

**Ministry of Mines**  
**National Mineral Exploration Trust**  
**Minutes of the 75<sup>th</sup> Technical-cum-Cost Committee-1 (TCC-1) meeting held on**  
**27<sup>th</sup> and 28<sup>th</sup> March, 2025 through video conferencing**

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The 75<sup>th</sup> meeting of the Technical-cum-Cost Committee-I (TCC-1) of the National Mineral Exploration Trust (NMET) was held via video conferencing under the chairmanship of Dr. S. Ravi, Deputy Director General (DDG), Geological Survey of India Training Institute (GSITI) and Chairman, TCC-1, NMET, on 27<sup>th</sup> and 28<sup>th</sup> March, 2025.

Members of TCC-1, NMET and representatives from DGM, Chhattisgarh, DMG, Karnataka, DGM Maharashtra, CGM Tamil Nadu, MECL, CMPDI, OMC Ltd., KIOCL Limited, Maheshwari Mining Pvt Ltd, Geo Exploration and Mining Solutions, Gemcokati Exploration Pvt Ltd, Geo Technical Mining Solutions, Critical Mineral Trackers, APC Drilling & Construction Pvt. Ltd and GMMCO Technology. have attended the meeting through their respective VC modes:-

The list of participants is enclosed in Annexure-1.

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

Dr. S. Ravi, Chairman of TCC-1, NMET, extended a warm welcome to all members of TCC-1 and participants representing various NEAs and NPEAs and conducted the proceedings as per circulated agenda. The Chairman raised concern over the fact that many of MECL's G3 items under 10A(2)(B) cases reviewed had failed, hence the matter needs to be viewed seriously. Regarding the decline in proposal submissions over the last two TCC meetings, the Chairman stated that this may be due to the financial year-end. He advised all agencies to take advantage of NGDR and submit more proposals.

**Agenda 75.1: Technical evaluation of new project proposals**

**Agenda.75.1.1. Preliminary Exploration (G3) for Aluminous Laterite, Vanadium and associated minerals in Kolathur Block, District- Kasaragod, Kerala.**  
**[Implementing Agency: MECL]**

- a) The proposed block falls in Survey of India Toposheet No. 48P/03 and exposes charnockites and pyroxene granulites of the Charnockite and numerous quartz vein intrusions.
- b) This is an upgradation of a G4 stage item carried out by MECL in the Kasaragod East Block (291.00 sq km; Block-ID SR-KRL-03) in Kasaragod District, Kerala.
- c) MECL informed the committee that the proposed area is largely covered by laterite with irregularly distributed bauxite patches containing high alumina. However, with total silica content exceeding 8%, further bauxite exploration is not recommended. However, surface bedrock samples from the central and southeastern parts of the block show encouraging concentration of vanadium (up to 1,019.7 ppm) and gallium (up to 46.7 ppm). Moreover, LREE concentration is also significant within laterite.
- d) The committee noted that the proposed G3 block includes only three samples collected during and all are lying at the block boundary. Bedrock samples from the Kolathur Block show vanadium concentrations of 434.2–856.4 ppm, gallium levels of 36.5–42.1 ppm, and alumina (Al<sub>2</sub>O<sub>3</sub>) content ranging from 18.76% to 35.56%.

  
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- e) Accordingly, the committee suggested modifying the south western block boundary, recommending no need of channel sampling. Drilling needs to be carried out at 800m spacing and final decisions will be decided after review. Additionally, drilling in the clay-rich areas is not advised.

**Recommendations of TCC-1:**

***The committee recommended the proposal for approval of EC for “Preliminary Exploration (G-3) for Aluminous Laterite, Vanadium and Associated Minerals in Kolathur Block, Kasaragod district, Kerala” with an estimated cost of ₹ 180.99 lakh (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure - 2A & 2B. The item will be reviewed after 04 & 08 months.***

**Agenda.75.1.2. Preliminary (G3) Exploration for Graphite and associated minerals in Nagapuzha Block, Ernakulam District, Kerala.**

**[Implementing Agency: MECL]**

- a) The proposed exploration block falls in the Survey of India Toposheet no. 58C/09 and geologically it belongs to Kerala Granulite Belts.
- b) GSI has carried out graphite exploration in Perungala Area, Thodupuzha Belt since 1969 to 1979 and estimated resource for graphite reporting occurrence of Graphite as high-quality flakes, forming an essential component of biotite-graphite gneiss.
- c) Based on GSI's work, the Nagapuzha Block has been proposed considering the fact that it is located in extension of the graphite band associated with M/s Thomson Graphite Mines & Crucible Works. Graphite traces were observed in lateritic material from bore well samples in Nagapuzha Village, about 2 km southeast of the existing mines.
- d) The committee finds that the block proposed engulfs three blocks which are already explored up to G2 level, so sufficient data is already available in the area. In this regard, MECL informed that geo referenced map and detailed data are not available to prepare GR for auction. Hence, GSI, MECL and DMG have conducted a joint field visit and it was decided to work in the area.
- e) The committee raised concerns about the feasibility for detailed mapping of large area (10 sq.km) and advised MECL to study the existing three exploration reports of GSI and find out the gap and extension areas for further exploration.

**Recommendations of TCC-1:**

***After a detailed discussion, the committee decided that amalgamation of the existing blocks need to be done, after that the gap areas may be explored to get a complete report of the area. Accordingly, the committee recommended MECL to identify gap area and modify the proposal targeting those areas and present in next meeting of TCC-1.***

**Agenda.75.1.3. Reconnaissance Survey (G4) for REE and associated minerals in Ektala-Rajanpalli and Jogiapalli-Gobindpur Area, Nayagarh District, Odisha.**

**[Implementing Agency: MECL]**

- a) The proposed area belongs to Eastern Ghat Mobile Belt, Odisha and falls in the Survey of India Toposheet no. 73H/04.
- b) Specialized thematic mapping by GSI (FS: 2018-20) first identified REE-bearing phases in the core of EGMB, hosted in syenite-pyroxenite bands. Later during 2021-22, further revealed that granite gneissic country rock is intruded by several leucocratic coarse grained to pegmatoidal syenite veins around the area. GSI reported ΣREE

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content of regolith samples varies from 228.86 ppm to 4,031.67 ppm whereas in stream sediment samples it varies from 214.86 ppm to 2,225.67 ppm and for BRS sample it varies from 89.409 ppm to 24,689.11 ppm.

- c) EPMA study confirmed the presence of bastnaesite, thorite, allanite, and baddeleyite as significant REE/RM phases associated with sphene and apatite.
- d) After NGCM work in Toposheet no. 73H/04 GSI reported that 8 composite samples contain very high  $\Sigma$ REE values ( $> 2,000$  ppm) and these high values are restricted in the south western part mainly over charnockite, granite gneiss and very little area over khondalite.
- e) AMD has worked in the area for U & Th and reported values more than or equivalent or threshold values and advised if any agency carry out exploration in the area again, they have to analyze the samples for U & Th invariably.
- f) The committee found that the target lithology for the anomalous value of REEs in the area is not known yet and requires to upgrade. The committee suggested to carry out both Auger drilling (150 m) and Regular Drilling (200 m) under scout category.

**Recommendations of TCC-1:**

***The committee recommended the proposal for approval of EC for "Reconnaissance Survey (G4) for REE and associated minerals in Ektala-Rajanpalli and Jogiapalli-Gobindpur Area, Nayagarh District, Odisha" with an estimated cost of ₹116.17 lakh (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure - 3A & 3B. The item will be reviewed after 04 & 08 months.***

**Agenda.75.1.4. Reconnaissance Survey (G4 Stage) for Iron ore and Limestone in Yaparlapadu and Dhone Area, Kurnool & Nandyal Districts, Andhra Pradesh.**

**[Implementing Agency: Critical Mineral Tracker]**

- a) In the 74th TCC, CMT proposed two separate G4 investigations for iron ore in the Yaparlapadu and Dhone areas.
- b) After review, the committee recommended to merge both the blocks into a single G4 investigation covering approximately 100 sq. km.
- c) Accordingly, CMT combined the blocks and presented the DPR in the 75th TCC-1 meeting, where the committee agreed to recommend the area for G4 stage exploration.
- d) The committee agreed to recommend the area to explore under G4 stage investigation.

**Recommendations of TCC-1:**

***The committee recommended the proposal for approval of EC for "Reconnaissance Survey (G4 Stage) for Iron ore in Yaparlapadu - Dhone Area, Kurnool & Nandyal Districts, Andhra Pradesh" with an estimated cost of ₹ 152.82 lakh (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure - 4A & 4B. The item will be reviewed after 04 & 08 months.***

  
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## **75.2 Technical Evaluation of Procurement Proposals**

**Agenda 75.2.1. Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities. (Advanced Geophysical Laboratory at Geological Survey of India Training Institute  
([Implementing Agency: GSITI])**

- GSITI comprised of TI Headquarters at Hyderabad, six Regional Training Divisions (RTDs) and four Field Training Centers (FTCs). GSITI plays a pivotal role in fostering expertise among over 6,000 geoscientific officers from across the department. It also provides skill upgradation to geoscientific officers from other Central and State Government offices, NPEAs, PEAs, PSUs and academia. GSITI also provided regular ITEC courses for professionals from developing countries.
- GSITI presented proposal for financial assistance towards the establishment of the Advanced Geophysical Laboratory at the Geological Survey of India Training Institute (GSITI), Hyderabad. This will include procurement of Hardware Requirement, Modern Softwares etc.
- The objective of the proposal is to establish a modern Geophysical Laboratory aided by proper infrastructure with high end systems capable of handling AI/ML and inversions. The lab will be equipped with specialized softwares to analyze data related to the Earth's physical properties, typically used.
- The details of the proposed components are as given below:

| <b>Components</b>                                                              | <b>Estimated Cost (Approx) in ₹</b> | <b>Estimated Cost (Approx) (including GST) in ₹</b> |
|--------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------------|
| Computer systems (25 No.)                                                      | ₹78,07,200<br>(3,12,288 per system) | ₹92,12,496<br>(GST@18%)                             |
| One Work station and UPS                                                       | ₹5,52,177                           | ₹6,51,569<br>(GST@18%)                              |
| INTREPID and GEOMODELLER software (25 licenses) including training for 2 years | ₹2,05,50,000                        | ₹2,42,49,000<br>(GST@18%)                           |
| 86 inch Digital display (1 No)                                                 | ₹ 1,91,406.25                       | ₹2,45,000<br>(GST@28%)                              |
| Infrastructure                                                                 | ₹ 8,00,127                          | ₹9,44,150<br>(GST@18%)                              |
| <b>Total</b>                                                                   | <b>₹ 2,99,00,910/-</b>              | <b>₹ 3,53,02,215/-</b>                              |

- GSITI stated that the establishment of an advanced Geophysical Laboratory at GSITI will significantly enhance India's capabilities in geophysical research and training. By providing state-of-the-art tools for data analysis, modelling, and visualization, the laboratory will strengthen GSI's role in mineral exploration, geotechnical studies, and environmental research. Furthermore, it will provide a platform for training geoscientists with the skills needed to address the evolving challenges in the field of geophysics and other disciplines.

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- f) The Committee inquired whether GSITI has the experts to handle the proposed software and associated datasets (case studies). The Committee asked GSITI to furnish detailed information on each individual software, including their respective market prices and also advised GSITI to exercise caution, particularly as some of the proposed softwares like Geomodular are proprietary in nature. GSITI informed that the software would be used for academic purposes and will be utilized for training purpose.
- g) Subsequently, the Committee opined that the initiative will enhance the performance and capabilities of the geoscientific community not only in the country but in the world. Hence, TCC-1 agreed to recommend the proposal to EC of NMET.

**Recommendation TCC-1:**

***The TCC-1 recommended ₹3,53,02,215/- (including GST) towards the establishment of the Advanced Geophysical Laboratory at the Geological Survey of India Training Institute (GSITI), Hyderabad.***

**Agenda 75.2.2. Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities. (procurement of MT instruments, semirugged laptops, software and workstations)**

**[Implementing Agency: GSI]**

- a) The proposal was presented in the 74<sup>th</sup> TCC-1 of NMET where the committee Committee agreed in-principle for the procurement of the instrument but advised GSI to organize a one-day workshop to gather feedback from various stakeholders, user agencies, and institutions utilizing these instruments. The purpose is to refine the scale of the survey, finalize the five-year plan, and return to the TCC with stakeholder comments, case studies, and a comprehensive plan for data generation and interpretation.
- b) GSI presented the proposals in two Components:

➤ **Procurement Proposal-1 - MT Instrument along with rugged laptop**

- GSI proposed for procurement of 18 Nos of 8-channel MT instruments and same numbers of semi –rugged laptop with two years of warranty and five years of CAMC through NMET fund for an amount ₹22,32,00,000 (Rupees twenty-two crore thirty two lakhs only ) plus 18% GST with a total of ₹26,34,00000/- (Rupees twenty six crore thirty four lakh only). The details of the cost of the instruments are as given below:

| Estimated Cost in INR (for items against Bullet A)                                   |                  |                 |                     |                                   |                                   |                                          |                      |                      |
|--------------------------------------------------------------------------------------|------------------|-----------------|---------------------|-----------------------------------|-----------------------------------|------------------------------------------|----------------------|----------------------|
| Item Description                                                                     | Unit price (INR) | Number required | (A)Total cost (INR) | CAMC cost per year [@ 4% of Cost] | (B)Total CAMC cost for five years | (C=A+B)Total cost of instrument and CAMC | (D=0.18*C) GST (18%) | (E=C+D) Total in INR |
| Eight channel MT instrument with magnetic induction coil sensor and flux gate sensor | 10134592         | 18              | 182422663           | 7296907                           | 36484533                          | 218907195                                | 39403295             | 258310490            |
| Semi-rugged laptop with pre-installed acquisition and processing software            | 200000           | 18              | 3600000             | 144000                            | 720000                            | 4320000                                  | 777600               | 5097600              |
| Total                                                                                | 10334592         | 18              | 186022663           | 7440907                           | 37204533                          | 223227195                                | 40180895             | 263408090            |
| Say (in INR Crores)                                                                  | 1.03             | 18              | 18.60               | 0.74                              | 3.72                              | 22.32                                    | 4.02                 | 26.34                |

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➤ **Proposal of WinGLink Software and Workstation**

- a) GSI proposed procurement of 06 nos. of WinGLink instruments with seven years of warranty and same numbers workstation with two years of warranty and five years of CAMC through NMET fund for an amount 4.82/- crore including 18% GST.
- b) The details of the proposals are as given below:

| Estimated Cost in INR                                                 |                  |                 |                     |                                    |                                   |                                           |                      |                      |
|-----------------------------------------------------------------------|------------------|-----------------|---------------------|------------------------------------|-----------------------------------|-------------------------------------------|----------------------|----------------------|
| Item Description                                                      | Unit price (INR) | Number required | (A)Total cost (INR) | CAMC @ 5% of cost for workstations | (B)Total CAMC cost for five years | (C=A+B) Total cost of instrument and CAMC | (D=0.18*C) GST (18%) | (E=C+D) Total in INR |
| WinG Link Geophysical interpretation software (with 7 years warranty) | 6405000          | 6               | 38430000            | NA                                 | NA                                | 38430000                                  | 6917400              | 45347400             |
| Workstation                                                           | 325000           | 6               | 1950000             | 97500                              | 487500                            | 2437500                                   | 438750               | 2876250              |
| <b>Total</b>                                                          | <b>6730000</b>   | <b>6</b>        | <b>40380000</b>     | <b>97500</b>                       | <b>487500</b>                     | <b>40867500</b>                           | <b>7356150</b>       | <b>48223650</b>      |
| <b>Say (in INR Crores)</b>                                            |                  |                 | <b>4.04</b>         | <b>0.01</b>                        | <b>0.05</b>                       | <b>4.09</b>                               | <b>0.74</b>          | <b>4.82</b>          |

- c) The Committee also observed that the current procurement proposal is planned in a two-phase manner—initially for the Regional Survey, followed by the Transact and Focused Surveys
- d) The Committee advised GSI to correspond with agencies currently utilizing the instrument in question, in order to obtain a more rational and justifiable cost estimate, as the presently proposed cost appears to be exorbitant.
- e) Additionally, the Committee recommended that GSI should conduct a site visit to the ongoing MT survey in Rajasthan. This would help in understanding the functional mechanism, operational feasibility, and overall technical functions associated with the equipment and survey process.
- f) In view of the above the TCC-1 agreed to recommend the two proposals to EC of NMET.

**Recommendation TCC-1:**

**The TCC-1 recommended the following to EC:**

- Procurement of 18 Nos of 8-channel MT instruments and same numbers of semi-rugged laptop with two years of warranty and five years of CAMC through NMET fund for an amount 22,32,00,000(Rupees twenty-two crore thirty-two lakhs only) plus 18% GST with a total of INR.26.34 /- (Rupees twenty-six crore thirty-four lakh only).**
- Procurement of 06 nos. of WinGLink instruments with seven years of warranty and same numbers workstation with two years of warranty and five years of CAMC through NMET fund for an amount of ₹ 4,82,23,650- including 18% GST.**

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### **75.3 Review of Ongoing Projects/ Completed Project & Timeline Extension**

#### **Agenda 75.3.1. Reconnaissance Survey (G4) of Graphite in Darukona, District Rayagada, Odisha.**

**[Implementing Agency: MMPL]**

- a) MMPL informed that the project was approved in the 32<sup>nd</sup> EC Meeting held on 06<sup>th</sup> December, 2023. The sanction order was issued on 15<sup>th</sup> December, 2023 with timeline of 12 months and approved cost was INR 1,73,81,649/-.
- b) MMPL informed that exploration work has been completed, however Chemical analysis of samples is in progress. TTC-1 was informed that most of the results have yielded negative F.C.% values. Resource has not been estimated due to unavailability of FC% for core samples.
- c) The project timeline is up to 31<sup>st</sup> March, 2025. However, MMPL requested timeline extension due to delayed chemical analysis. The committee viewed it seriously and raised concerns over inordinate delay for the G4 kind of item.

