

Ministry of Mines
National Mineral Exploration and Development Trust
Minutes of the 80th Technical-cum-Cost Committee-1 (TCC-1) Meeting held on
28th-29th August, 2025 and 1st September, 2025 through video conferencing

The 80th Meeting of the Technical-cum-Cost Committee-I (TCC-1) of the National Mineral Exploration and Development Trust (NMEDT) 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, NMEDT, on 28th-29th August, 2025 and 1st September, 2025.

Members of TCC-1, NMEDT and representatives from—DMG Maharashtra, DMG, Karnataka, DGM Odisha, DGM, Chhattisgarh; DGM Goa, MECL, TGMDC, KIOCL, HCL, Maheshwari Mining Pvt. Ltd, United Exploration India Pvt. Ltd., Geo Marine Solutions Pvt. Ltd, Bhushilp Mines and Minerals Private Ltd., Gemcokati Exploration Pvt Ltd, Kartikay Exploration and Mining Services Pvt. Ltd., APC Drilling and Constructions Pvt. Ltd., PRB Infra Projects, Geomarine Exploration and Mining Solutions 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, NMEDT, welcomed Dr. S. Ravi, Dy.DG, GSI and Chairman, TCC-1, NMEDT, Members of the TCC-1 and participants representing various Notified Exploration Agencies (NEAs) and Notified Private Exploration Agencies (NPEAs).

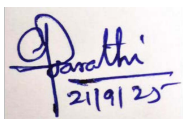
Dr. S. Ravi, Chairman of TCC-1, NMEDT, extended a warm welcome to all members of TCC-1 and participants representing various NEAs and NPEAs and conducted the proceedings as per circulated agenda.

Agenda 80.1: Technical evaluation of new project proposals

Agenda 80.1.1. Reconnaissance survey (G4) for Vanadium, Gallium and other Strategic and Critical Minerals associated with Bauxite & Laterite in Golardih area, Khairagarh-Chhuikhadan-Gandai Districts, Chhattisgarh.

[Implementing Agency: DGM, Chhattisgarh]

- a) The proposed block falls in Survey of India Toposheet 64C/14 and exposes Chilpi Group of rocks.
- b) DGM, Chhattisgarh informed that random sampling was done. The analytical data of the samples collected from the area shows V_2O_5 ranging from 0.109% to 0.512% with average 0.29% and Ga_2O_3 ranging from 0.009% to 0.018% with average 0.0136% in the proposed area.
- c) During the reconnaissance survey of Bhajidongari area F.S. 2023-24, 12 no. of bauxite samples with max 60.82% Al_2O_3 and min 37.04% Al_2O_3 were marked in the area.
- d) Upon review, the committee opined that nearly 50% area falls within Protected Forests and FC may have to be obtained to carry out exploration.
- e) As the area proposed by DGM, Chhattisgarh is very small for G4 level of exploration, the committee advised to reorient the proposed block by extending the block towards



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north and south parallel to laterites shown in the 50k Geol.Map to accommodate more area suitable for reconnaissance survey.

- f) Accordingly, the area has been modified admeasuring 70 sq.km suitable to G4 level by including all the laterite horizons in the area.
- g) DGM Chhattisgarh was further advised to carry out analyses for REE, RM and other critical elements in the area only of those samples which are drawn from the laterites/bauxites developed over mafic and ultramafic rocks.

Recommendations of TCC-1:

The committee recommended the proposal entitled “Reconnaissance Survey (G4) for Bauxite, Aluminous Laterite and associated Critical Minerals in Golardih area, Khairagarh- Chhuikhadan -Gandai districts, Chhattisgarh” for approval of EC, NMEDT with an estimated cost of ₹75.85 lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure - 2A & 2B. The item will be reviewed after 04 and 08 months.

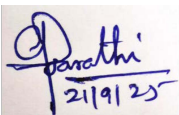
Agenda 80.1.2. Preliminary exploration (G3) for Vanadium, Gallium and other Strategic and Critical Minerals associated with Bauxite & Laterite in Khara East Block, Kabirdham District, Chhattisgarh.

[Implementing Agency: DGM, Chhattisgarh]

- a) The proposed block falls in Survey of India Toposheet 64C/13 and exposes Chilpi Group of rocks.
- b) DGM, Chhattisgarh has carried out G-4 stage reconnaissance survey in the proposed area for iron ore in F.S. 2024-25 and delineated pockets of laterite and bauxite in the area.
- c) Analytical data of surface samples collected from the laterite and bauxite pockets indicates showed Al₂O₃ content varying from 31.46% to 52.50% in the area.
- d) Besides, the lateritic and bauxitic samples have also analyzed Vanadium and Gallium values more than that of cut off values, i.e., V₂O₅ (0.05%) and Ga₂O₃ (0.003%) respectively. The value of V₂O₅ ranged from 0.077% to 0.355% while that of Ga₂O₃ ranges from 0.005% to 0.011%.
- e) Upon review, the committee advised DGM, Chhattisgarh to include the laterite/bauxite block located further north of the proposed block and carry out G3 stage of exploration in both blocks under one project but labelling as Block-A and Block-B.
- f) From the initially proposed sized, the block area is modified to be 02 sq. km encompassing both Block-A and Block-B, with drilling to be carried out in 400x400 m grid interval.

Recommendations of TCC-1:

The committee recommended the proposal entitled “Preliminary Exploration (G3) for Bauxite, Aluminous Laterite and associated critical minerals in Khara East Block-A & Block-B, Kabirdham District, Chhattisgarh” for approval of EC, NMEDT with an estimated cost of ₹112.28 lakhs (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 and 08 months.


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Agenda 80.1.3. Reconnaissance Survey (G4) for Glauconite Sandstone in Magarlod area, Dhamtari District, Chhattisgarh
[Implementing Agency: DGM, Chhattisgarh]

- a) The proposed block falls in Survey of India TS No. 64H/14 and exposes part of Dhamtari Glauconitic Sandstone Belt.
- b) GSI has carried out systematic geological mapping on 1:50000 scale during 1985-86, and reported glauconitic sandstone in the areas vicinity of proposed area.
- c) GSI has also carried out Geochemical Mapping (NGCM) and 23 stream sediment samples of NGCM falls within the proposed area, with K₂O values varying between 1.43 to 4.04%.
- d) Upon review, the TCC-1 of NMEDT advised DGM, Chhattisgarh, to increase the area towards south, so as to include the catchment area of NGCM samples which showed encouraging values for K₂O.

Recommendations of TCC-1:

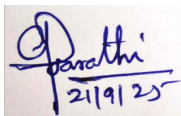
The committee recommended the proposal entitled "Reconnaissance Survey (G4) for Glauconitic Sandstone in Magarlod area, Dhamtari District, Chhattisgarh" for approval of EC, NMEDT with an estimated cost of ₹84.89 Lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure – 4A & 4B. The item will be reviewed after 04 and 08 months.

Agenda 80.1.4. Preliminary exploration (G3) for Iron ore in Parvi Block, Kanker District, Chhattisgarh.
[Implementing Agency: Kartikay Exploration and Mining Services Private Limited]

- a) The proposed block falls in Survey of India TS No. 64H/4 and exposes part of Latmarka Group of rocks.
- b) Geological Survey of India (GSI) has carried out G4 stage exploration in 2008-09, and established the BIF with encouraging values of Fe.
- c) GSI reported four discontinuous iron ore bodies of 750m (cumulative length) with width varying from 14m to 23m having 58.83% to 66.01% Fe.
- d) The committee reviewed the item and suggested the agency to cross check the borehole cross sections and suggested drilling plan with 200 m spacing.
- e) Since the area is already mapped on 1:12500 scale, the BMQ bands are well established no magnetic survey is proposed.

Recommendations of TCC-1:

The committee recommended the proposal entitled "Preliminary Exploration (G3) for Iron in Parvi Block, Kanker District, Chhattisgarh" for approval of EC, NMEDT for with an estimated cost of ₹187.35 lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure – 5A & 5B. The item will be reviewed after 04 and 08 months.



Agenda 80.1.5. Preliminary exploration (G3) for Limestone in Dondapadu Block in Dondapadu Cluster (Cluster-6), Mallareddygudem Mandal, Suryapet District, Telangana
[Implementing Agency: TGMDC]

and

Agenda 80.1.6. Preliminary exploration (G3) for Limestone in Raghunathapalem Block in Raghunathapalem Cluster-3 at Mattampally Mandal, Suryapet District, Telangana
[Implementing Agency: TGMDC]

and

Agenda 80.1.7. Preliminary exploration (G3) for Limestone in Mattampally block 1 & 2 (Cluster-2), Mattampally Mandal, Suryapet District, Telangana
[Implementing Agency: TGMDC]

and

Agenda 80.1.8. Preliminary exploration (G3) for Limestone in Ramapuram Cluster -5, Mallareddygudem Mandal, Suryapet District, Telangana
[Implementing Agency: TGMDC]

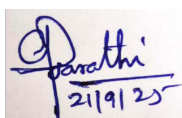
and

Agenda 80.1.9. Preliminary exploration (G3) for Limestone in Mellachuruvvu, Mallareddygudem, Yapalamadavaram blocks of Mellacheruvu Cluster -1, Mellacheruvu Mandal, Suryapet District, Telangana
[Implementing Agency: TGMDC]

and

Agenda 80.1.10. Preliminary exploration (G3) for Limestone in Veerappagudem Cluster-4, Dameracherla Mandal, Nalgonda District, Telangana
[Implementing Agency: TGMDC]

- a) DMG, Telangana gave the briefing about the scope behind the six blocks proposed by TGMDC Ltd. mentioned above.
- b) The entire area has been divided into six clusters namely, 1. Dondapadu (Cluster No.6); 2. Raghunathapalem (Cluster No. 3); 3. Mattampally (Cluster No.2); 4. Ramapuram (Cluster No. 5); 5. Mellacheruvu (Cluster No. 1) and 6. Veerappagudem (Cluster No. 4).
- c) While Cluster Nos. 3, 4, 5 and 6 contain only one block each, the Cluster Nos. 1 & 2 encompasses 03 and 02 sub-blocks respectively for detailed exploration.
- d) Within these 6 clusters, MECL is already working in 3 blocks and 2 more blocks are also approved.
- e) TGMDC Ltd has carried out G-4 stage investigation for delineating cement grade limestone in the proposed blocks. Based on the chemical analyses of surface and subsurface samples cement grade potential area of about 42.28 sq.km was delineated for further exploration.
- f) The biggest block admeasures 8.2 sq.km and smallest 3.85 sq.km.
- g) The committee reviewed the proposals and found that in all the proposed blocks the limestone shows geological continuity and not been reported with any intercalations


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and major structural deformations. Considering this, the implementing agency has been advised to plan for minimum number of boreholes in each block and estimate the resources in Polygon Method.

Recommendations of TCC-1:

The committee recommended the proposal entitled “Preliminary Exploration (G3) For Limestone in Dondapadu Block, Dondapadu Cluster-6, Suryapet District, Telangana” for approval of EC, NMEDT with an estimated cost of ₹103.89 lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure – 6A & 6B. The item will be reviewed after 03 and 07 months.

and

The committee recommended the proposal entitled “Preliminary Exploration (G-3) For Limestone in Raghunathpalem Block, Raghunathpalem Cluster-3 Suryapet District, Telangana” for approval of EC, NMEDT with an estimated cost of ₹98.83 lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure – 7A & 7B. The item will be reviewed after 03 and 07 months.

and

The committee recommended the proposal entitled “Preliminary Exploration (G-3) For Limestone in Mattampally Block-1, Mattampally Cluster-2, Suryapet District, Telangana” for approval of EC, NMEDT with an estimated cost of ₹94.92 lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure – 8A & 8B. The item will be reviewed after 03 and 07 months.

