes yielded  $\Sigma$ REE+Y values ranging from 144.77ppm to 7678.75ppm, with average value of 1400.14ppm.  $\Sigma$ HREE/ $\Sigma$ LREE ratio of the same is 0.16.  $\Sigma$ REE+Y value in 109 channel samples ranging from 261.73 to 6224.81ppm, with  $\Sigma$ HREE/ $\Sigma$ LREE ratio of 0.19.
- d) The TCC-II advised that the borehole planning should be according to the topography of the proposed block. The committee advised initial drilling in 4 boreholes and subsequent boreholes will be decided after review. Further, the quantum of sampling will also be decided after results of initial 4 boreholes. Total 3650 meterage of drilling

will be done in 31 boreholes, with average depth of 120m. Initially four (04) boreholes will be drilled, remaining drilling will be decided after review.

### **Recommendations of TCC-II**

**The committee recommends the proposal for approval of EC for “Preliminary exploration (G3) for Rare Earth Elements and Associated mineralization in North of Kuship Block, Balotra District, Rajasthan” with an estimated cost of ₹766.42 Lakh (including GST) within the time schedule of 12 Months and submission of the report as per Annexures 6A & 6B. The item will be reviewed after 6 months. Total 3650 meterage of drilling will be done in 31 boreholes, with average depth of 120m. Initially four (04) boreholes will be drilled, remaining drilling will be decided after review.**

### **Agenda 11.1.13 Preliminary exploration (G3) for Rare Earth Elements and associated mineralization in Ramdevji ki Beri Block, Barmer District, Rajasthan. [Implementing Agency: M/s Ocean Drilling and Exploration Private Limited]**

- a) The proposed exploration block of 1.6427 sq. km. area falls in Survey of India Toposheet numbers 45C/06 in parts of Barmer district, Rajasthan.
- b) The implementing agency informed that as per the comments by 7<sup>th</sup> TCC-II, the block boundary has been modified. The agency further briefed that preliminary sampling of the rhyolites and associated tuffs of Bhimgoda Pahar and Koiliyasar-Ka-Pahar of Siwana Ring Complex, Barmer district, carried out by GSI during 2013-14, indicated anomalous REE values with REE ranging from 1334 to 2692ppm and 1075 to 3319ppm REE respectively (Rastogi & Mukherjee, 2015). Bidwai et al., 2014, reported the presence of high LREE, Zr, Nb, Th and U along with Ag in surface samples in the Siwana Ring Complex. Das et al., 2015, carried G4 investigation in Siwana eastern and central blocks and anomalous value of REE were reported. Barman and Neogi, 2018 carried G-4 stage investigation in northern part of plutonic phase of Siwana Ring Complex and reported REE+Y ranging from 142.3 ppm to 0.85% in BRS samples. Kumar and Sharma, 2020, carried out G-4 investigation and reported REE+Y ranges in various lithounits are i) Plagioclase rich granite REE+Y = 0.029%-0.70%. ii) Kfeldspar rich granite REE+Y= 0.047%-0.66%. iii) Younger Intrusives REE+Y= 0.019%-2.66%. iv) Felsic volcanic REE+Y = 0.015%-0.96% and v) Enclave/ Restite/ Soil REE+Y = 0.022%-1.27%. Apart from REE, rare metals and some trace elements also indicate very encouraging results, Zr (0.1% to 1.1%), Nb (2.5ppm to 1039ppm), Ba (25ppm to 3948ppm), Zn (120ppm to 1258ppm), U (0.61ppm to 124ppm), Th (2ppm to 481ppm) and Hf (4.52ppm to 828.18ppm). Shankar and Ghosh (2023) carried G4 stage of investigation in Sanji ki Beri-Meli block during FS 2021-22. Based on chemical analysis data of 203 BRS from rhyolite samples of study area yielded  $\Sigma$ REE+Y values ranging from 91.76ppm to 9764.68ppm, with average value of 1844.84ppm.  $\Sigma$ HREE/ $\Sigma$ LREE ratio of the same is 0.15. 22 BRS samples from felsic/rhyolite dykes yielded  $\Sigma$ REE+Y values ranging from 144.77ppm to 7678.75ppm, with average value of 1400.14ppm.  $\Sigma$ HREE/ $\Sigma$ LREE ratio of the same is 0.16.  $\Sigma$ REE+Y value in 109 channel samples ranging from 261.73 to 6224.81ppm, with  $\Sigma$ HREE/ $\Sigma$ LREE ratio of 0.19.
- c) The committee advised initial drilling in 5 boreholes one in each grid line in 400\* 400 m spacing and subsequent boreholes will be decided after review. Further, the

quantum of sampling will also be decided after results of initial 5 boreholes. Total 2000 meterage of drilling will be done in 22 boreholes, with average depth of 120m.

### **Recommendations of TCC-II**

***The committee recommends the proposal for approval of EC for “Preliminary exploration for rare earth elements and associated mineralization in Ramdev Ji ke Beri Block, Balotra District, Rajasthan” with an estimated cost of ₹597.98 Lakh (including GST) within the time schedule of 12 Months and submission of the report as per Annexures 7A & 7B. The item will be reviewed after 6 months. Total 2000 meterage of drilling will be done in 22 boreholes, with average depth of 120m. Initially five (05) boreholes will be drilled, remaining drilling will be decided after review.***

**Agenda 11.1.14 Reconnaissance Survey (G4) for Graphite and associated mineralisation in Phandka-Ghatkhera area, Betul District Madhya Pradesh.**

**[Implementing Agency: M/s Vardan Environet LLP]**

- a) The proposed exploration block of 27.58 sq. km. area falls in Survey of India Toposheet numbers 55J/04 in parts of Betul district, Madhya Pradesh.
- b) The project was given in-principle-approval in 10<sup>th</sup> TCC-II meeting held on 23rd, 24th & 25th June 2025.
- c) Vardan Environet LLP informed the Betul belt is a known geological milieu for its volcanic hosted massive sulphides, to the geological community since long. After the discovery and partial exploration of the significant graphite deposit in Betul district, Madhya Pradesh carried out by GSI, and its subsequent auction would make the visibility of Madhya Pradesh in the Graphite Map of India both in terms of resources and production. The impact of this is the possibility of occurrence of similar deposits elsewhere in the Betul belt where minor occurrences of graphitic schists are known and to which the earlier workers did not attach much importance. It was only during 2012-13 a project was formulated and the follow-up led to a success story in graphite exploration in Madhya Pradesh. Geological Survey of India not only explored but auctioned various blocks of Graphite in Betul belt.
- d) The agency further informed that the strike continuity of the Explored block Rathipur-Bhopali by Geological survey of India where three bands of graphite mineralisation of 1.2 km, 2.0 km and 300 m have been established. This is important to note that the band Number One of the Rathipur block which has a strike length of 1.2 km is continuing up to the NE boundary of the GSI explored Rathipur block, hence a very high chance of the same being continuous in the proposed block exists as the same geological set up exists in the proposed area. The same Geological milieu is continuing in the adjacent area; hence the possibility of existing graphite mineralisation exists in the proposed block. The host occur as lensoidal enclaves within the Betul granite gneisses and the older gneisses hence there is possibility of the enclaves of supra crustal existing in the other areas too.
- e) The TCC-II agreed for total 600 meterage of drilling in 6 boreholes, with average depth of 100m.

### **Recommendations of TCC-II**



***The committee recommends the proposal for approval of EC for “Reconnaissance Survey (G-4) for Graphite and associated mineralisation in Phandka-Gatakhera area, Betul district, Madhya Pradesh” with an estimated cost of ₹211.16 Lakh (including GST) within the time schedule of 10 Months and submission of the report as per Annexures 8A & 8B. The project will be reviewed after 4 months & 8 months. Total 600 meterage of drilling will be done in 6 boreholes, with average depth of 100m.***

**Agenda 11.1.15 Preliminary Exploration (G3) for Graphite, Vanadium, and associated minerals, Deed block, Lower Subansiri District, Arunachal Pradesh.**

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

- a) The proposed exploration block of 2.1 sq. km. area falls in Survey of India Toposheet numbers 83E/10 in parts of Lower Subansiri District, Arunachal Pradesh.
- b) Geomarine Solutions Private Limited informed that A GSI STM programme by Prajapati and Singh (2018) in the region, brought out the presence of carbonaceous phyllite bands in the Khetabari Formation of Bomdila group. A spin-off G4 programme by Singh and Chaisie (2019), an area of about 50sq km was mapped on a scale of 1:12,500. Two carbonaceous phyllite bands having a thickness ranging from 6m-20m were mapped over a cumulative strike length of about 15km. BRS samples (153 nos) from carbonaceous phyllite assayed Vanadium values ranging from 612ppm to 5318ppm which included Channel samples (76 nos.) which also assayed Vanadium values ranging from 689ppm -5107 ppm. During the course of DM in & around Saiya, Singh & Chasie (2020) mapped 2650m cumulative strike length of the eastern carbonaceous phyllite bands having a variable thickness of 20-200m; they analysed average vanadium values between 1078ppm - 4843ppm and average fixed carbon value between 9-16% in channel samples. Another G3 investigation was taken up by GSI over an area of 1.52sq. km in Radhpu area between 2020 and 2022 by Mairembam Arunkumar Singh, Shashank Shekhar Singh, and Kevinguzo Chasie. The 2023 report of the investigation showed Inferred Mineral Resource (333) of Vanadium: 0.05% V<sub>2</sub>O<sub>5</sub> cutoff: 8587740.374 tonnes with average grade of 0.2104 % V<sub>2</sub>O<sub>5</sub>(Vanadium metal content-18068.606 Tonnes); 0.1% V<sub>2</sub>O<sub>5</sub> cutoff: 8450745.927 tonnes with average grade of 0.2130 % V<sub>2</sub>O<sub>5</sub>; (Vanadium metal content-18000.089 Tonnes); 0.2% V<sub>2</sub>O<sub>5</sub> cutoff: 5898516.067 tonnes with average grade of 0.2482 % V<sub>2</sub>O<sub>5</sub>; (Vanadium metal content-14640.117 Tonnes); 0.03% V<sub>2</sub>O<sub>5</sub> cutoff (Minimum): 9155710.54 tonnes with average grade of 0.2025% V<sub>2</sub>O<sub>5</sub>; (Vanadium metal content-18540.314 Tonnes). Inferred Mineral Resource (333) of Graphite: 2% Fixed carbon cutoff: 9674424.842 tonnes with average grade of 9.998% Fixed carbon. 10% Fixed carbon cutoff: 5825099.752 tonnes with average grade of 11.639% Fixed carbon. The block proposed for G3 stage exploration is southern extension of Radhpu G3 Block of GSI 2023 study.
- c) The TCC-II advised for borehole spacing at 200m x 200m interval. The committee informed that the present costing is tentative and only for the purpose of initiation of the project. The final recommendation & costing will be done as per the revised SoC of NMET.

**Recommendations of TCC-II**



***The committee recommends the proposal for approval of EC for “Preliminary Exploration (G-3) for Graphite, Vanadium, and associated minerals in Deed Block, Lower Subansiri District, Arunachal Pradesh” with an estimated cost of ₹1,327.11 Lakh (including GST) within the time schedule of 18 Months and submission of the report as per Annexures 9A & 9B. The project will be reviewed after 5, 10 months & 15 months. Total 2300 meterage of drilling will be done in 28 boreholes.***

**Agenda 11.1.16 Preliminary Exploration (G3) for Graphite, Vanadium, and associated minerals, DEM block, Lower Subansiri District, Arunachal Pradesh.  
[Implementing Agency: M/s Geomarine Solutions Private Limited]**

- a) The proposed exploration block of 0.70 sq. km. area falls in Survey of India Toposheet numbers 83E/10 in parts of Lower Subansiri District, Arunachal Pradesh.
- b) As per the comments received from GSI, the proposed block is overlapping with GSI's marked block for G3 stage of exploration.
- c) Geomarine Solutions Private Limited informed that the block proposed for G3 stage exploration is northern extension of Radhpu G3 Block of GSI 2023 study.
- d) The TCC-II does not agree to recommend the project.

***Recommendations of TCC-II***

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

**Agenda 11.1.17 Preliminary Exploration (G3) for Graphite, Vanadium, and associated minerals, Ekhataya BLOCK, Lower Subansiri District, Arunachal Pradesh.  
[Implementing Agency: M/s Geomarine Solutions Private Limited]**

- a) The proposed exploration block of 2.5 sq. km. area falls in Survey of India Toposheet numbers 83E/10 in parts of Lower Subansiri District, Arunachal Pradesh.
- b) Geomarine Solutions Private Limited informed that A GSI STM programme by Prajapati and Singh (2018) in the region, brought out the presence of carbonaceous phyllite bands in the Khetabari Formation of Bomdila group. A spin-off G4 programme by Singh and Chaisie (2019), an area of about 50sq km was mapped on a scale of 1:12,500. Two carbonaceous phyllite bands having a thickness ranging from 6m-20m were mapped over a cumulative strike length of about 15km. BRS samples (153 nos) from carbonaceous phyllite assayed Vanadium values ranging from 612ppm to 5318ppm which included Channel samples (76 nos.) which also assayed Vanadium values ranging from 689ppm -5107 ppm. During the course of DM in & around Saiya, Singh & Chasie (2020) mapped 2650m cumulative strike length of the eastern carbonaceous phyllite bands having a variable thickness of 20-200m; they analysed average vanadium values between 1078ppm - 4843ppm and average fixed carbon value between 9-16% in channel samples. Another G3 investigation was taken up by GSI over an area of 1.52sq. km in Radhpu area between 2020 and 2022 by Mairembam Arunkumar Singh, Shashank Shekhar Singh, and Kevinguzo Chasie. The 2023 report of the investigation showed Inferred Mineral Resource (333) of Vanadium: 0.05% V2O5 cutoff: 8587740.374 tonnes with average grade of 0.2104 % V2O5(Vanadium metal content-18068.606 Tonnes); 0.1% V2O5 cutoff: 8450745.927

tonnes with average grade of 0.2130 % V<sub>2</sub>O<sub>5</sub>; (Vanadium metal content-18000.089 Tonnes); 0.2% V<sub>2</sub>O<sub>5</sub> cutoff: 5898516.067 tonnes with average grade of 0.2482 % V<sub>2</sub>O<sub>5</sub>; (Vanadium metal content-14640.117 Tonnes); 0.03% V<sub>2</sub>O<sub>5</sub> cutoff (Minimum): 9155710.54 tonnes with average grade of 0.2025% V<sub>2</sub>O<sub>5</sub>; (Vanadium metal content-18540.314 Tonnes). Inferred Mineral Resource (333) of Graphite: 2% Fixed carbon cutoff: 9674424.842 tonnes with average grade of 9.998% Fixed carbon. 10% Fixed carbon cutoff: 5825099.752 tonnes with average grade of 11.639% Fixed carbon. The block proposed for G3 stage exploration is southern extension of Radhpu G3 Block of GSI 2023 study.

- c) The TCC-II advised for borehole spacing at 200m x 200m interval. The committee informed that the present costing is tentative and only for the purpose of initiation of the project. The final recommendation & costing will be done as per the revised SoC of NMET.

#### **Recommendations of TCC-II**

***The committee recommends the proposal for approval of EC for "Preliminary Exploration (G-3) for Graphite, Vanadium, and associated minerals in Ekhataya Block, Lower Subansiri District, Arunachal Pradesh" with an estimated cost of ₹1,327.11 Lakh (including GST) within the time schedule of 18 Months and submission of the report as per Annexures 10A & 10B. The item will be reviewed after 5, 10 months. Total 2300 meterage of drilling will be done in 28 boreholes.***

#### **Agenda 11.1.18 Preliminary Exploration (G3) for Basemetals and associated minerals in Hingoliya Gara Block (3.50 Sq. Km), District Banswara, Rajasthan. [Implementing Agency: M/s Bhushilp Mines and Minerals Private Limited]**

- a) The proposed exploration block of 3.50 sq. km. area falls in Survey of India Toposheet numbers 46I/06 in parts of Banswara district, Rajasthan.
- b) As per the comments received from GSI, a G4 stage of exploration has been done in this area in FS 2016-17 for Cu & Iron ore. Based on outcomes of this report a GM was prepared and handed over to State Government.
- c) Comments from DMG Rajasthan was pending during the meeting.
- d) The TCC-II advised that NMET will seek information from State Government, Rajasthan, about the status of submitted GM.

#### **Recommendations of TCC-II**

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

#### **Agenda 11.2 Proposal under scheme for partial reimbursement of exploration expenses for the holder of composite licenses.**

#### **Agenda 11.2.1 Preliminary Exploration (G3) for Phosphorite in Barwar block, District Lalitpur, Uttar Pradesh.**

**[CL Holder: M/s Mamco Mining Private Limited]**

- a) The proposed exploration block of 5.1 sq. km. area falls in Survey of India Toposheet number 54L/15 in parts of District Lalitpur, Uttar Pradesh.
- b) The TCC-II Committee observed that the documentation of the previous work was not adequate, and the Detailed Project Report (DPR) was not prepared in the prescribed format of NMET. Furthermore, the Committee found that the proposal lacked proper justification for undertaking the project.

***Recommendation of TCC-II***

***The committee does not recommend the proposal for approval of EC. the Committee suggested that the project proposal be revised in line with the NMET scheme guidelines and presented in the proper format at the upcoming TCC-II meeting.***

**Agenda 11.3 Technical Evaluation of New Procurement Proposal**

**Agenda 11.3.1 Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities.  
[Implementing Agency: DMG Rajasthan]**

- a) DMG Rajasthan appeared before the Committee seeking financial assistance from NMET funds for the procurement of new machinery, laboratory equipment, and instruments aimed at enhancing mineral exploration activities. However, no formal proposal was presented in this regard during the meeting.
- b) Later, the DMG Rajasthan sent a mail on 25.07.2025 with attached letter (No. DMG/Geol/MF/2024/475K-06645) informing the withdrawal of their proposal for the procurement of Handheld XRF and ICP-MS instruments under the NMET project. As per their communication, the required equipment will now be procured through the NMET Incentive Fund of DMGR.
- c) The TCC-II Committee observed that the DGM Rajasthan did not provide an adequate presentation detailing the two ongoing procurements, including their status and the expenditure incurred. This lack of information made it difficult for the Committee to assess the progress and relevance of these procurements.

***Recommendation of TCC-II***

***The Committee, therefore, recommended that DMG Rajasthan submit a detailed presentation in the next TCC-II meeting covering all ongoing procurement projects, including objectives, current status, timelines, and financial expenditure, to enable a comprehensive review and assessment.***

**Agenda 11.4 Review of Ongoing Procurement Projects & Timeline Extension**

**Agenda 11.4.1 Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities.  
[Implementing Agency: DGM Arunachal Pradesh]**



- a) DGM Arunachal Pradesh 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 81,00,000/-
- b) The status of the procurement was presented by DGM **Arunachal Pradesh**. The tender documents are under preparation and shall be procured through tendering shortly.
- c) DGM **Arunachal Pradesh** proposed timeline extension for 6 months up to 30th September 2025
- d) The TCC-II agreed for timeline extension of 6 months for completion of the project.
- e) The committee asked to submit justification from DGM Arunachal Pradesh for delay in project timeline.

**Recommendation TCC-II**

***The TCC-II committee recommended proposal for approval of EC for timeline extension of 6 month up to 30.09.2025 and asked DGM Arunachal Pradesh to submit the justification for delay to NMET Secretariat.***

**Agenda 11.4.2 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.
- c) DMR Meghalaya presented the status of the project of procurements and informed the Committee about delays caused by bidding procedures and a shortfall of ₹3,04,440 in the purchase amount, for which they sought approval from the Committee.
- d) The DGM further requested an extension of the project timeline until 31 August 2025.

**Recommendation TCC-II**

***The TCC-II Committee recommended obtaining EC approval for an additional allocation of ₹3,04,440 towards the total procurement cost, along with a timeline extension up to 31 August 2025, under the project titled 'Financial Assistance from NMET Funds for Procurement of Machinery, Laboratory Equipment/Instruments aimed at Enhancing Exploration Activities', DMR Meghalaya.***

**Agenda 11.4.3 Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities.**

**[Implementing Agency: DGM Jammu & Kashmir]**

- a) DMG Jammu & Kashmir informed that the project was approved in the 29th EC Meeting held on 31st March, 2023. The sanction order was issued on 31st May, 2023 with timeline of 12 months and approved cost was INR 1,44,56,000/-
- b) DMG J&K informed that the procurement was delayed due to administrative issues and the finalization of specifications. They also presented the justification for the revised cost of the items as detailed below:




Sr. No.	Particulars of Items approved for procurement	Qty. No.	Approved Cost (Rs) and	Cost Revision as per TCC meeting held on 24.07.2025	Justification
			Unit Cost		
1	Handheld XRF	02	<b>19,00,000</b> 9,50,000 per unit	<b>57,00,000</b> 28,50,000 per unit	As per the discovered price by DMG Rajasthan @ ₹ 28.44 Lakh, Sikkim @ ₹ 30 Lakh, Maharashtra @ ₹ 49 Lakh, per unit. GSI @ ₹ 24 Lakh per unit
2	Digital Camera	02	<b>3,00,000</b> 1,50,000 per unit	<b>3,00,000</b> 1,50,000 per unit	As per the discovered price by DMG Nagaland @ ₹ 1.5 Lakh per unit.
3	Brunton Compass	20	<b>54,000</b> 2,700 per unit	<b>2,00,000</b> 10,000 per unit	As per the discovered price by DMG Rajasthan @ ₹ 4425 per unit.
4	Geological Hammer	20	<b>40,000</b> 2,000 per unit	<b>80,240</b> 4,012 per unit	<b>Procured by DGM J &amp; K</b> i) As per the discovered price by DGM Nagaland @ ₹ 10000/- per unit DMM West Bengal @ 9800/- per unit DMG Rajasthan @ ₹ 5900/- per unit
5	Handheld GPS	20	<b>14,70,000</b> 73,500 per unit	<b>16,00,000</b> 80,000 per unit	<b>Approved NMET Upper ceiling @ ₹ 0.95 Lakh</b> As per the discovered price by DMG Rajasthan @ ₹ 35000/- per unit
6	Atomic absorption Spectrometer (AAS)	1	<b>80,00,000</b>	<b>43,02,000</b>	<b>GEM BID: Procured</b>
7	GIS software	1	<b>13,00,000</b>	<b>23,00,000</b> 23,00,000 per unit	<b>As per ESRI Rate</b>
8	Total Station	2	<b>13,92,000</b> 6,96,000 per unit	<b>13,92,000</b> 6,96,000 per unit	
<b>Total</b>			<b>1,44,56,000</b>	<b>1,58,74,240</b>	
<b>Additional Funds required</b>				<b>14,18,240</b>	

c) The TCC-II Committee discussed and agreed to the following price based on the discovered price established by Rajasthan, Nagaland, West Bengal and Sikkim and other state DGM/ DMG.