#### **Recommendation TCC-1:**

***The TCC-1 recommended timeline extension upto 31<sup>st</sup> May 2025 for submission of GR. The committee advised MMPL to come for GR review with Peer review compliance report.***

#### **Agenda 75.3.2. Reconnaissance Survey (G4) of Graphite in Kanapulisi, District Rayagada, Odisha.**

**[Implementing Agency: MMPL]**

- a) MMPL informed that the project was approved in the 32<sup>nd</sup> EC Meeting held on 06<sup>th</sup> December, 2023. The sanction order was issued on 15<sup>th</sup> December, 2023 with timeline of 12 months and approved cost was INR 1,69,49,726/-.
- b) MMPL informed that exploration work has been completed, however Chemical analysis of samples are in progress. TCC-1 was informed that most of the results have yielded negative F.C.% values. Resource has not been estimated due to unavailability of FC% for core samples. MMPL informed that 0.89 MT resource for Tungsten was estimated by cross sectional method.
- c) The project timeline is up to 31<sup>st</sup> March 2025; however, MMPL requested a timeline extension citing delays in chemical analysis, which the Committee viewed seriously, raising concerns over the inordinate delay for a G4-level item.

#### **Recommendation TCC-1:**

***The TCC-1 recommended time extension upto 31<sup>st</sup> May 2025 for submission of GR.***

#### **Agenda 75.3.3. Reconnaissance Survey (G4) for polymetallic mineralization (Au,Cu,Ni,Co) in Dharwar Shimoga Schist Belt of Nagavanda area Dhavangere, Haveri and Shimoga District, Karnataka.**

**[Implementing Agency: KIOCL]**

- a) KIOCL informed that the project was approved in the 28<sup>th</sup> EC Meeting held on 16<sup>th</sup> March, 2023. The sanction order was issued on 27<sup>th</sup> March, 2023 with timeline of 12 months and approved cost was INR 1,47,62,526/-.
- b) KIOCL informed that geological work such as LSM and trenching have been completed. Scout drilling is in progress (1 BH closed at 135m & 2nd under progress at 170m) in the block.

  
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- c) KIOCL informed that no significant mineralized zones encountered in BH 1. Negligible sulphides were observed in carbonaceous phyllite. Six samples were tested for Fixed Carbon (FC) %, all were resulting with FC < 1%. Analysis of core samples is in progress. Based on the analytical results, decision shall be taken to continue or to truncate the programme.
- d) The TCC-1 noted the progress and recommended to once again review the project after receiving of analytical results.

**Recommendation TCC-1:**

***The TCC recommended review of the project in 77<sup>th</sup> TCC-1 meeting with values/chemical analysis of boreholes.***

**Agenda 75.3.4. Preliminary exploration (G3) for graphite around Naringapanga block, Rayagada District, Odisha.**

**[Implementing Agency: DMG Odisha]**

- a) DMG Odisha informed that the project was approved in the 27<sup>th</sup> EC Meeting held on 10<sup>th</sup> January, 2023. The sanction order was issued on 4<sup>th</sup> September, 2023 with timeline of 09 months and approved cost was INR 1,20,92,849/-.
- b) DMG, Odisha informed that GR of Naringapanga graphite block was presented 71st Meeting of TCC, NMET on 25.11.2024 and the same submitted for peer review on 17.02.2025 and the compliance of peer reviewer's comments was presented to the committee.
- c) DMG, Odisha informed that Polygonal method of resource estimation has been done in the block:

| Ore                 | Resource in Million tonnew (CS Method) | Resource in Million tonnes (Polygonal Method) | Average Grade |
|---------------------|----------------------------------------|-----------------------------------------------|---------------|
| Graphite F.C (2-5%) | 0.413                                  | 0.254                                         | 3.01 %        |

- d) The committee noted the outcome of the project and agreed for GR submission.

**Recommendation TCC-1:**

***The TCC recommended submission of GR with proper conclusion.***

**Agenda 75.3.5. Preliminary Exploration (G3) for coal in Borda & Ghonsa Parsoda block, Wardha Valley CF, Maharashtra.**

**[Implementing Agency: CMPDI]**

- a) CMPDI informed that the project was approved in the 24<sup>th</sup> EC Meeting held on 18<sup>th</sup> May, 2022. The sanction order was issued on 01<sup>st</sup> June, 2022 with timeline of 18 months and approved cost was INR 12,01,56,952/-.
- b) CMPDI apprised that the project has been completed and the GR has been peer reviewed. The comments of the peer reviewer has been complied.
- c) CMPDI informed that a total of 9300m drilling was carried out in 12 BHs. The Seam-wise Grade-wise Inferred resources is as given below:

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| SEAM/SECTOR | GRADE |      |       |       |       |        |       |      |      |      |      | Grand Total |
|-------------|-------|------|-------|-------|-------|--------|-------|------|------|------|------|-------------|
|             | G3    | G4   | G5    | G6    | G7    | G8     | G9    | G10  | G11  | G12  | G13  |             |
| I           | 10.27 | 7.77 | 5.57  | 6.62  | 7.66  | 6.96   | 4.81  | 3.85 | 4.34 | 3.97 | 0.51 | 62.32       |
| IIA         | 0     | 0.87 | 6.47  | 11.92 | 24.13 | 118.2  | 31.04 | 0    | 0    | 0    | 0    | 192.63      |
| IIB         | 0     | 0    | 0     | 97.96 | 55.32 | 19.33  | 15.76 | 5.46 | 4.31 | 0    | 0    | 198.14      |
| Grand Total | 10.27 | 8.64 | 12.04 | 116.5 | 87.1  | 144.49 | 51.61 | 9.31 | 8.65 | 3.97 | 0.51 | 453.09      |

- d) CMPDI sought approval of TCC-1 for submission of GR within approved timeline (extended ) of 31<sup>st</sup> March 2025.
- e) Considering the above, the committee agreed for submission of GR.

**Recommendation TCC-1:**

***The TCC recommended for GR submission within stipulated timeline.***

**Agenda 75.3.6. Reconnaissance Survey (G4) for coal in West of Ghughus & Bellora Block, Wardha Valley CF, Maharashtra.**

**[Implementing Agency: CMPDI]**

- a) CMPDI informed that the project was approved in the 27<sup>th</sup> EC Meeting held on 10<sup>th</sup> January, 2023. The sanction order was issued on 3<sup>rd</sup> February, 2023 with timeline of 12 months and approved cost was INR 2,15,76,661/-.
- b) CMPDI informed that the exploration work is in progress, with 1200 m of drilling completed in two boreholes out of the approved 1800 m, and geophysical studies conducted over 1156 m. Sample analysis is in progress. TCC-I was informed that no coal seams were encountered in either of the boreholes—MGB-01 and MGB-02.
- c) CMPDI informed that proposed point(P-1) for 3<sup>rd</sup> borehole is located in forest and is not approachable for drilling operation. The only alteration location(Northing-292642.00; Easting-2204734.00) is not allowed by the land owners and also the approach land is not available due to standing agriculture crop. There is no suitable location where the rig can be deployed as most of the area is covered by forest and agriculture land. Considering this, CMPDI requested approval of the committee for closure of the project as no coal seams has been encountered in the 2 completed boreholes and the remaining one point (P-1) could not be taken up due to forest and local issues.
- d) TCC-1 was also apprised that timeline of the project was extended up to 1.03.2025 by EC of NMET , hence time extension may be recommended till 30<sup>th</sup> April 2025 for the preparation and the submission of the geological report.
- e) Upon review, the committee agreed for closure of the project and time extension upto 30<sup>th</sup> April 2025 for GR submission.

**Recommendation TCC-1:**

***The TCC-1 recommended closure of the project with time extension upto 30<sup>th</sup> April 2025 for GR submission. The committee advised CMPDI to write to NMET the reason for preclosure of the item.***

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**Agenda 75.3.7. Preliminary Exploration (G3) for gold and associated minerals in Sirigeri Block, Ballari district, Karnataka.**  
**[Implementing Agency: DMG Karnataka]**

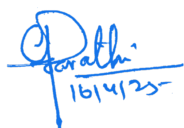
- a) DMG Karnataka informed that the project was approved in the 32<sup>nd</sup> EC Meeting held on 06<sup>th</sup> December, 2023. The sanction order was issued on 15<sup>th</sup> December, 2023 with timeline of 12 months and approved cost was INR 3,45,18,638/-.
- b) DMG Karnataka informed the committee that detailed Geological Mapping of 2.00 sq km (1:2000), topographical survey, trenching, Integrated ground geophysical survey (Induced polarization (I.P.) cum Resistivity, Self-Potential and Magnetic) for 2 Sq.Km and Induced Polarization (I.P.) for 23 sq.km has been completed in the block. Analytical data of BRS and trench samples were also presented by DMG Karnataka and the Committee noted that out of 285 samples, only a few BRS and PTS samples reported Au values exceeding 500 ppb.
- c) Based on the Integrated Ground Geophysical survey (Magnetic, IP and resistivity), detailed mapping and trenching data, DMG Karnataka proposed to carry out drilling in 3 boreholes with 890 meterage although approved drilling was 690 m. TCC-1 was informed that initially boreholes are planned with section interval of 200m spacing with consideration of the mineralization trend, chargeability and resistivity profiles and trenching data, which comes around 26 number of boreholes with 5710 meterage. DMG Karnataka informed that the rest of the boreholes can be taken up in the next phase with systemic drilling on approval of TCC NMET.
- d) Further, considering the 200m increase in drilling, DMG Karnataka sought approval of the committee for additional cost ₹ 32,84,620 /- (including additional geologist days, drilling, sampling, etc).
- e) Boreholes No. 10 and 14 were approved for drilling up to 60 m vertical depth to target trench and geophysical anomalies respectively, with BH No. 14 to be inclined at an angle of 45 to 50 degrees. The committee opined that, if the results are encouraging, BH No. 13 may be taken up along with an additional borehole along the northwestern strike extension of BH No. 14.
- f) The TCC-1 agreed for the additional drilling in the area, including the additional cost to be incurred, however proposed to approve the additional cost after review of drilling.

**Recommendation TCC-1:**

***The TCC recommended to carry out 890m drilling in 3 boreholes.***

**Agenda 75.3.8. Preliminary Exploration (G3) for Iron Ore in Khandadhar Sub Block - E (8.797 sq.km), Sundargarh District, Odisha.**  
**[Implementing Agency: OMC]**

- a) OMC informed that the project was approved in the 32<sup>nd</sup> EC Meeting held on 06<sup>th</sup> December, 2023. The sanction order was issued on 12<sup>th</sup> December, 2023 with timeline of 12 months and approved cost was INR 7,99,38,943/-.
- b) OMC informed that in the 71<sup>st</sup> TCC1 meeting, the committee recommended OMC to submit the report under G4 stage at the earliest and submit the revised cost sheet to NMET secretariat. OMC informed that geological mapping has been completed and 40 surface samples were collected. Out of 40 nos. of surface samples, 29 nos. of samples are identified as Iron Ore category with Fe content varying from 42.93% to 67.16% with an average of 60.92% of Fe, Al<sub>2</sub>O<sub>3</sub> content varying from 0.82% to 20.32% and SiO<sub>2</sub> content from 0.97% to 6.97%. However, due to non-availability of forest permission, drilling was not carried out.

  
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- c) OMC apprised that the block was already explored in the G4 stage and the GR in G4 was submitted to NMET on 25.09.2023. OMC informed that as the forest clearance (FC) for core drilling is expected soon and accordingly, the start date of the project be reckoned from the day of forest clearance.
- d) Upon review, the committee suggested that the start date will be considered from the date of sanction order, however considering that FC will be received soon, time line for the project may be extended till 30<sup>th</sup> June 2025.

**Recommendation TCC-1:**

***The TCC recommended time line extension for the project upto 30<sup>th</sup> June 2025 for pursuing the matter with Forest department for Forest Clearance (FC). Once FC is obtained, the revised project period needs to be fixed after assessing the drilling plan in TCC-1.***

**Agenda 75.3.9. Preliminary Survey (G3) for graphite in Lamer-Panga Block-B (12.994 sq. Km) in Kalahandi district of Odisha.**

**[Implementing Agency: OMC]**

- a) OMC informed that the project was approved in the 27<sup>th</sup> EC Meeting held on 10<sup>th</sup> January, 2023. The sanction order was issued on 3<sup>rd</sup> February, 2023 with timeline of 14 months and approved cost was INR 2,16,60,170/-.
- b) OMC informed that in 71<sup>st</sup> TCC meeting on 25<sup>th</sup> November 2024, the committee has recommended for submission the geological report by 31<sup>st</sup> January 2025.
- c) OMC apprised that Geological mapping and 310 m drilling (out of approved 900m) has been completed. TCC-1 was informed that due to non-receipt of forest permission, drilling could not be completed and trenching was not carried out in the block.
- d) OMC informed that total 07 nos. of systematic boreholes (about 200 m intervals of foliation direction) have been drilled and two graphite mineralization zones were delineated. A total 06 nos. of boreholes are positive with FC varying from 2% to 12.69 %. The resource has been estimated by using cross sectional area method for considering the threshold value 2% FC in this block. A total of 1303835 tonnes or 1.303 million tonnes with an average 4.72% FC Inferred mineral resource (333) for graphite has been estimated in Cross Sectional Area method.
- e) The TCC-1 was informed that GR has been peer reviewed and comments were incorporated in the GR. OMC requested time extension upto 10<sup>th</sup> April 2025 for submission of GR.
- f) In view of the above, TCC-1 agreed for submission of GR and time extension upto 10<sup>th</sup> April 2025 with revised cost of the project as ₹84.63 Lakhs as given at Annexure 5.

**Recommendation TCC -1:**

***The TCC-1 recommended submission of GR with time extension upto 10<sup>th</sup> April 2025. TCC-1 also recommended revised cost of the project as ₹84.63 Lakhs as given at Annexure 5.***

**Agenda 75.3.10. Preliminary exploration (G3) for Salaikana Gold Block (3.98 sq.km) in Keonjhar district of Odisha**

**[Implementing Agency: OMC]**

- a) OMC informed that the project was approved in the 31<sup>st</sup> EC Meeting held on 12<sup>th</sup> September, 2023. The sanction order was issued on 5<sup>th</sup> October, 2023 with timeline of 12 months and approved cost was INR 2,01,98,905/-.

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- b) OMC informed that project was reviewed in 74<sup>th</sup> TCC-1 meeting and the committee had agreed for closure of the project and time extension upto 31<sup>st</sup> March 2025 for submission of GR with revised cost of ₹26.83 Lakhs. OMC apprised the committee of the compliance report on the comments of the peer reviewer and requested timeline extension upto 10<sup>th</sup> April 2025 for GR submission.
- c) In view of the above, the committee agreed for submission of GR with timeline extension upto 10<sup>th</sup> April 2025.

**Recommendation TCC-1:**

***The TCC recommended submission of GR with 10 days timeline extension upto 10th April 2025.***

**Agenda 75.3.11. Preliminary Exploration (G3) for Limestone in Alda Block Raipur & Balodabazar-Bhatapara Districts, Chhattisgarh.  
[Implementing Agency: DGM Chhattisgarh]**

- a) DGM Chhattisgarh informed that the project was approved in the 33<sup>rd</sup> EC Meeting held on 19<sup>th</sup> February, 2024. The sanction order was issued on 28<sup>th</sup> February, 2024 with timeline of 10 months (up to 27.12.2024) and approved cost was INR 1,59,77,570/-.
- b) The TCC-1 was apprised that detailed geological mapping (1:4000) Scale has been carried out an area of about 10.25 sq.km. A total of 11 Nos. of boreholes (800 X 800 mts) have been drilled in the area, achieving 610.00 drilling meterage with one 01 borehole (ALD-2) still under progress.
- c) DGM Chhattisgarh informed that total of 448 Nos. of samples (428 Core and 20 Surface samples) are collected and analysed in the departmental laboratory. Till date, total of 406 Nos. of core samples have been analysed and analysis of the rest of the samples are in progress. The analytical data of the limestone showed the limestone varies in CaO, MgO and SiO<sub>2</sub> contents from 34.12% to 51.158%, 0.59% to 4.29 % and 9.52% to 23.79% respectively. In the 20 surface samples, analytical results showed CaO, MgO and SiO<sub>2</sub> contents of the limestone are varying from 42.17% to 50.02%, 0.32% to 1.61% and 3.40% to 14.60% respectively.
- d) DGM Chhattisgarh apprised that the GR is in progress and requested for two months of timeline extension (upto 31<sup>st</sup> May 2025) for concluding the entire work.
- e) In view of the above , the TCC-1 agreed for timeline extension of 2 months.

**Recommendation TCC-1:**

***The TCC-1 recommended 2 months time extension up to 31<sup>st</sup> May 2025 for GR submission.***

**Agenda 75.3.12. Preliminary Exploration (G-3) for Manganese and Graphite in Bharatbahal Block (2.00 sq. km), Balangir District, Odisha.  
[Implementing Agency: MECL]**

- a) MECL informed that the project was approved in the 33<sup>rd</sup> EC Meeting held on 19<sup>th</sup> February, 2024. The sanction order was issued on 28<sup>th</sup> February, 2024 with timeline of 08 months (up to 27.10.2024) and approved cost was INR 1,37,77,521/-.
- b) MECL informed that the project has been completed and the peer reviewer's comments have been complied .
- c) MECL apprised that the manganese ore resource estimated by Geological Cross Section Method is 0.45 million tonnes and over a strike length of 930 m with an average grade of 19.62% Mn at 10% Mn threshold value. The graphite ore resource estimated

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by Geological Cross Section Method is 0.59 million tonnes (m.t.) over a strike length of 250 m with an average grade of 2.09% FC at 2% FC threshold value.