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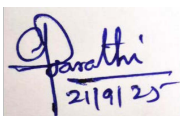
The committee recommended the proposal entitled “Preliminary Exploration (G-3) For Limestone in Mattampally Block-2, Mattampally Cluster-2, Suryapet District, Telangana” for approval of EC, NMEDT with an estimated cost of ₹86.0 lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure – 9A & 9B. The item will be reviewed after 03 and 07 months.

and

The committee recommended the proposal entitled “Preliminary Exploration (G3) For Limestone in Ramapuram Block, Ramapuram Cluster-5, Suryapet District, Telangana” for approval of EC, NMEDT with an estimated cost of ₹92.55 lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure – 10A & 10B. The item will be reviewed after 03 and 07 months.

and

The committee recommended the proposal entitled “Preliminary Exploration (G3) For Limestone in Mellacheruvu Block, Mellacheruvu Cluster-1, Suryapet District, Telangana” for approval of EC, NMEDT with an estimated cost of ₹96.06 lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure – 11A & 11B. The item will be reviewed after 03 and 07 months.


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and

The committee recommended the proposal entitled “Preliminary Exploration (G3) For Limestone in Mallareddygudem Block, Mellacheruvu Cluster-1, Suryapet District, Telangana” for approval of EC, NMEDT with an estimated cost of ₹88.15 lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure – 12A & 12B. The item will be reviewed after 03 and 07 months.

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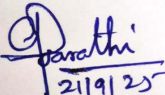
The committee recommended the proposal entitled “Preliminary Exploration (G3) For Limestone in Yepalamadhavaram Block, Mellacheruvu Cluster-1, Suryapet District, Telangana” for approval of EC, NMEDT with an estimated cost of ₹89.85 lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure – 13A & 13B. The item will be reviewed after 03 and 07 months.

and

The committee recommended the proposal entitled “Preliminary Exploration (G3) For Limestone in Veerappagudem Block, Damarcherla Cluster-4, Nalgonda District, Telangana” for approval of EC, NMEDT with an estimated cost of ₹97.3 lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure – 14A & 14B. The item will be reviewed after 03 and 07 months.

**Agenda 80.1.11. Reconnaissance survey (G4) for REE and other Critical minerals in Udaipur – Ramgarh area, Surguja District, Chhattisgarh
[Implementing Agency: MMPL Pvt. Ltd.]**

- a) The proposed block falls in Survey of India TS No. 64J/13. The northern part of the proposed block exposes rocks of Chhotanagpur Gneissic Complex (CGC) while the sedimentary sequences of Lower Gondwana Group cover the remaining area.
- b) The NGCM work by GSI in the proposed area indicates total REE having maximum values > 1514.64 ppm.
- c) The NGCM data for other critical minerals shows values as: Co-394ppm, Rb-192 ppm, Sr-132 ppm, Zr-1343 ppm, Sc-94 ppm, V-164 ppm, Hf-83.39 ppm, Ba-1570 ppm and K₂O- 5.28% in the proposed Block.
- d) Reconnaissance survey for Li, REE, Tungsten, done by GSI during F.S.2018-19 in the adjacent Toposheet No. 64J/10 and 11 from the proposed block have analysed anomalous values for Rare Metals.
- e) The committee reviewed the proposal and opined that the area has to be reduced by focusing in sectors with rocks of Gondwanas and Chotanagpur Gneissic Complex separately.
- f) Presently, the item is to be modified by concentrating only in Gondwanas. Random sampling will be carried out in the area with Chotanagpur Gneissic Complex and if the values are found to be encouraging, a separate item may be formulated.


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Recommendations of TCC-1:

The committee recommended the proposal entitled “Reconnaissance Survey (G4) for REE, RM and Other Critical Minerals in Udaipur-Ramgarh area, Sarguja District, Chhattisgarh” for approval of EC, NMEDT with an estimated cost of ₹135.23 lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure – 15A & 15B. The item will be reviewed after 04 and 08 months.

Agenda 80.1.12. Preliminary exploration (G3) for Graphite in Kodabata Block, Rayagada District, Odisha.

[Implementing Agency: MMPL Pvt. Ltd.]

- a) The proposed block falls in Survey of India TS No. 65M/11. The proposed area exposes rocks of Tumudibandh Shear Belt (Eastern Ghats Mobile Belt).
- b) The present exploration program (G3) has been formulated on the basis of the outcome of previous work (G4) of the agency in the Kanapulisi area under NMEDT funding which indicated six numbers of sub parallel graphite bands.
- c) The maximum and minimum thicknesses of the bands intersected were 4.71 m and 0.68 m. The average FC% for the bands varies from 2.24% to 5.98%.
- d) A resource of 0.123 million tonnes has been estimated by MMPL at 4.5 % average weighted FC in G4 stage.
- e) The committee reviewed the proposal and suggested that all the boreholes should be planned in such a way to intersect the main graphite horizon at systematic interval i.e. at 100 m spacing and 30 m vertical depth in 1st level and subsequent 60 m depths in 2nd level.
- f) The committee also opined that scale of mapping will be 1:2000, as the graphite bands are very thin and engulfed with in the multi-deformed terrain.

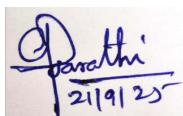
Recommendations of TCC-1:

The committee recommended the proposal entitled “Preliminary Exploration (G3) For Graphite in Kodabata Block, Rayagada District, Odisha” for approval of EC, NMEDT with an estimated cost of ₹314.31 lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure – 16A & 16B. The item will be reviewed after 03 and 06 months.

Agenda 80.1.13. Preliminary exploration (G3) for Graphite in Saharha Block, Rayagada District, Odisha

[Implementing Agency: MMPL Pvt. Ltd.]

- a) The proposed block falls in Survey of India TS No. 65M/11. The proposed area exposes rocks of Tumudibandh Shear Belt (Eastern Ghats Mobile Belt).
- b) The present exploration program (G3) has been formulated on the basis of the outcome of previous work (G4) of the same agency in the Darukona area under NMEDT funding.
- c) In the western part of the proposed block, four numbers of graphite bands were interpreted by agency where the average true thickness of the bands varies from 1.9 m to 12.6 m and the average fixed carbon content (FC) varies from 3.42% to 9.08%.


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- d) In the eastern part of the proposed block two numbers of graphite bands with average true thickness of 8.38 m and 2.23 m and average FC% of 2.9 % and 3.52% respectively were interpreted by agency.
- e) A resource of 0.123 million tonne has been estimated by MMPL at 4.5% average weighted FC in G4 stage of investigation.
- f) The committee reviewed the proposal and suggested that all the boreholes should be planned in such a way to intersect the main graphite horizon at systematic interval i.e. at 100 m spacing and 30 m vertical depth in 1st level and subsequent 60 m depths in 2nd level.
- g) The committee also opined that scale of mapping will be 1:2000, as the graphite bands are very thin and engulfed with in the multiply deformed terrain.

Recommendations of TCC-1:

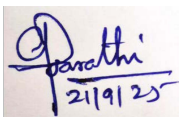
The committee recommended the proposal entitled “Preliminary Exploration (G3) For Graphite in Saharha Block, Rayagada District, Odisha” for approval of EC, NMEDT with an estimated cost of ₹338.48 lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure – 17A & 17B. The item will be reviewed after 03, 06 and 08 months.

**Agenda 80.1.14. Reconnaissance Survey (G4) for REE and associated minerals in Nakchi area, Angul District, Odisha
[Implementing Agency: MECL]**

- a) The proposed block falls in Survey of India TS No. 73D/09. The block spans two geological domains —the Eastern Ghats Mobile Belt (EGMB) in the central and southern parts, and the Upper Gondwana Group in the north.
- b) Out of 43 SS samples collected during NGCM programme of GSI, 30 samples (~70%) contain more than 1,000 ppm Σ REE. High anomalies are shown by 20 samples with 6 and 14 samples yielding TREE values exceeding 2,000 ppm and 1,500 ppm respectively.
- c) Analytical data show LREE concentrations ranging from 383.08 to 6,907.66 ppm (avg. 1,350.94 ppm), HREE from 85.85 to 266.37 ppm (avg. 128.86 ppm), and TREE from 473.73 to 7,174.03 ppm (avg. 1,479.80 ppm).
- d) GSI’s G4 exploration work (2023-24) in the area, east of the proposed block, also confirms secondary REE enrichment, particularly in ferruginous sandstones of the Kamthi Formation, derived largely from khondalite rocks of the EGMB.
- e) AMD confirmed that there is no overlap of work but apprised that values of U is reported in the adjoining areas.
- f) The committee reviewed the item and recommended for exploration under G4 stage and advised MECL to identify the regolith horizon in the area for REE so as to identify the secondary enrichment.

Recommendations of TCC-1:

The committee recommended the proposal entitled “Reconnaissance Survey (G4) for REE and associated minerals in Nakchi Area, Angul District, Odisha” for approval of EC, NMEDT with an estimated cost of ₹143.85 lakhs (including GST) within


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time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure – 18A & 18B. The item will be reviewed after 04 and 08 months.

Agenda 80.1.15. Preliminary exploration (G3) for Limestone in West of Yepalamadhavaram Block, Suryapet District, Telangana.

[Implementing Agency: MECL]

- a) The proposed block falls in Survey of India TS No. 56P/13 and forms a part of the Palnad Sub-Basin, situated in the northeastern portion of the Cuddapah Basin, which is largely occupied by the Kurnool Group of rocks of Neoproterozoic age.
- b) 19 PL reports required evaluation to ascertain the stage of exploration (G4, G3, etc.) in accordance with the Minerals (Evidence of Mineral Contents) Rules, 2015.
- c) Subsequently, the Department of Geology and Mining (Telangana) in consultation with GSI, MECL, and IBM, reviewed the status of PL reports on 04.06.2025. It was collectively suggested that certain areas be revisited for further exploration.
- d) The committee reviewed the item and found that the proposed block Lies in the vicinity of blocks with 10A(2)b cases.
- e) The committee also opined that number of boreholes may be reduced by avoiding the boreholes falling closure to the boundary.

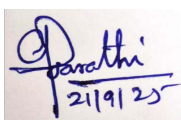
Recommendations of TCC-1:

The committee recommended the proposal entitled “Preliminary Exploration (G3) for Limestone in West of Yepalamadhavaram Block, District- Suryapet, Telangana” for approval of EC, NMEDT with an estimated cost of ₹77.90 lakhs (including GST) within time schedule of 8 months for carrying out the proposed work and submission of report as per Annexure – 19A & 19B. The item will be reviewed after 04 months.

Agenda 80.1.16. Preliminary exploration (G3) for Limestone in Revuru Block, Suryapet District, Telangana.

[Implementing Agency: MECL]

- a) The proposed block falls in Survey of India TS No. 56P/13 and forms a part of the Palnad Sub-Basin, situated in the northeastern portion of the Cuddapah Basin, which is largely occupied by the Kurnool Group of rocks of Neoproterozoic age.
- b) 19 PL reports required evaluation to ascertain the stage of exploration (G4, G3, etc.) in accordance with the Minerals (Evidence of Mineral Contents) Rules, 2015.
- c) Subsequently, the Department of Geology and Mining (Telangana) in consultation with GSI, MECL, and IBM, reviewed the status of PL reports on 04.06.2025. It was collectively suggested that certain areas be revisited for further exploration.
- d) The committee reviewed the item and found that the proposed block Lies in the vicinity of blocks with 10A(2)b cases.
- e) The committee also opined that number of boreholes may be reduced by avoiding the boreholes falling closure to the boundary.


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Recommendations of TCC-1:

The committee recommended the proposal entitled “Preliminary Exploration (G3) for Limestone in Revuru Block, District- Suryapet, Telengana” for approval of EC, NMEDT with an estimated cost of ₹70.84 lakhs (including GST) within time schedule of 8 months for carrying out the proposed work and submission of report as per Annexure – 20A & 20B. The item will be reviewed after 04 months.