**Recommendation of TCC-II**

**The TCC-II Committee recommended obtaining EC approval for an additional allocation of ₹14,18,240/- towards the total procurement cost, along with a timeline extension up to 31 October 2025, under the project titled 'Financial Assistance from NMET Funds for Procurement of Machinery, Laboratory Equipment/Instruments aimed at Enhancing Exploration Activities', DMG Jammu & Kashmir.**

**Agenda 11.4.4 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:
- 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.
  - 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.
  - 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.
- b) Status of procurement by DGM, Mizoram is as follows:

Sl. No.	Project Title	Instruments	Status of procurement	Remarks
1.	Procurement of machinery/laboratory equipment/instruments etc. aimed at enhancing the exploration activities (18 items)	9 instruments 1. Handheld GPS 2. Pulverizer/Vibratory Cup Mill 3. Polarizing Microscope with software, attached camera for Transmitted and Reflected light with accessories 4. Fusion Bead Machine 5. Press Pellet Machine 6. Truck-mounted Hydrostatic Drill	To be procured	Amounting Rs. 2,35,20,200/-

		Machine up to 600 m capacity 7. Drill Accessories 8. Pumps 9. Core Splitter		
	Financial assistance from NMET funds to procure machinery/laboratory equipment/instruments etc. aimed at enhancing the exploration activities (3 items)	3 items	1 items WD-XRF amounting to Rs. 1,50,00,000 is procured	The delivery of WD-XRF is awaited.
	Financial assistance from NMET funds to procure machinery/laboratory equipment/instruments etc. aimed at enhancing the exploration activities (1 item)	1 DGPS	Administrative approval for floating of GeM Tender is recently approved	The cost of procurement is Rs. 29,50,000/-

- c) DGM Mizoram proposed approval for an additional cost of ₹30,800/- towards the purchase of Handheld GPS units, as the price has increased from ₹51,920 to ₹55,000 per unit.
- d) DGM Mizoram informed that the Pulverizer/Vibratory Cup Mill will be procured along with the Fusion Bead Machine, and that the cost has increased from the earlier estimated amount.
- e) The TCC-II Committee advised DGM Mizoram to attend the upcoming TCC-II meeting with the revised cost details for the procurement of a Pulverizer /Vibratory Cup Mill along with a Fusion Bead Machine.

**Recommendation of TCC-II**

***The TCC-II Committee advised DGM Mizoram to attend the upcoming TCC-II meeting with comprehensive revised cost details for the proposed procurement, including updated price estimates, specifications, and justification for the cost changes. The Committee further advised NMET to request, via email, that the procurement of the Pulverizer/Vibratory Cup Mill along with a Fusion Bead Machine be made at the prevailing market rates followed by GSI, MECL, and other exploration agencies.***

**Agenda 11.5 Review of Ongoing Projects/ Completed Project & Timeline Extension**




**Agenda 11.5.1 Preliminary Exploration (G3) of Ion-Adsorption Clay and Laterite Hosted Supergene Enriched REE Deposits in Sung Valley Block, East Khasi Hills, Meghalaya.**

**[Implementing Agency: DMR Meghalaya]**

- a) The DMR Meghalaya informed that the project was approved in the 32nd EC Meeting held on 06th December, 2023. The sanction order was issued on 12th December, 2023 with timeline of 15 months and approved cost was INR 3,00,93,518/-.
- b) The Committee referred to the 6th TCC-II recommendation, which states that for carrying out chemical analysis of PGE (ICP-MS Ni-S Fire Assay technique) be used for 15 additional samples in place of EPMA analysis. Committee advised that wherever Ni values are more than 0.1% analyse for Pt-Pd.
- c) DMR Meghalaya informed the committee about the progress of the project and proposed timeline extension till 31.12.2025 for completion of the project.
- d) The TCC-II agreed for timeline extension of 6 months for completion of the project.

***Recommendations of TCC-II***

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

**Agenda 11.5.2 Reconnaissance Survey (G4) for Limestone and Dolomite in and around Menga Area (26 sq. km.) of Upper Subansiri District of Arunachal Pradesh.**

**[Implementing Agency: DGM Arunachal Pradesh]**

- a) The DGM, Arunachal Pradesh informed that the project was ratified in the 33rd EC meeting held on 19th February 2024. The sanction order was issued on 15th January 2024 with timeline of 12 months, and approved cost was INR 1,76,01,521/-.
- b) The DGM of Arunachal Pradesh informed the committee that the Menga limestone projects falls within the reservoir of the Upper Subansiri Hydro Project by NHPC. DGM Arunachal Pradesh further stated that if a new block is delineated excluding this reservoir area, the identified commodity (Limestone and Dolomite) may also change.
- c) No revised block of Menga Limestone project was proposed by the DGM during the meeting.
- d) The TCC-II recommended closure of the current project and suggested DGM Arunachal Pradesh to submit a fresh proposal with identification of a new area to NMET.
- e) The project could not be executed. Committee opined to surrender it with justification.

***Recommendations of TCC-II***

***The committee recommends closure of the current project and suggested DGM Arunachal Pradesh to submit a fresh proposal with identification of a new area to NMET.***

**Agenda 11.5.3 Preliminary Exploration (G3) for Copper and Associated Minerals in Thakurdih Area-1 Block (4.10 sq. km), East Singhbhum District, Jharkhand.**



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

- a) The project was recommended by 63rd TCC meeting held on 22nd, 26th & 27th March 2024 and was approved by 35th EC, NMET on 16th May 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) MECL informed that Peer Review of final GR has been done. All comments and modifications suggested by the peer reviewer were attended and incorporated in the final GR.
- c) The TCC-II agreed for submission of final geological report by the agency to NMET.

***Recommendations of TCC-II***

***The committee agreed for submission of final geological report by the agency to NMET.***

**Agenda 11.5.4 Preliminary Exploration (G-3 Level) for Iron, Manganese and Associated Minerals in Tindni Block (21.38 sq. km), Jabalpur District, Madhya Pradesh.**

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

- a) The MECL informed that the project was approved in the 35th EC Meeting held on 16th May, 2024. The sanction order was issued on 10th June, 2024 with timeline of 15 months (up to 09.09.2025) and approved cost was INR 3,68,85,357/-.
- b) MECL informed that Peer Review of final GR has been done. All comments and modifications suggested by the peer reviewer were attended and incorporated in the final GR. Pre-closure of the project was recommended in 9<sup>th</sup> meeting of TCC-II held on 29<sup>th</sup> & 30<sup>th</sup> May 2025, as the iron values identified in the block were not encouraging.
- c) The committee observed that the results are not promising and advised to close the project.
- d) The TCC-II agreed for submission of final geological report by the agency to NMET.

***Recommendations of TCC-II***

***The committee agreed for submission of final geological report by the agency to NMET.***

**Agenda 11.5.5 Reconnaissance Survey (G4) for Iron, Manganese and associated minerals in Jauli Sailwara Block (33.80 sq. km), Jabalpur District, Madhya Pradesh.**

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

The project was not reviewed as the chemical analytical results were pending during the meeting.

***Recommendations of TCC-II***

***The committee deferred the review of the project till the receipt of analytical results.***



**Agenda 11.5.6 Preliminary Exploration (G-3 Level) for copper and associated minerals in Sitapur Block (3.5 sq. km), Balaghat District, Madhya Pradesh.**  
**[Implementing Agency: Mineral Exploration and Consultancy Limited (MECL)]**

- a) The project was recommended by 46th TCC held on 27/ 10 / 2022 and approved in 32nd EC held on 6th December 2023 with an approved cost of ₹270.88 Lakh (including GST) for 12 months up to 11/12/2024. Time extension up to 11/06/2025 was approved in 39th EC held on 24/01/2025.
- b) MECL informed that geological mapping of 3.5 sq. km. area in 1:2000 scale has been completed. Also, geophysical survey has been done in this block. Total 576.10m drilling has been done in 4 boreholes. The agency requested for timeline extension of 3.5 months up to 30<sup>th</sup> September 2025.
- c) The TCC-II agreed for recommending timeline extension of 3.5 months up to 30<sup>th</sup> September 2025.

***Recommendations of TCC-II***

***The committee recommends the proposal for the approval of EC for “extension of timeline for 3.5 months up to 30th September 2025 for report submission”.***

**Agenda 11.5.7 Preliminary Exploration (G-3 Level) for Iron and Bauxite ore in Amoch-Chhapra Block (4.86 sq. km), Jabalpur & Katni Districts, Madhya Pradesh.**  
**[Implementing Agency: Mineral Exploration and Consultancy Limited (MECL)]**

- a) The project was recommended by 65th TCC held on 38/05/2024 and approved in 36th EC held on 29/07/2024 with an approved cost of ₹ 106.84 Lakh (including GST) for 10 months up to 28/06/2025.
- b) The agency requested for timeline extension of 6 months up to 31st December 2025.
- c) The TCC-II agreed for recommending timeline extension of 06 months up to 31st December 2025.

***Recommendations of TCC-II***

***The committee recommends the proposal for the approval of EC for “extension of timeline for 06 months up to 31st December 2025 for report submission”.***

**Agenda 11.5.8 Reconnaissance Survey (G4) for Glauconite in Mudhan Khatiya Block (129.00 sq. km), Kachchh District, Gujarat.**  
**[Implementing Agency: Mineral Exploration and Consultancy Limited (MECL)]**

- a) MECL informed that Mudhan Khatiya Block was recommended in 68th Meeting of TCC of NMET in 28th August 2024 and was approved by 37th EC meeting of NMET on 23rd September 2024 with approved cost of ₹161.65 Lakh (including GST) within the time schedule of 10 Months up to 21st August 2025.
- b) The agency requested for timeline extension of 06 months up to 28<sup>th</sup> February 2026.
- c) The TCC-II agreed for recommending timeline extension of 06 months up to 28<sup>th</sup> February 2026.

**Recommendations of TCC-II**

***The committee recommends the proposal for the approval of EC for “extension of timeline for 06 months up to 28<sup>th</sup> February 2026 for report submission”.***

**Agenda 11.5.9 Preliminary Exploration (G-3 Level) for Tungsten and Tin ore in Murara-Devendrapura Block (4.16 sq. km), Niwari District, Madhya Pradesh.**

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

- a) MECL informed that Murara-Devendrapura Block was recommended in 66th Meeting of TCC of NMET in 25th June 2024 and was approved by 36th EC meeting of NMET on 29th July 2024 with approved cost of ₹308.81 Lakh (including GST) within the time schedule of 12 Months up to 28th August 2025.
- b) The agency requested for outsourced drilling in place of approved in-house drilling and timeline extension of 05 months up to 31<sup>st</sup> January 2026.
- c) Revised cost sheet was discussed and the committee agreed for outsourced drilling in this project.

**Recommendations of TCC-II**

***The committee recommends the proposal for the approval of EC for “outsourced drilling in place of approved in-house drilling” with revised cost of ₹305.61 Lakh (including GST) against initial approved cost of ₹ 308.81 Lakh (including GST) as per Annexures 11.and and timeline extension of 05 months up to 31st January 2026.***

**Agenda 11.5.10 Preliminary Exploration (G-3 Level) for Copper, Lead, Zinc and Associated metals in Salaiya Phatak Block (1.50 sq. km), Katni District, Madhya Pradesh.**

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

- a) The project was recommended by 66th TCC held on 25 June 2024 and approved in 36 EC held on 29th July, 2024 with an approved cost of ₹138.61 Lakh (including GST) for 12 months up to 28th August 2025.
- b) The agency requested for timeline extension of 3 months up to 30<sup>th</sup> November 2025.
- c) The TCC-II agreed for recommending timeline extension of 3 months up to 30<sup>th</sup> November 2025. Review of the project will be taken after drilling results.

**Recommendations of TCC-II**

***The TCC-II committee approved extension of timeline for 3 months up to 30<sup>th</sup> November 2025 for report submission”.***

**Agenda 11.5.11 Preliminary Exploration (G3) for Manganese and Associated Minerals in Kankura Block, West Singhbhum District, Jharkhand.**

**[Implementing Agency: Natural Resource Division Tata Steel Limited]**

- a) The project was recommended by 5th TCC held on 27th, 28th and 29th January, 2025 and approved in 40th EC held on 21/02/2025 with an approved cost of ₹ 395.78 Lakh (including GST) for 15 months up to 26/06/2026.

- b) NRD Tata Steel Limited informed that geological mapping of 5.6 sq. km. area on 1:5000 scale has been completed along with Drone Survey and sampling (BRS/Channel/Groove).
- c) The TCC-II advised to take up geophysical survey in the central part covered with soil of the area in 2<sup>nd</sup> phase of the project.

**Recommendations of TCC-II**

***The committee advised geophysical survey in the central part of the area in 2<sup>nd</sup> phase of the project.***

**Agenda 11.5.12 Reconnaissance Survey (G4) for Copper bearing minerals around Musabani, Dumriya, Maheshpur area in East Singhbhum District, Jharkhand.**

**[Implementing Agency: Natural Resource Division Tata Steel Limited]**

- a) The project was recommended by 67th TCC held on 24th, 25th and 26th July, 2024 and approved in 37<sup>th</sup> EC held on 23/09/2024 with an approved cost of ₹ 288.14 Lakh (including GST) for 10 months up to 29/08/2025.
- b) NRD Tata Steel Limited informed that geological mapping on 1:5000 scale has been completed along with sampling and chemical analysis. The agency requested for timeline extension up to 28<sup>th</sup> February 2026.
- c) The TCC-II opined that the proposed drilling will be decided after results of geophysical survey. Timeline extension up to 28<sup>th</sup> February 2026 was agreed by the committee.

**Recommendations of TCC-II**

***The committee recommends the proposal for the approval of EC for “extension of timeline for 4 months up to 28<sup>th</sup> February 2026 for report submission”.***

**Agenda 11.5.13 Reconnaissance (G4) survey for Limestone in Dillai area, Karbi Anglong districts, Assam.**

**[Implementing Agency: DGM Assam]**

- d) The project was recommended by 64th TCC held on 25th, 29th and 30th April, 2024 and approved in 35th EC held on 16/05/2024 with an approved cost of ₹ 348 Lakh (including GST) for 12 months up to 9/6/2025.
- e) DGM Assam presented the progress of the project work. The agency requested for timeline extension up to 28<sup>th</sup> February 2026.
- a) The TCC-II agreed for recommending timeline extension up to 28<sup>th</sup> February 2026. The committee asked DGM Assam to submit the clarification to NMET for delay in the project work.

**Recommendations of TCC-II**

***The committee recommends the proposal for the approval of EC for “extension of timeline for 08 months up to 28<sup>th</sup> February 2026 for report submission”.***

**Agenda 11.5.14 Reconnaissance (G4) survey for limestone in Sheelveta area (25 sq.km.), Karbi Anglong district, Assam.**

**[Implementing Agency: DGM Assam]**

- a) The project was recommended by 65<sup>th</sup> TCC held on 28th, 30th and 31st May 2024 and approved in 36th EC held on 29.07.2024 with an approved cost of ₹ 267.53 Lakh (including GST) for 12 months up to 28/08/2025.
- b) DGM Assam informed that average CaO value in the area is 36.41%. The agency proposed extension of the area in the southern part of the approved area.
- c) The TCC-II agreed for further work in the area and suggested exclusion of northern part of the approved area exposed with granite gneiss. Block boundary to be revised accordingly.

**Recommendations of TCC-II**

***The committee agreed for further work and suggested exclusion of northern part of the area.***

**Agenda 11.5.15 Reconnaissance survey (G4) for limestone in Longplaidisa area (25 sq.km.), Dima Hasao district, Assam.**

**[Implementing Agency: DGM Assam]**

- a) The project was recommended by 65<sup>th</sup> TCC held on 28th, 30th and 31st May 2024 and approved in 36th EC held on 29.07.2024 with an approved cost of ₹ 307.58 Lakh (including GST) for 12 months up to 29/07/2025.
- b) DGM Assam informed that average CaO value in the area is 38.87%. The agency requested timeline extension of 7 months up to 31<sup>st</sup> March 2026.
- c) The committee advised to prepare interpreted map based on mapped outcrops of limestone and analysis data of pit samples.
- d) The TCC-II agreed for recommending timeline extension up to 31<sup>st</sup> March 2026. The committee asked DGM Assam to submit the clarification to NMET for delay in the project work.

**Recommendations of TCC-II**

***The committee recommends the proposal for the approval of EC for “extension of timeline for 7 months up to 31<sup>st</sup> March 2026 for report submission”.***

**Agenda 11.5.16 Reconnaissance survey (G4) for limestone in Dikurumetron area (20 sq.km.), Upper Deopani of Karbi Anglong district, Assam.**

**[Implementing Agency: DGM Assam]**

- a) The project was recommended by 65<sup>th</sup> TCC held on 28th, 30th and 31st May 2024 and approved in 36th EC held on 29.07.2024 with an approved cost of ₹ 221.54 Lakh (including GST) for 12 months up to 28/08/2025.
- b) DGM Assam informed that average CaO value in the area is 37.25%. The agency requested timeline extension of 07 months up to 31<sup>st</sup> March 2026.
- c) The TCC-II agreed for in-house drilling in 3 boreholes at 1600 m grid. The committee agreed for recommending timeline extension up to 31<sup>st</sup> March 2026.

**Recommendations of TCC-II**

***The committee recommends the proposal for the approval of EC for “extension of timeline for 07 months up to 31<sup>st</sup> March 2026 for report submission”. In-house drilling in 3 boreholes will be done.***

**Agenda 11.5.17 Preliminary Exploration (G3) in Jhalauthar Phosphorite Block for Rock Phosphate, Bada Malehra Taluka, Chhatarpur District, Madhya Pradesh.  
[Implementing Agency: M/s Engeotech Consultant]**

- a) The project was recommended by 67TH TCC held on 24th, 25th and 26th July, 2024 and approved in 37th EC held on 23/09/2024 with an approved cost of ₹172.01 Lakh (including GST) for 12 months up to 29/10/2025.
- b) Engeotech Consultant informed that geological mapping of 1.40 sq. km. area has been done. The agency requested timeline extension of 8 months up to 28/6/2026.
- c) The TCC-II agreed for further progress of the work in the area. The committee agreed for recommending timeline extension up to 28/6/2026.

**Recommendations of TCC-II**

***The committee recommends the proposal for the approval of EC for “extension of timeline for 8 months up to 28 June 2026 for report submission”.***

**Agenda 11.5.18 Reconnaissance Survey (G4) for Graphite and Vanadium in Matena-Sirar Area (60 Sq. km.), Almora District, Uttarakhand.  
[Implementing Agency: M/s Geovale Services Private Limited]**

- a) The project was recommended by 65th TCC held on 28th, 30th and 31st May 2024 and approved in 36th EC held on 29.07.2024 with an approved cost of ₹ 260.46 Lakh (including GST) for 12 months up to 28/08/2025.
- b) Geovale Services Private Limited requested for timeline extension of 6 months up to 28<sup>th</sup> February 2026.
- c) The TCC-II agreed for recommending timeline extension up to 28<sup>th</sup> February 2026. The committee asked Geovale Services Private Limited to submit the clarification to NMET for delay in the project work.

**Recommendations of TCC-II**

***The committee recommends the proposal for the approval of EC for “extension of timeline for 6 months up to 28<sup>th</sup> February 2026 for report submission”.***

**Agenda 11.5.19 Reconnaissance survey (G4) for Vanadium and Titanium in Magnetite bearing sand in the beach/dune sands along the Saurashtra Coast, Gujarat.**

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

- The project was recommended by 2nd TCC-II held on 22nd and 23rd October, 2024 and approved in 38th EC held on 29/11/2024 with an approved cost of ₹ 170.37 Lakh (including GST) for 15 months up to 28/2/2026.
- Geomarine Solutions Private Limited informed that 359 Auger drilling & mineral separation for 200 samples has been done so far. Total 30 dune patches were identified.
- The TCC-II suggested analysis for TiO<sub>2</sub> and V of sand portion.

**Recommendations of TCC-II**

***The committee suggested analysis for TiO<sub>2</sub> and V of sand portion.***

**Agenda 11.5.20 Preliminary exploration (G3) for Bauxite, Gallium, vanadium & REE minerals in Naredi Bauxite Block, Kachchh District, Gujarat.**

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

- The project was recommended 3rd TCC-II held on 5 and 6 December, 2024 and approved in 39th EC held on 24/01/2025 with an approved cost of ₹ 233.33 Lakh (including GST) for 14 months up to 24/03/2026.
- Geomarine Solutions Private Limited informed that geological mapping on 1:4000 scale has been completed. So far, 210m drilling in 9 boreholes has been done.
- The TCC-II advised reorientation of the project for Sc & Ga. Remaining drilling was suggested in 400m x 400m spacing & sampling per meter run. XRD analysis is required in this project. The committee advised the agency to submit a revised quantum of work as per suggestions of TCC-II.