- d) MECL requested for additional cost of ₹88,500/- for proximate analysis of 25 sample (including check samples):

| S. No. | Item of Work                                                                       | Unit | Rate as per NMET SoC 2020-21 |                 | Estimated Cost of the Proposal |             | Remarks                                              |
|--------|------------------------------------------------------------------------------------|------|------------------------------|-----------------|--------------------------------|-------------|------------------------------------------------------|
|        |                                                                                    |      | SoC-Item- SI No.             | Rate as per SoC | Qty.                           | Amount (Rs) |                                                      |
| 1.     | Proximate Analysis for Graphite (Ash, Moisture, V.M. and F.C.) for Primary Samples | Nos  | 4.1.16                       | 3,000           | 23                             | 69,000      | Approved 70 Nos (25T+45BH) Actual 93 Nos. (30T+63BH) |
| 2.     | External Check Analysis for Proximate Analysis                                     | Nos  | 4.1.16                       | 3,000           | 2                              | 6,000       | Approved 7Nos Actual 9 Nos.                          |
|        |                                                                                    |      |                              |                 |                                | 75,000      |                                                      |
|        |                                                                                    |      |                              |                 |                                | GST (18%)   | 13,500                                               |
|        |                                                                                    |      |                              |                 |                                | Grand Total | 88,500                                               |

- e) The TCC-1 approved additional cost of ₹88,500/- for proximate analysis of 25 sample (including check samples) and agreed for submission of GR.

**Recommendation TCC-1:**

**The TCC-1 recommended submission of GR with additional cost of ₹88,500/- for proximate analysis of 25 sample (including check samples).**

**Agenda 75.3.13. Preliminary Exploration (G-3) for Manganese in Nagardhan Block (2.00 sq. km), Nagpur District, Maharashtra.**

**[Implementing Agency: MECL]**

- MECL informed that the project was approved in the 33<sup>rd</sup> EC Meeting held on 19<sup>th</sup> February, 2024. The sanction order was issued on 28<sup>th</sup> February, 2024 with timeline of 08 months (up to 27.10.2024) and approved cost was INR 1,37,77,521/-.
- TCC-1 was apprised that in the 74<sup>th</sup> TCC-1 meeting, the project was approved timeline extension upto 30<sup>th</sup> April 2025 for submission of GR.
- MECL informed that the GR has been peer reviewed and comments of the reviewer has been incorporated. Hence, MECL requested approval of TCC-1 for Submission of GR.
- The TCC-1 approved for submission of GR by 30<sup>th</sup> April 2025.

**Recommendation TCC-1:**

**The TCC recommended submission of GR within stipulated time.**

**Agenda 75.3.14. Reconnaissance Survey (G-4) for QPC hosted gold mineralization and copper in Kalasapura Block (119.00 sq. km), Chikkamagaluru District, Karnataka.**

**[Implementing Agency: MECL]**

- MECL informed that the project was approved in the 33<sup>rd</sup> EC Meeting held on 19<sup>th</sup> February, 2024. The sanction order was issued on 27<sup>th</sup> February, 2024 with timeline of 12 months (up to 26.02.2025) and approved cost was INR 1,52,40,702/-.
- MECL informed that outcome of work (Phase-I) was presented in 71<sup>st</sup> TCC meeting held on 25<sup>th</sup> & 26<sup>th</sup> Nov, 2024 during which the committee had opined that the potential area is in close proximity with Railway track and may likely pose feasibility

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issues later for further exploration in the area. In view of the above, the TCC-1 advised to close the project and submit the report.

- c) MECL apprised that based on the analysis of the Bedrock and Channel samples, one potential area (Area-1) over 2.3 sq.km. for copper mineralisation has been demarcated towards west of Kanivehalli. However, Railway line passing through the potential area is the main constraint to carry out further exploration.
- d) TCC-1 was informed that comments of the peer reviewer has been received and modifications are complied. TCC-1 was requested to approve time extension of 1 month for submission of GR.
- e) In view of the above, the committee agreed for GR submission by 31<sup>st</sup> March 2025. The revised cost of the project is ₹ 39.33 Lakhs as given at Annexure 6.

**Recommendation TCC-1:**

**The TCC-1 approved submission of GR with revised cost of the project is ₹ 39.33 Lakhs as given at Annexure 6 along with 1 month time extension upto 31<sup>st</sup> March 2025.**

**Agenda 75.3.15. Preliminary Exploration (G-3) for Limestone in Jaharitola (3.34 sq.km) & Mundatola Blocks (4.34 sq.km), Sundargarh District, Maharashtra.**

**[Implementing Agency: MECL]**

- a) MECL informed that the project was approved in the 37<sup>th</sup> EC Meeting held on 23<sup>rd</sup> September, 2024. The sanction order was issued on 23<sup>rd</sup> October, 2024 with timeline of 12 months (up to 22.10.2025) and approved cost was INR 2,85,75,457/-.
- b) MECL informed that Geological mapping and bedrock sample collection have been completed in the block. TCC-1 was apprised that 80% of the are occupied by soil. However, limestone is exposed in the eastern part dolomitic due to earlier mining activities.
- c) MECL presented the analytical results of BRS as given below:

|      | CaO%  | MgO%  | SiO <sub>2</sub> % | Fe <sub>2</sub> O <sub>3</sub> % | Al <sub>2</sub> O <sub>3</sub> % | SO <sub>3</sub> % | P <sub>2</sub> O <sub>5</sub> % | K <sub>2</sub> O% | Na <sub>2</sub> O% | LOI%  |
|------|-------|-------|--------------------|----------------------------------|----------------------------------|-------------------|---------------------------------|-------------------|--------------------|-------|
| Min. | 0.39  | 0.73  | 1.37               | 1.01                             | 0.33                             | 0.01              | 0.01                            | 0.10              | 0.01               | 1.56  |
| Max. | 31.78 | 18.57 | 81.61              | 7.48                             | 17.70                            | 0.05              | 0.12                            | 8.88              | 4.46               | 45.63 |
| Avg. | 19.72 | 12.30 | 26.29              | 2.97                             | 7.34                             | 0.02              | 0.05                            | 3.03              | 0.40               | 27.62 |

- d) In view of the above, MECL requested for closure of the project.
- e) The TCC-1 observed the progress and out come of exploration in the block and agreed for pre-closure of the block with revised cost of ₹21.06 Lakhs as given at Annexure 7.

**Recommendation TCC-1:**

**The TCC recommended for pre-closure of the block with revised cost of ₹21.06 Lakhs as given at Annexure 7.**

**Agenda 75.3.16. Reconnaissance Survey (G-4) for Gold in Bargur Block, Krishnagiri District, Tamil Nadu.**

**[Implementing Agency: MECL]**

- a) MECL informed that the project was approved in the 33<sup>rd</sup> EC Meeting held on 19<sup>th</sup> February, 2024. The sanction order was issued on 27<sup>th</sup> February, 2024 with timeline of 12 months (up to 26.02.2025) and approved cost was INR 2,50,28,266/-.
- b) MECL informed that Phase-I work was concluded by 16th September 2024, which included geological mapping at 1:12,500 scale over 157.50 sq.km and collection of

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200 surface samples (BRS/Channel) from target host rocks such as amphibolite, sheared amphibolite with quartz-carbonate veins/BI and meta-chert. Twenty samples shown gold values range from 0.05ppm to 0.21 ppm Au from the area. One bedrock sample (amphibolite with quartz vein) collected from Bangaragunta old working has shown 0.21 g/t Au & one sample quartz vein with amphibolite from Sakalagunta old working shown 0.19 g/t Au. Based on the outcome, two old working bearing areas (Banagarugunta -1.3 sq.km. & Sakalagunta-1.76 sq.km.) have been demarcated as promising zones.

- c) MECL apprised that work progress of Phase-I was reviewed in 71<sup>th</sup> TCC meeting held on 25 & 26<sup>th</sup> Nov, 2024 and as the area in the extension of the old workings are under soil cover, MECL was advised to initiate geophysical surveys so as to plan for drilling. MECL commenced Ground Geophysical survey work (IP cum Resistivity, SP & Magnetic) totalling 30Lkm (18Lkm+12L km) in Bargur Block on 1<sup>st</sup> Feb, 2025 & survey work is in progress.
- d) MECL informed that one area (Sakalagunta) falls in forest area and application forest permission on was applied 20-01-2025 but permission has not yet been obtained.
- a) MECL informed that as on date, total 19.60 Lkm Geophysical survey work was completed and balance work is expected to be completed by Apr,2025. All balance works (Geophysical survey, scout drilling, chemical analysis) are expected to be completed by the end of August, 2025 tentatively. Hence, MECL requested for 6 months' time extension upto 26<sup>th</sup> August, 2025
- b) TCC-1 noted the progress and advised MECL to come with Geophysical interpretation along with scout drilling plan in next TCC meeting. TCC-1 agreed for time extension upto 26th May 2025.

**Recommendation TCC-1:**

***The TCC recommended 3 months' time extension upto 26th May 2025 for GR submission. MECL should present the outcome of Geophysical Survey in the 76th TCC-1 Meeting based on which drilling will be decided as the BRS analytical values demonstrated are not encouraging.***

**Agenda 75.3.17. Reconnaissance Survey (G-4) for REE in Rudrawathi Block, Tiruppur District, Tamil Nadu.**

**[Implementing Agency: MECL]**

- a) MECL informed that the project was approved in the 28<sup>th</sup> EC Meeting held on 16<sup>th</sup> March, 2023. The sanction order was issued on 27<sup>th</sup> March, 2023 with timeline of 12 months and approved cost was INR 71,82,943/-.
- b) MECL informed that resource was estimated, as not in the approved scope of work. The GR for the project was submitted on 26<sup>th</sup> June 2024. Further, the block was upgraded G-3 Level exploration in Maravapaliyam Block ('Preliminary Exploration (G3) for REE Mineralization in Maravapaliyam Block, Tiruppur District, Tamil Nadu') in the 37<sup>th</sup> EC of NMET held on 23<sup>rd</sup> September 2025.
- c) MECL request for approval of 25% Exploration Incentive (SoC- clause 6(i)) of ₹ 17,75,188.50/- against Rudrawathi Block, Tiruppur, Tamil Nadu (G-4) under critical & Strategic Minerals as per Revised EI circular dated 3<sup>rd</sup> October 2023 and MMDR Amendment Act 2023.
- d) In view of above, TCC-1 recommended 25% Exploration Incentive of ₹ 17,75,188.50/- against Rudrawathi Block, Tiruppur, Tamil Nadu (G-4).

**Recommendation TCC-1:**

***The TCC recommended 25% Exploration Incentive of ₹ 17,75,188.50/- against Rudrawathi Block, Tiruppur, Tamil Nadu (G-4).***

  
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**Agenda 75.3.18. Preliminary Exploration for Limestone in Rupapeth Block Chandrapur District: Maharashtra.**  
**[Implementing Agency: Gemcokati Exploration Pvt. Ltd.]**

- a) Gemcokati informed that the project was approved in the 35<sup>th</sup> EC Meeting held on 16<sup>th</sup> May, 2024. The sanction order was issued on 10<sup>th</sup> June, 2024 with timeline of 10 months (up to 09.04.2025) and approved cost was INR 95,99,632/-.
- b) TCC-1 was informed that the exploration work has been completed and draft GR is being completed.
- c) Gemcokati informed that two blocks, one having dolomite and one having limestone can be carved out for ML and CL. The total dolomite is estimated at 20.22 million tons with dolomite bearing potential area about 80 hectares. The total estimated limestone resource in the block is 15.17 million tons with limestone (Blendable/beneficial for cement manufacturing) bearing potential area is about 300 hectares.
- d) In view of above, the TCC-1 was requested for an extension of two months for peer review and final submission of report from 10<sup>th</sup> April' 2025 to 30<sup>th</sup> June' 2025. Also, approval for additional costing of 12m [300m to 312m] amounting to ₹ 81,300/+ (18% GST) ie.Rs-14,634/ = 95,934/- (Rupees ninety-five thousand nine hundred thirty-four) was sought from TCC-1.
- e) The TCC-1 appreciated the work carried out in the block with special reference to the geological map prepared for the block. TCC-1 and agreed for time extension upto 30<sup>th</sup> June 2025 for GR submission after peer review. TCC-1 did not agree for additional cost .

**Recommendation TCC-1:**

***The TCC approved time line extension upto 30<sup>th</sup> June 2025 for GR submission. However, the additional cost of Rs. 95,934/- (Rupees ninety-five thousand nine hundred thirty-four) towards the excess drilling of 12m is not approved as the same was not brought to the notice of the committee in advance.***

**Agenda 75.3.19. Preliminary Exploration (G3) for Limestone in Sawalhiri (East) Block, District Chandrapur, Maharashtra.**  
**[Implementing Agency: GemcoKati Exploration Pvt. Ltd.]**

- a) Gemcokati Exploration Pvt. Ltd. informed that the project was approved in the 35<sup>th</sup> EC Meeting held on 16<sup>th</sup> May, 2024. The sanction order was issued on 10<sup>th</sup> June, 2024 with timeline of 10 months (up to 09.04.2025) and approved cost was INR 86,70,545/-.
- b) TCC-1 was informed that the exploration work has been completed and draft GR is being prepared.
- c) Gemcokati informed that the progress was presented in the 73rd TCC-1 and committee had advised GemcoKati to expedite the work.
- d) GemcoKati informed that 3 out of 5 BHs were pending due to non-receipt of forest permission. Since , timeline project is being exhausted on 09.04.2025, GemcoKati requested for extension up to 30<sup>th</sup> June 2025 .

**Recommendation TCC-1:**

***The TCC-1 approved timeline extension upto 30<sup>th</sup> June 2025 for GR submission due to FC pending and completion of two boreholes.***

  
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**Agenda 75.3.20. Reconnaissance Survey (G4 Stage) for Graphite in Nawadih Block (32.04 sq.km.), District: Balrampur, State: Chhattisgarh.**  
**[Implementing Agency: UEIPL]**

- a) UEIPL informed that the project was approved in the 30th EC Meeting held on 06th June, 2023. The sanction order was issued on 26th June, 2023 with timeline of 06 months and approved cost was INR 27,72,193/-.
- b) The committee was apprised that the GR has already been submitted to NMET Secretariat after incorporation of peer review comments. However, AS, Mines instructed UEIPL to resubmit the GR after incorporation of trenching details. In view of the same, 37th EC had approved time extension upto 30.11.2024.
- c) UEIPL informed that forest permission for exploration work in the area was received on 10.03.2024. UEIPL has started pitting and completed 20 nos of pits. And 55 more pits will be completed within 15-20 days. Considering the same TCC-1 was requested to extend a time extension over 7 months for completion of the remaining project work.

**Recommendation TCC-1:**

***The TCC recommended 7 months' timeline extension upto 30<sup>th</sup> June 2025.***

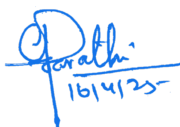
**Agenda 75.3.21. Preliminary exploration for PGE, Ni, Cr, Cu, PGE, u, REE in mafic ultramafic bodies in Hadanur-Tagadur Belt, Mandya District, Karnataka.**  
**(reviewed additionally)**

**[Implementing Agency: M/S GeoExpore Pvt. Ltd]**

- a) Geoexpore informed that the Committee had agreed 10 samples for petrographic study amounting to ₹49,938, and enhancement of Peer Reviewer's charges to ₹ 30000 along with revision of GR title to "Reconnaissance Survey (G4) For Ni-Cr-Cu, PGE-Au-REE Around Aichanahalli – Chokkanahalli areas, Hadanur-Tagadur Belt, Mandya District, Karnataka" in the 70<sup>th</sup> TCC-1 meeting.
- b) GeoExpore sought clarification of the TCC regarding GST against peer review charges.
- c) The Committee opined that EC had accorded approval of payment of ₹30,000 (Rupees Thirty Thousand only) as Honorarium for peer review of final reports.
- d) In view of the same GST charges are not levied on the same.
- e) TCC-1 advised to discuss the matter with the finance wing of NMET and clear the doubts of DMG, Karnataka.