**Agenda 80.1.17. Reconnaissance survey (G4) for Aluminous Laterites and associated critical minerals around Nakhare area, Ratnagiri District, Maharashtra
[Implementing Agency: Bhushilp Mines and Minerals Private Limited]**

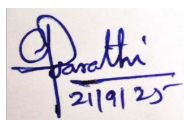
- a) The proposed block falls in Survey of India TS No. 47H/05 and belongs to Sahyadri Group in the Western Ghats as well as the rocks of the Dharwar Supergroup of rocks.
- b) The project was reviewed earlier in the 78th meeting of TCC-1. The agency was advised to collect samples from the proposed area and analyze for Al₂O₃ and other trace elements.
- c) The agency presented the results of analysis carried out.
- d) Upon review, the committee noticed that the chemical analysis was not carried out by the NABL accredited Lab and hence advised the agency to again collect the samples in a very scientific way along the proper profile lines, in proper horizon and get them analyzed in accredited labs.
- e) The committee opined that if values are found to be encouraging, then decision will be taken.

Recommendations of TCC-1:

The committee did not approve the item entitled “Reconnaissance survey (G4) for Aluminous Laterites and associated critical minerals around Nakhare area, Ratnagiri District, Maharashtra” proposed by Bhushilp Mines and Minerals Pvt.Ltd.

**Agenda 80.1.18. Reconnaissance survey (G4) for critical minerals associated with Aluminous Laterite in Dhaulvali-Barsu area, Ratnagiri District, Maharashtra
[Implementing Agency: Bhushilp Mines and Minerals Private Limited]**

- a) The proposed area is well known for the occurrence of aluminous laterite in the Western Ghat and forms a part of SOI TS No. 47H/06.
- b) The project was reviewed earlier in the 78th meeting of TCC-1. The agency was advised to collect samples from the proposed area and analyze for Al₂O₃ and other trace elements.
- c) The agency presented the results of analysis carried out.
- d) Upon review, the committee noticed that the chemical analysis was not carried out by the NABL accredited Lab and hence advised the agency to again collect the samples in a very scientific way along the proper profile lines, in proper horizon and get them analyzed in accredited labs.
- e) The committee opined that if values are found to be encouraging, then decision will be taken.


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Recommendations of TCC-1:

The committee did not approve the item entitled “Reconnaissance survey (G4) for critical minerals associated with Aluminous Laterite in Dhaulvali-Barsu area, Ratnagiri District, Maharashtra” proposed by Bhushilp Mines and Minerals Private Limited.

Agenda 80.1.19. Reconnaissance Survey (G4) for Graphite in Malisira area, Balangir District, Odisha.

[Implementing Agency: Bhushilp Mines and Minerals Private Limited]

- a) The proposed block falls in Survey of India Toposheet 64P/3 and forms a part of the rocks of the Eastern Ghat Supergroup represented by quartz-garnet sillimanite graphite schists and gneisses (khondalites), garnetiferous quartzites, calc-granulites, granite gneisses (porphyroblastic and non-porphyroblastic), migmatites, and associated pegmatites and quartz veins.
- b) GSI informed the committee that the block is overlapping with the GSI's block allocated to GSI by state DGM under Cluster-52 and Cluster-15.
- c) DMG Odisha also apprised the committee that the block is already allocated to GSI under Rule No. 67 for exploration.
- d) MECL also informed the committee that the proposed area is overlapping with the area already allocated to GSI and MECL.
- e) It is also found that MMPL has also proposed the block with in the area under project for in-principle approval.

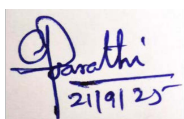
Recommendations of TCC-1:

The committee did not recommend the proposal entitled “Reconnaissance Survey (G4) for Graphite in Malisira area, Balangir District, Odisha” submitted by Bhushilp Mines and Minerals Pvt.ltd due to overlapping issues.

Agenda 80.1.20. Reconnaissance survey (G4) for copper ore and associated mineralisation in Bodal area, Mohla Manpur Ambagarh Chowki District, Chhattisgarh.

[Implementing Agency: Hindustan Copper Limited]

- a) The proposed block falls in Survey of India Toposheet 64D/14.
- b) The agency apprised the committee that The Bodal project area shows significant anomalous responses for Cu, Pb, Zn, Au and Ag, where sampling was done at 100m spacing.
- c) The committee reviewed the proposal and advised the agency to prepare the overlays of geology, geophysics, GCM maps and MMI (Mobile Metal Ion geochemistry) responses data to identify the target area.
- d) The NGCM values of Cu displayed by the HCL in respect of the area is not encouraging. They are in the range of only 10 to 20 ppm. HCL showed the anomalous zones identified through MMI. However, HCL could not display values of their own.
- e) HCL is advised to consult NGPM map of the area-subsurface structure-to corroborate the zone identified through MMI and display them.


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- f) The committee sought clarity on the mineral system to be targeted and exploration scheme. The agency presented their plan and stated topographic survey, followed by Geological Mapping on 1:12500, ASTER Study along with collection of Soil Samples, Stream Sediment Samples, Bedrock and Trench samples.
- g) The committee agreed upon the above schema under Phase-1 followed by the Geophysical Survey in the selective potential pockets along with scout drilling in Phase-2.
- h) The item is approved. Available data of AMD and GSI in the area needs to be consulted. Geophysical survey will be carried out after completion of LSM and surface sampling. Geophysical survey will be followed by drilling.

Recommendations of TCC-1:

The committee recommended the proposal entitled “Reconnaissance Survey (G4) for Copper (Cu) in Bodal area, Mohla Manpur Ambagarh Chowki District, Chhattisgarh” for approval of EC, NMEDT with an estimated cost of ₹252.28 lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure – 21A & 21B. The item will be reviewed after 03, 06 and 09 months.

Agenda 80.2: Project Evaluation for In-Principle Approval

Agenda 80.2.1. Reconnaissance survey (G4) for critical minerals in Ranmangli area, Nagpur District, Maharashtra

[Implementing Agency: Bhushilp Mines and Minerals Private Limited]

- a) The proposed block falls in Survey of India Toposheet 55P/05. The Ran Mangli prospect is occupied by a sequence of meta-sedimentary and meta-volcanic rocks with pre and early kinematic intrusive bodies, eruptive flows and effusive rocks.
- b) The agency described their proposal to the committee. The committee reviewed the proposal and opined that the data presented by agency is insufficient.
- c) The committee suggested the agency to consult and compile the available NGCM and NGPM data of the area.
- d) The committee also suggested the agency to reduce the proposed area.
- e) The committee was suggested to revise the proposal in wake of comments received from members and to resubmit again in the upcoming TCC meeting under in-principle proposal.

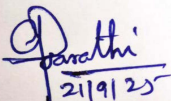
Recommendations of TCC-1:

The committee deferred the proposal and advised the agency to resubmit the proposal with more substantiation.

Agenda 80.2.2. Reconnaissance survey (G4) for Graphite in Malisira-Gulmi-Mahulpada areas, Balangir District, Odisha

[Implementing Agency: MMPL Private Limited]

- a) The proposed block falls in Survey of India Toposheet 64P/3 and forms a part of the rocks of the Eastern Ghat Supergroup.


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- b) The agenda was not discussed as the similar item was proposed as DPR by another agency (BMMPL), wherein it was found that the proposed area is overlapping with the area already allocated to GSI and MECL.

Recommendations of TCC-1:

The committee did not recommend the proposal.

Agenda 80.2.3. Preliminary exploration (G3) for Nickel, Chormium, Gold and PGE in Anjaniya Block, Mahasamund -Sarangarh Bilaigarh districts, Chattisgarh [Implementing Agency: MMPL Private Limited]

- a) The proposed block falls in Survey of India Toposheet 64K/14.
- b) Preliminary investigation for Platinum Group of Elements (PGE) and Ni in the ultrabasic rocks of Chandranagar and Lohardadar area, Raipur district, Chhattisgarh was carried out by GSI in 2012-13.
- c) In Chandranagar block, Cr value ranges from 15 to 595 ppm, Co value from 50 to 580 ppm, Ni value from 300 to 2900 ppm and Au value <50 ppb. In Lohardadar block, Cr value ranges from 132 to 1500 ppm, Co from 83 to 1132 ppm, Ni from 469 to 2100 ppm and Au value <50 ppb.
- d) The MgO content of ultramafic schist is 28.66 %. Ni content is 325 ppm and Cr is 0.26% while the ultrabasic bodies at Chandranagar and Lohardadar have MgO contents of 31.58% and 31.50% respectively, the Ni content in the ultrabasic rock of Lohardadar and Chandranagar is 0.23% and 0.21%, respectively. The Cr content in these rocks is 90 ppm and 80 ppm respectively.
- e) The committee reviewed the proposal and opined that the area should be reduced and the work should be focused on localized zone of mineralization.
- f) The agency should visit the field, collect data and then present DPR with reduced area with maximum ultramafic package.

Recommendations of TCC-1:

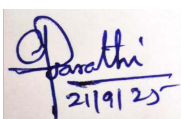
The committee approved the proposal in-principle and suggested the agency to visit the field, collect samples and narrow down the area.

Agenda 80.2.4. Reconnaissance survey (G4) for REE and associated minerals in Nangavalli- Karuppareddiyur areas, Salem District, Tamil Nadu. [Implementing Agency: APC Drilling and Constructions Pvt. Ltd.]

- a) The proposed block falls in Survey of India Toposheet 58E/13 and forms part of Dharmapuri alkaline province.
- b) AMD apprised the committee that the proposed area is already being explored by AMD.
- c) Since, the area is overlapping with the AMD block, hence the committee dropped the proposal.

Recommendations of TCC-1:

The committee did not approve the proposal.



Agenda 80.2.5. Preliminary exploration (G3) for PGE, REE, Nickel, Chromium, and associated minerals in Torappadi Ultramafic complex, Tiruvanamalai District, Tamil Nadu.

[Implementing Agency: Geomarine Solutions Pvt. Ltd.]

- a) The proposed block falls in Survey of India Toposheet 57L/15 and forms part of Torappadi Ultramafic Complex.
- b) GSI has carried out LSM in the area and the minimum and maximum values of ΣPGE (Pt, Pd, Ir, Rh and Ru) analysed are 7 and 381 ppb respectively, with an average of 77 ppb.
- c) The trace elements (Cu, Co, Ni and Cr) and platinum group of elements (Pt, Pd, Ir, Ru, Rh) of Bed Rock Samples (BRS) for 148 samples yielded Ni values from 58 ppm to 1190 ppm and Cr values from 143 ppm to 8500 ppm.
- d) The committee reviewed the proposal and opined that the available data is not sufficient for G3 study.
- e) The agency is advised to assess the existing data in depth, identify the gap in the data, and identify the scope of the work and methodology of exploration proposed and possible outcome.
- f) The item may be submitted again for in-principle approval addressing the above requirement.

Recommendations of TCC-1:

The committee deferred the proposal.

Agenda 80.2.6. Preliminary Exploration (G3) for Gold (Au) and Copper (Cu) in Vettathur-Maruthampara Block, Palakkad and Malappuram Districts, Kerala.

[Implementing Agency: Geomarine Solutions Pvt. Ltd.]

- a) The proposed block falls in Survey of India Toposheet 58A/4, 58A/8, 58B/1 and 58B/5.
- b) The agency dropped the proposal due to poor results obtained from random sampling.

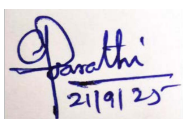
Recommendations of TCC-1:

The agency withdrew the proposal and did not present for review.

Agenda 80.2.7. Reconnaissance Survey (G4) for Graphite in Cherpunkal- Vazhoor area, Kottayam District, Kerala.

[Implementing Agency: Geomarine Solutions Pvt. Ltd.]