**Recommendations of TCC-II**

***The committee advised modifications in quantum of work.***

**Agenda 11.5.21 Reconnaissance Survey (G4) for Graphite in Korapara, Bankura, West Bengal.**

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

- The project was recommended by 3rd TCC-II held on 5 and 6 December, 2024 and approved in 39th EC held on 24/01/2025 with an approved cost of ₹122.34 Lakh (including GST) for 10 months up to 24/11/2025.
- MMPL informed that geological mapping, sampling (BRS) and geophysical survey has been done. Three (3) trenches have been completed so far. Values of fixed carbon ranges from 3.49% to 6.11%. Seven (7) numbers of boreholes have been planned for drilling. The agency proposed additional drilling of 150m, trenching of 33 cum, sampling 33 for Graphite, proximate analysis 13, BH pillaring 2, Raman Spectroscopy 8 nos. and drill core preservation 100 nos.
- The TCC-II agreed with the additional quantum of work in the project. Revised cost sheet was evaluated and agreed by the committee.

**Recommendations of TCC-II**

***The committee recommends the proposal for the approval of EC for “additional drilling of 150m, trenching of 33 cum, sampling 33 for Graphite, proximate analysis 13,***

**BH pillaring 2, Raman Spectroscopy 8 nos. and drill core preservation 100m” with revised cost of ₹153.11 Lakh (including GST) against initial approved cost of ₹122.34 Lakh (including GST) as per Annexures 12.**

**Agenda 11.5.22 Reconnaissance Survey (G-4 Stage) for Glauconite in Dhamni-Piparwasi-Simliya Area, Sheopur, Madhya Pradesh.**

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

- a) The project was recommended by 66th TCC held on 24th, 25th & 26th June, 2024 and approved in 36th EC held on 29.07.2024 with an approved cost of ₹ 106.22 Lakh (including GST) for 12 months up to 29/07/2025.
- b) MMPL presented the progress of work in the project. The agency proposed reduction in the drilling quantum and included modal analysis of thin section 3 nos.
- c) The TCC-II agreed for proposed reduction in the drilling quantum and included modal analysis of thin section 3 nos.

**Recommendations of TCC-II**

***The committee recommends the proposal for the approval of EC for “reduction in the drilling quantum and included modal analysis of thin section 3 nos.” with revised cost of ₹85.49 Lakh (including GST) against initial approved cost of ₹106.22 Lakh (including GST) as per Annexures 13.***

**Agenda 11.5.23 Reconnaissance Survey (G-4) for PGE, Vanadium & associated minerals in Bhursadongari - Murum Block (100 Sq Km), Balaghat District, Madhya Pradesh.**

**[Implementing Agency: M/s Gemcokati Exploration Private Limited]**

- a) The project was recommended by 62th TCC held on 28th & 29th February and 01st March, 2024 and approved in 34th EC held on 13/03/2024 with an approved cost of ₹ 61.01 Lakh (including GST) for 6 months up to 13/9/2024.
- b) Gemcokati Exploration Private Limited informed that peer review has been done for the final geological report. All the comments of peer reviewer have been incorporated in the final GR. The agency proposed to exclusion of EPMA studies in this project.
- c) The TCC-II agreed for submission of final GR to NMET. The committee agreed for exclusion of EPMA studies in this project.

**Recommendations of TCC-II**

***The committee recommends the proposal for the approval of EC for “exclusion of EPMA studies in this project” with revised cost of ₹59.39 Lakh (including GST) against initial approved cost of ₹61.01 Lakh (including GST) as per Annexures 14.***

**Additional Agenda**

**Agenda 11.4 Review of Ongoing Procurement Projects & Timeline Extension (Contd...)**

**Agenda 11.4.5 Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities**

**[Implementing Agency: DGM Uttar Pradesh]**

- a) The project was recommended by 49th TCC held on 31st January 2023 and approved in 28th EC held on 16th March 2023 with an approved cost of ₹ 76,95,000/- Lakh (including GST) for 12 months up to 02nd April, 2024.
- b) The DGM, Uttar Pradesh requested to the Committee to grant a timeline extension up to 31.03.2026 for the pending procurement of the Resistivity Meter, Handheld GPS, and Core Splitter.
- c) The TCC-II Committee observed that the procurement process was initiated on 03.04.2023, however, the purchase is still in progress. The Committee expressed its displeasure over the delay and requested that a chronological justification for the delay be submitted to the NMET Secretariat.

***Recommendations of TCC-II***

***The committee recommends the timeline extension for the approval of EC for extension of timeline for 09 months up to 31st December 2025 for completion of procurement project.***

**Agenda 11.5 Review of Ongoing Projects/ Completed Project & Timeline Extension**  
**(Contd...)**

**Agenda 11.5.24 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 Private Limited]**

- a) The project was recommended by 61st TCC held on 30th January 2024 and approved in 33rd EC held on 9th February, 2024 with an approved cost of ₹ 95,41,116/- Lakh (including GST) for 09 months up to 30th November, 2024
- b) GeoExpOre Private Limited presented the progress of work in the project.
- c) The committee opined that the Fe values are not encouraging and no additional boreholes are required.
- d) The TCC-II advised completion of the project work as per approved quantum of work.

***Recommendations of TCC-II***

***The committee advised completion of the project work as per approved quantum of work.***

**Agenda 11.5.25 Reconnaissance Survey (G4 Stage) for Graphite and associated Minerals around Sonaghati, Amdol, Jharegaon and Bhayawari, District Betul, Madhya Pradesh**

**[Implementing Agency: M/s GeoExpOre Private Limited]**

- a) The project was recommended by 62nd TCC held on 29 February 2024 and approved in 34th EC held on 13th March, 2024 with an approved cost of ₹ 1,05,04,174/- Lakh (including GST) for 12 months up to 11 March 2025
- b) GeoExpOre Private Limited informed that in the 9<sup>th</sup> TCC-II meeting SP survey was suggested by the committee. Accordingly, 5 LKM SP survey has been done.

- c) The committee observed that the geometry of mineralised zone is not adequately established. Geological/GP survey outcome is not promising.
- d) The TCC-II opined that no further work is needed in this project since the analytical results are not encouraging. The committee advised to close the project and submit GR. Timeline extension up to 10<sup>th</sup> October 2025 was agreed by the committee.

**Recommendations of TCC-II**

***The committee recommends the proposal for the approval of EC for “extension of timeline for 04 months up to 10<sup>th</sup> October 2025 for report submission”.***

**Agenda 11.5.26 Preliminary Exploration (G-3) for REE and Associated Minerals in Borana Block, Bhilwara District, Rajasthan  
[Implementing Agency: M/s GeoExpOre Private Limited]**

- a) The project was recommended by 66<sup>th</sup> TCC held on 24,25, June 2024 and approved in 35<sup>th</sup> EC held on 16<sup>th</sup> May, 2024 with an approved cost of ₹ 1,46,98,108/- Lakh (including GST) for 12 months up to 09 June 2025.
- b) GeoExpOre Private Limited informed that Alanite crystals are seen in the core samples. Albitization & Epidotization & sulphide mineralization have also been observed. The agency requested for IP cum Resistivity Survey, SP Survey, Magnetic Survey, second series of 7 nos. boreholes, additional base metal analysis of 100 samples, additional REE & Gold analysis.
- c) The TCC-II opined that initially approved quantum of work to be continued as per timeline. Analysis to be done on priority basis.

**Recommendations of TCC-II**

***The committee advised to continue the initially approved quantum of work as per timeline.***

**Agenda 11.5.27 Preliminary Exploration (G3) for Glauconite and Associated Minerals in Pitupura Block, Karauli District, Rajasthan  
[Implementing Agency: M/s GeoExpOre Private Limited]**

- a) The project was recommended by 1<sup>st</sup> TCC held on 27<sup>th</sup> September 2024 and approved in 38<sup>th</sup> EC held on 29<sup>th</sup> November, 2024 with an approved cost of ₹ 1,95,03,150/-Lakh (including GST) for 12 months up to 05 July 2026
- b) GeoExpOre Private Limited presented the progress of work in the project.
- c) The TCC-II opined that results are not so encouraging. XRD analysis and petrographic studies to be done on samples with high K<sub>2</sub>O values. Drilling will be decided afterwards. Field photographs are required.

**Recommendations of TCC-II**

***The committee recommends the proposal for the approval of EC for XRD analysis and petrographic studies on samples with high K<sub>2</sub>O values to confirm presence of glauconite with revised cost of ₹194.86 Lakh (including GST) against initial approved cost of ₹195.03 Lakh (including GST) as per Annexures 15.***

**Agenda 11.5.28 Preliminary exploration (G3) for coal, West of Urdhan Jamunia Block, PENCH Kanhan Tawa Valley Coalfield, District: Chhindwara, Madhya Pradesh.**

**[Implementing Agency: CMPDI]**

- d) The project was recommended by 42<sup>nd</sup> TCC held on 24<sup>th</sup> June 2022 and approved in 26<sup>th</sup> EC held on 25<sup>th</sup> August, 2022 with an approved cost of ₹ 4,37,98,519/- Lakh (including GST) for 16 months up to 02 May 2024
- a) CMPDI presented the progress of the work in project. Total 514.53 M tonnes of coal resource has been estimated.
- b) The TCC-II opined that the work may be continued as per the NQT.

***Recommendations of TCC-II***

***The committee opined that the work may be continued as per the NQT***

**Agenda 11.6 Cost Evaluation of New project proposals**

Cost evaluation has been done & recommendations are included in the respective Agenda.

**Agenda 11.7 Project Evaluation for In-Principle Approval**

**Agenda 11.7.1 Reconnaissance Survey (G4) for Graphite and associated Minerals around Buchpuri- Babeli- Para area, District Alwar, Rajasthan**

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

- a) The proposed exploration block of 14.00 sq. km. area falls in Survey of India Toposheet number 54A/12 in parts of Alwar district, Rajasthan.
- b) Comments from DMG Rajasthan were pending during meeting. As per the comments from GSI, values of fixed carbon ranges from 3.61% to 10.32% with average grade of 7.95% FC.
- c) The TCC-II opined that consent of State Government is required for approval of this project.

***Recommendations of TCC-II***

***The committee does not agree for in-principle-approval of the proposal. Comments/ consent from DMG Rajasthan is required.***

**Agenda 11.7.2 Preliminary Exploration (G3) for REE in Kadwa Block, District Garhwa, Jharkhand**

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

- a) The proposed exploration block of 3.40 sq. km. area falls in Survey of India Toposheet number 63P/08 in parts of Garhwa district, Jharkhand.
- b) APC Drilling & Construction Private Limited informed that GSI has done G4 in FS 2021-22 for REE & RM in this area. In the report of this FS further G3 stage of exploration has been recommended by the author.
- c) The TCC-II advised that some reconnaissance survey & sampling to be done by the agency itself. BRS samples to be collected for lithological control.

**Recommendations of TCC-II**

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

**Agenda 11.7.3 Preliminary exploration (G3) for Copper & associated minerals in  
Nayakhera Block, District Chhatarpur, Madhya Pradesh**

**[Implementing Agency: M/s Critical Mineral Tracker]**

- a) The proposed exploration block of 4.95 sq. km. area falls in Survey of India Toposheet number 54P/03 in parts of Chhatarpur district, Madhya Pradesh.
- b) Critical Mineral Tracker informed that in the proposed area from the samples collected during G4 stage of work by GSI, the analytical results obtained from various sampling mediums, provide compelling evidence of substantial base metal mineralization, mainly copper, within the area. The sample values collected from bed rock samples ranges withing 151-2250 ppm of cu concentration in quartz vein. Quartz reefs/veins: Quartz reefs in the studied area are elongated ridges that mainly trend in the NE-SW and N-S directions. These reefs consist primarily of milky white quartz, sometimes with a ferruginous surface coating in certain areas. The analytical results obtained from various sampling mediums, provide compelling evidence of substantial base metal mineralization, mainly copper, within the area. Copper values from BRS extend to levels as high as 13,230 ppm, while CS samples exhibit Cu concentrations reaching up to 4,905 ppm. Trench samples indicate Cu concentrations of up to 905 ppm, and PCS samples reveal Cu values as high as 11,670 ppm. These findings collectively indicate the significant presence of copper mineralization in the region.
- c) The TCC-II advised that some groove sampling to be done by the agency itself. Field photographs are required.

**Recommendations of TCC-II**

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

**Agenda 11.7.4 Reconnaissance Survey (G4) for Limestone and associated minerals in  
Manpui area, North Tripura, Tripura**

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

- a) The proposed exploration block of 27.90 sq. km. area falls in Survey of India Toposheet number 83D/04 & 83D/08 in parts of North Tripura, Tripura.
- b) Comments from DGM Tripura were pending during meeting.
- c) Eartnenviro Lab Private Limited informed that sedimentary rock of tertiary age consisting of shale and Sandstone, can be host rock for Limestone deposit.
- d) The TCC-II opined that consent of State Government is required for approval of this project.

**Recommendations of TCC-II**

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

**Agenda 11.7.5 Reconnaissance Survey (G4) for Phosphorite and Siliceous Earth in  
Mandai Village, District Jaisalmer, Rajasthan**

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



- a) The proposed exploration block of 54.00 sq. km. area falls in Survey of India Toposheet number 40N/03 in parts of Jaisalmer district, Rajasthan.
- b) As per the comments received from GSI, there is an overlap of the proposed area with the GSI's G3 & G4 block of Phosphorite.
- c) DMG Rajasthan informed that there are numbers of working lease (4 to 7 in numbers) located within the study area.
- d) Envirogreen Consultants (India) Private Limited informed that the grade of siliceous earth is fairly good, Silica varies from 69 to 83%. NMET advised NPEAs for reassessment of closed/non-working mine vide their mail dated 14.05.2025. Two CL blocks of siliceous earth have been successfully auctioned nearby the area (Lalso Ki Dhani & Mandai II).
- e) The TCC-II advised exclusion of mining lease (M/L) areas and overlapping area and submission of DPR.

***Recommendations of TCC-II***

***The committee agrees for in-principle-approval of the proposal.***

**Agenda 11.7.6 Reconnaissance Survey (G4) for REE / RM and associated mineralization in Balesar Bhandu Charna area, District Jodhpur, Rajasthan**

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

- a) The proposed exploration block of 58.6 sq. km. area falls in Survey of India Toposheet number 45B/07 & 45B/11 in parts of Jodhpur district, Rajasthan.
- b) As per the comments received from GSI, there is an overlap of the proposed area with the GSI's G4 block of FS 2025-26. As per the comments from AMD, there is an overlap of the proposed area with AMD's project area of FS 2025-26.
- c) The TCC-II advised exclusion of overlapping area and some limited field work by the agency itself. Aeromagnetic data to be consulted from NGDR portal.

***Recommendations of TCC-II***

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

**Agenda 11.7.7 Reconnaissance Survey (G4) for REE / RM and associated mineralization in Baniyawas, Mandli area, District Jodhpur, Rajasthan**

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

- a) The proposed exploration block of 66.00 sq. km. area falls in Survey of India Toposheet number 45B/08 & 45B/12 in parts of Jodhpur district, Rajasthan.
- b) As per the comments received from GSI, the proposed block is overlapping with earlier proposed blocks by other NPEAs.

***Recommendations of TCC-II***

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

**Agenda 11.7.8 Preliminary Exploration (G3) for REE / RM and associated mineralization in Harmant Nagar, District Balotra-Barmer, Rajasthan**




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

- a) The proposed exploration block of 22.00 sq. km. area falls in Survey of India Toposheet number 45B/04 in parts of Balotra-Barmer district, Rajasthan.
- b) Enkay Enviro Services Pvt. Ltd informed that in FS 2022–23, GSI drilled nine scout boreholes in RMT project (depth range: 100–350 m). The boreholes targeted geophysically inferred zones and lithologically distinct areas to assess mineralization potential. Borehole RJRMTM-04 was strategically drilled based on anomalous geochemical signatures identified through groundwater analysis. The borehole samples reported elevated concentrations of key indicator elements.
- c) The TCC-II opined that the concentration of the REE is not encouraging. Some limited field work to be done by the agency itself and after getting positive results fresh G4 proposal may be submitted.

***Recommendations of TCC-II***

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

**Agenda 11.7.9 Preliminary Exploration (G3) for REE / RM and associated mineralization in Tena, District Jodhpur, Rajasthan**

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

- a) The proposed exploration block of 14.00 sq. km. area falls in Survey of India Toposheet number 45B/07 in parts of Jodhpur district, Rajasthan.
- b) As per the comments received from GSI, in the proposed area GSI is currently doing G3 stage of exploration.

***Recommendations of TCC-II***

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

**Agenda 11.7.10 Reconnaissance Survey (G4) for Gold in Moliansot, Barhara, Bihwa, Barrohiya area, District Sobnbadra, Uttar Pradesh.**

**[Implementing Agency: M/s Kundan Concentrates Pvt. Ltd]**

- a) The proposed exploration block of 21.3 sq. km. area falls in Survey of India Toposheet number 63L/15 & 63L/16 in parts of Sobnbadra district, Uttar Pradesh.
- b) As per the comments received from GSI, in the proposed area GSI has already done G4 stage of exploration work. No encouraging results were found during the work.
- c) The agency may prepare a fresh proposal excluding overlapping areas & mineral indication should be incorporated in the proposal.

***Recommendations of TCC-II***

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

**Agenda 11.7.11 Reconnaissance Survey (G4) for Gold in Piprakh-Karail area, District Singrauli, Madhya Pradesh.**

**[Implementing Agency: M/s Kundan Concentrates Pvt. Ltd]**



- a) The proposed exploration block of 25.00 sq. km. area falls in Survey of India Toposheet number 63L/11 & 63L/12 in parts of Singrauli district, Madhya Pradesh.
- b) As per the comments received from GSI, the proposed area is overlapping (50%) with GSI's exploration area.
- c) The agency may prepare a fresh proposal excluding overlapping areas & mineral indication should be incorporated in the proposal.

***Recommendations of TCC-II***

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

**Agenda 11.7.12 Reconnaissance Survey (G4) for Sulphide Potentiality and associated mineralization in Tukra, Kharijapikon, Tilapara, Paikan, Phoponga area, District Goalpara, Assam**

**[Implementing Agency: M/s Novomine India Pvt. Ltd]**

- a) The proposed exploration block of 25.02 sq. km. area falls in Survey of India Toposheet number 78J/12 in parts of Goalpara district, Assam.
- b) Comments from GSI were pending during the meeting.

***Recommendations of TCC-II***

***The committee deferred the proposal till comments from GSI are received.***

**Agenda 11.7.13 Reconnaissance Survey (G4) for REE and associated minerals in Umden, Palsha, Umshit, Mawrang Kang, Nongtham area, District Ri-Bhoi, Meghalaya**

**[Implementing Agency: M/s Novomine India Pvt. Ltd]**

- a) The proposed exploration block of 38.52 sq. km. area falls in Survey of India Toposheet number 78O/13 & 83C/01 in parts of Ri-Bhoi district, Meghalaya.
- b) As per the comments received from GSI, the proposed area is overlapping (30%) with GSI's exploration area. No encouraging values are present in the area.

***Recommendations of TCC-II***

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

**Agenda 11.7.14 Reconnaissance Survey (G4) for REE and associated minerals in Umtasor, Umsaw, Mawtari, Nongshar, Nongkharai, Lumpadon area, District Ri-Bhoi District, Meghalaya**

**[Implementing Agency: M/s Novomine India Pvt. Ltd]**

- a) The proposed exploration block of 33.25 sq. km. area falls in Survey of India Toposheet number 78O/13 in parts of Ri-Bhoi district, Meghalaya.
- b) As per the comments received from GSI, the proposed area is overlapping with GSI's exploration area. No encouraging values are present in the area.

***Recommendations of TCC-II***

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




**Agenda 11.7.15 Reconnaissance Survey (G4) for REE and associated minerals in Rimrang-Myapngiri-Songsak,-Sukhadam-Asil-Songgital-Asil Mindil-Barikgre-Rimrang-Bonegre areas, District East Garo Hills, Meghalaya**  
**[Implementing Agency: M/s Novomine India Pvt. Ltd]**

- a) The proposed exploration block of 34.92 sq. km. area falls in Survey of India Toposheet number 78K/10 in parts of East Garo Hills district, Meghalaya.
- b) As per the comments received from GSI, the proposed area is completely overlapping with an exploration licence block.

***Recommendations of TCC-II***

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

**Agenda 11.7.16 Reconnaissance Survey (G4) for Base metals, Ni and Tungsten in Shahpura, Nare area, District Sikar and Jaipur, Rajasthan**  
**[Implementing Agency: M/s Ocean Drilling & Exploration Pvt. Ltd.]**

- a) The proposed exploration block of 119.03 sq. km. area falls in Survey of India Toposheet number 45M/15 in parts of Sikar and Jaipur district, Rajasthan.
- b) Comments from DMG Rajasthan were pending during the meeting.
- c) Ocean Drilling & Exploration Pvt. Ltd. informed that During the Field Season 2017–18, Specialized Thematic Mapping (STM) has been carried out by GSI. The survey involved the systematic collection and analysis of various sample types, including 100 bedrock samples (BRS) and 15 PCS samples. Chemical analysis of these samples revealed anomalously high values of Cu, Co, Ni and Tungsten (W). Some of the Anomalous values for Cu, Ni, Co is 1.BRS-35, Cu-0.22%, 0.22% Ni 2. BRS-85, Cu-0.16%, 0.17% Ni,430ppm Co 3. BRS-97, Cu-0.64%,0.35% Ni,360 ppm Co 4. BRS-100, Cu-2.21%,320 ppm Co.
- d) The TCC-II advised to exclude the extended eastern part, (L shape) format it in rectangular shape covering NE-SW trending Delhi supergroup of rocks. Comments of DMG, Rajasthan regarding Aravali part may be considered. modification in the area (rectangular shape).