**Recommendation TCC-1:**

***The TCC-1 opined that GST charges are not taken into consideration for Honorarium to Peer Reviewers. Further, the committee advised the NMET team at Delhi to discuss the matter with the finance team of NMET to clear the doubts of DMG, Karnataka for making the payments to GeoExpore for carrying out the chemical analysis by outsourcing.***

  
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## Agenda 75.4, Review of Ongoing Procurement Project & Time line Extension

### **Agenda 75.4.1. Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities.**

**[Implementing Agency: DGM Maharashtra]**

- a) DGM, Maharashtra informed that the project was approved in 27th EC meeting held on 10th January, 2023. Sanction order was issued on 24th March, 2023 with timeline of 12 months and approved cost of ₹ 4, 42, 61,500/- (Rs. Four crore forty two lakhs sixty one thousand five hundred only).
- b) The committee was informed that in the 39<sup>th</sup> EC of NMET, time extension for the project was given till 15<sup>th</sup> March 2025 as the procurement could not be completed within the approved timeline.
- c) Now, the DGM Maharashtra informed the committee that the purchase of majority of instruments has been processed and work orders have been issued based on allocated funds. However, for some of the items the L1 cost exceeded the sanctioned amount and made the total cost exceeding the approved cost by ₹1.11 Crores. DGM, Maharashtra decided to bear the excess cost through state funds. However, the decision was not approved by the State Government as the amount was exceeding more than 10% of the approved cost and advised DGM to reinstate the tendering process of the items whose L1 costs were exceeding the sanctioned amount.
- d) Accordingly, retendering was done for eight items under 5 tenders
- e) The current status of procurement is as given below:

| S. No. | Section                                              | Name of the Items                                      | FUND | NMET Sanction Fund (Rs. ) | Work Order Allotted Yes/ No | Remarks                                                                             |
|--------|------------------------------------------------------|--------------------------------------------------------|------|---------------------------|-----------------------------|-------------------------------------------------------------------------------------|
| A      | B                                                    | C                                                      | D    | E                         | G                           | 1                                                                                   |
| 1      | Geological and Sample Processing Items / Instruments | Rock cutting machines floor mounted                    | NMET | 180,000.00                | No                          | Re-Tender underway                                                                  |
| 2      |                                                      | Section grinding / polishing machine-double disc.      |      | 180,000.00                | o                           | Re-Tender underway                                                                  |
| 3      |                                                      | Section mounting Press-spring type                     |      | 16,500.00                 | No                          | Re-Tender underway                                                                  |
| 4      |                                                      | Core cutting machine                                   |      | 170,000.00                | No                          | Re-Tender underway                                                                  |
| 5      |                                                      | Pol Trinocular Research Microscope with imaging system |      | 2,520,000.00              | Yes                         | Work order allotted. & Payment Completed                                            |
|        |                                                      | Pelcon automatic point counter                         |      |                           | No                          | Re-Tender underway                                                                  |
| 6      |                                                      | XMET 8000 Expert Geo handheld Analyzer                 |      | 3,000,000.00              |                             | Re-Tender Completed                                                                 |
| 7      | Chemical Laboratory Instruments                      | ICP-MS                                                 |      | 17,000,000.00             | No                          | Re-Tender Completed                                                                 |
| 8      |                                                      | Crusher                                                |      | 3,000,000.00              | Yes                         | Work order allotted. & Payment Completed.                                           |
| 9      |                                                      | Vibratory Cup Mill                                     |      |                           | Yes                         | Work order allotted. & Payment Completed                                            |
| 10     |                                                      | Pulveriser                                             |      |                           | yes                         | The work will completed by item number 8 & 9, so there is no need to buy it afresh. |
| 11     | Drilling activities Instruments / Items              | Drilling Rig Truck Mounted                             |      | 8,000,000.00              | No                          | Re-Tender Completed                                                                 |
| 12     |                                                      | Drilling Rig Tractor Mounted                           |      | 10,195,000.00             | Yes                         | Work order allotted & Payment Completed.                                            |
| 13     |                                                      | Reciprocating Pump Set (Trolley Mounted)               |      |                           | Yes                         |                                                                                     |
| 14     |                                                      | Centrifugal Pumping Set (Multi Stage 2 Cylinder)       |      |                           | Yes                         |                                                                                     |
| 15     |                                                      | NQ Drill Rod 3 Meter Long                              |      |                           | Yes                         |                                                                                     |
| 16     |                                                      | 6" Casing Plug to N W Box                              |      |                           | Yes                         |                                                                                     |

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| 17 |                                        | NQ Core Barrel 3 Meter Long |  |                | Yes |                  |
| 18 |                                        | NX Casing Diamond Bit       |  |                | Yes |                  |
|    | Total                                  |                             |  | 44,261,500.00  |     |                  |
|    | Pulveriser Amount to be Return to NMET |                             |  | 10,00,000.00   |     | Item Surrendered |
|    | Total                                  |                             |  | 4,32,61,500.00 |     |                  |

- f) In view of above DGM Maharashtra sought time extension upto 31<sup>st</sup> May 2025 for completion of procurement.
- g) Upon review, the committee agreed for time extension upto 31<sup>st</sup> May 2025 and agreed for the additional cost of the approved items to be met through State funds. The committee agreed for surrender of pulveriser.

#### **Recommendation TCC-1**

**The TCC-1 recommended time extension up to 31<sup>st</sup> May 2025 for completion of procurement process.**

**Agenda 75.4.2. Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities.**  
**[Implementing Agency: IBM]**

*(Proposal discussed and approved through email circulation)*

### **75.5. Project Evaluation for in-Principle Approval**

**Agenda.75.5.1. Preliminary Exploration (G3) for Iron ore deposit in Pachudaiyanpalaiyam Block, Namakkal and Salem District, Tamil Nadu.**  
**[Implementing Agency: APC Drilling & Construction Private Limited.]**

- The proposed area forms a part of SOI toposheet no. No. 58I/07.
- During the field season 2016-17, GSI identified 3 iron bearing blocks three from west to east which includes the proposed Pachudaiyanpalaiyam Block.
- In Pachudaiyanpalaiyam Block, resource estimated after assuming a prognosticated depth of 30m as per the Standard of Procedures Mission-II (SOP-M- II).
- The committee found that the proposed block completely falls within GM block prepared by GSI from the base work of G4 stage investigation carried out during 2016-17.

#### **Recommendations of TCC-1:**

***The committee did not approve the proposal.***

**Agenda.75.5.2. Preliminary Exploration(G3) for Iron ore deposit in Ulipuram Block, Namakkal and Salem District, Tamil Nadu.**  
**[Implementing Agency: APC Drilling & Construction Private Limited.]**

- The proposed area forms a part of SOI toposheet no. No. 58 I/07.
- During the field season 2016-17, GSI carried out a Reconnaissance survey (G4) for Iron Ore in the Banded Magnetite Quartzite (BMQ). Based on the disposition of the BMQ bands, three Blocks were identified from west to east including Ulipuram Block.
- The committee was informed that this block too falls within GM prepared by GSI from the base work of G4 stage investigation. Moreover, CGM, TN informed that the area is

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not feasible for iron ore exploration because the area has been reported for multielement occurrences including magnesite.

**Recommendations of TCC-1:**

***The committee did not approve the proposal.***

**Agenda.74.5.3. Preliminary Exploration (G3) for REE Mineralization in Temna-Barwahi Block, Balrampur Ramanujan District, Chhattisgarh.**

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

- a) The proposed area falls in the SOI toposheet no. No. 53PI/8.
- b) GSI conducted G4 Stage exploration and reported many allanite bearing pegmatite bodies around Anandpur Area, Balrampur District showing REE values upto 2951.37 ppm.
- c) BRS as well as stream sediment samples analysed during the study reported anomalous zones in central, southwestern, northeastern and southeastern parts.
- d) APC Drilling & Construction Private Limited has proposed G3 stage proposal in Southwestern part covering maximum number of pegmatite bodies.
- e) The item was proposed in the 74<sup>th</sup> TCC but was not approved by the committee. Instead, the committee advised APC Drilling & Construction Private Limited to visit the area, collect samples, and present the analytical results if promising.
- f) After reviewing the item in the 75<sup>th</sup> TCC, the committee found that APC had conducted a field visit and collected samples, however, the analytical data is still awaited. Additionally, it was observed that the proposed area overlaps by approximately 50% with DMG's graphite investigation area.
- g) The committee was informed that the block is part of the area explored by AMD for Uranium and reported with U above the threshold values.

**Recommendations of TCC-1:**

***The committee did not approve the item because APC Drilling & Construction Private Limited could not present the analytical data of the samples collected from the field. However, the committee recommended APC Drilling & Construction Private Limited to present again in next TCC.***

**Agenda.75.5.4. Reconnaissance Survey (G4) for Graphite, Manganese and associated Minerals in Pittada-Mentada- Golupallem area, Vizianagaram district, Andhra Pradesh.**

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

- a) The proposed area forms a part of SOI toposheet no. No. 65N/3 & N/7.
- b) This item was also proposed in the 74<sup>th</sup> TCC. After a detailed review, the committee did not approve it but advised APC Drilling & Construction Private Limited to visit the area, collect samples, and, if the analytical values were encouraging, APC might seek in-principle approval.
- c) However, APC did not present the item as they were unable to conduct fieldwork and sampling.

**Recommendations of TCC-1:**

***APC did not present the item as they were unable to conduct fieldwork and sampling. Hence, the proposal was not reviewed.***

**Agenda.75.5.5. Reconnaissance Survey (G4) for Marrikonda Graphite area, Alluri Sitharama Raju District, Andhra Pradesh.**

**[Implementing Agency: GMMCO Technology Services Ltd]**

  
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- a) The proposed area falls in the SOI toposheet no. No. 65G/15.
- b) GSI reported graphite occurrences near Marripalem village in 1951 and later identified potential anomalies through a self-potential survey in 1983-84.
- c) The committee was informed that the proposed area falls within the area which has already been handed over as EL. Moreover, it is overlapping with ongoing mineral based STM of GSI

**Recommendations of TCC-1:**

***The committee did not approve the proposal.***

  
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**Annexure 1**

**List of participants attended 75<sup>th</sup> meeting of Technical-cum-cost Committee  
(TCC-1) of NMET held on 27<sup>th</sup> and 28<sup>th</sup> March, 2025 through video conferencing mode**

| S.no | Name                         | Designation                                                          | Email ID                        | Contact No               | Organization              |
|------|------------------------------|----------------------------------------------------------------------|---------------------------------|--------------------------|---------------------------|
| 1    | Dr. S. Ravi,                 | Dy. Director General,<br>GSITI, GSI Hyderabad                        | s.ravi1@gsi.gov.in              | 9441138834               | Chairman, TCC-1           |
| 2    | Shri. I.R.<br>Kirmani        | ADG (Retd.), GSI                                                     | irkirmani@yahoo.com             | 9414014723               | Member TCC-1              |
| 3    | Shri. Hemraj<br>Suryavanshi  | Addl. Director General<br>(Retd.), GSI                               | hemraj.nmet@gmail.com           | 9425603674<br>7477042176 | Member TCC-1              |
| 4    | Shri. K.<br>Koteswara<br>Rao | Dy.D.G. (Retd.) GSI                                                  | kkrao1957@gmail.com             | 9000117969               | Member TCC-1              |
| 5    | Dr. S. K.<br>Kulshrestha     | DDG-RMH-III, NER,<br>GSI, Shillong                                   | s.kulshrestha@gsi.gov.in        | 9413330658               | Member TCC-1              |
| 6    | Dr. E.V.S.S.K.<br>Babu       | Scientist (G), NGRI                                                  | evsskbabu@ngri.res.in           | 9441535852               | Member TCC-1              |
| 7    | Shri. K. L.<br>Mundra        | Additional Director,<br>AMD, Hyderabad                               | klmundra.amd@gov.in             | 9414785663               | Member TCC-1              |
| 8    | Shri. S.K.<br>Adhikari       | Chief Mining Geologist,<br>IBM, Nagpur                               | skadhikari@ibm.gov.in           | 7588690545               | Member TCC-1              |
| 9    | Shri. P.K.<br>Maharana       | DGM (Finance),<br>NALCO, Bhubaneswar                                 | pmaharana@rediffmail.com        | 8500669500               | Member TCC-1              |
| 10   | Shri. Ravi<br>Kumar Gupta    | General Manager<br>(Finance) HCL, Kolkata                            | ravi_g@hindustancopper.com      | 9433274328               | Member TCC-1              |
| 11   | Smt. Vandana                 | Cost Accounts Officer,<br>RSAS, Bangalore, GSI                       | vandana@gsi.in                  | 8660939235               | Member TCC-1              |
| 12   | Shri. C.<br>Parthasarathi    | Director, GSI &<br>Member Secretary,<br>TCC- NMET, GSI,<br>Bengaluru | c.parthasarathi@gsi.gov.in      | 9483186932               | Member Secretary<br>TCC-1 |
| 13   | Shri P.<br>Ravindran         | GM (Exploration)                                                     | ravindran.mecl@gmail.com        | 9407607309               | MECL, Nagpur              |
| 14   | Shri Shrikant<br>Sharma      | Head (Exploration)                                                   | shrikant.mecl@gmail.com         | 9131229758               | MECL, Nagpur              |
| 15   | Shri S. K.<br>Satapathy      | Senior Manager<br>(Geology)                                          | Sksatapathy4u@gmai.com          | 9993617090               | MECL, Nagpur              |
| 16   | Shri Swarup<br>Dhara         | Manager (Geology)                                                    | swarupdhara@gmail.com           | 9630307282               | MECL, Nagpur              |
| 17   | Md. Dastageer                | Manager (Geology)                                                    | dastageermd@gmail.com           | 9560739350               | MECL, Nagpur              |
| 18   | Shri<br>Bhuneshwar<br>Kumar  | Manager (Geology)                                                    | bhuneshwarkumar@mecl.gov.i<br>n | 9437063532               | MECL, Nagpur              |

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|----|-------------------------------|--------------------------------------------------|-----------------------------------|--------------------------|---------------------------------|
| 19 | Dr Shuva Shankha Ganguli      | Director (Geophysics), NM-1B, CHQ                | shuva.ganguli@gsi.gov.in          | 8985409410<br>8074772431 | Geological Survey on India, CHQ |
| 20 | Dr. Bijay Krishna Nandi       | Deputy Director General(Geophysics) & NMH1B, CHQ | bijay.nandi@gsi.gov.in            | 7044062193               | Geological Survey on India, CHQ |
| 21 | Dr. Sabyasachi Nag            | Senior Geophysicist, NM1B, CHQ                   | sabyasachi.nag@gsi.gov.in         | 8637516529               | Geological Survey on India, CHQ |
| 22 | Shri. Balkrishan vishawakarma | Manager(Geology)                                 | Balkrishan.v@maheshwaree.com      | 9651143638               | Maheshwari Mining Pvt Ltd       |
| 23 | Shri. Rupan Roy               | Geologist                                        | rupan.roy@maheshwaree.in          | 7872952135               | Maheshwari Mining Pvt Ltd       |
| 24 | Shri. Promit roy              | Geologist                                        | promit.roy@maheshwaree.in         | 6289104640               | Maheshwari Mining Pvt Ltd       |
| 25 | Ms. Moulipriya Bhakta         | Deputy Manager (geology)                         | moulipriya.bhakta@maheshwaree.com | 7890631970               | Maheshwari Mining Pvt Ltd       |
| 26 | Shri. Palani Murugan A        | Senior Manager                                   | bmed@kioclltd.in                  | 9738874282               | KIOCL Limited, Bengaluru        |
| 27 | Shri. Mohan Raj D             | Consultant                                       | bmed@kioclltd.in                  | 9765980957               | KIOCL Limited, Bengaluru        |
| 28 | Shri. Dnyaneshwar Gaonkar     | Deputy Manager                                   | bmed@kioclltd.in                  | 9945258578               | KIOCL Limited, Bengaluru        |
| 29 | Dr. Hema HC                   | Geologist                                        | bmed@kioclltd.in                  | 9972487412               | KIOCL Limited, Bengaluru        |
| 30 | Shri. Vipin Kumar             | Geologist                                        | bmed@kioclltd.in                  | 6394552026               | KIOCL Limited, Bengaluru        |
| 31 | Shri. Harish H P              | Deputy Director                                  | ddpmdmagg1@gmail.com              | 9611951313               | DMG, Karnataka                  |
| 32 | Shri. Udayaravi M P           | Geologist                                        | udayaravimp@gmail.com             | 9535847039               | DMG, Karnataka                  |
| 33 | Shri. Ravi Kumar M R          | Geologist                                        | ravikumar.mr01@gmail.com          | 9880030510               | DMG, Karnataka                  |
| 34 | Shri. Rajdeep Behera          | Manager(Geology)                                 | rajdeep.behera@odishamining.in    | 9438786086               | OMC Ltd                         |
| 35 | Dr. Lingaraj Sahoo            | Sr. Manager(Geology)                             | lingaraj.sahoo@odishamining.in    | 9437603370               | OMC Ltd                         |
| 36 | Shri. Pravasa Ranjan Chinara  | Program Manager, STC                             | pravasa@idpex.in                  | 8349201158               | OMC Ltd                         |

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|----|-----------------------------|------------------------------------------|--------------------------------------------------------------------------|-------------------------|--------------------------------------------|
| 37 | Dr. Vinay Sahay             | Sr. Manager (Geology)                    | vinay.sahay@geologist.com                                                | 9730514284              | Gemco kati Exploration Pvt Ltd, Chandrapur |
| 38 | Shri. Tejeswar Barik        | Jr. Geologist                            | tejeswarbarik73@gmail.com                                                | 6294601759              | Gemco kati Exploration Pvt Ltd, Chandrapur |
| 39 | Ms Devika Nagpure           | Jr. Geologist                            | devikanagpure2018@gmail.com                                              | 8408986492              | Gemco kati Exploration Pvt Ltd, Chandrapur |
| 40 | Shri. Kaustav Bhattacharjee | Jr. Geologist                            | kaustavbhattacharjee18@gmail.com                                         | 8637848584              | Gemco kati Exploration Pvt Ltd, Chandrapur |
| 41 | Shri. Amit kumar Sahoo      | Jr. Geologist                            | materbbm963@gmail.com                                                    | 7008428887              | Gemco kati Exploration Pvt Ltd, Chandrapur |
| 42 | Smt. Deepa                  | Joint Director                           | cgmchennai32@gmail.com                                                   | 044-22501874/9444682998 | CGM, Chennai                               |
| 43 | Shri. S. Soma Rama Murthy   | Director - Geology & Mineral Exploration | criticalmineraltrackers@gmail.com                                        | 9490685131              | Critical Mineral Trackers                  |
| 44 | Dr. G. Nagendra Babu        | Technical Area Expert                    | criticalmineraltrackers@gmail.com                                        | 9441184740              | Critical Mineral Trackers                  |
| 45 | Shri. Vikram K.Y            | Director- Operations,HR,Admin,Finance    | criticalmineraltrackers@gmail.com                                        | 9849574333              | Critical Mineral Trackers                  |
| 46 | Shri. K. Nageswara Rao      | Director- Geology,PR & Co-ordination     | criticalmineraltrackers@gmail.com                                        | 7893847742              | Critical Mineral Trackers                  |
| 47 | Shri. S. Uma Maheswara Rao  | Director - Geology & Mineral Exploration | criticalmineraltrackers@gmail.com                                        | 7993935619              | Critical Mineral Trackers                  |
| 48 | Shri Rajeev Kumar singh     | -                                        | <a href="mailto:gmexpl.cmpdi@coalindia.in">gmexpl.cmpdi@coalindia.in</a> | 8969397892              | CMPDI                                      |
| 49 | Dr. Shirish. M. Naik        | Sr. Geologist                            | director@mahadgm@gmail.com                                               | 9420645793              | DGM Maharashtra                            |
| 50 | Representative              |                                          |                                                                          |                         | DMG Odisha                                 |
| 51 | Shri Sanjay Kankane         | Joint Director (Geology)                 | skankane@hotmail.com                                                     | 9826753151              | DGM Chhattisgarh                           |
| 52 | Shri Kailash Dongre         | Joint Director (Geology)                 | kailashdongre.kd@gmail.com                                               | 9424282791              | DGM Chhattisgarh                           |
| 53 | Representative              |                                          |                                                                          |                         | IBM                                        |
| 54 | Shri. Mallikarjun Banagar   | CGM (Exploration)                        | cgmexploration@apcdrilling.co                                            | 9422801575              |                                            |