- a) The proposed block falls in Survey of India Toposheet 58C/10. The Charnockitic group of rocks and garnet biotite gneiss are most widespread group of rocks in the area.
- b) GSI apprised the committee that the proposed area has an overlapping with the EL block submitted by SU:Kerala which is to be placed in the forthcoming tranche and hence dropped.


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Recommendations of TCC-1:

The committee did not approve the proposal.

Agenda 80.2.8. Reconnaissance Survey (G4) for Graphite in Kudaishal- Adoor area, Pathanamthitta District, Kerala.

[Implementing Agency: Geomarine Solutions Pvt. Ltd.]

- a) The proposed block falls in Survey of India TS No. 58C/12.
- b) GSI has previously carried out Geological Mapping and reported garnet-sillimanite-graphite-biotite gneiss with associated concordant bodies of quartzite, quartz-feldspar granulite/gneiss/ pyroxene granulite and pyroxenite.
- c) GSI has also reported that graphite occurs as minute flakes and scales. At places in pegmatoidal portions large aggregates of graphite flakes, garnet and spinel are noted.
- d) GSI apprised the committee that nearly 68 sq.km area of the proposed area has overlapping with the ongoing mineral biased STM item.
- e) The committee advised the agency to assess the remaining area and resubmit if potentiality is demonstrated through some sample values.

Recommendations of TCC-1:

The committee did not approve the proposal with present area, however it is suggested to modify the area and resubmit if mineral potentiality is proved through sample analysis.

Agenda 80.2.9. Reconnaissance Survey (G4) for Graphite in Poovarani-Kanjirappally area, Kottayam District, Kerala.

[Implementing Agency: Geomarine Solutions Pvt. Ltd.]

- a) The proposed block falls in Survey of India TS No. 58C/10. The Charnockitic group of rocks and garnet biotite gneiss are most widespread group of rocks in the area.
- b) GSI apprised the committee that the proposed area has an overlapping with the EL block submitted by SU: Kerala which is to be placed in the forthcoming tranche and hence dropped.

Recommendations of TCC-1:

The committee did not approve the proposal.

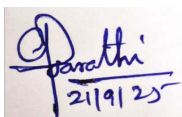
Agenda 80.2.10. Reconnaissance Survey (G4) for Scandium and associated critical minerals in Kungarupalaiyam and Valavanallur areas, Tiruppur District, Tamilnadu.

[Implementing Agency: Geomarine Solutions Pvt. Ltd.]

- a) The proposed block falls in Survey of India TS No. 58F/09.
- b) The agency withdrew proposal.

Recommendations of TCC-1:

The agency withdrew the proposal and did not present for review.


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Agenda 80.2.11. Reconnaissance Survey (G4) for Scandium and associated critical minerals in Kannapuram and Ponparappu areas, Tiruppur District, Tamilnadu.

[Implementing Agency: Geomarine Solutions Pvt. Ltd.]

- a) The proposed block falls in Survey of India TS No. 58F/09.
- b) GSI apprised the committee that the proposed block has approximately 80% of overlapping with areas already explored or under execution by GSI.

Recommendations of TCC-1:

The committee did not approve the proposal due to overlapping with explored areas.

Agenda 80.2.12. Reconnaissance survey (G4) for REEs, critical minerals and rare metals (RM) in alkaline carbonatite complex of Mecheri area, Salem and Dharmapuri districts, Tamil Nadu.

[Implementing Agency: Geomarine Solutions Pvt. Ltd.]

- a) The proposed block falls in Survey of India TS No. 58E/13 and rocks of Alkaline Carbonatite Complex is exposed.
- b) The agency withdrew proposal.

Recommendations of TCC-1:

The agency withdrew the proposal and did not present for review.

Agenda 80.2.13. Reconnaissance Survey (G4) for Scandium and associated Basemetal and critical minerals in Kundadam and Velliyampalayam areas, Tiruppur District, Tamil Nadu

[Implementing Agency: Geomarine Solutions Pvt. Ltd.]

- a) The proposed block falls in Survey of India TS No. 58F/05.
- b) The area exposes post-tectonic high-Mg Ultramafic rocks and numerous pegmatite intrusions into the charnockite / granulite / basement. Some of these pegmatite veins which were analyzed and resulted in Scandium values ranging from 47.8-1535.1 ppm.
- c) The agency withdrew proposal.

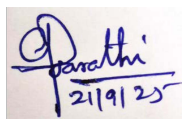
Recommendations of TCC-1:

The agency withdrew the proposal and did not present for review.

Agenda 80.2.14. Reconnaissance Survey (G4) for Scandium and associated Basemetal and critical minerals in Rudravathi and Karappalayam areas, Tiruppur District, Tamil Nadu

[Implementing Agency: Geomarine Solutions Pvt. Ltd.]

- a) The proposed block falls in Survey of India Toposheet 58F/05.
- b) The area exposes post-tectonic high-Mg Ultramafic rocks and numerous pegmatite intrusions into the charnockite / granulite / basement. Some of these pegmatite veins


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which were analyzed and resulted in Scandium values ranging from 47.8-1535.1 ppm.

- c) The agency withdrew proposal.

Recommendations of TCC-1:

The agency withdrew the proposal and did not present for review.

Agenda 80.2.15. Preliminary exploration (G3) for Ni, Cu, Co and PGE mineralization in aluminous laterite in Bhenale-Alorna Block, North Goa District, Goa

[Implementing Agency: Geomarine Solutions Pvt. Ltd.]

- a) The proposed block falls in Survey of India TS No. 48E/14 and forms a part of volcano-sedimentary sequence represented by Goa Group intruded by ultramafic rocks belonging to the Usgaon ultramafic complex.
- b) Mostly all the lithotypes of the area have undergone lateritisation. Weathering of peridotite, pyroxenite, dunite and serpentinite mostly in tropical and subtropical climatic conditions which yields the nickeliferous laterite.
- c) GSI has carried out G4 investigation for Nickel and associated mineralization around Alorna area.
- d) Analytical result of bedrock samples from variants of mafic-ultramafics shows that, Sc, V, Ni, Co and Cr values range from <4 to 173 ppm, <20 to 356 ppm, <2 to 3165ppm, <1 to 231 ppm and 57 ppm to 4.02% respectively.
- e) GSI apprised the committee that the proposed area is overlapping with the GM block of GSI that is handed to DMG, Goa.

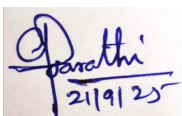
Recommendations of TCC-1:

The committee did not approve the proposal.

Agenda 80.2.16. Preliminary exploration (G3) for Ni, Cu, Co and PGE mineralization in aluminous laterite, Hasapur-Ibrampur Block, North Goa District, Goa

[Implementing Agency: Geomarine Solutions Pvt. Ltd.]

- a) The proposed block falls in Survey of India TS No. 48E/14 and forms a part of volcano-sedimentary sequence represented by Goa Group intruded by ultramafic rocks belonging to the Usgaon ultramafic complex.
- b) Weathering of peridotite, pyroxenite, dunite and serpentinite mostly in tropical and subtropical climatic conditions has yielded nickeliferous laterite.
- c) GSI has carried out G4 investigation for Nickel and associated mineralization around Alorna area and reported 0.4 % of Ni with anomalous Co values (634 ppm) in regolith sample collected from laterised metagabbro.
- d) The analytical results of PTS (n=50) show Ni values range from 508 to 2295 ppm, Co values range from 28 to 282 ppm, TiO₂ values ranges from 0.06 to 1.16 %, Ga values range from 8 to 32 ppm, Cr values range from 1004 to 1.78 %, Cu values range from 45 to 601ppm and Zn values ranges from 49 to 192 ppm.
- e) The committee reviewed the proposal and opined that the area may be reduced by avoiding non- bauxite area.
- f) The agency is also suggested to bring the DPR with field inputs and analytical results of their own.


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Recommendations of TCC-1:

The committee approve the proposal in-principle. DPR to be submitted with modified area and field inputs.

**Agenda 80.2.17. Preliminary Exploration (G3) for Bauxite, Vanadium, Gallium and REE in Nadan Block, Sindhudurg District, Maharashtra
[Implementing Agency: Geomarine Solutions Pvt. Ltd.]**

- a) The proposed block falls in Survey of India TS No. 47H/07.
- b) GSI apprised the committee that the proposed area partly overlaps with the GM area submitted by SU: Maharashtra.
- c) DMG Maharashtra also apprised the committee that the block is overlapping with the existing leases and auctionable blocks.

Recommendations of TCC-1:

The agency withdrew the proposal and did not present for review.

**Agenda 80.2.18. Preliminary Exploration (G3) for Bauxite, Vanadium, Gallium and REE in Pural Block, Sindhudurg District, Maharashtra
[Implementing Agency: Geomarine Solutions Pvt. Ltd.]**

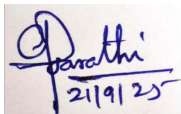
- a) The proposed block falls in Survey of India TS No. 47H/07.
- b) GSI (FS: 2022-23) has carried out a reconnaissance survey in Padel area, Sindhudurg District, Maharashtra and reported aluminous laterite within the 1-10m depth of plateau top, whereas, ferruginous laterite from hill slope and valley portion of the area.
- c) The total REE in bauxite and aluminous laterite varies from 5.18 to 1402 ppm.
- d) The value of gallium (Ga) varied from 42 to 89 ppm, whereas, V value varied from 306 to 1270 ppm.
- e) The committee reviewed the proposal and opined that the area has encouraging values.
- f) The committee has advised the agency to visit field and get samples analyzed and then present DPR.

Recommendations of TCC-1:

The committee approved the proposal in-principle, subject to comments received from DMG, Maharashtra.

**Agenda 80.2.19. Preliminary Exploration (G3) for Bauxite, Vanadium, Gallium and REE in Virwadi Block, Sindhudurg District, Maharashtra
[Implementing Agency: Geomarine Solutions Pvt. Ltd.]**

- a) The proposed block falls in Survey of India TS No. 47H/07.
- b) GSI (FS: 2022-23) has carried out a reconnaissance survey in Padel area, Sindhudurg District, Maharashtra and reported aluminous laterite within the 1-10m depth of plateau top, whereas, ferruginous laterite from hill slope and valley portion of the area.


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- c) The total REE in bauxite and aluminous laterite varies from 5.18 to 1402 ppm.
- d) The value of gallium (Ga) varied from 42 to 89 ppm, whereas, V value varied from 306 to 1270 ppm.
- e) The committee reviewed the proposal and opined that the area has encouraging values, but the proposed area is overlapping with GSI's GM Block (Nadan Block), hence the proposal is not approved.
- f) However, the committee advised the agency to take coordinates from GSI and DGM and revise the proposal and may resubmit as either DPR or in-principle proposal.

Recommendations of TCC-1:

The committee did not approve the proposal with the current detail. However, the agency may resubmit the revised proposal.

Agenda 80.2.20. Preliminary Exploration (G3) for Vanadium, Titanium and associated minerals along coastal tract in Bhatye-Gaonkhadi Block, Ratnagiri District, Maharashtra.

[Implementing Agency: Geomarine Solutions Pvt. Ltd.]

- a) The proposed block falls in Survey of India TS No. 47H/05.
- b) GSI has carried out reconnaissance (G4 stage) surveys to locate heavy mineral-rich horizons along the coastal tracts of Maharashtra between 2017-18 and 2019-20 and reported anomalous values of vanadium from many beaches.
- c) GSI has taken up (in the current field season 2025-26) preliminary exploration for Titanium and Vanadium in four stretches, namely 1. Kelshi to Anjarle, 2. Harnai to Karde, 3. Khar to Umbarwadi, and 4. Dhokmale to Kalbadevi in Ratnagiri district.
- d) 22 grab samples were collected, by agency, from 6 separate dunes from the proposed coastal tract from Bhatye to Gaonkhadi.
- e) The concentration of heavy minerals from these six dunes varied from 0.46 to 98.87%.
- f) The committee reviewed the item and suggested that coordinates of six dunes should be given separately. The committee also advised the agency to modify the boundary by excluding the GSI's ongoing exploration.
- g) The committee also advised the agency to collect some samples and get it analyzed for monazite from DAE. If the monazite is less than the threshold value, then exploration can be taken up.