***Recommendations of TCC-II***

***The committee agrees for in-principle-approval of the proposal. Consent/ comments from DMG Rajasthan is required.***

**Agenda 11.7.17 Preliminary Exploration (G3) for REE and associated mineralization in Nimale ki Pahadi, Thapan, Muthli block, Barmer District, Rajasthan.**  
**[Implementing Agency: M/s Ocean Drilling & Exploration Pvt. Ltd.]**

- a) The proposed exploration block of 1.96 sq. km. area falls in Survey of India Toposheet number 45C/6 in parts of Barmer district, Rajasthan.
- b) The TCC-II opined that two G3 projects for REE, proposed by the same agency in the adjacent areas, have been recommended for approval, further three more G3 projects proposed by other agencies have also been recommended for approval. Outcome of these projects to be reviewed for further extension.

***Recommendations of TCC-II***

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

**Agenda 11.7.18 Preliminary Exploration (G3) for the assessment of Gold & associated minerals in Bahardhari block, District East Singhbhum, Jharkhand.**

**[Implementing Agency: M/s Geomarine Pvt. Ltd.]**

- a) The proposed exploration block of 5.38 sq. km. area falls in Survey of India Toposheet number 73J/02 in parts of East Singhbhum district, Jharkhand.
- b) Comments from DGM Jharkhand & GSI were pending during the meeting.
- c) The TCC-II asked NMET to seek comments from GSI for this proposal in prescribed format. The proposal will be kept on hold till the comments from GSI are received.

***Recommendations of TCC-II***

***The committee deferred the proposal till the comments from GSI are received.***



**List of participants attended 11<sup>th</sup> meeting of Technical-cum-cost Committee (TCC-II) of  
NMET held on 23<sup>rd</sup>, 24<sup>th</sup> & 25<sup>th</sup> July, 2025 through video conferencing mode**

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63	Representative				CMPDI
64	Representative				M/s Geovale Services Private Limited
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**Estimated Cost for Preliminary Exploration (G3) for REE and associated minerals in Bhimgoda South Block, District: Balotra, Rajasthan  
Block area - 6.25 sq. km; No of BH-33 & Stratigraphic BH-3 = Total 36 Boreholes, Average Depth of BH: 120 m, Total Drilling : 4610 m  
Schedule timeline - 18 months, Review: after 05 months and 10 months**

**Exploration Agency: Mineral Exploration and Consultancy Limited (MECL)**

Sl. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item- S. No.	Rates as per SoC	Qty.	Total Amount (Rs)	
<b>A</b>	<b>GEOLOGICAL WORK</b>						
<b>1</b>	<b>Geological Mapping (1:2000)</b>						
	Geologist man days (1 No.) for Geological map preparation & Report Preparation(HQ)	days	1.1b	9,000	60	5,40,000	
	a) Geologist man days for Detailed Geological mapping/Channel Sampling/ Drilling	days	1.2	11,000	180	19,80,000	
	b) Labour (field)	per worker	5.7	541	360	1,94,760	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	c) Sampler for Surface Samples/ Core Samples Labour charge not included (1 sampler)	day	1.5.2	5100	140	7,14,000	Total 1122 Nos of Samples / 8 Nos of sample per day =306
	d) 4 labours/ party (As per rates of Central Labour Commissioner)	day	5.7	541	560	3,02,960	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
<b>2</b>	<b>Survey</b>						

i	Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes by DGPS	Per Point of observation	1.6.2	19,200	40	7,68,000	36 Boreholes + 4 Boundary Points = 40
ii	Charges of one qualified surveyor with Total Station for carrying out topographical survey in different RF and surface contouring at different interval	days	1.6.1a	8,300	60	4,98,000	Contouring at 2 m interval for preparation of base map on 1:2000 scale
iii	4 labours/ party (As per rates of Central Labour Commissioner)	days	5.7	541	240	1,29,840	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
<b>Sub-Total A</b>						<b>51,27,560</b>	
<b>B SURFACE GEOPHYSICAL SURVEY</b>							
i	Gravity - Magnetic Method	Per Station	3.1b	4,500	0	-	Station interval-50m, line Interval-100m
ii	Geophysicist Man days for interpretation in HQ	days		9,000	0	-	
<b>Sub-Total B</b>						<b>-</b>	
<b>C DRILLING</b>							
i	Core Drilling upto 300m Hard Rock	per m	2.2.1.4a	11,500	4,610	5,30,15,000	33 Nos of BH with 120 m Depth =3960 m Stratigraphic BH 02 No. x 250 m + 01 No. x 150 =Total 4610 m Drilling ( Initially, 12 Boreholes including 3 stratigraphic boreholes)

ii	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	36	7,20,000	Amount will be reimbursed as per actuals or max. Rs. 20000 per BH with certification from local authorities
iii	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	36	72,000	
iv	Borehole plugging by cement	m	2.2.7b	150	4,610	6,91,500	
v	Transportation of Drill Rig & Truck associated per drill	Km	2.2.8	36	4,400	1,58,400	2 Rig Transport, 1100 Km from nagpur to Bhimgoda
vi	Monthly Accommodation Charges for drilling Camp	month	2.2.9	50,000	12	6,00,000	2 Rig Operation* for 6 months
vii	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	2	5,00,000	2 Rig Operation
viii	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	2	5,00,000	2 Rig Operation
ix	Road Making (Flat Terrain)	Km	2.2.10a	22,020	5	1,10,100	Amount will be recalculated after Completion of Tender Process. As per actuals
x	Drill Core Preservation	per m	5.3	1,590	1,000	15,90,000	Including complete meterage of stratigraphic boreholes
xi	Borehole Geophysical logging (5 BHs of 350m each) (In House)	5 BHs of 350m each	3.12	10,88,941	1.32	14,37,402	5 BH X350m =1750m
	<b>Sub Total- C</b>					<b>5,93,94,402</b>	
<b>D</b>	<b>LABORATORY STUDIES</b>						
<b>1</b>	<b>Chemical Analysis</b>						

	i) Primary Samples for 34 elemental analysis by ICPMS Sc, Y, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Hf, Ta, Rb, Zr, Ge, Sr, Sn, W, V, Be, Ga, Nb, Mo, Pb, Li, Cs, U & Th	per sample	4.1.14	7,731	1000	77,31,000	The quantum of sampling will be decided based on the results of initial 3-4 BH
	ii) External Check Samples for 34 elemental analysis by ICPMS Sc, Y, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Hf, Ta, Rb, Zr, Ge, Sr, Sn, W, V, Be, Ga, Nb, Mo, Pb, Li, Cs, U & Th	per sample	4.1.14	7,731	100	7,73,100	10% of primary samples
	iii) Major Oxides by XRF Method: CaO, MgO, K <sub>2</sub> O, SiO <sub>2</sub> , Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , SO <sub>3</sub> & LOI	per sample	4.1.15a	4200	20	84,000	
	10% percent external check sample	per sample	4.1.15a	4200	2	8,400	
<b>2.0</b>	<b>Petrological / Mineralographic studies</b>						
	a) Preparation of thin section	per sample	4.3.1	2,353	25	58,825	
	b) Study of thin section for petrography	per sample	4.3.4	4,232	25	1,05,800	
	c) Digital photomicrograph of thin polished section	per sample	4.3.7	280	20	5,600	
	XRD Mineral Phase Analysis	per sample	4.5.1	4,000	30	1,20,000	
	EPMA Studies	per hour	4.4.1	8,540	10	85,400	
	Density	per sample	4.8.3	1,568	20	31,360	
	<b>Sub-Total D</b>					<b>90,03,485</b>	
	<b>Total (A TO D)</b>					<b>7,35,25,447</b>	

<b>E</b>	<b>Geological Report Preparation</b>	<b>Nos</b>	<b>5.2</b>	For the projects having cost exceeding Rs. 300 Lakhs: A minimum of ₹ 9 lakh or 3% of the value of work whichever is more subject to a maximum amount of ₹ 20 lakh and ₹ 10,000/- per each additional copy.	<b>1</b>	<b>20,00,000</b>	
<b>F</b>	<b>Preparation of Exploration Proposal</b>	<b>Nos</b>	<b>5.1</b>	2% or Rs. 500000 whichever is less	<b>1</b>	<b>5,00,000</b>	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.
<b>G</b>	<b>Report Peer Review Charges</b>	<b>lumpsum</b>	<b>As per EC decision</b>	<b>30000</b>	<b>1</b>	<b>30,000</b>	
<b>H</b>	<b>Total Estimated Cost without GST</b>					<b>7,60,55,447</b>	
<b>I</b>	<b>Provision for GST ( 18%)</b>					<b>1,36,89,980</b>	GST will be reimburse as per actual and as per notified prescribed rate
<b>J</b>	<b>Total Estimated Cost with GST</b>					<b>8,97,45,428</b>	
					<b>Say, in Lakhs</b>	<b>897.45</b>	
Note:							
<b>1</b>	<b>Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.</b>						




2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.
5	Any item of work not mentioned above shall be added as per SoC.
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.



**Time Schedule/ Action Plan for Preliminary Exploration (G-3) for REE and associated minerals in Bhimgoda-South Block, Districts: Balotra, State: Rajasthan**

S. No.	Particulars	Months/ Days	1	2	3	4	5	REVIEW	6	7	8	9	10	REVIEW	11	12	13	14	15	16	17	18		
1	Camp Setting	months	■																					
2	Geological Mapping & BR sampling	months	■	■	■																			
3	Geophysical Survey	Months		■	■	■	■																	
4	Topographic Survey	months			■	■																		
5	Out Source Tendering Process	months					■			■														
6	Core Drilling	m									■	■	■		■		■	■	■					
7	BH Geophysical Logging	m									■	■	■		■		■	■	■					
8	BH Core Sampling	Nos					■					■	■		■		■	■	■	■				
9	Camp winding	months																		■				
10	Laboratory Studies	months					■										■	■	■	■	■	■		
11	Report Writing with Peer Review	months																		■	■	■		

Estimated cost for Preliminary Exploration (G-3) for REE and associated minerals in Ludrada South Block, Districts: Balotra, State: Rajasthan  
Block area- 2.75 sq. km; No of BH:31, Average Depth of BH: 80 m, Total Drilling : 2480 m  
Schedule timeline- 15 months, Review: after 05 months and 10 months

Exploration Agency: Mineral Exploration and Consultancy Limited (MECL)

Sl. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item- S. No.	Rates as per SoC	Qty.	Total Amount (Rs)	
<b>A</b>	<b>GEOLOGICAL WORK</b>						
<b>1</b>	<b>Geological Mapping (1:2000)</b>						
	Geologist man days (1 No.) for Geological map & Report (HQ)	days	1.1b	9,000	60	5,40,000	
	a) Geologist man days (2 No) for Large scale (LSM) Geological mapping/Channel Sampling/ Drilling	days	1.2	11,000	180	19,80,000	
	b) Labour (field)	per worker	5.7	541	360	1,94,760	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	c) Sampler for Surface Samples/ Trench Samples / Core Samples Labour charge not included (1 sampler)	day	1.5.2	5100	220	11,22,000	Total 1758 Nos of Samples / 8 Nos of sample per day =220 Days

	d) 4 labours/ party (As per rates of Central Labour Commissioner)	day	5.7	541	880	4,76,080	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
<b>2</b>	<b>Survey</b>						
i	Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes by DGPS	Per Point of observation	1.6.2	19,200	37	7,10,400	31 Core Drilling Boreholes and 6 Boundary Points
ii	Charges of one qualified surveyor with Total Station for carrying out topographical survey in different RF and surface contouring at different interval	days	1.6.1a	8,300	45	3,73,500	Contouring at 2 m interval for preparation of base map on 1:2000 scale
iii	4 labours/ party (As per rates of Central Labour Commissioner)	days	5.7	541	180	97,380	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	<b>Sub-Total A</b>					<b>54,94,120</b>	
<b>B</b>	<b>SURFACE GEOPHYSICAL SURVEY</b>						
i	Gravity - Magnetic Method	Per Station	3.1b	4500	0	-	
ii	Geophysicist Man days for interpretation in HQ	days		9,000	0	-	
	<b>Sub-Total B</b>					<b>-</b>	
<b>C</b>	<b>DRILLING</b>						
i	Core Drilling upto 300m Hard Rock	per m	2.2.1.4a	11,500	2,480	2,85,20,000	In first phase 8 BHs will be taken up with 400m interval. Subsequent drilling will be after review.

ii	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	31	6,20,000	Amount will be reimbursed as per actuals or max. Rs. 20000 per BH with certification from local authorities
iii	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	31	62,000	
iv	Borehole plugging by cement	m	2.2.7b	150	2,480	3,72,000	
v	Transportation of Drill Rig & Truck associated per drill	Km	2.2.8	36	4,400	1,58,400	2 Rig Transport, 1100 Km from nagpur to Ludrada
vi	Monthly Accommodation Charges for drilling Camp (Rs 50000/- per Month upto 2 rigs, 50% Additional Charge for additional rigs)	month	2.2.9	50,000	7	3,50,000	2 Rig Operation
vii	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	2	5,00,000	
viii	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	2	5,00,000	
ix	Road Making (Flat Terrain)	Km	2.2.10a	22,020	5	1,10,100	Amount will be recalculated after Completion of Tender Process
x	Drill Core Preservation	per m	5.3	1,590	1,000	15,90,000	
xi	Borehole Geophysical logging (5 BHs of 350m each) (In House)	5 BHs of 350m each	3.12	10,88,941	0.70	7,62,259	5 BH X350m =1750m
	<b>Sub Total- C</b>					<b>3,35,44,759</b>	
<b>D</b>	<b>LABORATORY STUDIES</b>						
<b>1</b>	<b>Chemical Analysis</b>						

	i) Primary Samples for 34 elemental analysis by ICPMS Sc, Y, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Hf, Ta, Rb, Zr, Ge, Sr, Sn, W, V, Be, Ga, Nb, Mo, Pb, Li, Cs, U & Th	per sample	4.1.14	7,731	1580	1,22,14,980	Bed Rock Sample:80  BH Core Sample: 1500. Tentative. The sampling plan will be finalised after 1st phase of drilling.
	ii) External Check Samples for 34 elemental analysis by ICPMS Sc, Y, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Hf, Ta, Rb, Zr, Ge, Sr, Sn, W, V, Be, Ga, Nb, Mo, Pb, Li, Cs, U & Th	per sample	4.1.14	7,731	158	12,21,498	10% of primary samples
	iii) Major Oxides by XRF Method: CaO, MgO, K <sub>2</sub> O, SiO <sub>2</sub> , Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , SO <sub>3</sub> & LOI	per sample	4.1.15a	4200	20	84,000	
<b>2.0</b>	<b>Petrological / Mineralographic studies</b>						
	a) Preparation of thin section	per sample	4.3.1	2,353	15	35,295	
	b) Study of thin section for petrography	per sample	4.3.4	4,232	15	63,480	
	c) Digital photomicrograph of thin polished section	per sample	4.3.7	280	20	5,600	
<b>3</b>	XRD Mineral Phase Analysis	per sample	4.5.1	4,000	30	1,20,000	
	Specific gravity	per sample	4.8.1	1,605	30	48,150	<b>Measurement of SP. gravity host rock and adjoining rock</b>
<b>4</b>	EPMA Studies	per hour	4.4.1	8,540	10	85,400	
	<b>Sub-Total D</b>					<b>1,38,78,403</b>	
	<b>Total (A TO D)</b>					<b>5,29,17,282</b>	

E	<b>Total (A TO D)</b>	<b>Nos</b>	<b>5.2</b>	For the projects having cost exceeding Rs. 300 Lakhs: A minimum of ₹ 9 lakh or 3% of the value of work whichever is more subject to a maximum amount of ₹ 20 lakh and ₹ 10,000/- per each additional copy.	<b>1</b>	<b>15,87,518</b>	
F	<b>Preparation of Exploration Proposal</b>	<b>Nos</b>	<b>5.1</b>	2% or Rs. 500000 whichever is less	<b>1</b>	<b>5,00,000</b>	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.
G	<b>Report Peer Review Charges</b>	<b>lumpsum</b>	<b>As per EC decision</b>	<b>30000</b>	<b>1</b>	<b>30,000</b>	
H	<b>Total Estimated Cost without GST</b>					<b>5,50,34,800</b>	
I	<b>Provision for GST ( 18%)</b>					<b>99,06,264</b>	GST will be reimburse as per actual and as per notified prescribed rate
J	<b>Total Estimated Cost with GST</b>					<b>6,49,41,064</b>	
					<b>Say, in Lakhs</b>	<b>649.41</b>	
Note:							
1	<b>Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.</b>						

2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.
5	Any item of work not mentioned above shall be added as per SoC.
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.



**Time Schedule/ Action Plan for Preliminary Exploration (G-3) for REE and associated minerals in Ludrada South Block, Districts: Balotra, State: Rajasthan [Block area- 2.75 sq. km; Schedule timeline- 18 months]**

S. No.	Particulars	Months/ Days	1	2	3	4	5	REVIEW	6	7	8	9	10	REVIEW	11	12	13	14	15	16	17	18		
1	Camp Setting	months	■																					
2	Geological Mapping & BR sampling	months	■	■	■																			
3	Geophysical Survey	Months		■	■	■	■																	
4	Topographic Survey	months			■	■																		
5	Out Source Tendering Process	months					■			■														
6	Core Drilling	m									■	■	■		■		■	■	■					
7	BH Geophysical Logging	m									■	■	■		■		■	■	■					
8	BH Core Sampling	Nos										■	■		■		■	■	■					
9	Camp winding	months																		■				
10	Laboratory Studies	months					■										■	■	■	■	■	■		
11	Report Writing with Peer Review	months																		■	■	■		

**Estimated Cost for Preliminary Exploration (G-3) for REE and associated minerals in Ludrada North Block, Districts: Balotra, State: Rajasthan  
Block area- 2.00 sq. km; No of BH:25, Average Depth of BH: 80 m, Total Drilling : 2000 m  
Schedule timeline- 15 months, Review: after 05 months and 10 months**

**Exploration Agency: Mineral Exploration and Consultancy Limited (MECL)**

Sl. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item- S. No.	Rates as per SoC	Qty.	Total Amount (Rs)	
<b>A</b>	<b>GEOLOGICAL WORK</b>						
<b>1</b>	<b>Geological Mapping (1:2000)</b>						
	Geologist man days (1 No.) for Geological map & Report (HQ)	days	1.1b	9,000	60	5,40,000	
	a) Geologist man days (2 No) for Large scale (LSM) Geological mapping/Channel Sampling/Drilling	days	1.2	11,000	180	19,80,000	
	b) Labour (field)	per worker	5.7	541	360	1,94,760	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	c) Sampler for Surface Samples/ Trench Samples / Core Samples Labour charge not included (1 sampler)	day	1.5.2	5100	176	8,97,600	Total 1406 Nos of Samples / 8 Nos of sample per day =175.75 Days

	d) 4 labours/ party (As per rates of Central Labour Commissioner)	day	5.7	541	704	3,80,864	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
<b>2</b>	<b>Survey</b>						
i	Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes by DGPS	Per Point of observation	1.6.2	19,200	33	6,33,600	25 Core Drilling Boreholes and 8 Boundary Points
ii	Charges of one qualified surveyor with Total Station for carrying out topographical survey in different RF and surface contouring at different interval	days	1.6.1a	8,300	45	3,73,500	Contouring at 2 m interval for preparation of base map on 1:2000 scale
iii	4 labours/ party (As per rates of Central Labour Commissioner)	days	5.7	541	180	97,380	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	<b>Sub-Total A</b>					<b>50,97,704</b>	
<b>B</b>	<b>SURFACE GEOPHYSICAL SURVEY</b>						
i	Gravity - Magnetic Method	Per Station	3.1b	4500	0	-	
ii	Geophysicist Man days for interpretation in HQ	days		9,000	0	-	
	<b>Sub-Total B</b>					<b>-</b>	
<b>C</b>	<b>DRILLING</b>						

i	Core Drilling upto 300m Hard Rock	per m	2.2.1.4a	11,500	2,000	2,30,00,000	7 Bhs to be taken up in 1st Phase. Subsequent Bhs will be taken up after review. 25 Nos of BH with 80 m Depth =2000 m
ii	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	25	5,00,000	Amount will be reimbursed as per actuals or max. Rs. 20000 per BH with certification from local authorities
iii	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	25	50,000	
iv	Borehole plugging by cement	m	2.2.7b	150	2,000	3,00,000	
v	Transportation of Drill Rig & Truck associated per drill	Km	2.2.8	36	4,400	1,58,400	2 Rig Transport, 1100 Km from nagpur to Ludrada
vi	Monthly Accommodation Charges for drilling Camp (Rs 50000/- per Month upto 2 rigs, 50% Additional Charge for additional rigs)	month	2.2.9	50,000	7	3,50,000	2 Rig Operation
vii	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	2	5,00,000	
viii	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	2	5,00,000	
ix	Road Making (Flat Terrain)	Km	2.2.10a	22,020	5	1,10,100	Amount will be recalculated after Completion of Tender Process
x	Drill Core Preservation	per m	5.3	1,590	1,750	27,82,500	
xi	Borehole Geophysical logging (5 BHs of 350m each) (In House)	5 BHs of 350m each	3.12	10,88,941	1.15	12,52,282	5 BH X350m =1750m , Geophysical Target is 2000 m, Hence 1.15 unit quantum
<b>Sub Total- C</b>						<b>2,95,03,282</b>	

D	LABORATORY STUDIES						
1	Chemical Analysis						
	i) Primary Samples for 34 elemental analysis by ICPMS Sc, Y, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Hf, Ta, Rb, Zr, Ge, Sr, Sn, W, V, Be, Ga, Nb, Mo, Pb, Li, Cs, U & Th	per sample	4.1.14	7,731	1260	97,41,060	Bed Rock Sample: 60 BH Core Sample: 1200.Tentative. The sampling plan will be finalised after results 1st phase of drilling.
	ii) External Check Samples for 34 elemental analysis by ICPMS Sc, Y, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu, Hf, Ta, Rb, Zr, Ge, Sr, Sn, W, V, Be, Ga, Nb, Mo, Pb, Li, Cs, U & Th	per sample	4.1.14	7,731	126	9,74,106	10% of primary samples
	iii) Major Oxides by XRF Method: CaO, MgO, K <sub>2</sub> O, SiO <sub>2</sub> , Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , SO <sub>3</sub> & LOI	per sample	4.1.15a	4200	20	84,000	
2.0	<b>Petrological / Mineralographic studies</b>						
	a) Preparation of thin section	per sample	4.3.1	2,353	15	35,295	
	b) Study of thin section for petrography	per sample	4.3.4	4,232	15	63,480	
	c) Digital photomicrograph of thin polished section	per sample	4.3.7	280	20	5,600	
3	XRD Mineral Phase Analysis	per sample	4.5.1	4,000	30	1,20,000	
	Specific gravity	per sample	4.8.1	1,605	30	48,150	
4	EPMA Studies	per hour	4.4.1	8,540	10	85,400	
	<b>Sub-Total D</b>					<b>1,11,57,091</b>	
	<b>Total (A TO D)</b>					<b>4,57,58,077</b>	

<b>E</b>	<b>Geological Report Preparation</b>	<b>Nos</b>	<b>5.2</b>	For the projects having cost exceeding Rs. 300 Lakhs: A minimum of ₹ 9 lakh or 3% of the value of work whichever is more subject to a maximum amount of ₹ 20 lakh and ₹ 10,000/- per each additional copy.	<b>1</b>	<b>13,72,742</b>	
<b>F</b>	<b>Preparation of Exploration Proposal</b>	<b>Nos</b>	<b>5.1</b>	2% or Rs. 500000 whichever is less	<b>1</b>	<b>5,00,000</b>	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.
<b>G</b>	<b>Report Peer Review Charges</b>	<b>lumpsum</b>	<b>As per EC decision</b>	<b>30000</b>	<b>1</b>	<b>30,000</b>	
<b>H</b>	<b>Total Estimated Cost without GST</b>					<b>4,76,60,819</b>	
<b>I</b>	<b>Provision for GST ( 18%)</b>					<b>85,78,947</b>	GST will be reimburse as per actual and as per notified prescribed rate
<b>J</b>	<b>Total Estimated Cost with GST</b>					<b>5,62,39,767</b>	
					<b>Say, in Lakhs</b>	<b>562.40</b>	
Note:							

1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.
5	Any item of work not mentioned above shall be added as per SoC.
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.