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|    |                      |                          |                               |            |                                             |
|----|----------------------|--------------------------|-------------------------------|------------|---------------------------------------------|
| 55 | Shri. Ramesh Shastry | GM (Exploration)         | gmexploration@apcdrilling.co  | 9980544027 | APC Drilling & Construction Private Limited |
| 56 | Shri. Atul Rathore   | DGM<br>(Exploration)     | dgmexploration@apcdrilling.co | 7011884417 |                                             |
| 57 | Representative       |                          |                               |            | GMMCO Technology Services Ltd               |
| 58 | Smt. Anju C.S        | Superintending Geologist | nmet-mines @gov.in            | 8588836933 | NMET Sectt.                                 |
| 59 | Dr. B. Mondal        | Superintending Geologist | tcc.nmet.2023@gmail.com       | 9784700207 | TCC-1, NMET                                 |
| 60 | Smt. Palak Kapoor    | Senior Geologist         | nmet-mines @gov.in            | -          | NMET Sectt.                                 |
| 61 | Shri. Rajesh Sharma  | Senior Geologist         | nmet-mines @gov.in            | -          | NMET Sectt.                                 |
| 62 | Shri. Akshay Verma   | Geologist                | nmet-mines @gov.in            | 9911258955 | NMET Sectt.                                 |

*Dr. B. Mondal*  
16/09/2025

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## Annexure 2A

**Estimated cost for Preliminary Exploration (G-3 ) for Aluminous Laterite, Vanadium and Associated Minerals in Kolathur Block, Districts:**  
**Kasaragod, State: Kerala**  
**[Block area-6.56 sq. km; Schedule timeline- 12 months; BH-20 nos; Drilling- 600m; Review- After 4 & 8 months]**  
**Agency : MECL**

| S. No. | Item of Work                                                                               | Unit | Rates as per NMET SoC 2020-21 |                  | Estimated Cost of the Proposal |             | Remarks                                                                                                                             |
|--------|--------------------------------------------------------------------------------------------|------|-------------------------------|------------------|--------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------|
|        |                                                                                            |      | SoC-Item -SI No.              | Rates as per SoC |                                |             |                                                                                                                                     |
|        |                                                                                            |      |                               |                  | Qty.                           | Amount (Rs) |                                                                                                                                     |
| A      | GEOLOGICAL WORK (1:4000 scale) & TOPOGRAPHICAL SURVEY (1:4000 scale)                       |      |                               |                  |                                |             |                                                                                                                                     |
| i      | Charges for one Geologist- Field                                                           | day  | 1.3                           | 11,000           | 120                            | 13,20,000   |                                                                                                                                     |
| ii     | Charges for one Geologist per- HQ                                                          | day  | 1.3                           | 9,000            | 45                             | 4,05,000    |                                                                                                                                     |
| iii    | 2 labours/ party (As per rates of Central Labour Commissioner)                             | day  | 5.7                           | 526              | 240                            | 1,26,240    | Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher |
| iv     | Sampling party days-1 Samplers Labour charge not included                                  | day  | 1.5.2                         | 5,100            | 130                            | 6,63,000    |                                                                                                                                     |
| v      | 4 labours/ party (As per rates of Central Labour Commissioner)                             | day  | 5.7                           | 526              | 520                            | 2,73,520    | Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher |
| vi     | Survey Party Days (Geological Mapping, Topographical contour survey and borehole fixation) | day  | 1.6. 1a                       | 8,300            | 40                             | 3,32,000    |                                                                                                                                     |
| vii    | 4 labours for surveyor                                                                     | day  | 5.7                           | 526              | 160                            | 84,160      |                                                                                                                                     |

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|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------|-------|-----|------------------|----------------------------|
|          | <b>Sub Total- A</b>                                                                                                                                                                             |      |         |       |     | <b>32,03,920</b> |                            |
| <b>B</b> | <b>PITTING AND TRENCHING</b>                                                                                                                                                                    |      |         |       |     |                  |                            |
| i        | Pitting                                                                                                                                                                                         | Cu m | 2.1.2   | 3800  | 200 | 7,60,000         |                            |
|          | <b>Sub Total- B</b>                                                                                                                                                                             |      |         |       |     | <b>7,60,000</b>  |                            |
| <b>C</b> | <b>LABORATORY STUDIES</b>                                                                                                                                                                       |      |         |       |     |                  |                            |
| <b>1</b> | <b>Chemical Analysis</b>                                                                                                                                                                        |      |         |       |     |                  |                            |
| <b>i</b> | <b>Primary &amp; Check samples for Bauxite BRS/Chip/Channel/Trench/BH samples)</b>                                                                                                              |      |         |       |     |                  |                            |
|          | a. Primary Samples for 5 radicals i.e. Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> , Fe <sub>2</sub> O <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , TiO <sub>2</sub> & LOI              | Nos  | 4.1.15a | 4,200 | 500 | 21,00,000        | BH-400, Pit-100 = 500 nos. |
|          | b. For each additional trace elements viz. V & Ga                                                                                                                                               | Nos  | 4.1.15b | 842   | 400 | 3,36,800         | From BH primary samples    |
|          | c. External (10%) Check samples for 5 radicals i.e. Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> , Fe <sub>2</sub> O <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , TiO <sub>2</sub> & LOI | Nos  | 4.1.15a | 4,200 | 50  | 2,10,000         |                            |
|          | d. External (10%) Check samples for each additional trace elements viz. V, Sc & Ga                                                                                                              | Nos  | 4.1.15b | 842   | 40  | 33,680           |                            |
|          | ICPMS - 34 elements                                                                                                                                                                             |      | 4.1.14  | 7,731 | 50  | 3,86,550         |                            |
| <b>2</b> | <b>Physical, Petrological, Mineralogical Studies</b>                                                                                                                                            |      |         |       |     |                  |                            |
| i        | Preparation of thin section                                                                                                                                                                     | Nos  | 4.3.1   | 2,353 | 10  | 23,530           |                            |
| ii       | Complete petrographic study report                                                                                                                                                              | Nos  | 4.3.4   | 4,232 | 10  | 42,320           |                            |
| iii      | Preparation of polished section                                                                                                                                                                 | Nos  | 4.3.2   | 1,549 | 10  | 15,490           |                            |
| iv       | Complete mineragraphic study report                                                                                                                                                             | Nos  | 4.3.4   | 4,232 | 10  | 42,320           |                            |

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|----------|-------------------------------------------------------------------------------------------------------------|--------------|----------|----------|-------|------------------|-----------------------------------------------------------------------------------------------------------------|
| v        | Digital Photographs                                                                                         | Nos          | 4.3.7    | 280      | 10    | 2,800            |                                                                                                                 |
| vi       | X-RD studies for mineral phase identification                                                               | Nos          | 4.5.1    | 4,000    | 20    | 80,000           |                                                                                                                 |
| vii      | ICP-AES/ICPMS (sequential technique) for 34 elements (REE+ Associated Elements)                             | Nos          | 4.1.14   | 7,731    | -     | -                | Samples to be taken from the litho merge horizons.                                                              |
| viii     | Bulk density determination                                                                                  | Nos          | 4.10     | 3540     | 5     | 17,700           |                                                                                                                 |
| ix       | Combined determination of Trihydrate Alumina (THA-140°C), Monohydrate Alumina (MHA-240°C) & Reactive Silica | Nos          | 4.1.17a  | 6700     | 5     | 33,500           |                                                                                                                 |
|          | <b>Sub Total- C</b>                                                                                         |              |          |          |       | <b>33,24,690</b> |                                                                                                                 |
| <b>D</b> | <b>DRILLING</b>                                                                                             |              |          |          |       |                  |                                                                                                                 |
| i        | Drilling upto 300m (Soft Rock) (1 rigs )                                                                    | m            | 2.2.1.1b | 7,168    | 600   | 43,00,800        |                                                                                                                 |
| ii       | Land / Crop Compensation                                                                                    | per BH       | 5.6      | 20,000   | 20    | 4,00,000         |                                                                                                                 |
| iii      | Construction of concrete Pillar (12"x12"x30")                                                               | per borehole | 2.2.7a   | 2,000    | 20    | 40,000           |                                                                                                                 |
| iv       | Transportation of Drill Rig & Truck associated per drill                                                    | Km           | 2.2.8    | 36       | 3,000 | 1,08,000         | Certification in this regard is required to be provided                                                         |
| v        | Monthly Accommodation Charges for drilling Camp (up to 2 Rigs)                                              | month        | 2.2.9    | 50,000   | 3     | 1,50,000         |                                                                                                                 |
| vi       | Drilling Camp Setting Cost                                                                                  | Nos          | 2.2.9a   | 2,50,000 | 1     | 2,50,000         |                                                                                                                 |
| vii      | Drilling Camp Winding up Cost                                                                               | Nos          | 2.2.9b   | 2,50,000 | 1     | 2,50,000         |                                                                                                                 |
| viii     | Approach Road Making                                                                                        | Km           | 2.2.10a  | 22,020   | 3     | 66,060           | Road Making will be considered as per the requirement and Road Making Charges will be reimbursed for max. 4 km. |

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| ix       | Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes by DGPS  | Nos                                   | 1.6.2                     | 19,200                                                                                                                                                    | 26  | 4,99,200           | 20 Boreholes+ 6 Block Boundary points                                                                                                 |
| x        | Drill core preservation: One complete borehole plus mineralised cores of all the remaining Bhs | m                                     | 5.3                       | 1,590                                                                                                                                                     | 600 | 9,54,000           | This amount will be reimbursed after successful delivery of the cores to concerned libraries/authorities                              |
|          | <b>Sub Total- D</b>                                                                            |                                       |                           |                                                                                                                                                           |     | <b>70,18,060</b>   |                                                                                                                                       |
| <b>E</b> | <b>Total A to D</b>                                                                            |                                       |                           |                                                                                                                                                           |     | <b>1,43,06,670</b> |                                                                                                                                       |
| <b>F</b> | <b>Geological Report Preparation</b>                                                           |                                       | <b>5.2</b>                | 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 |     | <b>7,15,334</b>    | Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.          |
| <b>G</b> | <b>Peer review Charges</b>                                                                     |                                       | <b>As per EC decision</b> |                                                                                                                                                           |     | <b>30,000</b>      |                                                                                                                                       |
| <b>H</b> | <b>Preparation of Exploration Proposal</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 lower                                                                                                        |     | <b>2,86,133</b>    | EA has to submit the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal. |
| <b>I</b> | <b>Total Estimated Cost without GST</b>                                                        |                                       |                           |                                                                                                                                                           |     | <b>1,53,38,137</b> |                                                                                                                                       |

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|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------|
| J            | Provision for GST (18% of I)                                                                                                                                                                                                                                                | 27,60,865   | GST will be reimburse as per actual and as per notified prescribed rate |
| K            | Total Estimated Cost with GST                                                                                                                                                                                                                                               | 1,80,99,002 |                                                                         |
|              | Rs. In Lakhs                                                                                                                                                                                                                                                                | 180.99      |                                                                         |
| <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.                                                                                                                                                                          |             |                                                                         |

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## Annexure 2B

**Time Schedule/ Action Plan for Preliminary Exploration (G-3 ) for Aluminous Laterite, Vanadium and Associated Minerals in Kolathur Block, Districts: Kasaragod, State: Kerala**

| S. No. | Particulars                                     | Months/<br>Days | 1 | 2 | 3 | 4 | Review | 5 | 6 | 7 | 8 | Review | 9 | 10 | 11 | 12 |
|--------|-------------------------------------------------|-----------------|---|---|---|---|--------|---|---|---|---|--------|---|----|----|----|
| 1      | Camp Setting                                    | months          |   |   |   |   |        |   |   |   |   |        |   |    |    |    |
| 2      | Geological Mapping & Geochemical Sampling       | months          |   |   |   |   |        |   |   |   |   |        |   |    |    |    |
| 3      | Survey days (Topographic survey & BH/BB survey) | days            |   |   |   |   |        |   |   |   |   |        |   |    |    |    |
| 5      | Trenching/Pitting                               | cu.m            |   |   |   |   |        |   |   |   |   |        |   |    |    |    |
| 6      | Drilling (2 rigs)                               | m               |   |   |   |   |        |   |   |   |   |        |   |    |    |    |
| 7      | Geologist days                                  | days            |   |   |   |   |        |   |   |   |   |        |   |    |    |    |
| 8      | Sampling days, BRS, Pit & Core Sampling         | days            |   |   |   |   |        |   |   |   |   |        |   |    |    |    |
| 9      | Camp winding                                    | months          |   |   |   |   |        |   |   |   |   |        |   |    |    |    |
| 10     | Laboratory Studies                              | months          |   |   |   |   |        |   |   |   |   |        |   |    |    |    |
| 11     | Geologist days, HQ                              | days            |   |   |   |   |        |   |   |   |   |        |   |    |    |    |
| 12     | Report Writing with Peer Review                 | months          |   |   |   |   |        |   |   |   |   |        |   |    |    |    |

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**Annexure 3A**

**Estimated cost for Reconnaissance Survey (G-4) for REE and associated minerals in Ektala-Rajanpali and Jogiapali-Govindpur areas, District: Nayagarh, Odisha. [Block area- 127.00 sq. km; Nos. of Borehole (Auger 150m)- 20; Core Drilling: 200m Borehole depth range: 40-50m; Schedule timeline- 10 Months , Review : 4 & 8 months]  
Agency : MECL**

| S. No.   | Item of Work                                                                         | Unit | Rates as per NMET SoC 2020-21 |                  | Estimated Cost of the Proposal |             | Remarks                                                                                                                              |
|----------|--------------------------------------------------------------------------------------|------|-------------------------------|------------------|--------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------|
|          |                                                                                      |      | SoC-Item & SI No.             | Rates as per SoC | Qty.                           | Amount (Rs) |                                                                                                                                      |
| <b>A</b> | <b>GEOLOGICAL WORK</b>                                                               |      |                               |                  |                                |             |                                                                                                                                      |
| <b>1</b> | <b>Geological Mapping (1:12500), Borehole logging, sampling &amp; Report writing</b> |      |                               |                  |                                |             |                                                                                                                                      |
| i        | Charges for one Geologist- Field                                                     | day  | 1.2                           | 11,000           | 150                            | 16,50,000   |                                                                                                                                      |
| ii       | Charges for one Geologist - HQ                                                       | day  | 1.2                           | 9,000            | 45                             | 4,05,000    |                                                                                                                                      |
| iii      | 2 labours/ party (Rs 522/day/labour) (As per rates of Central Labour Commissioner)   | day  | 5.7                           | 526              | 300                            | 1,57,800    | Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher |
| iv       | Core Sampling -1 Samplers Labour charge not included                                 | day  | 1.5.2                         | 5,100            | 32                             | 1,63,200    |                                                                                                                                      |
| v        | 4 labours/ party (Rs 526/day/labour) (As per rates of Central Labour Commissioner)   | day  | 5.7                           | 526              | 128                            | 67,328      | Amount will be reimburse as per the notified rates by the Central Labour                                                             |

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|----------|------------------------------------------------------------------|--------------|----------|----------|-------|------------------|------------------------------------------------------------------------------------------------------------|
|          |                                                                  |              |          |          |       |                  | Commissioner or respective State Govt. whichever is higher                                                 |
|          | <b>Sub Total- A</b>                                              |              |          |          |       | <b>24,43,328</b> |                                                                                                            |
| <b>B</b> | <b>Pitting</b>                                                   |              |          |          |       |                  |                                                                                                            |
|          | Pitting<br>(For orientation and Heavy Mineral Separation Sample) | Cu. m.       | 2.1.2    | 3800     | 20    | 76,000           |                                                                                                            |
|          | <b>Sub Total- B</b>                                              |              |          |          |       | <b>76,000</b>    |                                                                                                            |
| <b>C</b> | <b>DRILLING</b>                                                  |              |          |          |       |                  |                                                                                                            |
| i        | Drilling upto 300m (Hard Rock) (1 rig )-<br><b>in-house</b>      | m            | 2.2.1.4a | 11,500   | 200   | 23,00,000        | 4 BHS                                                                                                      |
| ii       | Land / Crop Compansation                                         | per BH       | 5.6      | 20,000   | 4     | 80,000           | Amount will be reimburse 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    | 4     | 8,000            |                                                                                                            |
| iv       | Transportation of Drill Rig & Truck associated per drill         | Km           | 2.2.8    | 36       | 3,000 | 1,08,000         | Certification in this regard is required to be provided                                                    |
| v        | Monthly Accomodation Charges for drilling Camp (up to 1 Rigs)    | month        | 2.2.9    | 50,000   | 3     | 1,50,000         |                                                                                                            |
| vi       | Drilling Camp Setting Cost                                       | Nos          | 2.2.9a   | 2,50,000 | 1     | 2,50,000         | 2 rigs                                                                                                     |
| vii      | Drilling Camp Winding up Cost                                    | Nos          | 2.2.9b   | 2,50,000 | 1     | 2,50,000         | 2 rigs                                                                                                     |
| viii     | Approach Road Making (Flat Terrain)                              | Km           | 2.2.10a  | 22,020   | 4     | 88,080           | Road Making will be considered as per the requirement and Road Making Charges will be reimbursed later     |