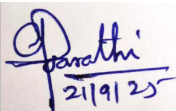
Recommendations of TCC-1:

The committee approved the proposal in-principle with modifications as suggested.

Agenda 80.2.21. Preliminary Exploration (G3) for Vanadium, Titanium and associated minerals along coastal tract in Aravi-Harihareshwar Block, Raigad District, Maharashtra.

[Implementing Agency: Geomarine Solutions Pvt. Ltd.]

- a) The proposed block falls in Survey of India Toposheet 47B/16, 47F/4, 47G/1.


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- b) GSI has carried out reconnaissance (G4 stage) surveys to locate heavy mineral-rich horizons along the coastal tracts of Maharashtra between 2017-18 and 2019-20 and reported anomalous values of vanadium from many beaches.
- c) The proposed coastal tract from Aravi to Harihareshwar has three sandy beaches Aravi, Srivardhan and Harihareshwar and concentration of heavy minerals at these places are 54.18 wt%, 83.43 wt% and 93.21 wt% respectively.
- d) 23 grab samples were collected, by agency, from 3 separate dunes from the proposed coastal tract and the concentration of V varied from 172 to 2308 mg/kg. whereas the TiO₂ varied from 6.84 to 27.82%.
- e) The committee reviewed the proposal and suggested that coordinates of three dunes should be given separately. The committee also advised the agency to modify the boundary by excluding the GSI's ongoing exploration
- f) The committee also advised the agency to collect some samples and get it analyzed for monazite from DAE. If the monazite is less than the threshold value, then exploration can be taken up.

Recommendations of TCC-1:

The committee approved the proposal in-principle with modifications as suggested.

80.3 Review of Ongoing Projects/ Completed Project & Timeline Extension

Agenda 80.3.1. Preliminary Exploration (G3) for REE Mineralization in Maravapaliyam Block (2.0 sq. km), Tiruppur District, Tamil Nadu.

[Implementing Agency: MECL]

- a) MECL informed that the project was approved in the 37th EC Meeting held on 23rd September, 2024. The Sanction Order was issued on 22nd October, 2024 with timeline of 12 months (up to 21.10.2025) and approved cost was INR 1,25,17,179/-.
- b) Detailed Mapping (DM) of 2 sq.km on 1:2000 scale is completed.
- c) Heavy Mineral Studies is not completed till now.
- d) Auger drilling is partially completed. Analytical results of core samples are pending.
- e) The committee reviewed the progress of project and advised MECL to expedite the analysis and come back again in the month of October with analysis, including the analytical values of pit samples G4 level investigation.

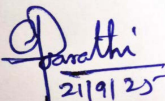
Recommendations of TCC-1:

The committee advised the agency to expedite the work and come again in upcoming TCC of October month for another review.

Agenda 80.3.2. Preliminary exploration (G3) for limestone in Mukteswarapuram Block, Suryapet district, Telangana.

[Implementing Agency: MECL]

- a) MECL informed that the project was approved in the 43rd EC Meeting held on 14th August, 2025. The Sanction Order was issued on 2nd July, 2025 with timeline of 7 months (up to 01.02.2026) and approved cost was INR 92,94,204/-.


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- b) Detailed Mapping and Topographic Survey of 2 sq.km out of 4.57 sq. km. on 1:4000 scale is completed and the agency presented the drilling plan.
- c) The agency apprised the committee that Limestone has been established at 1:4000 scale and drilling has been planned at 800x800 m grid interval.
- d) The committee reviewed the progress of work and drilling plan of the project.
- e) The committee approved the drilling plan at 800x800 m spacing and suggested to judiciously plan the borehole locations falling closer to the block boundary. Borehole locations should be planned in such a way that at least the boundary falls 150 to 200 m distances.

Recommendations of TCC-1:

The committee approved the drilling at 800x800 m grid interval.

Agenda 80.3.3. Preliminary exploration (G3) for limestone in Pedaveedu East Block, Suryapet district, Telangana.

[Implementing Agency: MECL]

- a) MECL informed that the project was approved in the 43rd EC Meeting held on 14th August, 2025. The Sanction Order was issued on 2nd July, 2025 with timeline of 7 months (up to 01.02.2026) and approved cost was INR 86,46,360/-.
- b) Detailed Mapping of 4.17 sq. km. on 1:4000 is completed and the agency presented the drilling plan.
- c) The agency apprised the committee that Limestone has been established at 1:4000 scale and drilling has been planned at 800x800 m grid interval.
- d) The committee reviewed the progress of work and drilling plan of the project.
- e) The committee approved the drilling plan at 800x800 m spacing and suggested MECL to judiciously plan the borehole locations falling closer to the block boundary. Borehole locations should be planned in such a way that at least the block boundary falls 150 to 200 m distances.

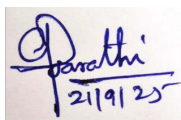
Recommendations of TCC-1:

The committee approved the drilling at 800x800 m grid interval.

Agenda 80.3.4. Preliminary exploration (G3) for limestone in Pedaveedu West Block, Suryapet district, Telangana.

[Implementing Agency: MECL]

- a) MECL informed that the project was approved in the 43rd EC Meeting held on 14th August, 2025. The Sanction Order was issued on 2nd July, 2025 with timeline of 7 months (up to 01.02.2026) and approved cost was INR 88,95,875/-.
- b) MECL informed that the project was approved in the 43rd EC Meeting held on 14th August, 2025. The Sanction Order was issued on 2nd July, 2025 with timeline of 7 months (up to 01.02.2026) and approved cost was INR 86,46,360/-.
- c) Detailed Mapping of 4.17 sq. km. on 1:4000 is completed and the agency presented the drilling plan.
- d) The agency apprised the committee that Limestone has been established at 1:4000 scale and drilling has been planned at 800x800 m grid interval.


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- e) The committee reviewed the progress of work and drilling plan of the project.
- f) The committee approved the drilling plan at 800x800 m spacing and suggested MECL to judiciously plan the borehole locations falling closer to the block boundary. Borehole locations should be planned in such a way that at least the boundary falls 150 to 200 m distances.

Recommendations of TCC-1:

The committee approved the drilling at 800x800 m grid interval.

Agenda 80.3.5. Preliminary Exploration (G3) for Kyanite and Sillimanite in Malada Block (2.10 sq. km), Bhandara District, Maharashtra.

[Implementing Agency: MECL]

- a) MECL informed that the project was approved in the 41st EC Meeting held on 11th March, 2025. The Sanction Order was issued on 19th March, 2025 with timeline of 10 months (up to 18.01.2026) and approved cost was INR 1,40,41,096/-.
- b) MECL also informed that the proposed block is one of the 10A 2(b) cases selected for further exploration by the State Govt. and allotted to MECL for further exploration.
- c) Geological mapping, topographical survey has been completed and few samples have been collected.
- d) MECL informed the committee that Geological traverses in the block has established the following lithounits: Quartz-mica schist and quartzite of Sakoli Group, Laterite (Cenozoic) and Alluvium (Quaternary).
- e) The agency also apprised the committee that 95% of the area is under soil cover.
- f) Work is under progress but no kyanite or sillimanite bands found so far.
- g) The committee reviewed the progress of project and advised MECL to execute trenching and pitting along the strike direction of the existing pit and establish the kyanite and sillimanite bodies.

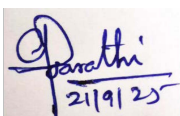
Recommendations of TCC-1:

Trenching and pitting should be carried out along the strike direction of existing pits to the kyanite and sillimanite bodies.

Agenda 80.3.6. Preliminary Exploration (G3) for Graphite in Patimal Block (4.00 sq. km), District Balangir, Odisha.

[Implementing Agency: MECL]

- a) MECL informed that the project was approved in the 37th EC Meeting held on 23rd September, 2025. The Sanction Order was issued on 22nd October, 2024 with timeline of 12 months (up to 21.10.2025) and approved cost was INR 2,07,65,227/-.
- b) The proposed block is one of the 10A 2(b) cases selected for further exploration by the State Govt. and allotted to MECL for further exploration.
- c) Geological mapping (4.00 sq.km.), topographical survey and geophysical survey(SP) have been completed.
- d) Geophysical survey results show alternating positive and negative SP values forming linear patterns in the central part, suggesting structural control (faults/fractures) for graphite concentration.
- e) Five such potential locations have been identified for further ground validation.


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- f) The agency sought a timeline extension upto 31.03.2026.
- a) The committee reviewed the progress and advised the agency to update the progress in the month of October, 2025.

Recommendations of TCC-1:

The committee did not agree for extension of timeline at this stage. The committee advised the agency to continue with the ongoing work and then update the progress in the month of October, 2025.

Agenda 80.3.7. Preliminary Exploration (G3) for Graphite in Chormunda Block, District- Balangir and Nuapara, Odisha.

[Implementing Agency: MECL]

- a) MECL informed that the project was approved in the 36th EC Meeting held on 29th July, 2024. The Sanction Order was issued on 29th August, 2024 with timeline of 12 months (up to 28.08.2025) and approved cost was INR 2,59,52,279/-.
- b) The proposed blocks are one of the 10A 2(b) cases selected for further exploration by the State Govt. and allotted to MECL for further exploration.
- c) MECL informed the committee that the project could not be executed due to strong local opposition. Several meetings were held with local authorities but yielded no resolution. The matter was also raised in various meetings with the State Government; however, the anticipated support could not be materialized.
- d) MECL informed that the matter was discussed in the review meeting chaired by Addl. Chief Secretary, Govt. of Odisha held on 01.03.2025. The issue was also apprised in the review meeting on 29.07.2025 under the chairmanship of Secretary (Mines) with Govt. of Odisha.
- e) DMG Odisha also apprised the committee that the area is highly sensitive.
- f) The agency sought an approval for surrender of project.
- g) The committee advised the agency to submit all the correspondences and minutes of different meetings held with concerned authorities, so that the issue may be discussed in EC meeting.

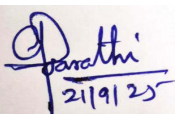
Recommendations of TCC-1:

The committee instructed the agency to submit all the correspondences and minutes of all the meetings held with concerned authorities to NMET, so that the issue may be discussed in EC meeting regarding surrender of the project.

Agenda 80.3.8. Preliminary Exploration (G3) for Graphite in Temrimal Block, District- Balangir and Bargarh, Odisha

[Implementing Agency: MECL]

- a) MECL informed that the project was approved in the 36th EC Meeting held on 29th July, 2024. The Sanction Order was issued on 29th August, 2024 with timeline of 12 months (up to 28.08.2025) and approved cost was INR 2,73,71,348/-.
- b) The proposed blocks are one of the 10A 2(b) cases selected for further exploration by the State Govt. and allotted to MECL for further exploration.
- c) MECL informed the committee that the project could not be executed due to strong local opposition. Several meetings were held with local authorities but yielded no


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resolution. The matter was also raised in various meetings with the State Government; however, the anticipated support could not be materialized.

- d) MECL informed that the matter was discussed in the review meeting chaired by Addl. Chief Secretary, Govt. of Odisha held on 01.03.2025. The issue was also apprised in the review meeting on 29.07.2025 under the chairmanship of Secretary (Mines) with Govt. of Odisha.
- e) DMG Odisha also apprised the committee that the area is highly sensitive.
- f) The agency sought an approval for surrender of project.
- g) The committee advised the agency to submit all the correspondences and minutes of different meetings held with concerned authorities, so that the issue may be discussed in EC meeting.

Recommendations of TCC-1:

The committee instructed the agency to submit all the correspondences and minutes of all the meetings held with concerned authorities to NMET, so that the issue may be discussed in EC meeting regarding surrender of the project.