**Time Schedule/ Action Plan for Preliminary Exploration (G-3) for REE and associated minerals in Ludrada North Block, Districts: Balotra, State: Rajasthan**

S. No.	Particulars	Months/ Days	1	2	3	4	5	REVIEW	6	7	8	9	10	REVIEW	11	12	13	14	15	16	17	18		
1	Camp Setting	months	■																					
2	Geological Mapping & BR sampling	months	■	■	■																			
3	Geophysical Survey	Months		■	■	■	■																	
4	Topographic Survey	months			■	■																		
5	Out Source Tendering Process	months					■			■														
6	Core Drilling	m									■	■	■		■		■	■	■					
7	BH Geophysical Logging	m									■	■	■		■		■	■	■					
8	BH Core Sampling	Nos					■					■	■		■		■	■	■	■				
9	Camp winding	months																		■				
10	Laboratory Studies	months					■										■	■	■	■	■	■		
11	Report Writing with Peer Review	months																		■	■	■		

**Estimated Cost for Reconnaissance Survey (G-4) For REE In Jeerawal(W)-Rohua Area, District Sirohi, Rajasthan**  
**Total Area - 48.6 Sq Km; Completion Time - 10 Months, Review : after 5 months**

**Exploration Agency : FAGMIL**

S.N	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal for		Remarks
			SoC-Item -SI	Rates as per SoC	Qty.	Total Amount (Rs)	
			No.				
<b>A</b>	<b>GEOLOGICAL WORK</b>						
<b>1</b>	<b>Mapping ,Excavation, &amp; sampling</b>						
a	Charges for one Geologist per day at HQ for monitoring, data processing etc.	day	1.3	<b>9,000</b>	<b>60</b>	<b>5,40,000</b>	
b	Charges for one Geologist per day at field for mapping, channel sampling and logging.	day/geologist	1.3	<b>11,000</b>	<b>150</b>	<b>16,50,000</b>	Calculated on the basis of 2 Geologists Party Mapping- 5 months with pitting- 50 days
c	Labour Charges (2 Nos) for one Geologist; (Base rate - Rs.541/)	day	5.7	<b>541</b>	<b>300</b>	<b>1,62,300</b>	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or the respective State Govt.. whichever is higher, calculated on the basis of 2 parties
d	Charges for Sampler (1 party) (for pit sample)	one sampler per day	1.5.2	<b>5,100</b>	<b>24</b>	<b>1,22,400</b>	
	Labour	day	5.7	<b>541</b>	<b>96</b>	<b>51,936</b>	
<b>2</b>	<b>Survey</b>						
a	Topographical Survey- surveyor	day	1.6.1a	<b>8300</b>	20	166000	

a	Determination of boundary points and base station by DGPS	Per Point of observation	1.6.2	19,200	8	1,53,600	4 Boundary Points & 4 Base stations
e	Labour Charges (3 Nos)for Sampling Work	day	5.7	541	0	0	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
<b>Total - A</b>						<b>28,46,236</b>	
<b>B</b>	<b>EXCAVATION</b>						
1	Excavation of Pit between 2.0 m to 5.0 m depth	per Cu.m	2.1.3	5,330	50	2,66,500	The dimation of the pit will be decided by the geologist after cosidering the lithology
<b>Total - B</b>						<b>2,66,500</b>	
<b>C</b>	<b>Ground Geophysical Survey</b>						
a	Gravity - Magnetic Method - Regional / Detailed (0.5 to 200 sq.km depending on the objective)	per station/LKM	3.1b	4,500	0	0	GP survey will be conducted in the NW part of the block with agricultural land, at a line spacing of 150-200m.
b	Radiometry	per station/LKM	-	200	0	0	
c	Charges for Geophysicist (Field)	Charges per day	3.18	11,000	0	0	
d	Surveyor Work	days	1.6.1a	8300	0	0	
e	4 labours/ party (Rs 541/day/labour) (As per rates of Central Labour Commissioner)	day	5.7	541	0	0	
f	Charges for Geophysicist (HQ)	Charges per day	3.18	9,000	0	0	
<b>Total - C</b>						<b>0</b>	
<b>D</b>	<b>LABORATORY STUDIES</b>						
<b>1</b>	<b>Chemical Analysis</b>						
	<b>Check samples External ICPMS</b>						

	a. LREE ,HREE	Nos	4.1.13	0	0	0	
	b. Analysis of one rock/ soil sample for determination of a package by 34 elements by ICP-AES / ICPMS (sequential technique)		4.1.14	7,731	150	11,59,650	
	<b>Check samples External ICPMS from another Institute to cross check (10%)</b>						
	a. LREE ,HREE	Nos	4.1.13	0	0	0	
	b. Analysis of one rock/ soil sample for determination of a package by 34 elements by ICP-AES / ICPMS (sequential technique)		4.1.14	7,731	15	1,15,965	
	Estimation of major oxides by XRF technique (Whole rock analysis)	per samples	4.1.15a	4,200	30	1,26,000	
	Check Samples (10%)	per samples	4.1.15a	4,200	3	12,600	
<b>2</b>	<b>Petrographic Study</b>						
i	Preparation of polished thin section of rock/ wafer	Nos	4.3.2	1,549	10	15,490	
ii	Complete petrographic /ore microscopic study/mineragraphic report of rock sample	Nos	4.3.4	4,232	10	42,320	
<b>3</b>	<b>Mineragraphic Study</b>	Nos					
i	Preparation of unmounted polished section of rock (8cm x 5cm)	Nos	4.3.3	1,185	0	0	
ii	XRD analysis for identification of minerals (Random)	Nos	4.5.1	4,000	10	40,000	
	<b>TOTAL - D</b>					<b>15,12,025</b>	
	<b>Sub Total (A to D)</b>					<b>46,24,761</b>	

E	Geological Report Preparation		5.2	For the projects upto Rs. 50 Lakhs : A Minimum of Rs. 1.5 lakhs or 5% of the work whichever is more	1	2,31,238	EA has to submit the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
F	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5 Lakhs whichever is lower	1	92,495	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.
G	Peer review Charges		As per EC decision			30,000	
H	Total Estimated Cost without GST					49,78,494	
I	Provision for GST (18% of GST)	%				8,96,129	GST will be reimbursed as per actual and as per notified prescribed rate
J	Total Estimated Cost with GST					58,74,623	
						<b>or Say Rs. In Lakhs</b>	<b>58.75</b>
<b>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.</b>							
1	<b>Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.</b>						
2	<b>In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.</b>						
3	<b>If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.</b>						
4	<b>Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.</b>						
5	<b>Any item of work not mentioned above shall be added as per SoC.</b>						
6	<b>All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.</b>						

**Time schedule/ Action Plan for the Reconnaissance Survey (G4) in Jeerawal(W)-Rohua Block for the REE, Sirohi, Rajasthanl  
Total Area-48.6 Sq.Km: Estimated time - 10 months**

Sr. No	Activities	Months														
		1	2	3	4	5	Review	6	7	8	9	10	11	12		
1	Camp Mobilisation	■						Review								
2	Geologist Days Field		■	■		■	■						■			
3	Pitting						■									
4	Laboratory Studies			■	■	■	■		■	■	■	■	■	■		
5	Sampling Party					■	■									
6	Camp Demobilisation															■
7	Geologist Party in HQ													■	■	
8	Geologist Report Writing with Peer Review															■




**Estimated Cost for Preliminary exploration (G3) for Rare Earth Elements and Associated mineralization in North of Kuship Block, Balotra District, Rajasthan**  
**Area: 2.3 sq.km, Scale 1:2,000**  
**(Schedule timeline: 12 months Review: After 06 Months)**

**Exploration Agency: Ocean Drilling & Exploration Pvt. Ltd.**

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)	
<b>A</b>	<b>Geological Mapping, Other Geological Work &amp; Surveying</b>						
1	a. Charges for Geologist per day (Field) Geological mapping (1:2,000 scale)	day	1.2, 1.5.1a	11,000	180	19,80,000	
	b. Labours Charges; Base rate	day	5.7	541	360	1,94,760	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
3	a. Charges for Geologist per day (HQ)	day	1.2	9,000	60	5,40,000	
4	a. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	146	7,44,600	
	b. Labours (4 Nos)	day	5.7	541	584	3,15,944	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
	<b>Sub Total- A</b>					<b>37,75,304</b>	
<b>B</b>	<b>Survey work</b>						
1	DGPS Survey for BH fixation & RL determination along with the demarcation of block boundary	Per Point of observation	1.6.2	19,200	35	672000	

2	a. Charges of Surveyor (1 party) for Detail mapping and contouring by total station (outsorce)	one surveyor per day	1.6.1b	8,300	45	373500	
	b. Labour Charges for survey work (4 Nos)	day	5.7	541	180	97380	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
<b>Sub-Total B</b>						<b>11,42,880</b>	
<b>C</b>	<b>DRILLING (In-house)</b>						
1	Drilling up to 300m (Hard Rock), NQ	m	2.2.1.4a	11500	3650	4,19,75,000	In the initial phase 4 BH will be drilled one on each grid line. The subsequent drilling will be after the review of results.
2	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	31	6,20,000	As per actuals
3	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2000	31	62,000	
4	Borehole plugging by cement	m	2.2.7b	150	3650	547500	
5	Transportation of Drill Rig & Truck associated per drill (3 rigs) (36*3=108)	Km	2.2.8	108	3,000	3,24,000	From Jaipur to Balotra (Kms @ 500 Kms)
6	Monthly Accommodation Charges for drilling Camp (For 2 Rigs 50000+ ((50000 X 50%) X 1) = 75,000	month	2.2.9	75,000	7	5,25,000	3 rigs
7	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	3	7,50,000	
8	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	3	7,50,000	
9	Road Making (Rugged-hilly Terrain)	Km	2.2.10b	32,200	5	1,61,000	
10	Drill Core Preservation	per m	5.3	1,590	1,000	15,90,000	
<b>Sub Total C</b>						<b>4,73,04,500</b>	
<b>D</b>	<b>Borehole Geophysical Logging</b>						
	Borehole Geophysical Logging (5 bh of 350m each)	(5 bh of 350m each)	3.12	1088941	1	10,88,941	
<b>Sub Total D</b>						<b>10,88,941</b>	

<b>E</b>							
<b>LABORATORY STUDIES</b>							
1	<b>Chemical Analysis</b>						
i)	<b>Primary samples</b>						
	a. Analysis of one rock sample for detremination of package by 34 elements by ICP-MS	Nos	4.1.14	7,731	1,000	77,31,000	The quantum of sampling will be determined after the results of initial 4 BHs. (100 BRS, 50 Trench)
	b. Check samples Internal (10%)	Nos	4.1.14	7,731	100	7,73,100	
2	<b>Petro Chemical Samples (Whole rock analysis)</b>						
i)	Major Oxides by XRF	Nos	4.1.15a	4,200	30	1,26,000	
	b. Check samples Internal (10%)	Nos	4.1.15a	4,200	3	12,600	
iii)	Analysis of one rock sample for determination of a package by 34 elements/radicals by ICP-MS	Nos	4.1.14	7,731	30	2,31,930	
	b. Check samples Internal (10%)	Nos	4.1.14	7,731	3	23,193	
3	XRD analysis for identification of minerals (Random)	Nos	4.5.1	4,000	10	40,000	
4	<b>Physical &amp; Petrological Studies</b>						
i	Preparation of thin section	Nos	4.3.1	2,353	25	58,825	
ii	Study of thin section	Nos	4.3.4	4,232	25	1,05,800	
iii)	Digital photomicrograph of thin polished section	Nos.	4.3.7	280	50	14000	
vi)	Density	Nos	4.8.3	1568	20	31,360	
vii)	EPMA	per hour	4.4.1	8,540	10	85,400	
	<b>Sub Total E</b>					<b>92,33,208</b>	
<b>H</b>	<b>Total A to E</b>					<b>6,25,44,833</b>	
<b>I</b>	<b>Geological Report Preparation</b>	<b>5 Hard copies with a soft copy</b>	<b>5.2</b>	For the projects having cost more than Rs. 300 lakhs - A minimum of Rs. 9 lakhs or 3% of the value of work		<b>18,76,345</b>	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.

				whichever is more subject to a max. amount of Rs. 20 lakhs			
J	Peer review Charges		As per EC decision			30,000	
K	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is less		5,00,000	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					6,49,51,178	
M	Provision for GST (18% of J)					1,16,91,212	GST will be reimburse as per actual and as per notified prescribed rate
N	Total Estimated Cost with GST					7,66,42,390	
				or Say Rs. In Lakhs		766.42	
<b>Note:</b>							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.						

**Time Schedule/ Action Plan for Preliminary exploration (G3) for Rare Earth Elements and Associated mineralization in North of Kuship Block, Balotra District, Rajasthan**

S. No.			Months													
			1	2	3	4	5	6	7	8	9	10	11	12		
1	Camp Setting	Months/Days	■													
2	Geological Mapping & Sampling	days		■	■	■	■	■								
3	Topographic Survey	days		■	■	■	■	■								
4	Surface Drilling (3 rigs)	m				■	■	■		■	■	■	■			
5	Core logging and sampling							■	■							
6	Geophysicist party days (HQ) for data interpretation & Report	Days									■	■	■	■		
7	Geologist Man days (Field)	days		■	■	■	■	■	■							
8	Geologist Man days (HQ)	days	■	■	■						■	■	■	■	■	
9	Sampler Man days	days			■	■	■	■	■							
10	Laboratory Studies	Nos.				■	■	■	■							
11	Report Writing with Peer Review	months											■	■	■	
12	Camp Winding	months														■

Review

**Estimated Cost for Preliminary exploration for rare earth elements and associated mineralization in Ramdev Ji ke Beri Block, Balotra District, Rajasthan (UNFC Stage- G3)**  
**Area: 2.3 sq.km, Scale:2,000, Drilling depth : 120m, BH-22**  
**(Schedule timeline: 12 months Review: After 06 Months)**

**Exploration Agency: Ocean Drilling & Exploration Pvt. Ltd**

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)	
<b>A</b>	<b>Geological Mapping, Other Geological Work &amp; Surveying</b>						
1	a. Charges for Geologist per day (Field) Geological mapping (1:2,000 scale) , drilling work, core logging, sampling, supervision of drilling, etc	day	1.3	11,000	180	19,80,000	
	b. Labours Charges; Base rate	day	5.7	541	360	1,94,760	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
2	a. Charges for Geologist per day (Field) for .	day	1.5.1a	11,000	-	-	
	b. Labour Charges; Base rate	day	5.7	541	-	-	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
3	a. Charges for Geologist per day (HQ)	day	1.2	9,000	60	5,40,000	

4	a. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	118	6,01,800	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
	b. Labours (4 Nos)	day	5.7	541	472	2,55,352	
<b>Sub Total- A</b>						<b>35,71,912</b>	
<b>B</b>	<b>Survey work</b>						
1	DGPS Survey for BH fixation & RL determination along with the demarcation of block boundary	Per Point of observation	1.6.2	19,200	28	537600	
2	a. Charges of Surveyor (1 party) for Detail mapping and contouring by total station (outsource)	one surveyor per day	1.6.1a	8,300	30	249000	
	b. Labour Charges for survey work (4 Nos)	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.
<b>Sub-Total B</b>						<b>8,51,520</b>	
<b>C</b>	<b>DRILLING (In-House)</b>						
1	Drilling up to 300m (Hard Rock), NQ	m	2.2.1.4a	11500	2650	3,04,75,000	Initially 5 BHs will be drilled one on each grid line. Subsequent drilling shall be planned after review.
2	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	27	5,40,000	As per actuals
3	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2000	22	44,000	
4	Borehole plugging by cement	m	2.2.7b	150	2650	397500	

5	Transportation of Drill Rig & Truck associated per drill (3 rigs) (36*3=108)	Km	2.2.8	108	3,500	3,78,000	From Jaipur to Barmer @ 600 Kms
6	Monthly Accommodation Charges for drilling Camp (For 2 Rigs 50000+ ((50000 X 50%) X 1) = 75,000	month	2.2.9	75,000	7	5,25,000	
7	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	3	7,50,000	
8	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	3	7,50,000	
9	Road Making (Rugged-hilly Terrain)	Km	2.2.10b	32,200	10	3,22,000	
10	Drill Core Preservation	per m	5.3	1,590	1,000	15,90,000	
<b>Sub Total C</b>						<b>3,57,71,500</b>	
<b>D</b>	<b>Borehole Geophysical Logging</b>						
1	Borehole Geophysics logging (5 Bh 350m each)	5 Bh 350m each	3.12	1088941	1	1088941	
<b>Sub Total D</b>						<b>10,88,941</b>	
<b>E</b>	<b>LABORATORY STUDIES</b>						
1	<b>Chemical Analysis</b>						
	<b>Primary samples</b>						
i)	a. Analysis of one rock sample (BRS/Channel/core sample) of a package for 34 elements by ICP-MS	Nos	4.1.14	7,731	800	61,84,800	Initially sample length at 2m interval and the sample length will be reviewed after the results of the 1st phase of project.
	b. Check samples External (10%)	Nos	4.1.14	7,731	80	6,18,480	
2	<b>Petro Chemical Samples</b>						
i)	Petrochemical samples (Whole rock analysis) major oxides by XRF	Nos	4.1.15a	4,200	30	1,26,000	
	b. Check samples External (10%)	Nos	4.1.15a	4,200	3	12,600	
ii)	Petrochemical samples for additional trace elements (Ba, Co, Cr, Cu, Ga, Nb, Pb, Rb, Sc, Sr, Th, V, Y, Zn, Zr, Ni) by XRF	Nos	4.1.15b	16*421= 6,736	30	2,02,080	

	b. Check samples External (10%)	Nos	4.1.15b	6,736	3	20,208	
3	XRD analysis for identification of minerals (Random)	Nos	4.5.1	4,000	10	40,000	
4	<b>Physical &amp; Petrological Studies</b>						
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)	Digital photomicrograph of thin polished section	Nos.	4.3.7	280	50	14000	
iv)	Porosity	Nos.	4.8.2	2547	0	0	
v)	Uniaxial compressive strength	Nos.	4.8.4c	2380	0	0	
vi)	Sp. Gravity	Nos	4.8.1	1605	20	32,100	
vii)	EPMA	per hour	4.4.1	8,540	10	85,400	
	<b>Sub Total E</b>					<b>74,01,518</b>	
<b>H</b>	<b>Total A to E</b>					<b>4,86,85,391</b>	
<b>I</b>	<b>Geological Report Preparation</b>	<b>5 Hard copies with a soft copy</b>	<b>5.2</b>	For the projects having cost more than Rs. 300 lakhs - A minimum of Rs. 9 lakhs or 3% of the value of work whichever is more subject to a max. amount of Rs. 20 lakhs		<b>14,60,562</b>	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
<b>J</b>	<b>Peer review Charges</b>		<b>As per EC decision</b>			<b>30,000</b>	

<b>K</b>	<b>Preparation of Exploration Proposal (5 Hard copies with a soft copy)</b>	<b>5 Hard copies with a soft copy</b>	<b>5.1</b>	2% of the Cost or Rs. 5.0 Lakhs whichever is less		<b>5,00,000</b>	EA will be reimbursed after submission of the Hard Copies and the soft copy of the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal.
<b>L</b>	<b>Total Estimated Cost without GST</b>					<b>5,06,75,953</b>	
<b>M</b>	<b>Provision for GST (18% of J)</b>					91,21,671.49	GST will be reimburse as per actual and as per notified prescribed rate
<b>N</b>	<b>Total Estimated Cost with GST</b>					<b>5,97,97,624</b>	
				<b>or Say Rs. In Lakhs</b>		<b>597.98</b>	
<b>Note:</b>							
<b>1</b>	<b>Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.</b>						
<b>2</b>	<b>In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.</b>						
<b>3</b>	<b>If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.</b>						
<b>4</b>	<b>Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.</b>						
<b>5</b>	<b>Any item of work not mentioned above shall be added as per SoC.</b>						
<b>6</b>	<b>All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.</b>						