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|----------|---------------------------------------------------------------------------------------------------|------|--------|--------|-----|------------------|----------------------------------------------------------------------------------------------------------|
| ix       | Core Preservation: One complete borehole plus mineralised cores of all the remaining Bhs          | m    | 5.3    | 1,590  | 100 | 1,59,000         | This amount will be reimbursed after successful delivery of the cores to concerned libraries/authorities |
| x        | DGPS survey for BH fixation                                                                       | Nos  | 1.6.2  | 19,200 | 4   | 76,800           | BH-4                                                                                                     |
|          | Auger Drilling- <b>Outsourced</b>                                                                 | m    | 2.2.2  | 4,760  | 150 | 7,14,000         | Outsourcing                                                                                              |
|          | <b>Sub Total- C</b>                                                                               |      |        |        |     | <b>41,83,880</b> |                                                                                                          |
| <b>D</b> | <b>LABORATORY STUDIES</b>                                                                         |      |        |        |     |                  |                                                                                                          |
| <b>1</b> | <b>Chemical Analysis</b>                                                                          |      |        |        |     |                  |                                                                                                          |
| <b>i</b> | <b>Primary &amp; Check samples</b>                                                                |      |        |        |     |                  |                                                                                                          |
|          | Analysis for 34 elements (REE + RM, Th, U, Zr, Ta, Ti, Hf and others) by ICPMS method             | Nos  | 4.1.14 | 7,731  | 230 | 17,78,130        | Bedrock (50)+ Stream Sediment (50)+ Pitting (20)+ Auger sample (50)+ Drill core (50)+ Heavy Mineral (10) |
|          | b-External(10%) Check samples from NABL Lab by ICPMS method for 34 elements (REE + RM and others) | Nos  | 4.1.14 | 7,731  | 23  | 1,77,813         |                                                                                                          |
| <b>2</b> | <b>Physical &amp; Petrological Studies</b>                                                        |      |        |        |     |                  |                                                                                                          |
| i        | Preparation of thin section                                                                       | Nos  | 4.3.1  | 2,353  | 10  | 23,530           |                                                                                                          |
| ii       | Complete petrographic study report                                                                | Nos  | 4.3.4  | 4,232  | 10  | 42,320           |                                                                                                          |
| iii      | Preparation of polished section                                                                   | Nos  | 4.3.2  | 1,549  | 10  | 15,490           |                                                                                                          |
| iv       | Complete mineragraphic study report                                                               | Nos  | 4.3.4  | 4,232  | 10  | 42,320           |                                                                                                          |
| v        | Digital Photographs                                                                               | Nos  | 4.3.7  | 280    | 10  | 2,800            |                                                                                                          |
| vi       | XRD studies                                                                                       | Nos  | 4.5.1  | 4,000  | 15  | 60,000           | Heavy Mineral (5) + Mineralized zones (10)                                                               |
| vii      | EPMA                                                                                              | Hour | 4.4.1  | 8,540  | 10  | 85,400           |                                                                                                          |

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|----------|-----------------------------------------------------------------------------|---------------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------|------------------------------------------------------------------------------------------------------------------------------|
| viii     | Heavy Mineral Separation                                                    | Nos                                   | 4.3.6a & 6b               | 16,200                                                                                                                                                    | 10 | 1,62,000         |                                                                                                                              |
|          | <b>Sub Total- D</b>                                                         |                                       |                           |                                                                                                                                                           |    | <b>23,89,803</b> |                                                                                                                              |
| <b>E</b> | <b>Total A to D</b>                                                         |                                       |                           |                                                                                                                                                           |    | <b>90,93,011</b> |                                                                                                                              |
| <b>F</b> |                                                                             |                                       |                           | <b>Total without Outsourced cost</b>                                                                                                                      |    | <b>83,79,011</b> |                                                                                                                              |
| <b>G</b> | <b>Geological Report Preparation</b>                                        |                                       | <b>5.2</b>                | For the projects having cost exceeding Rs. 50 lakhs and less than Rs. 150 lakhs - A minimum of Rs. 2.5 lakhs or 5% of the value of work whichever is more |    | <b>4,54,651</b>  | Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET. |
| <b>H</b> | <b>Operational Charges (10% of approved drilling cost)</b>                  |                                       |                           |                                                                                                                                                           |    | <b>71,400</b>    |                                                                                                                              |
| <b>I</b> | <b>Tender Processing cost (2% of the approved drilling cost)</b>            |                                       |                           |                                                                                                                                                           |    | <b>14,280</b>    |                                                                                                                              |
| <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 Lakhs whichever is lower                                                                                                          |    | <b>1,81,860</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-   |

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|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--------------------|-------------------------------------------------------------------------|
|              |                                                                                                                                                                                                                                                                                    |  |  |  |  |                    | NMET in its meeting while clearing the proposal.                        |
| <b>L</b>     | <b>Total Estimated Cost without GST</b>                                                                                                                                                                                                                                            |  |  |  |  | <b>98,45,202</b>   |                                                                         |
| <b>M</b>     | <b>Provision for GST (18% of I)</b>                                                                                                                                                                                                                                                |  |  |  |  | <b>17,72,136</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>1,16,17,338</b> |                                                                         |
| <b>O</b>     | <b>Rs. In lacs</b>                                                                                                                                                                                                                                                                 |  |  |  |  | <b>116.17</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>                                                                                                                                                                          |  |  |  |  |                    |                                                                         |

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## Annexure 3B

## Time Schedule/ Action Plan for Reconnaissance Survey (G-4) for REE and associated minerals in Ektala-Rajanpali and Jogiapali-Govindpur areas, District: Nayagarh, Odisha.

| Sl. No. | Particulars                     | Months | 1 | 2 | 3 | 4 | REVIEW | 5 | 6 | 7 | 8 | REVIEW | 9 | 10 |
|---------|---------------------------------|--------|---|---|---|---|--------|---|---|---|---|--------|---|----|
| 1       | Camp Setting/ mobilization      | Months |   |   |   |   |        |   |   |   |   |        |   |    |
| 2       | Geologist days                  | days   |   |   |   |   |        |   |   |   |   |        |   |    |
| 3       | Pitting                         | days   |   |   |   |   |        |   |   |   |   |        |   |    |
| 4       | Drilling (2 rig)                | m      |   |   |   |   |        |   |   |   |   |        |   |    |
| 5       | Sampling days                   | days   |   |   |   |   |        |   |   |   |   |        |   |    |
| 6       | Camp winding                    | Months |   |   |   |   |        |   |   |   |   |        |   |    |
| 7       | Laboratory Studies              | days   |   |   |   |   |        |   |   |   |   |        |   |    |
| 8       | Geologist days, HQ              | days   |   |   |   |   |        |   |   |   |   |        |   |    |
| 9       | Report Writing with Peer Review | days   |   |   |   |   |        |   |   |   |   |        |   |    |

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| Annexure 4A                                                                                                                      |                                                                           |                       |                       |                  |                                |                  |                                             |
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| Estimated Cost for Reconnaissance Survey (G4) for Iron ore in Yaparlapadu-Dhone area, Kurnool & Nandyal District, Andhra Pradesh |                                                                           |                       |                       |                  |                                |                  |                                             |
| Name of the Exploration Agency – Critical Mineral Trackers, Hyderabad                                                            |                                                                           |                       |                       |                  |                                |                  |                                             |
| Total Area -133 sq.km ; No of Boreholes- 5 (Scout BHs) ;Drilling : 400m, Timeline -10 months , Review : 4 & 8 Months             |                                                                           |                       |                       |                  |                                |                  |                                             |
| S.No                                                                                                                             | Item of Work                                                              | Unit                  | Rates as per NMET SoC |                  | Estimated Cost of the Proposal |                  | Remarks                                     |
|                                                                                                                                  |                                                                           |                       | SoC-Item-SI No.       | Rates as per SOC | Qtm                            | Total Amount(Rs) |                                             |
| <b>A</b>                                                                                                                         | <b>Geological Work</b>                                                    |                       |                       |                  |                                |                  |                                             |
| 1                                                                                                                                | Geological Mapping(1:12,500) & sampling – Geologist field-days            | 6.12                  | 1.2                   | 11000            | 150                            | 16,50,000        | man days                                    |
| 2                                                                                                                                | Geologists(HQ)days, pre & post field interpretation 15 +20 days           | One Geologist Per Day | 1.2                   | 9000             | 45                             | 4,05,000         | man days (including Remote sensing studies) |
| 3                                                                                                                                | Pitting-120nos each one size 1*1*1m(1 Cu.m each)                          | Per Cu.m              | 2.1.2                 | 3800             | 120                            | 4,56,000         | 120 cu.m                                    |
| 5                                                                                                                                | Sampler                                                                   | 45 days               | 1.5.2                 | 5100             | 63                             | 3,21,300         | man days                                    |
| 6                                                                                                                                | Labour(4labour) attached to sampler                                       | 90 labour days        | 1.5.2                 | 526              | 252                            | 1,32,552         | labour days                                 |
| 7                                                                                                                                | Labour (240Field days) per team:2 workers : 240*2 for two geologist teams | Labour/Field workers  | 5.7                   | 526              | 300                            | 1,57,800         | labour days                                 |
|                                                                                                                                  | <b>Sub-Total -A</b>                                                       |                       |                       |                  |                                | <b>31,22,652</b> |                                             |
| <b>B</b>                                                                                                                         | <b>Survey Work</b>                                                        |                       |                       |                  |                                |                  |                                             |

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|----------|--------------------------------------------------------------------------------------|-----------------------|----------|----------|-------|------------------|--------------------------------|
| 1        | Surveyor: Fixation & connection of boundary points(6 nos),4 Bh by Total station/DGPS | One surveyor          | 1.6.2    | 19,200   | 5     | 96,000           |                                |
|          | <b>Sub-total-B</b>                                                                   |                       |          |          |       | <b>96,000</b>    |                                |
| <b>C</b> | <b>Core Drilling - In House</b>                                                      |                       |          |          |       |                  |                                |
| 1        | Scout drilling(coring) :2 points( each 75m deep) 2*75<br>2 BHs in limestone          | Per meter             | 2.2.1.3a | 7,168    | 150   | 10,75,200        | 150m, Soft rock- MoC Rate      |
| 2        | Scout drilling(coring) :3 points( each 75m deep) 3*75<br>3 BHs in Iron Ore           | Per meter             | 2.2.1.5a | 12,650   | 250   | 31,62,500        | 250 m, Very Hard rock          |
| 3        | Construction of BH pillar(12"*12"*30")                                               | Per pillar            | 2.2.2a   | 2000     | 5     | 10,000           | 5 pillars                      |
| 4        | Transportation of Drill Rig                                                          | KM                    | 2.2.8    | 36       | 600   | 21,600           | To and Fro from Hyderabad      |
| 5        | Compensation for 5 Bhs                                                               |                       | 5.6      | 20,000   | 5     | 1,00,000         | 5BHs as per actuals            |
| 6        | Drilling camp setting                                                                | Per drill             | 2.2.9a   | 2,50,000 | 1     | 2,50,000         |                                |
| 7        | Drilling Camp winding cost                                                           | per drill             | 2.2.9b   | 2,50,000 | 1     | 2,50,000         |                                |
| 8        | Monthly Accommodation charges for drilling camp                                      | Monthly basis         | 2.2.9    | 50,000   | 3     | 1,50,000         |                                |
| 9        | Approach road making for rugged terrain                                              | Per km                | 2.2.10 b | 32,200   | 30    | 9,66,000         | As per actuals                 |
| 10       | Drill core preservation in GI boxes                                                  | Per meter             | 5.3      | 1590     | 300   | 4,77,000         | 300m core                      |
|          | <b>Subtotal-C</b>                                                                    |                       |          |          |       | <b>64,62,300</b> |                                |
|          | <b>Geophysical Survey</b>                                                            |                       |          |          |       |                  |                                |
|          | <b>Gravity Method- Regional</b>                                                      | Per Station           | 3.1a     | 0        | 3800  | 0                |                                |
|          | <b>Resistivity profiling</b>                                                         | Line kilometre        | 3.6a     | 0        | 58880 | 0                |                                |
|          | <b>Subtotal-D</b>                                                                    |                       |          |          |       | <b>0</b>         |                                |
| <b>E</b> | <b>Laboratory Studies</b>                                                            |                       |          |          |       |                  |                                |
| 1        | Chemical Analysis<br>Bedrock + chip + Channel = 100 no's                             | Major Oxides          | 4.1.15 a | 4200     | 110   | 462000           | 100 samples + 10 Check Samples |
| 2        | Pitting Sample: (120*1=20 nos)-XRF                                                   | First five radicals+2 | 4.1.15 a | 4200     | 110   | 4,62,000         | 100 samples+10 Check Samples   |
| 3        | Core drilling Samples-400m                                                           |                       | 4.1.15 a | 4200     | 330   | 13,86,000        |                                |

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|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------|--------------------------------------------------------|----|--------------------|-------------------------------|
|          | Total depth 75m each, samples will be collected at every 1 M interval.                                                                                                                                                                                                             | First five radicals+2 |       |                                                        |    |                    | 300 samples+ 30 Check Samples |
| 4        | Complete petrographic + ore-microscopic + mineragraphic studies                                                                                                                                                                                                                    | Per sample            | 4.3.4 | 4232                                                   | 20 | 84,640             |                               |
|          | <b>Subtotal-E</b>                                                                                                                                                                                                                                                                  |                       |       |                                                        |    | <b>23,94,640</b>   |                               |
|          | <b>TOTAL (A+B+C+D+E)</b>                                                                                                                                                                                                                                                           |                       |       |                                                        |    | <b>1,20,75,592</b> |                               |
| <b>F</b> | <b>Preparation of Exploration Proposal</b>                                                                                                                                                                                                                                         |                       |       | 2% of the project cost subject to a maximum of 5 lakhs | 1  | 2,41,512           | 2% of the Project cost.       |
|          | (5 Hard copies with a soft copy)                                                                                                                                                                                                                                                   |                       | 5.1   |                                                        |    |                    |                               |
| <b>G</b> | <b>Geological Report</b>                                                                                                                                                                                                                                                           |                       |       | 5% of the Project cost                                 |    | 6,03,780           | 5% of the Project Cost.       |
|          | (5 Hard copies with a soft copy)                                                                                                                                                                                                                                                   |                       | 5.2   |                                                        |    |                    |                               |
|          | Peer Review Charges                                                                                                                                                                                                                                                                |                       |       |                                                        |    | 30,000             |                               |
|          | Additional Copy                                                                                                                                                                                                                                                                    |                       |       | 1000                                                   | 0  | 0                  |                               |
|          | <b>Project Cost without GST</b>                                                                                                                                                                                                                                                    |                       |       |                                                        |    | 1,29,50,883        |                               |
|          | 18% GST                                                                                                                                                                                                                                                                            |                       |       |                                                        |    | <b>23,31,159</b>   |                               |
|          | <b>Total Project Cost</b>                                                                                                                                                                                                                                                          |                       |       |                                                        |    | <b>1,52,82,042</b> |                               |
|          | <b>Rs. In lacs</b>                                                                                                                                                                                                                                                                 |                       |       |                                                        |    | <b>152.82</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>                                                                                                                                                                          |                       |       |                                                        |    |                    |                               |

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## Annexure 4B

## Time Schedule/ Action Plan for Reconnaissance Survey (G4) for Iron ore in Yaparlapadu-Dhone area, Kurnool &amp; Nandyal District, Andhra Pradesh

| Sl. No. | Particulars                     | Months | 1 | 2 | 3 | 4 | REVIEW | 5 | 6 | 7 | 8 | REVIEW | 9 | 10 |
|---------|---------------------------------|--------|---|---|---|---|--------|---|---|---|---|--------|---|----|
| 1       | Camp Setting/ mobilization      | Months |   |   |   |   |        |   |   |   |   |        |   |    |
| 2       | Geologist days                  | days   |   |   |   |   |        |   |   |   |   |        |   |    |
| 3       | Pitting                         | days   |   |   |   |   |        |   |   |   |   |        |   |    |
| 4       | Drilling (2 rig)                | m      |   |   |   |   |        |   |   |   |   |        |   |    |
| 5       | Sampling days                   | days   |   |   |   |   |        |   |   |   |   |        |   |    |
| 6       | Camp winding                    | Months |   |   |   |   |        |   |   |   |   |        |   |    |
| 7       | Laboratory Studies              | days   |   |   |   |   |        |   |   |   |   |        |   |    |
| 8       | Geologist days, HQ              | days   |   |   |   |   |        |   |   |   |   |        |   |    |
| 9       | Report Writing with Peer Review | days   |   |   |   |   |        |   |   |   |   |        |   |    |

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## Revised cost sheet for Preliminary Survey (G3) for graphite in Lamer-Panga Block-B (12.994 sq. Km) in Kalahandi district of Odisha.