Agenda 80.3.9. Reconnaissance Survey (G4) for Glauconitic Sandstone in Parsada-Nawapara-Gurur Block (146.27 sq km), District- Balod, Chhattisgarh.

[Implementing Agency: MECL]

- a) MECL informed that the project was approved in the 35th EC Meeting held on 16th May, 2024. The Sanction Order was issued on 10th June, 2024 with timeline of 12 months (up to 09.06.2025) and approved cost was INR 1,16,74,787/-. Timeline was extended upto 09.09.2025 in 43rd EC meeting.
- b) MECL informed the committee that the Geological Report (GR) is peer reviewed.
- c) The committee reviewed the Peer Reviewer's comments and MECL's compliance reports and suggested MECL to prepare compliance report under a few comments as per the technical observations made by them instead of references from the published literature. The report is approved for submission.
- d) Committee also suggested the agency that since there is difference in the quantum and achievement of targets (especially under Pit and Pit sampling and drilling), a revised cost sheet may be submitted for approval.

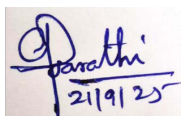
Recommendations of TCC-1:

The committee approved the submission of GR and suggested MECL to present revised cost sheet in upcoming TCC meeting for approval.

Agenda 80.3.10. Preliminary Exploration (G3) for Limestone in Mundra-Chilai Block (4.38 Sq. km) District- Yavatmal, Maharashtra

[Implementing Agency: MECL]

- a) MECL informed that the project was approved in the 38th EC Meeting held on 29th November, 2024. The Sanction Order was issued on 12th December, 2024 with timeline of 10 months (up to 11.10.2025) and approved cost was INR 90,62,708/-.



- b) MECL also apprised the committee that on request of DGM, Maharashtra 10A(2)(b) lapsed lease for limestone in Yavatmal District, exploration work taken up by MECL.
- c) MECL carried out topographical survey and geological mapping on 1:4000 scale.
- d) Total 05 no. of borehole were drilled upto to a vertical depth of 50m. Dolomite is intercepted in all boreholes (except BH No. MMC-04) with average thickness of 44.60 m.
- e) Two active limestone/dolomite mines are located to the north east and south east of the block, indicating the economic relevance and continuity of these carbonate units in the area.
- f) MECL apprised the committee that resource of SMS (LD) Grade Dolomite, as per MEMC rules 2015 (Amended 2021), is established to be 360.87 MT.
- g) The committee reviewed the item, and approved the submission of report.
- h) The committee opined that there is a reduction in the target under drilling, number of boreholes and core samples etc., hence, revised cost sheet to be submitted for review.

Recommendations of TCC-1:

The committee approved the submission of GR. The item is recommended for the approval of EC for revised cost from Rs. 90.63 lakh to Rs. 68.32 lakh as per Annexure 22.

**Agenda 80.3.11. Reconnaissance survey (G4) for Iron Ore in Nawagarh-Nelsod-Antagarh area, District-Uttar Bastar Kanker, Chhattisgarh
[Implementing Agency: PRB Infra Projects]**

- a) PRB Infra Projects informed that the project was approved in the 40th EC Meeting held on 21st February, 2025. The Sanction Order was issued on 3rd March, 2025 with timeline of 10 months (up to 02.01.2026) and approved cost was INR 1,16,66,705/-.
- b) The agency apprised the progress of work to committee and informed that the banded rocks are occurring as lenticular enclaves within Bengpal Gneiss of Chhattisgarh Group. Laterite and quartzites are also seen as enclaves.
- c) Fe values in the bedrock samples from the area range from 22 to 67%. Area is not encouraging for Mn. However, Antagarh Ridge is having average 33% of Fe, Nawagad area have 23 to 59% Fe and Metabodeli Area has yielded maximum of 50%Fe.
- d) Additional samples of 05 nos. of samples for Specularite Hematite Quartzite is approved.
- e) Three boreholes are approved, one in the east, one at the hinge and one at the western side. i.e., PH-1, PH-2 and PH-7 are approved.
- f) The committee also opined that XRD analysis for few samples to be added in NQT.

Recommendations of TCC-1:

The committee approved the drilling of borehole nos. PH-1, PH-2 and PH-7 in the proposed locations and analysis of additional 5 samples for Specularite Hematite Quartzite.

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**Agenda 80.3.12. Preliminary Exploration (G3) for Bauxite in Nittadgi Block, Uttara
Kannada District, Karnataka
[Implementing Agency: PRB Infra Projects]**

- a) PRB Infra Projects informed that the project was approved in the 40th EC Meeting held on 21st February, 2025. The Sanction Order was issued on 3rd March, 2025 with timeline of 10 months (up to 02.01.2026) and approved cost was INR 1,16,66,705/-.
- b) The agency informed the committee that the project has not been initiated due to non-availability of FC. All the documents are duly filled and submitted but FC is still awaited.
- c) The committee instructed the agency that the detailed correspondences and efforts made with DoEF to be formally communicated to NMEDT.

Recommendations of TCC-1:

The committee instructed the agency to submit all the correspondences regarding FC to NMEDT formally.

**Agenda 80.3.13. Reconnaissance Survey (G4) for Basemetal, Gold and associate
minerals in Nagavanda area Davangere, Haveri and Shimoga District,
Karnataka
[Implementing Agency: KIOCL]**

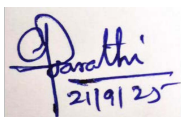
- a) KIOCL informed that the project was approved in the 28th EC Meeting held on 16th March, 2023. The Sanction Order was issued on 27th March, 2023 with timeline of 12 months (up to 26.03.2024) and approved cost was INR 1,47,62,526/-. Timeline extension was approved till 30.06.2024, 31.12.2024 and 31.05.2025 by 63rd TCC, 36th EC and 40th EC respectively.
- b) The project was reviewed in 77th, 78th and 79th TCC-I meetings and it was recommended to submit final GR and the revised cost sheet.
- c) The committee observed that the GR has already been submitted to NMEDT for circulation, hence ratification of revised cost is required.
- d) The agency presented the revised cost sheet which was approved for ratification.

Recommendations of TCC-1:

The committee reviewed the revised cost. The item is recommended to EC for ratification of cost from Rs. 147.62 lakh to Rs. 85.37 lakh with a change in amount of (-) Rs 57.87 lakhs (~39.2 % de-escalation) as per Annexure 23.

**Agenda 80.3.14. Preliminary Exploration (G3) for limestone in Chokkanathapuram
Block (8.5 Sq Km), Ariyalur and Perambalur Districts, Tamil Nadu
[Implementing Agency: Geo Exploration and Mining Solutions]**

- a) Geo Exploration and Mining Solutions informed that the project was approved in the 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on


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10th February, 2025 with timeline of 8 months (up to 09.10.2025) and approved cost was INR 2,24,59,105/-.

- b) The agency presented the progress of work and apprised the committee that 8.5 sq. km of DM on 1:4000 scale has been completed.
- c) The committee reviewed the work and opined that the project has not progressed much. Only DM and three boreholes, out of 14, are completed.
- d) The agency has been advised to expedite the drilling, if needed drilling rig may be increased.
- e) The agency is instructed to present the progress of work again in the next TCC for review.

Recommendations of TCC-1:

The committee advised the agency to expedite the drilling work and present the progress of work again in the next TCC-I meeting.

**Agenda 80.3.15. Preliminary Exploration (G3) for limestone in Kulumur Block (7.64 Sq. Km), Ariyalur and Perambalur Districts, Tamil Nadu
[Implementing Agency: Geo Exploration and Mining Solutions]**

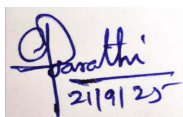
- a) Geo Exploration and Mining Solutions informed that the project was approved in the 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 10th February, 2025 with timeline of 8 months (up to 09.10.2025) and approved cost was INR 2,25,09,644/-.
- b) The agency presented the progress of work which committee did not find satisfactory.
- c) The committee reviewed the work and opined that the project has not progressed much.
- d) The agency has been advised to expedite the drilling, if needed drilling rig may be increased.
- e) The agency is instructed to present the progress of work again in the next TCC for review.

Recommendations of TCC-1:

The committee advised the agency to expedite the drilling work and present the progress of work again in the next TCC-I meeting.

**Agenda 80.3.16. Preliminary Exploration (G3) for Copper and Associated minerals in Govindpur Block, Chandrapur district, Maharashtra
[Implementing Agency: Kartikay Exploration and Mining Services Private Limited]**

- a) Kartikay Exploration and Mining Services Private Limited informed that the project was approved in the 36th EC Meeting held on 29th July, 2024. The Sanction Order was issued on 21st August, 2024 with timeline of 8 months (up to 20.04.2025) and approved cost was INR 1,26,07,813/-. Timeline extension upto 20.07.2025 was approved by 76th TCC.
- b) The agency informed the committee that Geological Mapping and Geophysical Survey has been completed. Out of approved target of 10 trench (160 cu.m.), only 5 trench (80 cu.m.) is completed.
- c) Forest clearance also could not be obtained.


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- d) The committee reviewed the progress of work, and opined that from the analytical data received, so far, the area is not found to be encouraging.
- e) Timeline extension was sought for submission of GR.
- f) The agency was instructed to submit revised cost sheet in upcoming TCC.

Recommendations of TCC-1:

The agency is instructed to expedite the drilling work and present the progress of work again in next TCC-I meeting. Timeline extension upto 31.10.2025 for submission of GR is recommended for approval of EC.

Agenda 80.3.17. Preliminary exploration (G3) for Vanadium, Titanium and associated minerals in beach and dune sands of Talashil Block in Sindhudurg district, Maharashtra.

[Implementing Agency: GeoMarine Solutions Pvt. Ltd.]

- a) GeoMarine Solutions Pvt. Ltd. informed that the project was approved in the 34th EC Meeting held on 13th March, 2024. The Sanction Order was issued on 12th March, 2024 with timeline of 10 months (up to 11.01.2025) and approved cost was INR 1,36,13,863/-. Timeline extension upto 28.02.2025 was approved by 73rd TCC-I. The item was reviewed in 73rd and 74th meeting of TCC-1.
- b) The committee was apprised that report has been circulated.
- c) The agency sought an ex-post facto approval of timeline extension up to 31st March, 2025 due to delay in uploading the report in NGDR.
- d) Additional cost towards radiometric elements analysis of 10 samples at AMD Labs is approved.

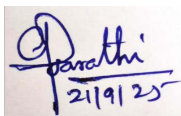
Recommendations of TCC-1:

The committee recommended timeline extension upto 31.03.2025 for ex-post facto approval of EC. Additional cost towards radiometric elements analysis is approved and agency is advised to bring revised cost sheet in upcoming TCC-1.

Agenda 80.3.18. Preliminary exploration (G3) for Aluminous Laterite and Associated Critical Elements (V, Ga, & REE) in Mundalli Block, Uttara Kannada District, Karnataka.

[Implementing Agency: GeoMarine Solutions Pvt. Ltd.]

- e) GeoMarine Solutions Pvt. Ltd. informed that the project was approved in the 38th EC Meeting held on 29th November, 2024. The Sanction Order was issued on 30th December, 2024 with timeline of 10 months (up to 29.10.2025) and approved cost was INR 90,92,156/-.
- f) Geo Marine Solutions informed the committee that a certification from NMET in respect of core recovery percentage is required to submit along with the invoice to Dy. DG for countersigning.
- g) The project was discussed in 79th TCC-I meeting, wherein the committee had suggested the agency to present the borehole wise core recovery details and analysis of core samples.
- h) The committee reviewed the core recovery details and opined that recovery is very less and requires ratification.


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- i) The committee members opined that dry drilling should have been adopted.
- j) Detailed note justifying the drilling method, core recovery percentage, implications on the resource estimation to be submitted.