**Time Schedule/ Action Plan for Preliminary exploration for rare earth elements and associated mineralization in Ramdev Ji ke Beri Block, Balotra District, Rajasthan**

S. No.			Months													
			1	2	3	4	5	6	7	8	9	10	11	12		
1	Camp Setting	Months/Days														
2	Geological Mapping & Sampling	days														
3	Topographic Survey	days														
4	Surface Drilling (3 rigs)	m														
5	Core logging and sampling															
6	Geophysicist party days (HQ) for data interpretation & Report	Days														
7	Geologist Man days (Field)	days														
8	Geologist Man days (HQ)	days														
9	Sampler Man days	days														
10	Laboratory Studies	Nos.														
11	Report Writing with Peer Review	months														
12	Camp Winding	months														

**Estimated Cost for Reconnaissance Survey (G-4 Exploration) for Graphite and Associated Mineralisation in Phandka-Gatakhera Area, Betul District, Madhya Pradesh Area: 23.17 sq. km, No.of BH: 6, Each Borehole depth range- 100 m, Schedule timeline- 10 Months , Review: After: 4 & 8 Months**

**Exploration Agency : Vardan Environet Llp**

Sl.No.	Item of Work	SoC Sr. No.	Units	Qty	Cost per unit/ per day/ manday (In Rs.)	Total Amount (In Rs.)	Remarks
<b>1</b>	<b>Geological Mapping (Scale 1:12,500)</b>						
a.	Satellite Imageries	1.1a	Per Imageries				As per Actuals
b.	Geologists (HQ) days (1 No) [Multispectral and DEM data analysis]	1.1b	Per day	0	9,000.00	0.00	
c.	Geologists (HQ) days(1 No)	1.2a	Mandays	60	9,000.00	5,40,000.00	
d.	Charges of Geologist (field)	1.2b	Mandays	180	11,000.00	19,80,000.00	Geological Mapping on 1:12,500 Scale, core logging, sampling (BRS & Core), supervision of trenching and pitting
e.	Labour Charges (2 Helper for each geo)	5.7	Mandays	360	541.00	1,94,760.00	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	<b>Sub Total :- 1</b>					<b>27,14,760.00</b>	
<b>2</b>	<b>Survey work</b>						

a.	Charges of Surveyor	1.6.1b	Per day	10	8,300.00	83,000.00	For Topographic Survey, geophysical station marking, 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	10	19,200.00	1,92,000.00	6 BHs and 4 boundary coordinates
	<b>Sub Total :- 2</b>					<b>2,75,000.00</b>	
<b>3</b>	<b>Trenching/Pitting</b>						
a.	Trenching	2.1.1	cu.m	100	3,330.00	3,33,000.00	
b.	Pitting	2.1.2	cu.m	0	3,800.00	0.00	
	<b>Sub Total :- 3</b>					<b>3,33,000.00</b>	
<b>4</b>	<b>Sample Preparation</b>						
a.	Sampler charges for Sample processing work	1.5.2	Mandays	66	5,100.00	3,36,600.00	
b.	Labour(Field days)(2workers per sampler)	5.7	Mandays	264	541.00	1,42,824.00	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	<b>Sub Total :- 4</b>					<b>4,79,424.00</b>	
<b>5</b>	<b>Geophysical Survey- Outsource</b>						
a.	Magnetic Surveys (10-30 line km)	3.2a	Per station	0	0.00	0.00	Profile Interval of 200m with 20m station interval of 30 line km totalling to 1500 stations

b.	Self-Potential (SP) survey (8-20 line km)	3.3a	Line Km	30	29,600.00	8,88,000.00	
c.	Induced Polarisation (Dople-Dipole) (10-20 Line Km) n=10	3.4a	Line Km	0	0.00	0.00	Cover thickness map , predictive geological and predictive structural map to be generated after IP survey
d.	Borehole Geophysical logging	3.12	m	1	10,88,941.00	10,88,941.00	
e.	Expert Charges for Geophysicist (HQ)	3.18	Per day	10	9,000.00	90,000.00	
f.	Expert Charges for Geophysicist (Field Monitoring)	3.19	Per day	0	11,000.00	0.00	
<b>Sub Total :- 5</b>						<b>20,66,941.00</b>	
<b>6</b>	<b>Core Drilling (600 m/ 6 BH)-Outsource</b>						
a.	Drilling (HQ Size Core) (6 BH)(Hard Rock), 120m	2.2.4a	Per m	0	13,800.00	0.00	
b.	Drilling (NQ Size Core) (6 BH)(Hard Rock of <300m), 600 m	2.2.1.4a	Per m	600	11,500.00	69,00,000.00	
c.	Drill Core Preservation	5.3	Per m	250	1,590.00	3,97,500.00	This amount will be reimbursed after successful delivery of the cores to concerned libraries/authorities
d.	Borehole deviation survey by Multi shot camera	2.2.6	Per m	600	330.00	1,98,000.00	
<b>Sub Total :- 6</b>						<b>74,95,500.00</b>	
<b>7</b>	<b>Laboratory Study</b>						
a.	Bed Rock samples+ Core Samples+ trench samples by XRF for whole rock analysis- Major Oxides	4.1.15a	Nos	225	4,200.00	9,45,000.00	BRS - 25. Trench- 100 Core - 100
	External Check 10%	4.1.15a	Nos	23	4,200.00	96,600.00	

b.	Bed Rock samples by ICPMS- REE (14 REE elements package) {Bed Rock samples+ Core Samples+ trench samples}	4.1.13	Nos	25	5,380.00	1,34,500.00	Trench-10, BRS-05, CORE- 10
	External Check 10%	4.1.13	Nos	3	5,380.00	16,140.00	
c.	Proximate Analysis of Graphite	4.1.16	Nos.	225	3,000.00	6,75,000.00	BRS - 25. Trench- 100 Core - 100
	External Check 10%	4.1.16	Nos.	23	3,000.00	69,000.00	
d.	Bed Rock samples by XRD	4.5.1	Nos.	25	4,000.00	1,00,000.00	Trench-10, BRS-05, CORE- 10
<b>7.2</b>	<b>Drill Core Samples</b>						
b.	Drill core samples by AAS (Cu, Pb, Zn, Ni, Co)	4.1.7a	Nos	100	2,506.00	2,50,600.00	
	External Check 10%	4.1.7a	Nos	10	2,506.00	25,060.00	
c.	Drill core samples by AAS (V)	4.1.7b	Nos	100	335.00	33,500.00	
	External Check 10%	4.1.7b	Nos	10	335.00	3,350.00	
h.	Density	4.8.3	Nos	10	1,568.00	15,680.00	
	<b>Sub Total :- 7</b>					<b>23,64,430.00</b>	
<b>8</b>	<b>Petrological studies- Outsource</b>						
c.	Preparation of polished section	4.3.2	Nos	10	1,549.00	15,490.00	
d.	Complete petrographic /ore microscopic study/mineragraphic report of rock sample	4.3.4	Nos	10	4,232.00	42,320.00	
e.	Digital photomicrograph of thin polished	4.3.7	Nos	15	280.00	4,200.00	
	<b>Sub Total :-8</b>					<b>62,010.00</b>	

	<b>Total (Sno.1 to 8)</b>					<b>1,57,91,065.00</b>	
<b>9</b>	<b>Preparation of Exploration Proposal</b>	<b>5.1</b>	One Number (5 Hard copies) along with soft copy	<b>2% of approval project cost or 5 Lakh whichever is lower</b>		<b>3,15,821.30</b>	
<b>a.</b>	<b>Geological Report Preparation</b>	<b>5.2(ii)</b>	Cost per 5 Hard copies of report along with soft copy	iii) Reconnaissance Survey/ Preliminary exploration/General exploration/Detailed exploration exceeding ₹150 lakh but less than 300 lakh: A Minimum of ₹7.5 lakh or 3% of the work whichever is more and ₹3000/- per each additional copy.		<b>7,89,553.25</b>	
<b>b.</b>	<b>Tender Processing Cost</b>	<b>2.3</b>	One time, in case of outsourced component(s) of project work	2% of the approved project cost or 5 lakh whichever is lower will be paid one time to Exploration Agency		<b>1,77,538.82</b>	For the outsourced component (Rs.8,88,000+Rs.10,88941+Rs.69,00,000/= 88,76,941)

c.	<b>Operational Charges</b>	<b>6(iii)</b>				<b>7,90,770.58</b>	In case of total outsourced cost more than ₹50 lakh up to ₹1 crore: Cost for outsourced component(s) of project work will be reimbursed as per actuals. In addition, ₹5 lakh plus 7.5 percent on the balance amount of outsourced cost in excess of ₹50 lakh will be paid to Exploration Agency towards operational charges. The operational charges will be calculated on the cost of total outsourced component or certified actual payment made by the Exploration Agency, whichever is lower.
10	<b>Peer Review charge</b>	<b>As per EC</b>				<b>₹ 30,000</b>	
	<b>Grand Total</b>					<b>₹ 1,78,94,749</b>	
	<b>Add GST @ 18%</b>				<b>18%</b>	<b>₹ 32,21,055</b>	
	<b>Grand Total Including GST</b>					<b>₹ 2,11,15,804</b>	
	<b>Rs in Lakh</b>					<b>₹ 211</b>	
Note:							
1	<b>Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.</b>						
2	<b>In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.</b>						
3	<b>If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.</b>						
4	<b>Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.</b>						
5	<b>Any item of work not mentioned above shall be added as per SoC.</b>						
6	<b>All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.</b>						

**Time Schedule/ Action Plan for Reconnaissance Survey (G4) for Graphite and associated mineralisation in Phandka-Gatakhera area,  
Betul District Madhya Pradesh (Block area- 23.17 sq. km; Schedule timeline- 10 Months)**

S.N.	Activities	Unit	Months													
			1	2	3	4	Review	5	6	7	8	Review	9	10		
1.	Geologist Party days (HQ)	day	■													
2.	Geologist Party days (Field)	day		■	■	■	■		■	■						
3.	Sampling Party days	day			■	■	■		■							
4.	Geophysical work	day			■	■	■		■	■						
5.	Drilling	day			■	■	■		■	■						
6.	Petrographic Studies	Nos.								■	■	■	■			
7.	Geochemical Studies	Nos.			■	■	■		■	■	■	■				
8.	Geological Work (pitting, trenching)	m <sup>3</sup>		■	■	■										
9.	Report Writing	day										■		■		
10.	Peer Review	day													■	■

**Estimated Cost for Preliminary Exploration (G-3) for Graphite, Vanadium, and associated minerals in Deed Block, Lower Subansiri District, Arunachal Pradesh**

**Total Area - 2.1 Sq. Km; Drilling- 2300m, Drilling depth - 30m & 60m (Vertical depth), Trenching-380cu.m, Completion Time - 18 Months, Review: after 5, 10 & 15 months Table No.VII.B**

**Exploration Agency: Geo Marine Solutions Pvt. Ltd.**

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.	NER	Total Amount (Rs)		
<b>A</b>	<b>Geological Mapping Other Geological Work &amp; Surveying</b>								
	Geological mapping, (1:2,000 scale)								
i	a. Charges for Geologist per day (Field)	day	1.3	11,000	280	3.35	1,03,18,000		
ii	b. Labour Charges; Base rate	day	5.7	541	560	3.35	10,14,916	2*390	
	c. Charges for Geologist per day (HQ)	day	1.3	9,000	60		5,40,000		
	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	92	3.35	15,71,820		
	Labours Charges for sampler work(4 labourers)	day		541	368	3.35	6,66,945		
	<b>Sub Total- A</b>							<b>1,41,11,681</b>	
<b>B</b>	Resistivity profiling with twin seperation	lkm	3.6.c	300000	1.9	3.35	19,09,500		

	<b>Sub total B</b>						<b>19,09,500</b>	
<b>C</b>	<b>Survey work</b>							
a	Surveyor for topographic survey/DGPS Survey and for BH fixation & RL determination	Per Point of observation	1.6.2	19,200	32	3.35	2058240	28 BH plus 4 Boundary points
b	Charges of Surveyor (1 party) for topographic mapping in 1:2000 scale	one surveyor per day	1.6.1a	8,300	70	3.35	1946350	2.1 sq.km
c	Labours Charges for survey work(4 labourers)	day	5.7	541	280	3.35	507458	
	<b>Sub-Total C</b>						<b>45,12,048</b>	
<b>E</b>	<b>DRILLING (In-house)</b>							
	Excavation of trenches upto 2.0m depth	per cu.m	2.1.1	3330	140	3.35	1561770	Trenching: 14 trenches of 10mx1mx1m
1	Core Drilling (28BH)	m	2.2.1.3a	10,100	2,300	3.35	7,78,20,500	Core drilling(45° angle) to intersect the ore body at two levels of 30m and 60m vertical depths(60*14+105*14=2310). The depth of intersection maybe revised after establishing geological continuity of graphite bands in first few boreholes.
2	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH						as per actuals / SoC and details will be submitted during Review
3	Transportation of Drill Rig & Truck associated per drill (2 rigs)	Km	2.2.8	36		1	383976	from Manglore to Deed, Arunachal Pradesh (Approx : 3600 Kms) 2720 Km (Manglore to Siliguri) @ 2720 x36 x 2 = 195840/- Total = 383976/- 780 km (Siliguri to Deed) @ 780x36x3.35x2 = 188136/-

4	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	6	3.35	10,05,000	
5	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	2	3.35	16,75,000	
6	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	2	3.35	16,75,000	
7	Drill core Preservation	m	5.3	1,590	1,000		15,90,000	
8	Construction of concrete pillars	per BH	2.2.7a	2,000	28	3.35	1,87,600	
	<b>Sub Total E</b>						<b>8,58,98,846</b>	
<b>G</b>	<b>LABORATORY STUDIES</b>							
1	<b>Chemical Analysis</b>							
v)	<b>BH Core samples</b>							
	<b>Trench samples</b>							
	Trench samples :Primary (1m sample length) for major oxides and LOI by XRF	Nos	4.1.15a	4,200	140		5,88,000	
	+ 10 % Check Sample	nos	4.1.15a	4,200	14		58,800	

	Trench Samples: Graphite Proximate Analysis:	Nos	4.1.16	3,000	14		42,000	One composite sample from each trench	
	+ 10 % Check Sample	nos	4.1.16	3,000	2		6,000		
	Core Samples: Primary (1m sample length) for major oxides and LOI by XRF	Nos	4.1.15a	4,200	460		19,32,000	1/5th of total meterage	
	+ 10 % Check Sample	Nos	4.1.15a	4,200	46		1,93,200		
	Primary for set of 34 elements by ICPMS: One Composite Sample for each borehole	Nos	4.1.14	7,731	28		2,16,468	28	
	+ 10 % Check Sample	Nos	4.1.14	7,731	3		23,193	3	
	Core Samples: Graphite Proximate Analysis: One Composite Sample for each borehole (28)	Nos	4.1.16	3,000	28		84,000	28	
	+ 10 % Check Sample	Nos	4.1.16	3,000	3		9,000	3	
2	<b><u>Physical &amp; Petrological Studies</u></b>								
i	Preparation of thin section	Nos	4.3.1	2,353	10		23,530		
iii	Preparation of polished section	Nos	4.3.3	1,185	10		11,850		
ii	petrographic/ore microscopic study	Nos	4.3.4	4,232	20		84,640		
iv	Digital Photographs	Nos	4.3.7	280	20		5,600		
v	XRD	Nos	4.5.1	4,000	10		40,000		
vi	density	Nos	4.8.3	1,568	10		15,680		
vii	EPMA	hrs	4.4.1	8,540	20		1,70,800		
	Laser Raman Spectroscopic Study/MCT	Nos			4			As per actuals	
	<b>Sub Total G</b>							<b>35,04,761</b>	

H	Total A to H					10,99,36,836	
I	Geological Report Preparation	5 Hard copies with a soft copy	5.2	Exploration cost exceeding 300 lakh : A Minimum of ₹9 lakh or 3% of the work whichever is more		20,00,000	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. 5.0 Lakhs whichever is less		5,00,000	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					11,24,66,836	
M	Provision for GST (18% of J)					2,02,44,030	GST will be reimburse as per actual and as per notified prescribed rate
N	Total Estimated Cost with GST					13,27,10,866	
				or Say Rs. In Lakhs		1,327.11	
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.



**Time Schedule/ Action Plan for Preliminary Exploration (G-3) for Graphite, Vanadium, and associated minerals in Deed Block, Lower Subansiri District, Arunachal Pradesh**

Table-VII.C

S. No.			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Camp Setting/Mobilization	Months																		
2	Geological Mapping & Sampling	days																		
3	Trenching																			
4	Geological and Topographic map Preparation, Trench Sample analysis & BH planning.	Months																		
5	Surface Drilling (2 rigs)	months																		
6	Survey Party days	days																		
7	Geologist Man days	days																		
8	Sampler Man days	days																		
9	Camp Winding	months																		
10	Laboratory Studies	Nos.																		
11	Report Writing with Peer Review	months																		




**Estimated Cost for Preliminary Exploration (G-3) for Graphite, Vanadium, and associated minerals in Ekhataya Block, Lower Subansiri District, Arunachal Pradesh**

**Total Area - 2.1 Sq. Km; Drilling- 2300m, Drilling depth - 30m & 60m (Vertical depth), Trenching-380cu.m, Completion Time - 18 Months, Review: after 5, 10 & 15 months**

**Exploration Agency: Geo Marine Solutions Pvt. Ltd.**

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.	NER	Total Amount (Rs)	
<b>A</b>	<b>Geological Mapping Other Geological Work &amp; Surveying</b>							
	Geological mapping, (1:2,000 scale)							
i	a. Charges for Geologist per day (Field)	day	1.3	11,000	280	3.35	1,03,18,000	
ii	b. Labour Charges; Base rate	day	5.7	541	560	3.35	10,14,916	
	c. Charges for Geologist per day (HQ)	day	1.3	9,000	60		5,40,000	
	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	92	3.35	15,71,820	
	Labours Charges for sampler work(4 labourers)	day	5.7	541	368	3.35	6,66,945	
	<b>Sub Total- A</b>						<b>1,41,11,681</b>	
<b>B</b>	Resistivity profiling with twin seperation	lkm	3.6.c	300000	1.9	3.35	19,09,500	

	<b>Sub total B</b>						<b>19,09,500</b>	
<b>C</b>	<b>Survey work</b>							
a	Surveyor for topographic survey/DGPS Survey and for BH fixation & RL determination	Per Point of observation	1.6.2	19,200	32	3.35	2058240	28 BH plus 4 Boundary points
b	Charges of Surveyor (1 party) for topographic mapping in 1:2000 scale	one surveyor per day	1.6.1a	8,300	70	3.35	1946350	2.1 sq.km
c	Labours Charges for survey work(4 labourers)	day	5.7	541	280	3.35	507458	
	<b>Sub-Total C</b>						<b>45,12,048</b>	
<b>E</b>	<b>DRILLING (In-house)</b>							
	Excavation of trenches upto 2.0m depth	per cu.m	2.1.1	3330	140	3.35	1561770	Trenching: 14 trenches of 10mx1mx1m
1	Core Drilling (28BH)	m	2.2.1.3a	10,100	2,300	3.35	7,78,20,500	Core drilling(45° angle) to intersect the ore body at two levels of 30m and 60m vertical depths(60*14+105*14=2310). The depth of intersection maybe revised after establishing geological continuity of graphite bands in first few boreholes.
2	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH						As per actuals / SoC and details will be submitted during Review

3	Transportation of Drill Rig & Truck associated per drill (2 rigs)	Km	2.2.8	36		1	383976	from Manglore to Ekhatya, Arunachal Pradesh (Approx : 3600 Kms) 780 km (Siliguri to Deed) @ 780x36x3.35x2 = 188136/- 2720 Km (Siliguri to Manglore) @ 97920 x 2 = 195840/- Total = 383976/-
4	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	6	3.35	10,05,000	
5	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	2	3.35	16,75,000	
6	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	2	3.35	16,75,000	
7	Drill core Preservation	m	5.3	1,590	1,000		15,90,000	
8	Construction of concrete pillers	per BH	2.2.7a	2,000	28	3.35	1,87,600	
	<b>Sub Total E</b>						<b>8,58,98,846</b>	
<b>G</b>	<b>LABORATORY STUDIES</b>							
1	<b>Chemical Analysis</b>							
v)	<b>BH Core samples</b>							
	<b>Trench samples</b>							

	Trench samples :Primary (1m sample length) for major oxides and LOI by XRF	Nos	4.1.15a	4,200	140		5,88,000	
	+ 10 % Check Sample	nos	4.1.15a	4,200	14		58,800	
	Trench Samples: Graphite Proximate Analysis:	Nos	4.1.16	3,000	14		42,000	One composite sample from each trench
	+ 10 % Check Sample	nos	4.1.16	3,000	2		6,000	
	Core Samples: Primary (1m sample length) for major oxides and LOI by XRF	Nos	4.1.15a	4,200	460		19,32,000	1/5th of total meterage
	+ 10 % Check Sample	Nos	4.1.15a	4,200	46		1,93,200	
	Primary for set of 34 elements by ICPMS: One Composite Sample for each borehole	Nos	4.1.14	7,731	28		2,16,468	28
	+ 10 % Check Sample	Nos	4.1.14	7,731	3		23,193	3
	Core Samples: Graphite Proximate Analysis: One Composite Sample for each borehole (28)	Nos	4.1.16	3,000	28		84,000	28
	+ 10 % Check Sample	Nos	4.1.16	3,000	3		9,000	3
2	<b><u>Physical &amp; Petrological Studies</u></b>							
i	Preparation of thin section	Nos	4.3.1	2,353	10		23,530	
iii	Preparation of polished section	Nos	4.3.3	1,185	10		11,850	

ii	petrographic/ore microscopic study	Nos	4.3.4	4,232	20		84,640	
v	Digital Photographs	Nos	4.3.7	280	20		5,600	
	XRD	Nos	4.5.1	4,000	10		40,000	
	density	Nos	4.8.3	1,568	10		15,680	
	EPMA	hrs	4.4.1	8,540	20		1,70,800	
	Laser Raman Spectroscopic Study/MCT	Nos			4			As per actuals
	<b>Sub Total G</b>						<b>35,04,761</b>	
<b>H</b>	<b>Total A to H</b>						<b>10,99,36,836</b>	
<b>I</b>	<b>Geological Report Preparation</b>	<b>5 Hard copies with a soft copy</b>	<b>5.2</b>	Exploration cost exceeding 300 lakh : A Minimum of ₹9 lakh or 3% of the work whichever is more subject to a maximum amount of ₹ 20 Lakh.			<b>20,00,000</b>	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
<b>J</b>	<b>Peer review Charges</b>		<b>As per EC decision</b>				<b>30,000</b>	