Agency : OMC

| Sl. No.  | Item of Work                                                    | Unit    | SoC-Item -SI No. | Rate as per SoC (in Rs) excluding GST 18% | Approved Quantity |              | Work Done |                                         |                 | Remarks                                                                                                            |
|----------|-----------------------------------------------------------------|---------|------------------|-------------------------------------------|-------------------|--------------|-----------|-----------------------------------------|-----------------|--------------------------------------------------------------------------------------------------------------------|
|          |                                                                 |         |                  |                                           | Total Quantity    | Amount (Rs.) | Quantity  | Unit Price (in Rs.) (without GST @ 18%) | Amount (in Rs.) |                                                                                                                    |
| <b>A</b> | <b>GEOLOGICAL WORK</b>                                          |         |                  |                                           |                   |              |           |                                         |                 |                                                                                                                    |
| 1        | Charges for One Geologist - Field                               | per day | 1.3              | 11,000                                    | 120               | 13,20,000    | 100       | <b>11000</b>                            | <b>1100000</b>  |                                                                                                                    |
| 2        | Charges for One Geologist - HQ                                  | per day | 1.3              | 9,000                                     | 30                | 2,70,000     | 30        | 9,000                                   | <b>2,70,000</b> |                                                                                                                    |
| 3        | Labour Charges for Geological mapping (2 Nos.) Base rate- 443/- | per day | 5.7              | 443                                       | 240               | 1,06,320     | 200       | <b>526</b>                              | <b>105200</b>   | The rate for unskilled labour by the central labour commissioner was 477/- per day w.e.f 01.10.2022 to 01.04.2023. |
| 4        | Charges for one Sampler                                         | per day | 1.5.2            | 5,100                                     | 40                | 2,04,000     | 36        | <b>5100</b>                             | <b>183600</b>   |                                                                                                                    |
| 5        | Labour Charges for sampling work (4 Nos.) Base rate- 443/-      | per day | 5.7              | 443                                       | 160               | 70,880       | 144       | 526                                     | <b>75744</b>    | The rate for unskilled labour by the central labour commissioner was 522/- per day w.e.f 01.04.2024 to 01.10.2024  |
| 6        | Charge for 1 surveyor                                           | per day | 1.6. 1a          | 8,300                                     | 30                | 2,49,000     | 30        | 8300                                    | <b>249000</b>   |                                                                                                                    |

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|----------|--------------------------------------------------------|---------------|---------|--------|-----|------------------|-------|--------|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7        | Labour Charges for survey (4 Nos.)<br>Base rate- 443/- | per day       | 5.7     | 443    | 120 | 53,160           | 120   | 526    | <b>63120</b>    | The rate for unskilled labour by the central labour commissioner was 522/- per day w.e.f 01.04.2024 to 01.10.2024                                                                                          |
|          | <b>Sub Total A</b>                                     |               |         |        |     | <b>22,73,360</b> |       |        | <b>2046664</b>  |                                                                                                                                                                                                            |
| <b>B</b> | <b>TRENCHING</b>                                       |               |         |        |     |                  |       |        |                 |                                                                                                                                                                                                            |
| 1        | Trenching                                              | Cu.m          | 2.1.1   | 3,330  | 100 | 3,33,000         | 0     | -      | <b>0</b>        |                                                                                                                                                                                                            |
|          | <b>Sub Total-B</b>                                     |               |         |        |     | <b>3,33,000</b>  |       | -      | <b>0</b>        |                                                                                                                                                                                                            |
| <b>C</b> | <b>DRILLING (Outsourced)</b>                           |               |         |        |     |                  |       |        | <b>0</b>        |                                                                                                                                                                                                            |
| 1        | Surface Drilling                                       | per m         | 2.2.1.4 | 11,500 | 900 | 1,03,50,000      | 267.8 | 9270   | 24,82,506       | Total drilling meterage is 310 m in 07 Bhs. Due to less recovery in 42.2 m, 276.80 m of the total drilling meterage has been paid. However expense doesn't exceed the approved amount.                     |
| 2        | Land/Crop compensation                                 | Per Bore hole | 5.6     | 20,000 | 15  | 3,00,000         | 0     | 20,000 | -               |                                                                                                                                                                                                            |
| 3        | Construction of concrete pillar(12"x12"x30")           | Per Bore hole | 2.2.7a  | 2,000  | 15  | 30,000           | 0     | 2,000  | -               |                                                                                                                                                                                                            |
| 4        | Drill core preservation                                | Per m         | 5.3     | 1,590  | 270 | 4,29,300         | 182   | 1,590  | <b>2,89,380</b> | Total mineralised thickness 151.95 m. in all boreholes. Mineralised thickness in borehole no LPB/G3/06 is 32.50 m and the total depth is 62 m. So drill core preservation will be 151.95-32.50+62=181.45 m |

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|----------|--------------------------------------------------------------------------|--------|--------|--------|-----|--------------------|-----|--------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|          | <b>Sub Total-C</b>                                                       |        |        |        |     | <b>1,11,09,300</b> |     |        | <b>27,71,886</b> |                                                                                                                                                                                                                     |
| <b>D</b> | <b>GROUND GEOPHYSICAL (Outsourced)</b>                                   |        |        |        |     |                    |     |        |                  |                                                                                                                                                                                                                     |
| 1        | Self-potential / Charged Potential                                       | LineKm | 3.3a   | 29,600 | 30  | 8,88,000           | 30  | 19,999 | <b>5,99,970</b>  | As per work order the rate per LineKm is Rs. 19,999/- . However expense doesn't exceed the approved amount                                                                                                          |
|          | <b>Sub Total D</b>                                                       |        |        |        |     |                    |     |        | <b>5,99,970</b>  |                                                                                                                                                                                                                     |
| <b>E</b> | <b>LABORATORY STUDIES</b>                                                |        |        |        |     |                    |     |        |                  |                                                                                                                                                                                                                     |
| 1        | <b>Chemical Analysis</b>                                                 |        |        |        |     |                    |     |        |                  |                                                                                                                                                                                                                     |
|          | <b>i) Primary samples and Check samples for Graphite (Core Samples)</b>  |        |        |        |     |                    |     |        |                  |                                                                                                                                                                                                                     |
|          | a) Primary samples for Proximate Analysis (Ash, Moisture, V.M. and F.C.) | Nos    | 4.1.16 | 3,000  | 325 | 9,75,000           | 261 | 3,000  | <b>7,83,000</b>  | Total of 261 nos. (out of which 240 nos. samples are core sample and 21 nos. samples are grab sample) of primary Sample were analysed at Jawaharlal Nehru Aluminium Research Development & Design Centre (JNARDDC). |
|          | b) Check sample Proximate Analysis (Ash, Moisture, V.M. and F.C.)        | Nos    | 4.1.16 | 3,000  | 35  | 1,05,000           | 24  | 3,000  | <b>72,000</b>    | 24 nos. of check Sample were analysed at Jawaharlal Nehru Aluminium Research Development & Design Centre (JNARDDC).                                                                                                 |
|          | c) REE                                                                   | Nos    | 4.1.13 | 5,380  | 10  | 53,800             | 0   | -      | <b>0</b>         |                                                                                                                                                                                                                     |

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|----------|----------------------------------------------------------|----------------------------------|------------|-------|----|--------------------|---|-------|------------------|---------------------------------------------------------------------------------------------------|
|          | <b>ii) Composite Samples for Graphite (Core Samples)</b> |                                  |            |       |    |                    |   |       |                  |                                                                                                   |
|          | a) Proximate Analysis (Ash, Moisture, V.M. and F.C.)     | Nos                              | 4.1.16     | 3,000 | 20 | 60,000             | 0 | -     | <b>0</b>         |                                                                                                   |
| <b>2</b> | <b>Physical Analysis</b>                                 |                                  |            |       |    |                    |   |       |                  |                                                                                                   |
| i)       | X-RD Studies                                             | Nos                              | 4.5.1      | 4,000 | 5  | 20,000             | 5 | 4,000 | <b>20000</b>     | Sample Analysed at Ravenshaw University, Cuttack.                                                 |
| iii)     | Preparation of thin section                              | Nos                              | 4.3.1      | 2,353 | 10 | 23,530             | 5 | 2,353 | <b>11765</b>     | Sample Analysed at Ravenshaw University, Cuttack.                                                 |
| iv)      | Petrographic studies                                     | Nos                              | 4.3.4      | 4,232 | 10 | 42,320             | 5 | 4,232 | <b>21160</b>     | Sample Analysed at Ravenshaw University, Cuttack.                                                 |
| viii)    | Bulk density                                             | Nos                              | 4.1        | 3,540 | 10 | 35,400             | 5 | 550   | <b>2750</b>      | 05 nos. of bulk density samples were analysed at M/s. Inspectorate Griffith India Pvt. Ltd. (IGI) |
|          | <b>Sub Total-E</b>                                       |                                  |            |       |    | <b>13,15,050</b>   |   |       | <b>9,10,675</b>  |                                                                                                   |
|          | <b>Total A+B+C+D+E</b>                                   |                                  |            |       |    | <b>1,50,30,710</b> |   |       | <b>63,29,195</b> |                                                                                                   |
| <b>F</b> | <b>Tender preparation, publishing &amp; finalisation</b> | one time                         |            |       |    | <b>3,18,374</b>    | 0 | -     | <b>61,650</b>    |                                                                                                   |
| <b>G</b> | <b>GEOLOGICAL REPORT PREPARATION</b>                     | One Number (5 Hard copies) along | <b>5.2</b> |       |    | <b>7,50,000</b>    | 0 | -     | <b>3,16,460</b>  |                                                                                                   |

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|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------|--|--|-------------|---|---|-----------|--|
|                             |                                                                                                                                                                                                                                                                             | with soft copy                                  |                    |  |  |             |   |   |           |  |
| H                           | PEER REVIEW                                                                                                                                                                                                                                                                 |                                                 | As per EC decision |  |  | 10,000      | 0 | - | 30,000    |  |
| I                           | PREPARATION OF EXPLORATION PROPOSAL                                                                                                                                                                                                                                         | One Number (5 Hard copies) along with soft copy | 5.1                |  |  | 3,18,374    | 0 | - | 1,26,584  |  |
| J                           | Operational charges                                                                                                                                                                                                                                                         |                                                 |                    |  |  | 10,40,618   |   |   | 3,08,248  |  |
| Total F+G+H+I+J             |                                                                                                                                                                                                                                                                             |                                                 |                    |  |  | 24,37,366   |   |   | 8,42,941  |  |
| Total A+B+C+D+E+F+G+H+I+J   |                                                                                                                                                                                                                                                                             |                                                 |                    |  |  | 1,74,68,076 |   |   | 71,72,136 |  |
| GST 18%                     |                                                                                                                                                                                                                                                                             |                                                 |                    |  |  | 31,44,254   |   |   | 12,90,984 |  |
| Grand Total(A to M+18% GST) |                                                                                                                                                                                                                                                                             |                                                 |                    |  |  | 2,06,12,330 |   |   | 84,63,120 |  |
| Rs. In Lacs                 |                                                                                                                                                                                                                                                                             |                                                 |                    |  |  | 206.12      |   |   | 84.63     |  |
| 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.                                                                                                                                                                          |                                                 |                    |  |  |             |   |   |           |  |

*Dr. Pathi*  
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*Dr. Pathi*  
16/11/2025

**Revised Cost sheet Reconnaissance Survey (G-4) for QPC hosted gold mineralization and copper in Kalasapura Block (119.00 sq. km),  
Chikkamagaluru District, Karnataka  
Agency : MECL**

| S. No.   | Item of Work                                                                                    | Unit                     | Rates as per NMET SoC 2020-21 |                  | Approved Cost of the Proposal |                   | Proposed for ratification |                   | Remarks      |
|----------|-------------------------------------------------------------------------------------------------|--------------------------|-------------------------------|------------------|-------------------------------|-------------------|---------------------------|-------------------|--------------|
|          |                                                                                                 |                          | SoC-Item -SI No.              | Rates as per SoC | Qty.                          | Total Amount (Rs) | Qty.                      | Total Amount (Rs) |              |
| <b>A</b> | <b>Geological Mapping Other Geological Work &amp; Surveying</b>                                 |                          |                               |                  |                               |                   |                           |                   |              |
|          | Geological mapping, (1:12,500 scale) & Trenching , drilling work                                | 129 sq.km                |                               |                  |                               |                   |                           |                   |              |
| i        | a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work | day                      | 1.2                           | 11,000           | 150                           | 16,50,000         | 120                       | 13,20,000         | Billing done |
| ii       | b. Labours Charges; Base rate                                                                   | day                      | 5.7                           | 504              | 300                           | 1,51,200          | 240                       | 1,26,240          | Billing done |
|          | c. Charges for Geologist per day (HQ)                                                           | day                      | 1.3                           | 9,000            | 50                            | 4,50,000          | 30                        | 2,70,000          | To be billed |
|          | d. Charges for one Sampler per day (1 Party)                                                    | one sampler per day      | 1.5.2                         | 5,100            | 125                           | 637500            | 38                        | 1,93,800          | Billing done |
|          | e. Labours (4 Nos)                                                                              | day                      | 5.7                           | 504              | 500                           | 252000            | 152                       | 79,952            | Billing done |
|          | <b>Sub Total- A</b>                                                                             |                          |                               |                  |                               | <b>31,40,700</b>  |                           | <b>19,89,992</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           | 6                             | 115200            | 0                         | 0                 |              |
| b        | Charges of Surveyor (1 party) for Borehole fixation                                             | one surveyor per day     | 1.6.1a                        | 8,300            | 5                             | 41500             | 0                         | 0                 |              |

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|----------|----------------------------------------------------------------------|--------------|----------|----------|-------|-----------------|----------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| c        | Labours Charges for survey work;                                     | day          | 5.7      | 504      | 20    | 10080           | 0        | 0           | Amount will be reimburse as per the notified rates for unskilled labor by the Central Labour Commissioner or respective State Govt. whichever is higher |
|          | <b>Sub-Total B</b>                                                   |              |          |          |       | <b>1,66,780</b> |          | 0           |                                                                                                                                                         |
| <b>C</b> | <b>Trenching/Pitting</b>                                             |              |          |          |       |                 |          | 0           |                                                                                                                                                         |
|          | a) Excavation of Trenches                                            | per cu.m     | 2.1.1.   | 3,330    | 200   | <b>666000</b>   | <b>0</b> | <b>0.00</b> |                                                                                                                                                         |
| <b>D</b> | <b>DRILLING</b>                                                      |              |          |          |       |                 |          |             |                                                                                                                                                         |
| 1        | Drilling up to 300m (Hard Rock)                                      | m            | 2.2.1.4a | 11,500   | 300   | 34,50,000       | 0        | 0           |                                                                                                                                                         |
| 2        | Borehole deviation Survey by Multishot Camera                        | m            | 2.2.6    | 330      | -     | -               | 0        | 0           |                                                                                                                                                         |
| 3        | Land / Crop Compensation (in case the BH falls in agricultural Land) | per BH       | 5.6      | 20,000   | 6     | 1,20,000        | 0        | 0           | Amount will be reimburse as per actuals or max. Rs. 20000 per BH with certification from local authorities                                              |
| 4        | Construction of concrete Pillar (12"x12"x30")                        | per borehole | 2.2.7a   | 2,000    | 6     | 12,000          | 0        | 0           |                                                                                                                                                         |
| 5        | Transportation of Drill Rig & Truck associated per drill (2 rigs)    | Km           | 2.2.8    | 36       | 2,600 | 93,600          | 0        | 0           | 2600 km to & fro from Nagpur/ Rig                                                                                                                       |
| 6        | Monthly Accommodation Charges for drilling Camp (up to 2 Rigs)       | month        | 2.2.9    | 50,000   | 3     | 1,50,000        | 0        | 0           |                                                                                                                                                         |
| 7        | Drilling Camp Setting Cost                                           | Nos          | 2.2.9a   | 2,50,000 | 1     | 2,50,000        | 0        | 0           |                                                                                                                                                         |
| 8        | Drilling Camp Winding up Cost                                        | Nos          | 2.2.9b   | 2,50,000 | 1     | 2,50,000        | 0        | 0           |                                                                                                                                                         |

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|          |                                                                             |                    |            |        |     |                  |     |             |                                                                                                                 |
|----------|-----------------------------------------------------------------------------|--------------------|------------|--------|-----|------------------|-----|-------------|-----------------------------------------------------------------------------------------------------------------|
| 9        | Road Making (Flat Terrain)                                                  | Km                 | 2.2.10a    | 22,020 | 5   | 1,10,100         | 0   | 0           | Road Making will be considered as per the requirement and Road Making Charges will be reimbursed for max. 5 km. |
| 10       | Drill Core Preservation                                                     | per m              | 5.3        | 1,590  | 150 | 2,38,500         | 0   | 0           | 1 bh 50m+20m MZ x5 bhs                                                                                          |
|          | <b>Sub Total D</b>                                                          |                    |            |        |     | <b>46,74,200</b> |     | <b>0.00</b> |                                                                                                                 |
| <b>E</b> | <b>Borehole Geophysical Logging</b>                                         | 5 Bhs of 350m each | 3.12       | 622.25 | 300 | <b>1,86,675</b>  | -   | <b>0.00</b> | Base Rate Rs.10, 88, 941/1750=622.25per m                                                                       |
| <b>F</b> | <b>LABORATORY STUDIES</b>                                                   |                    |            |        |     |                  |     |             |                                                                                                                 |
| 1        | <b>Chemical Analysis</b>                                                    |                    |            |        |     |                  |     |             |                                                                                                                 |
| i)       | <b>Geochemical Sampling-Surface samples (Bedrock /Soil/Stream sediment)</b> |                    |            |        |     |                  |     |             |                                                                                                                 |
|          | a. Au by Fire Assay                                                         | Nos                | 4.1.5a     | 2,380  | 150 | 3,57,000         | 150 | 357000      | Billing done                                                                                                    |
|          | b. for Cu, Pb, Zn, Ni, Co, Te, Mo and Se (AAS Method)                       | Nos                | 4.1.7a & b | 3,511  | 150 | 5,26,650         | 150 | 526650      |                                                                                                                 |
| ii)      | <b>Surface Check samples (10% External)</b>                                 |                    |            |        |     |                  |     |             |                                                                                                                 |
|          | b) For Au (Gold) by Fire Assay                                              | Nos                | 4.1.5a     | 2,380  | 15  | 35,700           | 15  | 35700       | Billing done                                                                                                    |
|          | a. for Cu, Pb, Zn, Ni, Co, Te, Mo and Se(AAS Method)                        | Nos                | 4.1.7a & b | 3,511  | 15  | 52,665           | 15  | 52665       | Billing done                                                                                                    |
| iii)     | <b>Trench &amp; Check Samples from Trench</b>                               |                    |            |        |     |                  |     |             |                                                                                                                 |
|          | <b>Trench samples</b>                                                       |                    |            |        |     |                  |     |             |                                                                                                                 |
|          | a) For Au (Gold) by Fire Assay                                              | Nos                | 4.1.5a     | 2,380  | 150 | 3,57,000         | 0   | 0           |                                                                                                                 |