Recommendations of TCC-1:

The agency is instructed to submit detailed note justifying the drilling method, core recovery percentage, implications on the resource estimation to NMET.

**Agenda 80.3.19. Reconnaissance Survey (G4) for Graphite in Nawadih Block (32.04 sq.km.), District Balrampur, Chhattisgarh
[Implementing Agency: United Exploration India Pvt. Ltd.]**

- a) United Exploration India Pvt. Ltd. informed that the project was approved in the 30th EC Meeting held on 6th June, 2023. The Sanction Order was issued on 26th June, 2023 with timeline of 6 months (up to 25.12.2023) and approved cost was INR 27,72,193/-.
- b) During the review of the GR of the project, the implementing agency informed trenching could not be carried out in the area due to local issue.
- c) The GR without trench was reviewed by TCC-1 and approved for final submission. However, NMET suggested to submit the GR after accomplishing all the target envisaged in the project. Accordingly, the agency has resubmitted the report and ask for sending it to internal peer review.

Recommendations of TCC-1:

The committee advised NMET to send the report for peer review.

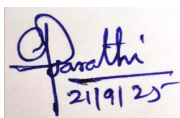
**Additional Agenda 80.3.20. Reconnaissance Survey (G-4 stage) for Iron Ore in Arewada – Hitapadi Block (27 sq km), District: Gadchiroli, Maharashtra
[Implementing Agency: M/s. Gemcokati Exp. Pvt. Ltd.]**

- a) GemcoKati Exploration Private Limited informed that the project was approved in the 38th EC Meeting held on 29th November, 2024. The Sanction Order was issued on 06th January, 2025 with timeline of 06 months (up to 05.07.2025) and approved cost was INR 16,57,688/. Timeline extension upto 31.08.2025 was approved in 43rd EC meeting.
- b) The agency discussed the peer reviewers' comments on GR and compliance report on comments.
- c) The committee suggested that the outcomes of the additional studies carried out needs to be discussed in the text.
- d) The report is approved for submission.

Recommendations of TCC-1:

The committee approved the submission of GR.

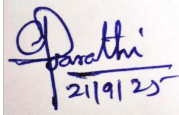
**Additional Agenda 80.3.21. Preliminary Exploration (G-3) for Limestone in Sawalhira (East) Block, Chandrapur District, Maharashtra
[Implementing Agency: M/s. Gemcokati Exp. Pvt. Ltd.]**



- a) GemcoKati Exploration Private Limited informed that the project was approved in the 35th EC Meeting held on 16th May, 2024. The Sanction Order was issued on 10th June, 2024 with timeline of 10 months (up to 09.04.2025) and approved cost was INR 86,70,545/-. Time extension upto 30.06.2025 was approved in 75th TCC-I meeting.
- b) The agency discussed the peer reviewers' comments on GR and compliance report on comments.
- c) The committee suggested that the resource should be categorically expressed in the summary.
- d) The report is approved for submission.

Recommendations of TCC-1:

The committee approved the submission of GR.



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List of participants attended 80th Meeting of Technical-cum-cost Committee (TCC-I) of NMEDT held on 28th, 29th August, 2025, and 1st September, 2025 through video conferencing mode

S.no	Name	Designation	Email ID	Contact No	Organization
1	Dr. S. Ravi	Dy. Director General, GSITI, Hyderabad	s.ravi1@gsi.gov.in	9441138834	Chairman, TCC-1
2	Shri. I.R. Kirmani	ADG (Retd.), GSI	irkirmani@yahoo.com	9414014723	Member TCC-1
3	Shri. Hemraj Suryavanshi	Addl. Director General (Retd.), GSI	hemraj.nmet@gmail.com	9425603674 7477042176	Member TCC-1
4	Shri. K. Koteswara Rao	Dy.D.G. (Retd.) GSI	kkrao1957@gmail.com	9000117969	Member TCC-1
5	Dr. S. K. Kulshrestha	DDG-RMH-III, NER, GSI, Shillong	s.kulshrestha@gsi.gov.in	9413330658	Member TCC-1
6	Dr.E.V.S.S.K. Babu	Scientist (G), NGRI	evsskbabu@ngri.res.in	9441535852	Member TCC-1
7	Shri. S.K. Adhikari	Chief Mining Geologist, IBM, Nagpur	skadhikari@ibm.gov.in	7588690545	Member TCC-1
8	Shri. P.K. Maharana	DGM (Finance), NALCO, Bhubaneswar	pmaharana@rediffmail.com	8500669500	Member TCC-1
9	Shri. Ravi Kumar Gupta	General Manager (Finance) HCL, Kolkata	ravi_g@hindustancopper.com	9433274328	Member TCC-1
10	Smt. Vandana	Cost Accounts Officer, RSAS, Bangalore, GSI	vandana@gsi.in	8660939235	Member TCC-1
11	Shri. C. Parthasarathi	Director, GSI & Member Secretary, TCC- NMET, GSI, Bengaluru	c.parthasarathi@gsi.gov.in	9483186932	Member Secretary TCC-1
12	Shri K. Rajasekhara Reddy	General Manager(Mining)	krsreddymingengineer@gmail.com	8008558580	TGMDC Ltd.,
13	Shri P. Sri Ranga Reddy	General Manager (Exploration)	panyalasarirangareddy@gmail.com	9866295219	TGMDC Ltd.,
14	Smt. G. Madhurya	Geologist	madhurya.geo@gmail.com	7893305550	TGMDC Ltd.,
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52	Representative				
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Estimated Cost for Reconnaissance Survey (G4) for Bauxite, Aluminous Laterite and associated Critical Minerals in Golardih area, Khairagarh-Chhuikhadan-Gandai districts, Chhattisgarh (Area: 70 sq. Km.), Timeline: 10 months, Review after: 4 and 8 months

S. No.	Item of work	Unit	Rates as per NMET SoC 2020-21		Total		Remark
			SoC Item - S. No.	Rates as per SoC	Qty.	Amount	
A.	GEOLOGICAL WORK						
1	Survey Party Days (1 party)	Day	1.6.1a	8300	0	0	
2	Labour charges for Survey work	Per Labour	5.7	541	0	0	
3	Geologist Party Days (1 Party) Field	Day	1.3	11000	0	0	In-house (150 days)
4	Geologist Party Days (1 Party) HQ	Day	1.3	9000	0	0	In-house
5	Labour charges for Geological Field work	Per Labour	5.7	541	300	162300	
6	Sampler	Day	1.5.2	5100	76	387600	
7	Labour for Sampling	Per Labour	5.7	541	304	164464	
8	DGPS for borehole fixation	per point of observation	1.6.2	19200	5	96000	
	Sub Total A					810364	
B.	DRILLING						
1	Surface drilling (1 rig)	Meter	2.2.1.3a	10100	75	757500	5 BH each of 15 m
2	Road making (Rugged-Hilly terrain)	Per km	2.2.10b	32200	10	322000	
3	Transportation (1 rig)	Per km	2.2.8	36	325	11700	
4	Monthly Accommodation charges for drilling camp	Monthly basis	2.2.9	50000	2	100000	
5	Camp Establishment cost	Per Drill	2.2.9a	250000	1	250000	

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6	Camp Winding	Per Drill	2.2.9b	250000	1	250000	
7	Drill Core Preservation	Per Meter	5.3	1590	75	119250	
	Sub Total B					1810450	
C.	LABORATORY STUDIES						
a	Bulk density	per sample	4.8.1	1605	5	8025	
b.	Chemical Analysis						
1	Primary + Check Samples						
	(i) Primary Samples (Al ₂ O ₃ ,TiO ₂ , MgO%, SiO ₂ , , Fe ₂ O ₃ %, P ₂ O ₅ , & LOI, V, Ga,)	per sample	4.1.15a	4200	355	1491000	280 BRS + 75 core samples
	(ii) For Check Samples (Al ₂ O ₃ ,TiO ₂ , MgO%, SiO ₂ , , Fe ₂ O ₃ %, P ₂ O ₅ , & LOI, V, Ga,)	per sample	4.1.15a	4200	35	147000	10% of total samples
	(iii) For Composite samples (Al ₂ O ₃ ,TiO ₂ , MgO%, SiO ₂ , , Fe ₂ O ₃ %, P ₂ O ₅ , & LOI, V, Ga,)	per sample	4.1.15a	4200	0	0	One sample per borehole
	(iv) Combined determination of Trihydrate alumina(THA- 144° C), Monohydrate alumina (MHA-240° C) & reactive silica	per sample	4.1.17a	6700	15	100500	20% of samples of boreholes
	(v) Analysis for 34 elements (REE and others including Sc) by ICPMS (by outsourcing)	per sample	4.1.14	7,731	200	1546200	Analysis for Scandium for all samples
	(vi) Preparation of standard thin section	per sample	4.3.1	2353	10	23530	
	(vii) Petrological study	per sample	4.3.4	4232	10	42320	
	Sub Total C					3358575	
D.	Total A + B + C				-	5979389	
E.	Peer review					30000	

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	Preparation of exploration proposal	One Number (5 Hard copies along with soft copy)	5.1	2% of the project cost or Rs 3.8 lakh whichever is lower	1	1,19,588	
	Geological Report Preparation	Copy per 5 Hard copies of report along with soft copy	5.2	For the projects having cost upto Rs 150 lakhs : A Minimum of Rs.2.5 lakhs or 5% of the value of work whichever is more	1	2,98,969	
	Sub Total F					448557	
	Grand Total D+F					6427946	
	GST 18%					1157030	
	Grand Total: with GST 18%					7584977	
	Say 75.85 Lakhs						
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency						

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Time Schedule/ Action Plan for Reconnaissance Survey (G4) for Bauxite, Aluminous Laterite and associated Critical Minerals in Golardih area, Khairagarh-Chhuikhadan-Gandai districts, Chhattisgarh

Item of work	1	2	3	4	Review	5	6	7	8	Review	9	10		
Camp setup														
Geological mapping														
Surveying / Contouring														
Sample Analysis														
Review for drilling														
Forest Permission for Drilling														
Drilling														
Sample preparation														
Geologist party days for mapping and sampling														
Analytical work														
Camp winding														
Geological report														

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Annexure 3A

Estimate Cost for Preliminary Exploration (G3) for Bauxite, Aluminous Laterite and Associated Critical Minerals in Khara East Block-A & Block-B, Kabirdham District, Chhattisgarh (AREA: 2 sq. km.), DRILLING: 12 BH Nos., TOTAL DRILLING: 250m; TIMELINE: 10 months, REVIEW: After 4 and 8 months

S. No.	Item of work	Unit	Rates as per NMET SoC 2020-21		Total		Remark
			SoC Item - S. No.	Rates as per SoC	Qty.	Amount	
A.	GEOLOGICAL WORK (1:4000 scale Geological mapping and Topographical Survey)						
1	Survey Party Days (1 party)	Day	1.6.1a	8300	30	249000	Outsourced
2	Labour charges for Survey work	Per Labour	5.7	541	120	64920	
3	Geologist Party Days (1 Party) Field	Day	1.3	11000	0	0	Refer to Karnataka DMG project
4	Geologist Party Days (1 Party) HQ	Day	1.3	9000	0	0	
5	Labour charges for Geological Field work	Per Labour	5.7	541	240	129840	(For 120 field days)
6	Sampler Days	Day	1.5.2	5100	70	357000	
7	Labour for Sampling	Per Labour	5.7	541	280	151480	
8	DGPS survey for BH fixation & RL determination	Per point of observation	1.6.2	19200	23	441600	12 BH+ 11 cardinal points
	Sub Total A					1393840	
B.	DRILLING						
1	Surface drilling (2 rigs)	Meter	2.2.1.3a	10100	250	2525000	
2	Road making (Rugged-Hilly)	Per km	2.2.10b	32200	10	322000	As per actuals