<b>K</b>	<b>Preparation of Exploration Proposal (5 Hard copies with a soft copy)</b>	<b>5 Hard copies with a soft copy</b>	<b>5.1</b>	2% of the Cost or Rs. 5.0 Lakhs whichever is less		<b>5,00,000</b>	EA will be reimbursed after submission of the Hard Copies and the soft copy of the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal.
<b>L</b>	<b>Total Estimated Cost without GST</b>					<b>11,24,66,836</b>	
<b>M</b>	<b>Provision for GST (18% of J)</b>					<b>2,02,44,030</b>	GST will be reimburse as per actual and as per notified prescribed rate
<b>N</b>	<b>Total Estimated Cost with GST</b>					<b>13,27,10,866</b>	
				<b>or Say Rs. In Lakhs</b>		<b>1,327.11</b>	
<b>Note:</b>							
<b>1</b>	<b>Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.</b>						
<b>2</b>	<b>In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.</b>						
<b>3</b>	<b>If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.</b>						
<b>4</b>	<b>Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.</b>						
<b>5</b>	<b>Any item of work not mentioned above shall be added as per SoC.</b>						
<b>6</b>	<b>All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.</b>						

**Time Schedule/ Action Plan for Preliminary Exploration (G-3) for Graphite, Vanadium, and associated minerals in Ekhataya Block, Lower Subansiri District, Arunachal Pradesh**

Table-VII.C

S. No.			1	2	3	4	5		6	7	8	9	10		11	12	13	14	15		16	17	18			
1	Camp Setting/Mobilization	Months						Review						Review						Review						
2	Geological Mapping & Sampling	days																								
3	Trenching																									
4	Geological and Topographic map Preparation, Trench Sample analysis & BH planning.	Months																								
5	Surface Drilling (2 rigs)	months																								
6	Survey Party days	days																								
7	Geologist Man days	days																								
8	Sampler Man days	days																								
9	Camp Winding	months																								
10	Laboratory Studies	Nos.																								
11	Report Writing with Peer Review	months																								

**Revised Cost for Preliminary (G-3) Level Exploration of Tungsten and Tin Ore in Murara- Devendrapura Block, District-Niwari, Madhya Pradesh**  
**Total Area - 4.16 Sq. Km; Drilling-11 boreholes, Completion Time - 18 Months**  
**Exploration Agency: Mineral Exploration and Consultancy Limited (MECL)**

Sl. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Total Cost of the Project		Revised Total Cost of the Project		Remarks
			SoC-Item- S. No.	Rates as per SoC	Qty.	Total Amount (Rs)	Qty.	Total Amount (Rs)	
<b>1.0</b>	<b>Geology &amp; Survey</b>								
1.1	Geologist (Field) man days for core logging/mapping/ Sampling/topographic survey	days	1.3	11,000	180	19,80,000	180	19,80,000	
1.2	Unskilled Labour (Field) (2 workers per geologist)	per worker	5.7	522	360	1,87,920	360	1,87,920	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
1.3	Survey Party Days for topographic survey	days	1.6.1a	8300	40	3,32,000	40	3,32,000	
1.4	Unskilled Labour (Survey) (4 workers per Surveyor)	Days	5.7	522	160	83,520	160	83,520	Amount will be reimburse as per the notified rates by the Central Labour

									Commissioner or respective State Govt. whichever is higher
1.5	Sampling man days - Sampler (core sample.) Labour charge not included	day	1.5.2	5,100	81	4,13,100	81	4,13,100	
1.6	4 labours/ party (Rs 431/day/labour) (As per rates of Central Labour Commissioner) for sampling work	day	5.7	522	324	1,69,128	324	1,69,128	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
1.7	Determination of co-ordinates and Reduced Level (RL) of boreholes by DGPS including boundary corner points.	Nos.	1.6.2	19200	19	3,64,800	19	3,64,800	Boreholes 11 Nos. + Block Boundary 08 Nos.
<b>Sub-Total 1</b>						<b>35,30,468</b>		<b>35,30,468</b>	
<b>2.0</b>	<b>Excavation</b>								
2.1	Pitting/Trenching (upto 2m)	Cu.m	2.1.1	3,330	180	5,99,400	180	5,99,400	
<b>Sub-Total 2</b>						<b>5,99,400</b>		<b>5,99,400</b>	
<b>3.0</b>	<b>Drilling (Outsourced)</b>								
3.1	Drilling -Very hard rock (up to 300m)	m	2.2.1.5a	12,650	1250	1,58,12,500	1,250	1,58,12,500	Drilling outsource

3.2	Land / Crop Compensation (in case the BH falls in agrecultural Land)	per BH	5.6	20,000	11	2,20,000	-		As per actual
3.3	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	11	22,000	-		
3.4	Transportation of Drill Rig & Truck associated per drill (for 2 rig)	Km	2.2.8	36	3200	1,15,200	-		1600 Km to and fro for one rig
3.5	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	4	2,00,000	-		
3.6	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	2	5,00,000	-		
3.7	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	2	5,00,000	-		
3.8	Road Making (Rugged- Hilly Terrain)	Km	2.2.10b	32,200	5	1,61,000	-		
3.11	Drill Core Preservation	per m	5.3	1,590	650	10,33,500	650	10,33,500	
<b>Sub-Total 2</b>						<b>1,85,64,200</b>		<b>1,68,46,000</b>	
<b>4.0</b>	<b>Laboratory Studies</b>								
4.1	Primary + Check Sample - 5 radicals viz. (Sn, W, Cu, Pb & Zn) by AAS method	per sample	4.1.7a	2,506	649	16,26,394	649	16,26,394	Borehole samples- 500, Trench samples- 90, check samples- 59
4.2	Preparation of thin section	per sample	4.3.1	2,353	10	23,530	10	23,530	
4.3	Complete petrographic study report	per sample	4.3.4	4,232	10	42,320	10	42,320	
4.4	Preparation of polish section	per sample	4.3.2	1,549	10	15,490	10	15,490	

4.5	Complete mineragraphic study report	per sample	4.3.4	4,232	10	42,320	10	42,320	
4.6	XRD	per sample	4.5.1	4,000	20	80,000	20	80,000	
4.7	Specific gravity of rock	per sample	4.8.1	1,605	5	8,025	5	8,025	
<b>Sub-Total 3</b>						<b>18,38,079</b>		<b>18,38,079</b>	
5.0	<b>Geologist man days (1 No.) for geological map &amp; Report (HQ)</b>	days	1.2	9,000	40	<b>3,60,000</b>	<b>40</b>	<b>3,60,000</b>	
<b>Total (1.0 to 5.0)</b>						<b>2,48,92,147</b>		<b>2,31,73,947</b>	
3.9	Tendering process cost	One time	2.3	2% of the approved project cost or 5 lakh whichever is lower will be paid one time to Exploration Agency		-	-	3,16,250	
3.1	Operational Charges	One time	6.(iii)	<i>(iii) In case of total outsourced cost more than ₹1 crore: Cost for outsourced component(s) of project work will be reimbursed as per actuals. In addition, ₹8.75 lakh plus 5 percent on the balance amount of outsourced cost in excess of ₹1 crore will be paid to Exploration Agency towards operational charges. The maximum</i>		-	-	11,65,625	

				<i>ceiling of operational charges is ₹15 lakh. The operational charges will be calculated on the cost of total outsourced component or certified actual payment made by the Exploration Agency, whichever is lower.</i>					
5.0	<b>Preparation of Exploration Proposal</b>	Nos	5.1	2% of the cost or Rs. 5.0 lakh - whichever is lower	1	<b>4,97,843</b>		<b>4,63,479</b>	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.
6.0	<b>Geological Report Preparation</b>	Nos	5.2	For the projects having cost exceeding Rs. 150 Lakhs but less than Rs. 300 Lakhs: A Minimum of Rs.7.5 lakhs or 3% of the value of work whichever is more and Rs. 3000/- per each	1	<b>7,50,000.00</b>		<b>7,50,000.00</b>	EA has to submit the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.

				additional copy.					
7.0	Report Peer Review Charges	lumpsum	As per EC decision		1	30,000		30,000	
Total Estimated Cost without GST						2,61,69,990		2,58,99,301	
Provision for GST ( 18%)						47,10,598		46,61,874	GST will be reimburse as per actual and as per notified prescribed rate
Total Estimated Cost with GST						3,08,80,588		3,05,61,175	
Say Rs. in Lakhs						308.81		305.61	<b>Change in amount : ₹-3,19,413/- (Reduced)</b>

**Note**

**1. 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.**

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.

W. J. J. J.

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Revised cost for Reconnaissance Survey (G4) for Graphite in Korapara, Bankura, West Bengal Total area: 16.25 sq km, Period of Completion: 10months, No. of Bh:5 Review: after 5 months

Exploration Agency: Maheshwari Mining Pvt Ltd

Sl. Nos.	Item of work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Revised Cost		Remark
			SoC-Item-SI No	Quantity	Rates as per SoC	Total	Revised Quantity	Total	
1	<b>Geological Mapping (on 1:12,500) (16 sq km)</b>								
	(a) Charges for Geologist in field (without labourer)	per day per Geologist	1.2. b	120	11,000	1320000	120	1320000	
	(b) Charges for Geologist at Headquarters	per day per Geologist	1.2. a	60	9,000	540000	60	540000	
	(c) Wages for 2 labourers for geologist	per day		240	526	126240	240	126240	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
2	<b>Land/Crop compensation</b>	per borehole	5.6	5	20000	100000	5	100000	
3	<b>Geochemical sampling (Bedrock sampling)</b>	150nos (BRS:50 & PT:100)					183 nos (BRS:50 & PT:133)	0	
4	<b>Geophysical survey (SP survey 5 L.km)</b>	5 L.km						0	
	(a) Charges for 1 Geophysicist in	per day	3.18b	0	11000	0	0	0	

	field (without labourer)								
	(b) Charges for 1 Geophysicist at Headquarters	per day	3.18a	30	9000	270000	30	270000	
	(c) Wages for 4 labourers in field with geophysicist	per day	5.7	0	504	0	0	0	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	(d) Charge for Gravity survey	per station	3.1a.i	0	3800	0	0	0	
	(e) Charge for Magnetic survey	per station	3.2a.i	0	1800	0	0	0	
	(f) Charge for SP survey	per L.km	3.3a	5	29600	148000	5	148000	
5	<b>Survey work</b>							0	
	(a) Surveyor Charges (without labourer)	per day	1.6.1a	0	8300	0	0	0	
	(b) Labour(4nos) charges for survey work	per day	5.7	0	504	0	0	0	
6	<b>Technological Survey</b>							0	
	(a) Pitting (Where BRS are not available)	per cu m	2.1.2	50	3800	190000	0	0	
	(a) Trenching	per cu m	2.1.1	100	3330	333000	150	499500	
	(b) Drilling	per m in soft rock	2.2.1.4a	300	11500	3450000	450	5175000	
	(c) Borehole pillaring (construction of concrete pillar) 12 inches x12 inches x 30 inches	per borehole	2.2.7a	5	2000	10000	7	14000	

	(d) Transportation of Drill Rig and truck(to and from Headquarter s or Previous drill site)	per km	2.2.8	900	36	32400	900	32400	
	(e) Drilling camp setting cost	per drill	2.2.9a	1	250000	250000	1	250000	
	(f) Drilling camp winding cost	per drill	2.2.9a	1	250000	250000	1	250000	
	(g) Monthly accommodation charges for drilling camp	per month	2.2.9	2	50000	100000	2	100000	
	(h) Approach road making to drill site (as per actual)	per km	2.2.10a	5	22020	110100	5	110100	
	l) DGPS Survey for BH fixation & RL determination	Per Point of observation	1.6.2	-	19,200	-	7	134400	
7	<b>Laboratory Studies</b>							0	
	(a) Proximate analysis for graphite (BRS: 50; PT: 133; BH Core: 200)	per sample	4.1.16	250	3000	750000	383	1149000	revised sample break up (BRS: 50; PT: 133; BH Core: 200)
	(a) Proximate analysis for graphite 10% external check	per sample	4.1.16	25	3000	75000	38	114000	
	(b) Analysis for associated trace element (Vanadium)					0		0	
	(c) Analysis for associated REE+	per sample	4.1.13	150	5380	807000	150	807000	

	Vanadium (ICPMS 14 elements)								
	(d) Petrochemical studies (PCS)	per sample	4.1.15a	10	4200	42000	10	42000	
8	<b>Petrographic studies</b>							0	
	(a) Preparation of thin sections	per sample	4.3.1	10	2353	23530	10	23530	
	(b) Study of thin sections	per sample	4.3.4	10	4232	42320	10	42320	
	Whole Rock Analysis by XRF	per sample	4.1.15a	10	4200	42000	10	42000	
	Sampler		1.5.2	45	5100	229500	45	229500	
	Labour		5.7	180	526	94680	180	94680	
9	<b>Bulk Density/specific gravity Determination</b>	per sample	4.8.1	5	1605	8025	5	8025	
10	<b>Drill core preservation (1 bh+ mineralised zone : as per actual)</b>	per m	5.3	200	1590	318000	300	477000	
	<b>Total</b>					9661795		<b>12098695</b>	
11	<b>Geological Report preparation (5 hard copies with a soft copy)</b>	cost per 5 hard copies along with soft copy	5.2		As the exploration cost is exceeding 50 lakhs but less than 150 lakhs.	483090		604935	
12	<b>Peer Review</b>	lumpsum	as per EC decision	1	30000	30000	1	30000	

13	<b>Preparation of exploration proposal (5 hard copies with a soft copy)</b>	one number (5 hard copies) along with soft copies	5.1	1	2% of approved project cost or 5lakh, whichever is lower	193236	1	241974	
Grand Total of estimated cost:						₹ 1,03,68,120.65		₹ 1,29,75,603.65	The revised Cost is estimated to be 25.15%
GST 18%						₹ 18,66,261.72		₹ 23,35,608.66	
Grand Total including 18%GST						₹ 1,22,34,382.37		₹ 1,53,11,212.31	
<b>Total</b>								₹ 153.11	<b>Change in amount : ₹ 30,76,829.94/- (Additional cost)</b>
<b>Note:</b>									
1	<b>Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.</b>								
2	<b>In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.</b>								
3	<b>If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.</b>								
4	<b>Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.</b>								
5	<b>Any item of work not mentioned above shall be added as per SoC.</b>								
6	<b>All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.</b>								

**Revised cost for Reconnaissance Survey (G4) for Glauconite and associated mineralization in and around Dhamni, Piparwasi, Simliya area,  
Sheopur District, Madhya Pradesh**

**Total area: 116 sq km, Period of Completion: 12 months BH: 5 nos., 150m , review: after 5 months**

**Exploration Agency: Maheshwari Mining Pvt Ltd**

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Original Estimated Cost of the Proposal		Revised Estimated Cost of the Proposal		Remarks
			SoC-Item No.*	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs)(a*b)	Qty. (b)	Total Amount (Rs)(a*b)	
<b>A</b>	<b>Geological Mapping Other Geological Work &amp; Surveying</b>								
	Geological mapping, (1:12,500 scale) & Trenching , drilling work								
i	a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.2. b	11,000	150	1650000.00	150	1650000.00	1:12,500 scale mapping of 116 sq km Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
ii	b. Labours Charges; Base rate	day	5.7	522	240	125280.00	300	156600.00	Amount will be reimburse as per

									the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	c. Charges for Geologist per day (HQ)	day	1.2. a	9,000	40	360000.00	40	360000.00	
	<b>Sub Total- A</b>					<b>2135280.00</b>		<b>2166600.00</b>	
<b>B</b>	<b>Survey work</b>								
a	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.6.2	19,200	5	96000.00	5	96000.00	
b	Labours Charges for survey work;	day	5.7	522	-		-	0.00	4 labours per day
	<b>Sub-Total B</b>					<b>96000.00</b>		<b>96000.00</b>	
<b>C</b>	<b>Trenching/Pitting</b>							0.00	
	a) Pitting (up to 2 m)	per cu.m	2.1.2	3,800	50	190000.00	50	190000.00	
	<b>Sub Total C</b>					<b>190000.00</b>		<b>190000.00</b>	
<b>D</b>	<b>DRILLING (after review)- In - house</b>							0.00	
1	Drilling up to 150 m (Hard rock)	m	2.2.1.4a	11,500	150	1725000.00	<b>63</b>	724500.00	
2	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	5	100000.00	<b>2</b>	40000.00	As per actuals
3	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	5	10000.00	<b>2</b>	4000.00	
4	Transportation of Drill Rig & Truck associated per drill (1 rig)	Km	2.2.8	36	2,400	86400.00	2,400	86400.00	Raniganj to Sheopur and fro
5	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	2	100000.00	2	100000.00	
6	Drilling Camp Setting Cost	Nos	2.2.9a	250000.00	1.00	250000.00	1.00	250000.00	

7	Drilling Camp Winding up Cost	Nos	2.2.9a	250000.00	1.00	250000.00	1.00	250000.00	
8	Road Making (Flat Terrain)	Km	2.2.10a	22,020	5	110100.00	5	110100.00	As per actuals
9	Drill Core Preservation	per m	5.3	1,590	100	159000.00	<b>50</b>	79500.00	
10a	Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5100	62	316200.00	62	316200.00	
10b	Labours (4 Nos)	day	5.7	522	248	129456.00	248	129456.00	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
	<b>Sub Total D</b>					<b>3236156.00</b>		<b>2090156.00</b>	
<b>E</b>	<b>LABORATORY STUDIES</b>								
1	<b>Chemical Analysis</b>								
	<b>Geochemical Sampling-Surface samples (Bedrock/Channel /Soil/Stream sediment)</b>								
i)									
	a. Analysis of major oxides and trace samples by XRF	Nos	4.1.15a	4,200	150	630000.00	150	630000.00	
	b. Trace elements -ICPMS		4.1.14	7,731	75	579825.00	75	579825.00	
ii)	<b>Surface Check samples (10% External)</b>							0.00	
	a. Analysis of major oxides samples by XRF	Nos	4.1.15a	4,200	15	63000.00	15	63000.00	
	b. Trace elements -ICPMS		4.1.14	7,731	7	54117.00	7	54117.00	
iii)	<b>Trench &amp; Check Samples from Trench</b>							0.00	

	a. Analysis of major oxides samples by XRF	Nos	4.1.15a	4,200	50	210000.00	50	210000.00		
	<b>Trench samples</b>							0.00		
iv)	<b>Trench Check samples (10% External)</b>							0.00		
	a. Analysis of major oxides samples by XRF	Nos	4.1.15a	4,200	5	21000.00	5	21000.00		
v)	<b>BH Core samples</b>							0.00		
	a. Analysis of major oxides samples by XRF	Nos	4.1.15a	4,200	100	420000.00	<b>53</b>	222600.00		
	b. Trace elements -ICPMS		4.1.14	7,731	75	579825.00	<b>36</b>	278316.00		
vi)	<b>BH Core samples (10%External)</b>							0.00		
	a. Analysis of major oxides samples by XRF	Nos	4.1.15a	4,200	10	42000.00	<b>5</b>	21000.00		
	b. Trace elements -ICPMS		4.1.14	7,731	7	54117.00	<b>3</b>	23193.00		
2	<b><u>Physical &amp; Petrological Studies</u></b>							0.00		
i	Preparation of thin section	Nos	4.3.1	2,353	10	23530.00	10	23530.00		
ii	Study of thin section	Nos	4.3.4	4,232	10	42320.00	10	42320.00		
iii	Preparation of polish section	Nos						0.00		
iv	study of polished section	Nos						0.00		
v	Digital Photographs	Nos	4.3.7	280	10	2800.00	10	2800.00		
vi	<b>Modal analysis of thin section</b>	<b>Nos</b>	<b>4.3.8</b>	<b>3,780</b>	<b>0</b>	<b>0.00</b>	<b>3</b>	11340.00		
vii	Bulk density analysis	Nos	4.8.1	1,605	3	4815.00	3	4815.00		
viii	SEM Studies	per hour						0.00		
ix	EPMA studies	per hour								
	<b>Total E</b>							<b>2727349.00</b>		<b>2187856.00</b>
F	<b>Mineral Physics Studies</b>		<b>4.5</b>							

	XRD analysis for identification of minerals (Random)	Per Sample	4.5.1	4,000	0	0.00	3	12000.00	
	Total F							12000.00	
G	Total A to F					8384785.00		6742612.00	
H	Geological Report Preparation	5 Hard copies with a soft copy	5.2	ii		419239.25		337130.60	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	1	30000.00	1	30000.00	
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. 5.0 Lakhs whichever is less		167695.70		134852.24	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					9001720.00		7244594.84	GST will be reimburse as per actual and as per

								notified prescribed rate
<b>L</b>	<b>Provision for GST (18% of K)</b>				<b>1620310.00</b>		<b>1304027.07</b>	
<b>M</b>	<b>Total Estimated Cost with GST</b>				<b>10622030.00</b>		<b>8548621.91</b>	
				<b>Rs. In Lakhs</b>	<b>106.22</b>		<b>85.49</b>	<b>Change in the amount : ₹ - 2073408.09 (Reduced)</b>
<b>Note:</b>								
<b>1</b>	<b>Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.</b>							
<b>2</b>	<b>In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.</b>							
<b>3</b>	<b>If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.</b>							
<b>4</b>	<b>Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.</b>							
<b>5</b>	<b>Any item of work not mentioned above shall be added as per SoC.</b>							
<b>6</b>	<b>All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.</b>							