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|----------|-------------------------------------------------------|-----|------------|-------|-----|--------------------|----|------------------|---------------------|
|          | b). for Cu, Pb, Zn, Ni, Co, Te, Mo and Se(AAS Method) | Nos | 4.1.7a & b | 3,511 | 150 | 5,26,650           | 0  | 0                |                     |
| iv)      | <b>Trench Check samples (10% External)</b>            |     |            |       |     |                    |    |                  |                     |
|          | a) For Au (Gold) by Fire Assay                        | Nos | 4.1.5a     | 2,380 | 15  | 35,700             | 0  | 0                |                     |
|          | b). for Cu, Pb, Zn, Ni, Co, Te, Mo and Se(AAS Method) | Nos | 4.1.7a & b | 3,511 | 15  | 52,665             | 0  | 0                |                     |
| v)       | <b>BH Core samples</b>                                |     |            |       |     |                    |    |                  |                     |
|          | a) For Au (Gold) by Fire Assay                        | Nos | 4.1.5a     | 2,380 | 150 | 3,57,000           | 0  | 0                | (sample size:0.50m) |
|          | b). for Cu, Pb, Zn, Ni, Co, Te, Mo and Se(AAS Method) | Nos | 4.1.7a & b | 3,511 | 150 | 5,26,650           | 0  | 0                |                     |
|          | c) 34 Elements by ICPMS                               | Nos | 4.1.14     | 7,731 | 15  | 1,15,965           | 0  | 0                |                     |
| vi)      | <b>BH Core samples (10%External)</b>                  |     |            |       |     |                    | 0  | 0                |                     |
|          | a) For Au (Gold) by Fire Assay                        | Nos | 4.1.5a     | 2,380 | 15  | 35,700             | 0  | 0                |                     |
|          | b). for Cu, Pb, Zn, Ni, Co, Te, Mo and Se(AAS Method) | Nos | 4.1.7a & b | 3,511 | 15  | 52,665             | 0  | 0                |                     |
| 2        | <b><u>Physical &amp; Petrological Studies</u></b>     |     |            |       |     |                    |    |                  |                     |
| i        | Preparation of thin section                           | Nos | 4.3.1      | 2,353 | 10  | 23,530             | 7  | 16471            |                     |
| ii       | Study of thin section                                 | Nos | 4.3.4      | 4,232 | 10  | 42,320             | 7  | 29624            |                     |
| iii      | Preparation of polish section                         | Nos | 4.3.2      | 1,549 | 10  | 15,490             | 6  | 9294             |                     |
| iv       | study of polished section                             | Nos | 4.3.4      | 4,232 | 10  | 42,320             | 6  | 25392            |                     |
| v        | Digital Photographs                                   | Nos | 4.3.7      | 280   | 10  | 2,800              | 8  | 2240             |                     |
| vi       | Whole Rock Analysis                                   | Nos | 4.1.15a    | 4,200 | 10  | 42,000             | 10 | 42000            |                     |
| vii      | Sp. Gravity                                           | Nos | 4.8.1      | 1,605 | 5   | 8,025              | 0  | 0                |                     |
|          | <b>Sub Total F</b>                                    |     |            |       |     | <b>32,08,495</b>   |    | <b>10,97,036</b> |                     |
| <b>G</b> | <b>Total A to F</b>                                   |     |            |       |     | <b>1,20,42,850</b> |    | <b>30,87,028</b> |                     |

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|       |                                                                      |                                |                    |                                                                                                                        |             |           |                                                                                                                                                                                                     |
|-------|----------------------------------------------------------------------|--------------------------------|--------------------|------------------------------------------------------------------------------------------------------------------------|-------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I     | Geological Report Preparation                                        | 5 Hard copies with a soft copy | 5.2                | Exploration cost exceeding 50 lakh but less than 150 lakh: A Minimum of ₹ 2.5 lakh or 5% of the work whichever is more | 6,02,143    | 1,54,351  | Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.                                                                        |
| J     | Peer review Charges                                                  |                                | As per EC decision |                                                                                                                        | 30,000      | 30,000    |                                                                                                                                                                                                     |
| K     | Preparation of Exploration Proposal (5 Hard copies with a soft copy) | 5 Hard copies with a soft copy | 5.1                | 2% of the Cost or Rs. 5 Lakhs whichever is less                                                                        | 2,40,857    | 61,741    | EA will be reimbursed after submission of the Hard Copies and the soft copy of the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal. |
| L     | Total Estimated Cost without GST                                     |                                |                    |                                                                                                                        | 1,29,15,850 | 33,33,120 |                                                                                                                                                                                                     |
| M     | Provision for GST (18% of J)                                         |                                |                    |                                                                                                                        | 23,24,853   | 5,99,962  | GST will be reimburse as per actual and as per notified prescribed rate                                                                                                                             |
| N     | Total Estimated Cost with GST                                        |                                |                    |                                                                                                                        | 1,52,40,702 | 39,33,082 |                                                                                                                                                                                                     |
|       |                                                                      |                                |                    | Rs. In Lakhs                                                                                                           | 152.41      | 39.33     |                                                                                                                                                                                                     |
| Note: |                                                                      |                                |                    |                                                                                                                        |             |           |                                                                                                                                                                                                     |

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

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16/04/2025

**Revised cost sheet for Preliminary Exploration (G-3) for Limestone in Jaharitola (3.34 sq.km) & Mundatola Blocks (4.34 sq.km) , Sundargarh District, Maharashtra.  
Agency : MECL**

| S. No. | Item of Work                                                                       | Unit | Rates as per NMET SoC 2020-21 |                  | Estimated Cost of the Proposal |             | For Ratification |             | Remarks                                                                                                                              |
|--------|------------------------------------------------------------------------------------|------|-------------------------------|------------------|--------------------------------|-------------|------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------|
|        |                                                                                    |      | SoC-Item -SI No.              | Rates as per SoC |                                |             |                  |             |                                                                                                                                      |
|        |                                                                                    |      |                               |                  | Qty.                           | Amount (Rs) | Qty.             | Amount (Rs) |                                                                                                                                      |
| A      | GEOLOGICAL WORK                                                                    |      |                               |                  |                                |             |                  |             |                                                                                                                                      |
| 1      | Geological Mapping (1:4000), Borehole logging, sampling & Report writing           |      |                               |                  |                                |             |                  |             |                                                                                                                                      |
| i      | Charges for Geologist-Field (1 party)                                              | day  | 1.2                           | 11,000           | 140                            | 15,40,000   | 70               | 7,70,000    |                                                                                                                                      |
| ii     | Charges for one Geologist - HQ                                                     | day  | 1.2                           | 9,000            | 40                             | 3,60,000    | 20               | 1,80,000    |                                                                                                                                      |
| iii    | 2 labours/ party (Rs 522/day/labour) (As per rates of Central Labour Commissioner) | day  | 5.7                           | 522              | 280                            | 1,46,160    | 140              | 73,640      | Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher |
| iv     | Core Sampling -2 Samplers<br>Labour charge not included                            | day  | 1.5.2                         | 5,100            | 165                            | 8,41,500    | 5                | 25,500      |                                                                                                                                      |
| v      | 4 labours/ party (Rs 522/day/labour) (As per rates of Central Labour Commissioner) | day  | 5.7                           | 522              | 660                            | 3,44,520    | 20               | 10,520      | Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher  |

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|----------|------------------------------------------------------------------------------------------------------------------------|--------------------------|----------|----------|-------|------------------|-----|------------------|------------------------------------------------------------------------------------------------------------|
| <b>2</b> | <b>Survey</b>                                                                                                          |                          |          |          |       |                  |     | -                |                                                                                                            |
| i        | Topographical Survey                                                                                                   | day                      | 1.6.1a   | 8300     | 60    | 498000           | 30  | 2,49,000         | Topographical Survey on 1:2000 (2 m contour interval)                                                      |
| ii       | 4 labours/ party (Rs 522/day/labour) (As per rates of Central Labour Commissioner)                                     | day                      | 5.7      | 522      | 240   | 1,25,280         | 120 | 62,640           |                                                                                                            |
| iii      | Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes by DGPS and boundary coordinates | Per Point of observation | 1.6.2    | 19,200   | 30    | 576000           | -   | -                | 21 BHs and 9 boundary coordinates                                                                          |
|          | <b>Sub Total- A</b>                                                                                                    |                          |          |          |       | <b>44,31,460</b> |     | <b>13,71,300</b> |                                                                                                            |
| <b>B</b> | <b>TRENCHING &amp; PITTING</b>                                                                                         |                          |          |          |       |                  |     |                  |                                                                                                            |
| i        | Pitting (1mx1mx2m)                                                                                                     | per cubic m              | 2.1.2    | 3800     | 200   | <b>7,60,000</b>  | 0   | -                | Jaharitola-(200 cubic m), Mundatola-(200 cubic m)                                                          |
|          | <b>Sub Total- B</b>                                                                                                    |                          |          |          |       | <b>7,60,000</b>  |     | -                |                                                                                                            |
| <b>C</b> | <b>DRILLING</b>                                                                                                        |                          |          |          |       |                  |     |                  |                                                                                                            |
| i        | Drilling upto 300m (2 rig )                                                                                            | m                        | 2.2.1.4a | 7,168    | 1,200 | 8601600          | -   | -                | Jaharitola-(10 nos: 650 m), Mundatola-(11 nos: 715 m)                                                      |
| ii       | Land / Crop Compensation                                                                                               | per BH                   | 5.6      | 20,000   | 21    | 420000           | -   | -                | Amount will be reimburse 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    | 21    | 42000            | -   | -                |                                                                                                            |
| iv       | Transportation of Drill Rig & Truck associated per drill (2 rigs)                                                      | Km                       | 2.2.8    | 36       | 3,000 | 108000           | -   | -                | Certification in this regard is required to be provided                                                    |
| v        | Monthly Accommodation Charges for drilling Camp (up to 2 Rigs)                                                         | month                    | 2.2.9    | 50,000   | 3     | 150000           | -   | -                |                                                                                                            |
| vi       | Drilling Camp Setting Cost (2 rigs)                                                                                    | Nos                      | 2.2.9a   | 2,50,000 | 2     | 500000           | -   | -                |                                                                                                            |

*Q. D. Rath*  
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*Q. D. Rath*  
16/04/2025

|          |                                                                                                                                                                                                                                             |     |         |          |       |                    |    |          |                                                                                                          |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------|----------|-------|--------------------|----|----------|----------------------------------------------------------------------------------------------------------|
| vii      | Drilling Camp Winding up Cost (2 rigs)                                                                                                                                                                                                      | Nos | 2.2.9b  | 2,50,000 | 2     | 500000             | -  | -        |                                                                                                          |
| viii     | Approach Road Making (Flat Terrain)                                                                                                                                                                                                         | Km  | 2.2.10a | 22,020   | 4     | 88080              | -  | -        | Road Making will be considered as per the requirement and Road Making Charges will be reimbursed later   |
| ix       | Core Preservation: One complete borehole plus mineralised cores of all the remaining Bhs                                                                                                                                                    | m   | 5.3     | 1,590    | 1,100 | 1749000            | -  | -        | This amount will be reimbursed after successful delivery of the cores to concerned libraries/authorities |
|          | <b>Sub Total- D</b>                                                                                                                                                                                                                         |     |         |          |       | <b>1,21,58,680</b> | -  | -        |                                                                                                          |
| <b>C</b> | <b>LABORATORY STUDIES</b>                                                                                                                                                                                                                   |     |         |          |       |                    |    |          |                                                                                                          |
| <b>1</b> | <b>Chemical Analysis</b>                                                                                                                                                                                                                    |     |         |          |       |                    |    |          |                                                                                                          |
| <b>i</b> | <b>Primary &amp; Check samples for Graphite</b>                                                                                                                                                                                             |     |         |          |       |                    |    |          |                                                                                                          |
|          | a. Bedrock Primary samples for 9 radicals i.e., CaO, MgO, SiO <sub>2</sub> , Fe <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub> , SO <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , K <sub>2</sub> O, Na <sub>2</sub> O & LOI  | Nos | 4.1.15a | 4,200    | 100   | 420000             | 40 | 1,68,000 | Jaharitola-(50 nos),<br>Mundatola-(50 nos)                                                               |
|          | b. Pit Primary samples for 9 radicals i.e., CaO, MgO, SiO <sub>2</sub> , Fe <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub> , SO <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , K <sub>2</sub> O, Na <sub>2</sub> O & LOI      | Nos | 4.1.15a | 4,200    | 100   | 420000             | -  | -        | Jaharitola-(100 nos),<br>Mundatola-(100 nos)                                                             |
|          | c. Borehole Primary samples for 9 radicals i.e., CaO, MgO, SiO <sub>2</sub> , Fe <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub> , SO <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , K <sub>2</sub> O, Na <sub>2</sub> O & LOI | Nos | 4.1.15a | 4,200    | 1,000 | 4200000            | -  | -        | Jaharitola-(630 nos),<br>Mundatola-(693 nos)                                                             |
|          | d. External(10%) Check samples from NABL Lab for 9 radicals i.e., CaO, MgO, SiO <sub>2</sub> , Fe <sub>2</sub> O <sub>3</sub> ,                                                                                                             | Nos | 4.1.15a | 4,200    | 120   | 504000             | -  | -        |                                                                                                          |

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|----------|------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------|----------|------------------|------------------------------------------------------------------------------------------------------------------------------|
|          | Al <sub>2</sub> O <sub>3</sub> , SO <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , K <sub>2</sub> O, Na <sub>2</sub> O & LOI |     |                           |                                                                                                                                                               |    |                    |          |                  |                                                                                                                              |
| <b>2</b> | <b>Physical &amp; Petrological Studies</b>                                                                                   |     |                           |                                                                                                                                                               |    |                    |          |                  |                                                                                                                              |
| i        | Preparation of thin section                                                                                                  | Nos | 4.3.1                     | 2,353                                                                                                                                                         | 10 | 23530              | 5        | 11,765           |                                                                                                                              |
| ii       | Complete petrographic study report                                                                                           | Nos | 4.3.4                     | 4,232                                                                                                                                                         | 10 | 42320              | 5        | 21,160           |                                                                                                                              |
| v        | Digital Photographs                                                                                                          | Nos | 4.3.7                     | 280                                                                                                                                                           | 10 | 2800               | 5        | 1,400            |                                                                                                                              |
| vi       | Bulk Density studies                                                                                                         | Nos | 4.8.1                     | 3,540                                                                                                                                                         | 4  | 14160              | -        | -                |                                                                                                                              |
|          | <b>Sub Total- E</b>                                                                                                          |     |                           |                                                                                                                                                               |    | <b>56,26,810</b>   |          | <b>2,02,325</b>  |                                                                                                                              |
| <b>D</b> | <b>Total A to E</b>                                                                                                          |     |                           |                                                                                                                                                               |    | <b>2,29,76,950</b> |          | <b>15,73,625</b> |                                                                                                                              |
| <b>E</b> | <b>Geological Report Preparation</b>                                                                                         |     | <b>5.2</b>                | For the projects having cost exceeding Rs. 150 lakhs - A minimum of Rs. 7.5 lakhs or 3% of the value of work whichever is more. 3000 per each additional copy |    | <b>7,50,000</b>    | <b>1</b> | <b>1,50,000</b>  | Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET. |
| <b>F</b> | <b>Peer review Charges</b>                                                                                                   |     | <b>As per EC decision</b> |                                                                                                                                                               |    | <b>30,000</b>      | <b>1</b> | <b>30,000</b>    |                                                                                                                              |

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|       |                                                                                                                                                                                                                                                                             |                                |     |                                                  |  |             |              |           |                                                                                                                                                                            |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-----|--------------------------------------------------|--|-------------|--------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| G     | Preparation of Exploration Proposal (5 Hard copies with a soft copy)                                                                                                                                                                                                        | 5 Hard copies with a soft copy | 5.1 | 2% of the Cost or Rs. 5 Lakhs whichever is lower |  | 4,59,539    | 1            | 31,473    | EA has to submit the Hard Copies and the soft copy of the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal. |
| H     | Total Estimated Cost without GST                                                                                                                                                                                                                                            |                                |     |                                                  |  | 2,42,16,489 |              | 17,85,098 |                                                                                                                                                                            |
| I     | Provision for GST (18% of I)                                                                                                                                                                                                                                                |                                |     |                                                  |  | 43,58,968   |              | 3,21,318  | GST will be reimburse as per actual and as per notified prescribed rate                                                                                                    |
| J     | Total Estimated Cost with GST                                                                                                                                                                                                                                               |                                |     |                                                  |  | 2,85,75,457 | 285.75 lakhs | 21,06,415 |                                                                                                                                                                            |
| K     | Rs. In lacs                                                                                                                                                                                                                                                                 |                                |     |                                                  |  |             |              | 21.06     |                                                                                                                                                                            |
| 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.                                                                                                                                                                          |                                |     |                                                  |  |             |              |           |                                                                                                                                                                            |

*Parath*  
16/04/25

*San*  
16/04/2025