**Revised cost for Reconnaissance Survey (G-4) for PGE, Vanadium and associated minerals in Bhursadongri- Murum Block, Balaghat District, MP.  
Total block area- 100sq km; Completion Time- 6 Months**

**Exploration Agency: Gemcokati Pvt. Ltd.**

SI no.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal	Total Amount (Rs)	Total Amount (Rs)	Remarks
			SoC-Item SI No.	Rates as per SoC	Qty.	APPROVED COST SHEET	REVISED	
<b>1</b>	<b>Large scale (LSM) Geological mapping/Trenching.</b>							
1.1	Geologist man days (1 No) for Large scale (LSM) Geological mapping/Trenching	days	1.2b	11,000	120	13,20,000	13,20,000	
1.2	Geologist man days (1 No) for Geological mapping & Report (HQ)	days	1.2a	9,000	30	2,70,000	2,70,000	
1.3	Labour (field) for (Total 4 Nos i.e. 2 workers per one geologist)	per worker	5.7	504	240	1,20,960	1,20,960	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
1.4	Charges for one sampler per day(1 party)	one sampler per day	1.5.2	5100	30	1,53,000	1,53,000	
1.5	Labours (4 nos)	day		504	120	60,480	60,480	
	<b>Sub-Total (1)</b>					<b>19,24,440</b>	<b>19,24,440</b>	
<b>2</b>	<b>Trenching (PT)</b>							
2.1	Trenching	cu.m.	2.1.1	3330	150	4,99,500	4,99,500	

2.2	Pitting	cu.m.	2.1.2	3800	20	76,000	76,000	
	<b>Sub-Total (2)</b>					<b>5,75,500</b>	<b>5,75,500</b>	
<b>3</b>	<b>Laboratory Studies</b>							
<b>A</b>	<b>CHEMICAL ANALYSIS</b>							
	<b>Geochemical sampling-surface samples (bed rock/channel/soil/stream sediment)</b>							
3.1	Au by Fire Assay	Nos	4.1.5a	2380	10	23,800	23,800	
3.2	Major Oxides by XRF (including laterite analysis for Vanadium)	Nos	4.1.15a	4200	50	2,10,000	2,10,000	
3.3	For PGE by fire assay	Nos	4.1.5d	11,800	20	2,36,000	2,36,000	
*	<b>REE+ traces by ICP in Spinel bearing PGE anomaly zone</b>							
	<b>Surface check samples (10% external)</b>							
3.3	Au by Fire Assay	Nos	4.1.5a	2380	1	2,380	2,380	
3.4	Major Oxides by XRF (including laterite analysis for Vanadium)	Nos	4.1.15a	4200	5	21,000	21,000	
3.5	For PGE by fire assay	Nos	4.1.5d	11,800	2	23,600	23,600	
	<b>Trench and Check samples from Trench</b>							
	<b>Trench/Pit samples</b>							
3.6	Major Oxides by XRF (including laterite analysis for Vanadium)	Nos	4.1.15a	4200	20	84,000	84,000	
3.7	For PGE by fire assay	Nos	4.1.5d	11,800	75	8,85,000	8,85,000	
3.8	REE+ traces by ICP in Spinel bearing PGE anomaly zone	per sample	4.1.14	7,731	20	1,54,620	1,54,620	
	<b>Trench Check samples (10% external)</b>							
3.9	Major Oxides by XRF (including laterite analysis for Vanadium)	Nos	4.1.15a	4200	20	84,000	84,000	

3.1	For PGE by fire assay	Nos	4.1.5d	11,800	15	1,77,000	1,77,000	
3.11	REE by ICP in Spinel bearing PGE anomaly zone	per sample	4.1.13	5,380	3	16,140	16,140	
<b>B</b>	<b>PHYSICAL &amp; PETROLOGICAL STUDIES</b>							
3.12	Preparation of thin section	Nos	4.3.1	2,353	20	47,060	47,060	
3.13	Study of thin section	Nos	4.3.4	4,232	20	84,640	84,640	
3.14	Preparation of polished section	Nos	4.3.2	1,549	20	30,980	30,980	
3.15	Study of Polished section	Nos	4.3.4	4,232	20	84,640	84,640	
3.16	Digital Photographs	Nos	4.3.7	280	40	11,200	11,200	
3.17	EPMA studies	Per hour	4.4.1	8,540	0	1,28,100	0	<i>Item dropped in 11th TCC-II meeting</i>
3.18	XRD Studies	Nos	4.5.1	4,000		-		
	<b>Sub-Total 3</b>					<b>23,04,160</b>	<b>21,76,060</b>	
	<b>Total (1 to 3)</b>					<b>48,04,100</b>	<b>46,76,000</b>	
<b>4</b>	<b>Geological Report Preparation</b>	<b>Rs.1.5 or 5% whichever is more</b>	<b>5.2</b>	<b>i</b>	<b>1</b>	<b>2,40,205</b>	<b>2,33,800</b>	
<b>5</b>	<b>Preparation of Exploration Proposal</b>	<b>5 hard copies with a soft copy</b>	<b>5.1</b>	<b>2% of the cost or rs 5 lakh which is less</b>		<b>96,082</b>	<b>93,520</b>	
<b>6</b>	<b>Peer Review Charges</b>		<b>As per EC decision</b>	<b>30000</b>	<b>1</b>	<b>30,000</b>	<b>30,000</b>	
<b>7</b>	<b>Total Estimated Cost without GST</b>					<b>51,70,387</b>	<b>50,33,320</b>	
<b>8</b>	<b>Provision for GST (18%)</b>					<b>9,30,670</b>	<b>9,05,998</b>	
<b>9</b>	<b>Total Estimated Cost with GST</b>					<b>61,01,057</b>	<b>59,39,318</b>	

					Say, in Lakhs	61.01	59.39	<b>Change in amount: ₹ - 161739/- (Reduced amount)</b>
Note:								
1	<b>Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.</b>							
2	<b>In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.</b>							
3	<b>If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.</b>							
4	<b>Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.</b>							
5	<b>Any item of work not mentioned above shall be added as per SoC.</b>							
6	<b>All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.</b>							




**Revised Cost for Preliminary Exploration (G3 Stage) for Potash and Associated Minerals in Pitupura Block, Karauli District, Rajasthan  
Area 12.80 sq. km, Scale: 1: 5000, No.of BH: 10, Borehole depth range- 85 m in phase 1 and 125m in phase 2 , Schedule timeline-18 months  
Review: After 9 Months**

**Exploration Agency: GeoExpOre Pvt. Ltd**

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Approved Cost of the Proposal - 38th EC meeting		Revised Cost of the Proposal after 11th TCC-II		Remarks	
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	Qty. (b)	Total Amount (Rs) (a*b)		
<b>A</b>	<b>Geological Mapping Other Geological Work &amp; Surveying</b>									
	<b>Geological mapping, (1:5000 scale) &amp; Trenching , drilling work</b>									
i	a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.3	11,000	100	11,00,000	100	11,00,000		
ii	b. Labours Charges; Base rate	day	5.7	522	200	1,04,400	200	1,04,400		
	c. Charges for Geologist per day (HQ)	day	1.3	9,000	30	2,70,000	30	2,70,000		
	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	48	2,44,800	48	2,44,800		
	e. Labours (4 Nos)	day	5.7	522	192	1,00,224	192	1,00,224		
	<b>Sub Total- A</b>						<b>18,19,424</b>		<b>18,19,424</b>	

<b>B</b>	<b>Survey work</b>								
a	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.6.2	19,200	10	192000	10	1,92,000	
b	Charges of Surveyor (1 party) for Geophysical survey layout work & Block boundary demarcation	one surveyor per day	1.6.1(a)	8,300	30	249000	30	2,49,000	
c	Labours Charges for survey work;	day	5.7	522	120	62640	120	62,640	
	<b>Sub-Total B</b>					<b>5,03,640</b>		<b>5,03,640</b>	
<b>C</b>	<b>Trenching/Pitting</b>								
	a) Excavation of Trenches (5 nos)	per cu.m	2.1.1	3,330	100	333000			
	b) Excavation of Pits (upto 2 m depth)	per cu.m	2.1.2	3,800			40	1,52,000	
	<b>Sub Total C</b>					<b>3,33,000</b>		<b>1,52,000</b>	
<b>D</b>	<b>DRILLING (after review)</b>								
1	Drilling up to 300m (Medium Hard Rock)	m	2.2.1. (3a)	10,100	930	93,93,000	930	93,93,000	
2	Borehole deviation Survey by Multishot Camera	m						-	
3	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	4	80,000	4	80,000	
4	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	10	20,000	10	20,000	
5	Transportation of Drill Rig & Truck associated per drill (2 rigs)	Km	2.2.8	36	4,000	1,40,000	4,000	1,44,000	
6	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	per month	2.2.9	50,000	2	1,00,000	2	1,00,000	
7	Drilling Camp Setting Cost	per project	2.2.9a	2,50,000	1	2,50,000	1	2,50,000	

8	Drilling Camp Winding up Cost	per project	2.2.9b	2,50,000	1	2,50,000	1	2,50,000	
9	Road Making (Flat Terrain)	Km	2.2.10a	22,020	18	3,96,360	18	3,96,360	
10	Drill Core Preservation	per meter	5.3	1,590	300	4,77,000	300	4,77,000	
	<b>Sub Total D</b>					<b>1,11,06,360</b>		<b>1,11,10,360</b>	
<b>E</b>	<b>LABORATORY STUDIES</b>								
1	<b>Chemical Analysis</b>								
i)	<b>Geochemical Sampling-Surface samples (Bedrock/Channel /Soil/Stream sediment)</b>								
	BRS/Channel/Soil - Major Oxides ( K <sub>2</sub> O, Na <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , Fe <sub>2</sub> O <sub>3</sub> , MnO, MgO, CaO, TiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> )	Per sample	4.1.15a	4,200	100	4,20,000	100	4,20,000	
ii)	<b>Surface Check samples (10% External)</b>					-		-	
	Major Oxides	Per sample	4.1.15a	4,200	10	42,000	10	42,000	
iii)	<b>Trench &amp; Check Samples from Trench</b>					-		-	
	<b>Pitting samples</b>					-		-	
	Major Oxides	Per sample	4.1.15a	4,200	50	2,10,000	40	1,68,000	Sample analysis reduced to 40 due to 40 pitting
iv)	<b>Trench Check samples (10% External)</b>					-		-	

	Major Oxides	Per sample	4.1.15a	4,200	5	21,000	4	16,800	
v)	<b>BH Core samples</b>					-		-	
	Major Oxides	Per sample	4.1.15a	4,200	200	8,40,000	200	8,40,000	
vi)	<b>BH Core samples (10%External)</b>							-	
	Major Oxides	Per sample	4.1.15a	4,200	20	84,000	20	84,000	
2	<b><u>Physical &amp; Petrological Studies</u></b>							-	
i	Preparation of thin section	per sample	4.3.1	2,353	15	35,295	15	35,295	
ii	Study of thin section	per sample	4.3.4	4,232	15	63,480	15	63,480	
iii	Preparation of polish section	per sample	4.3.2	1,549	15	23,235	15	23,235	
iv	study of polished section	per sample	4.3.4	4,232	15	63,480	15	63,480	
v	Digital Photographs	Nos						-	
vii	Bulk Density	Nos	4.10	3,540	18	63,720	18	63,720	
vii	XRD Samples	per sample	4.5.1	4,000	5	20,000	5	20,000	
	<b>Sub Total E</b>					<b>18,86,210</b>		<b>18,40,010</b>	

<b>F</b>	<b>Total A to E</b>					<b>1,56,48,634</b>	<b>-</b>	<b>1,54,25,434</b>	
<b>G</b>	<b>Geological Report Preparation</b>	<b>5 Hard copies with a soft copy</b>	<b>5.2</b>	<b>5.2 (i/ii/iii/iv)</b>		<b>4,69,459</b>	<b>-</b>	<b>7,50,000</b>	iii) Reconnaissance Survey/ Preliminary exploration/General exploration/Detailed exploration exceeding ₹150 lakh but less than 300 lakh: A Minimum of ₹7.5 lakh or 3% of the work whichever is more and ₹3000/- per each additional copy.
<b>H</b>	<b>Peer review Charges</b>		<b>As per EC decision</b>	30,000	<b>1</b>	<b>30,000</b>	<b>1</b>	<b>30,000</b>	
<b>I</b>	<b>Preparation of Exploration Proposal (5 Hard copies with a soft copy)</b>	<b>5 Hard copies with a soft copy</b>	<b>5.1</b>	2% of the Cost or Rs. 5 Lakhs whichever is less		<b>3,80,000</b>		<b>3,08,509</b>	
<b>J</b>	<b>Total Estimated Cost without GST</b>					<b>1,65,28,093</b>		<b>1,65,13,943</b>	
<b>K</b>	<b>Provision for GST (18% of J)</b>					<b>29,75,057</b>	<b>-</b>	<b>29,72,510</b>	
<b>L</b>	<b>Total Estimated Cost with GST</b>					<b>1,95,03,150</b>	<b>-</b>	<b>1,94,86,452</b>	<b>16,697</b>
	or Say in Lakhs: 195.03						or Say in Lakhs:194.86		<b>Change in the cost : ₹ - 16697/- (Less)</b>
<b>Note:</b>									
<b>1</b>	<b>Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.</b>								

2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.
5	Any item of work not mentioned above shall be added as per SoC.
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.



**Timeline Extension for Ongoing Projects Approved / Recommended in the 11<sup>th</sup> Meeting of TCC-II**

<b>Annexure 16</b>								
S. No.	Block/Project	Agency	Scheduled date of completion	Timeline Extension		Approval / Recommendation in 11 <sup>th</sup> TCC-II		
				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.	DGM Arunachal Pradesh	02.04.2024	31.03.2025	11 <sup>TH</sup> TCC-II	30.09.2025 (6 month)	Recommended to EC	For Completion of procurement project.
2.	Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/ instruments etc. aimed at enhancing the exploration activities.	DMR Meghalaya	06.12.2024	30.03.2025, 30.06.2025	11 <sup>TH</sup> TCC-II	31 .10. 2025 (4 months)	Recommended to EC	For Completion of procurement project.
3.	Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/ instruments etc. aimed at enhancing the exploration activities.	DGM Jammu & Kashmir	30.05.2024	31.05.2025, 30.06.2025	11 <sup>TH</sup> TCC-II	31 .10. 2025(4 months)	Recommended to EC	For Completion of procurement project.
4.	Preliminary Exploration (G3) of Ion-Adsorption Clay and Laterite Hosted Supergene Enriched REE Deposits in Sung Valley Block, East Khasi Hills, Meghalaya.	DMR Meghalaya	11.03.2025	08.06.2025	11 <sup>TH</sup> TCC-II	09.11. 2025 (5 months)	Recommended to EC	For GR submission

5.	Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities	DGM Uttar Pradesh	02.04.2024	31.03.2025	11 <sup>TH</sup> TCC-II	31.12.2025 (9 months)	Recommended to EC	For Completion of procurement project.
6.	Preliminary Exploration (G-3 Level) for copper and associated minerals in Sitapur Block (3.5 sq. km), Balaghat District, Madhya Pradesh.	MECL	11.12.2024	11.06.2025	11 <sup>TH</sup> TCC-II	30th September 2025 (3.5 months)	Recommended to EC	For GR submission
7.	Preliminary Exploration (G-3 Level) for Iron and Bauxite ore in Amoch-Chhapra Block (4.86 sq. km), Jabalpur & Katni Districts, Madhya Pradesh.	MECL	28.06.2025	---	11 <sup>TH</sup> TCC-II	31st December 2025 (06 months)	Recommended to EC	For GR submission
8.	Reconnaissance Survey (G4) for Glauconite in Mudhan Khatiya Block (129.00 sq. km), Kachchh District, Gujarat.	MECL	21.08.2025	---	11 <sup>TH</sup> TCC-II	28.02.2026 (06 months)	Recommended to EC	For GR submission
9.	Preliminary Exploration (G-3 Level) for Copper, Lead, Zinc and Associated metals in Salaiya Phatak Block (1.50 sq. km), Katni District, Madhya Pradesh.	MECL	28.08.2025	---	11 <sup>TH</sup> TCC-II	30.11. 2025 (03 months)	11 <sup>th</sup> TCC-II committee approved	For GR submission
10.	Reconnaissance Survey (G4) for Copper bearing minerals around Musabani, Dumriya,	NRD-TATA	29.08.2025	---	11 <sup>TH</sup> TCC-II	28.02.2026 (04 months)	Recommended to EC	For GR submission

	Maheshpur area in East Singhbhum District, Jharkhand.							
11.	Reconnaissance (G4) survey for Limestone in Dillai area, Karbi Anglong districts, Assam.	DGM Assam	09.06.2025	---	11 <sup>TH</sup> TCC-II	28.02.2026 (08 months)	Recommended to EC	For GR submission
12.	Reconnaissance survey (G4) for limestone in Longplaidisa area (25 sq.km.), Dima Hasao district, Assam	DGM Assam	29.07.2025	---	11 <sup>TH</sup> TCC-II	31.03.2026 (07 months)	Recommended to EC	For GR submission
13.	Reconnaissance survey (G4) for limestone in Dikurumetron area (20 sq.km.), Upper Deopani of Karbi Anglong district, Assam.	DGM Assam	28.08.2025	---	11 <sup>TH</sup> TCC-II	31.03.2026 (07 months)	Recommended to EC	For GR submission
14.	Preliminary Exploration (G3) in Jhalauthar Phosphorite Block for Rock Phosphate, Bada Malehra Taluka, Chhatarpur District, Madhya Pradesh	M/s Engeotech Consultant	29.10.2025.	---	11 <sup>TH</sup> TCC-II	28.06.2026 (08 months)	Recommended to EC	For GR submission
15.	Reconnaissance Survey (G4) for Graphite and Vanadium in Matena-Sirar Area (60 Sq. km.), Almora District, Uttarakhand.	M/s Geovale Services Private Limited	28.08.2025.	---	11 <sup>TH</sup> TCC-II	28.02.2026 (06 months)	Recommended to EC	For GR submission
16.	Reconnaissance Survey (G4 Stage) for Graphite and associated Minerals around Sonaghati, Amdol, Jharegaon and Bhayawari, District Betul, Madhya Pradesh	M/s GeoExpOre Private Limited	11.03.2025	10.06.2025	11 <sup>TH</sup> TCC-II	09.10.2025 (04 months)	Recommended to EC	For GR submission

**Government of India  
Ministry of Mines  
National Mineral Exploration Trust  
Technical cum Cost Committee [TCC]**

F. No.: 6/4/2015-NMET/

New Delhi, 18th August 2025

**Corrigendum**

With reference to the minutes of 11th TCC-II Meeting held on 23<sup>rd</sup>, 24<sup>th</sup>, 25<sup>th</sup> and 30<sup>th</sup> July, 2025 the following modifications may be noted w.r.t the **Agenda no. 11.1.13, 11.4.2 and 11.5.26.**

**Agenda 11.1.13 Preliminary exploration (G3) for Rare Earth Elements and associated mineralization in Ramdevji ki Beri Block, Barmer District, Rajasthan. [Implementing Agency: M/s Ocean Drilling and Exploration Private Limited]**

c) The committee advised initial drilling in 5 boreholes one in each grid line in 400\*400 m spacing and subsequent boreholes will be decided after review. Further, the quantum of sampling will also be decided after results of initial 5 boreholes. Total 2650 meterage of drilling will be done in 22 boreholes, with average depth of 120m.

**Recommendations of TCC-II**

The committee recommends the proposal for approval of EC for "Preliminary exploration for rare earth elements and associated mineralization in Ramdev Ji ke Beri Block, Balotra District, Rajasthan" with an estimated cost of ₹597.98 Lakh (including GST) within the time schedule of 12 Months and submission of the report as per Annexures 7A & 7B. The item will be reviewed after 6 months. Total 2650 meterage of drilling will be done in 22 boreholes, with average depth of 120m. Initially five (05) boreholes will be drilled, remaining drilling will be decided after review.

**Agenda 11.4.2 Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities.**

**[Implementing Agency: DMR Meghalaya]**

d) The DGM further requested an extension of the project timeline until 31st October 2025.

**Recommendation TCC-II**

The TCC-II Committee recommended obtaining EC approval for an additional allocation of ₹3,04,440 towards the total procurement cost, along with a timeline extension up to 31 October 2025, under the project titled 'Financial Assistance from NMET Funds for Procurement of Machinery, Laboratory



**Equipment/Instruments aimed at Enhancing Exploration Activities', DMR Meghalaya.**

**Agenda 11.5.26 Preliminary Exploration (G-3) for REE and Associated Minerals in Borana Block, Bhilwara District, Rajasthan  
[Implementing Agency: M/s GeoExpOre Private Limited]**

c) The committee observed that the drilled boreholes core recovery was less than the described standard limit in NMET SOP. GeoExpOre Private Limited informed the committee about the weathered zone encountered in the boreholes leading to less core recovery. Further the agency requested the committee for one-time relaxation for reduced core recovery in boreholes RJB-01 and RJB-02 in both the weathered and mineralized zones.

d) The TCC-II allowed for one-time relaxation of reduced core recovery in boreholes RJB-01 and RJB-02 for both the weathered and mineralized zones and advised for adherence to NMET SOP standards for future work. The TCC-II opined that initially approved quantum of work to be continued as per timeline. Analysis to be done on priority basis.

***Recommendations of TCC-II***

**The committee allowed for the one-time relaxation of reduced core recovery in requested boreholes and advised to continue the initially approved quantum of work as per timeline.**