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	terrain)						
3	Transportation (2 rigs)	Per km	2.2.8	36	640	23040	
4	Monthly Accommodation charges for drilling camp	Monthly basis	2.2.9	50000	2	100000	For 2 rigs (1 month each)
5	Drilling Camp Establishment Cost	Per Drill	2.2.9a	250000	2	500000	
6	Drilling Camp Winding Cost	Per Drill	2.2.9b	250000	2	500000	
7	Drill Core Preservation	Per Meter	5.3	1590	250	397500	
	Sub Total B					4367540	
C.	LABORATORY STUDIES						
a	Bulk density	per sample	4.8.1	1605	5	8025	
b.	Chemical Analysis						
1	Primary + Check Samples						
	(i) Primary Samples (SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , TiO ₂ , V ₂ O ₅ , Ga ₂ O ₃ & LOI)	per sample	4.1.15a	4200	300	1260000	50 Nos. BRS sample and 250 Nos. core samples
	(ii) For Check Samples (SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , TiO ₂ , V ₂ O ₅ , Ga ₂ O ₃ & LOI)	per sample	4.1.15a	4200	30	126000	
	(iii) Composite Samples (SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , TiO ₂ , V ₂ O ₅ , Ga ₂ O ₃ & LOI)	per sample	4.1.15a	4200	12	50400	Per BH
	(iv) Analysis of rock/soil sample for 34 elements by ICP-MS (REE & other)	per sample	4.1.14	7,731	200	1546200	50 Nos. BRS sample and 150 Nos. core samples
	(vi) Combined determination of Trihydrate alumina(THA-144° C), Monohydrate alumina(MHA-240° C) & reactive silica	per sample	4.1.17a	6700	12	80400	

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c	Petrological study							
	(i) Preparation of standard thin section	per sample	4.3.1	2353	5	11765		
	(ii) Petrological study	per sample	4.3.4	4232	5	21160		
	Sub Total C					3103950		
D.	Total A + B + C				-	8865330		
E.	Peer review					30000		
	Preparation of exploration proposal	One Number (5 Hard copies along with soft copy)	5.1	2% of the project cost or Rs 3.8 lakh whichever is lower	1	1,77,307		
	Geological Report Preparation	Copy per 5 Hard copies of report along with soft copy	5.2	For the projects having cost upto Rs 150 lakhs : A Minimum of Rs.2.5 lakhs or 5% of the value of work whichever is more	1	4,43,267		
	Sub Total E					650573		
F.	Grand Total D+E					9515903		
	GST 18%					1712863		
G	Grand Total: with GST 18%					11228766		
Say 112.28 Lakhs								
Note:								
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.							

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

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Time Schedule/ Action Plan for Preliminary Exploration (G3) for Bauxite, Aluminous Laterite and Associated Critical Minerals in Khara East Block-A & Block-B, Kabirdham District, Chhattisgarh

Item of work	1	2	3	4	Review	5	6	7	8	Review	9	10		
Camp setup														
Geological mapping														
Surveying / Contouring														
Sample Analysis														
Review for drilling														
Forest Permission for Drilling														
Drilling														
Sample preparation														
Geologist party days for mapping and sampling														
Analytical work														
Camp winding														
Geological report														

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Estimated Cost for Reconnaissance Survey (G-4) for Glauconitic Sandstone in Magarlod Area, Dhamtari District, Chhatisgarh
Total Area - 100 sq km; Nos. of Borehole - 05, Total Drilling: 300 m ; Timeline - 10 Months, Review after: 04 months (before drilling) and 08 months

S. No.	Item of work	Unit	Rates as per NMET SoC 2020-21		Total		
			SoC Item - S.No.	Rates as per SoC	Qty.	Amount	
A.	GEOLOGICAL WORK						
1	Survey Party Days (1 party)	Day	1.6.1a	8300	0	0	
2	Labour charges for Survey work	Per Labour	5.7	541	0	0	
3	Geologist Party Days (1 Party) Field	Day	1.3	0	150	0	In-house
4	Geologist Party Days (1 Party) HQ	Day	1.3	0	30	0	In-house
5	Labour charges for Geological Field work	Per Labour	5.7	541	300	162300	
6	Core Sampling Party Days - (2 Parties)	Day	1.5.2	5100	45	229500	
7	Labour for Sampling	Per Labour	5.7	541	180	97380	
8	Survey work for BH Fixation	Per point of observation	1.6.2	19200	5	96000	
	Sub Total A					585180	
B.	Pitting & Trenching						
1	Excavation pit up to depth 2.00 m	Cu.Meter	2.1.2	3800	100	380000	50 pits of each of 2 cu.m. depth
	Sub Total B					380000	
C.	DRILLING						
1	Surface drilling (in-house)	Meter	2.2.1.3	10100	300	3030000	
2	Road making (flat terrain)	Per km	2.2.10a	22020	10	220200	As per actuals
3	Construction of concrete pillar	Per borehole	2.2.7a	2000	5	10000	
4	Transportation (1 rigs)	Per km	2.2.8	36	75	2700	

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5	Monthly Accommodation charges for drilling camp	Monthly basis	2.2.9	50000	3	150000	
6	Camp Establishment cost	Per Drill	2.2.9a	250000	1	250000	
7	Camp Winding	Per Drill	2.2.9b	250000	1	250000	
8	Drill core preservation	Per meter	2.2.8	1590	150	238500	
	Sub Total C					4151400	
D.	LABORATORY STUDIES						
a	Bulk density/S.Gv.	per sample	4.1	3540	2	7080	
b.	Chemical Analysis						
1	Primary + Check Samples						
	(i) Primary Samples 4 radicals (K ₂ O, SiO ₂ , Al ₂ O ₃ & Fe ₂ O ₃)	per sample	4.1.15a	4200	300	1260000	225 BRS + 75 BH samples
	(ii) For Check Samples 4 radicals (K ₂ O, SiO ₂ , Al ₂ O ₃ & Fe ₂ O ₃)	per sample	4.1.15a	4200	30	126000	
	(iii) preparation of standard thin section	per sample	4.3.1	2353	10	23530	
	(iv) Petrological study	per sample	4.3.4	4232	10	42320	
	(v) XRD studies	per sample	4.5.1	4000	5	20000	
	Sub Total D					1478930	
E.	Land/crop compensation	Per BH	5.6	20000	5	100000	As per actuals
	Sub Total E					100000	
E.	Total A + B + C +D+E					6695510	
	Peer review					30000	
F.	Preparation of exploration proposal	One Number (5 Hard copies along with soft copy)	5.1	2% of the project cost or Rs 3.8 lakh whichever is lower		133910	

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	Geological Report Preparation	Copy per 5 Hard copies of report along with soft copy	5.2	For the projects having cost upto Rs 150 lakhs : A Minimum of Rs.2.5lakhs or 5% of the value of work whichever is more		334776	
	Sub Total F					498686	
	Grand Total E+F					7194196	
	GST 18%					1294955	
	Grand Total: with GST 18%					8489151	
	Note:					84.89 Lakhs	
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency						

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Time Schedule/ Action Plan for Reconnaissance Survey (G-4) for Glauconitic Sandstone in Magarlod Area, Dhamtari District, Chhatisgarh

S. No.	Component	Months	1	2	3	4	Review	5	6	7	8	Review	9	10		
1	Camp Setting	months														
2	Geological Mapping	months														
3	Survey days	days														
4	Pitting	cu.m														
5	Drilling (2 rig)	m														
6	Geologist days	days														
7	Sampling days,	days														
8	Camp winding	months														
9	Laboratory Studies	months														
10	Geologist days, HQ	days														
11	Report Writing	months														

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Estimated Cost for Preliminary Exploration (G3) for Iron in Parvi Block, Kanker District, Chhattisgarh
[Block area-3.20 sq.km; Schedule Timeline-12 months, Review after 04 and 08 months (at the time of drilling); Drilling: 7BHs (depth 100 m), Total Drilling: 700 m]

S.No	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the		Remarks
			SoC-Item-SI No.	Rates as per SoC	Proposal		
					Qty.	Amount (Rs)	
A	SURVEY WORK						
1	Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes and By DGPS	Nos	1.6.2	19,200	11	2,11,200	7 Boreholes and 4 corners of Block
	SURVEY WORK (Topographical and DM Survey)	Per day	1.6.1a	8,300	30	2,49,000	
	GEOLOGICALWORK						
	Charges for One Geologist for Geological Mapping and other field works	Per day	1.5.1a	11,000	150	16,50,000	
	2 labours / party (Rs 541/day/labour) (As per rates of Central Labour Commissioner)	day	5.7	541	300	1,62,300	
	Charges for one Geologist per-HQ	Per day	1.5.1a	9,000	30	2,70,000	
	CoreSampling-1Samplers	Per day	1.5.2	5,100	41	2,09,100	
	4 labours/ party (Rs 541/day/labour)	Per day	5.7	541	164	88,724	
	SubTotal-A					28,40,324.00	
B	Trenching	Cu m	2.1.1	3330	140	4,66,200	Depth 1m; 12 Trench upto 12m length

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DRILLING							
i	Drilling upto 300m (Very hard Rock)(2 rigs) HQ Size	m	2.2.1.5a	12,650	700	88,55,000	
PILLARING							
iii	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	7	14,000	
iv	Transportation of Drill Rig & Truck associated per Drill (2 DRILL RIGS)	Km	2.2.8	36	120 0	43,200	The distance to & Fro Nagpur to Parvi block Kanker dist.
v	Monthly Accommodation Charges for drilling Camp (upto 1Rigs)	month	2.2.9	50,000	2	1,00,000	
vi	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	1	2,50,000	
vii	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	1	2,50,000	
viii	Approach Road Making (Flat Terrain)	Km	2.2.10b	32,200	4	1,28,800	As per actuals
ix	Drill Core Preservation	Per m	5.3	1,590	150	2,38,500	
x	Land/ Crop compensation	Per BH	5.6	20,000	7	1,40,000	Amount will be reimbursed as per actuals or max.Rs.20000perBHwithcer tificationfromlocalauthorities
SubTotal-B						1,04,85,700.00	
C LABORATORY STUDIES							
1.1a	Geochemical Sampling-Drill core a. Analysis of Major oxides and trace samples by XRF	Nos.	4.1.15a	4200	140	5,88,000.00	
1.1b	Check samples Major oxides (10%)	Per Sample	4.1.15a	4200	14	58,800	
	Bed rock/ Channel Samples Analysis of Major oxides and trace samples by XRF		4.1.15a	4200	50	2,10,000	
	Check samples Major oxides (10%)		4.1.15a	4200	5	21,000	

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1.2a	Trench Sample Major oxides and trace samples by XRF	Per Sample	4.1.15a	4200	100	4,20,000	
	Check samples of Trench (Major oxides and trace samples by XRF)	Per Sample	4.1.15a	4200	10	42,000	
	Petrochemical Studies (Whole rock; Major oxides and Trace elements)			4200	10	42,000	
	Petrographic studies						
	Preparation of thin sections	Per Sample	4.3.1	2353	10	23,530	
	Study of thin sections	Per Sample	4.3.4	4232	10	42,320	
	Preparation of polished sections	Per Sample	4.3.2	1549	5	7,745	
	Study of polished sections	Per Sample	4.3.3	4232	5	21,160	
	Bulk Density Analysis	Per Sample	4.8.1	1605	5	8,025	
	SubTotal-C					14,84,580.00	
					SUM	1,48,10,604.00	
E	Miscellaneous Charges						
	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hardcopies with a soft copy	5.1	2% of approved project cost or 5 lakh whichever is lower		2,96,212	EA has to submit the Hard Copies and the soft copy of the final proposal along with Maps and Plan a suggested by the TCC-NMET in its meeting while Clearing the proposal.
F	Geological Report Preparation		5.2.IV	For the projects having cost exceeding Rs.50 lakhs and less than Rs.150 lakhs- A		7,40,530	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and

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				minimum of Rs.2.5 lakhs or 5% of the value of work Whichever is more			the soft copy to NMET.	
H	Peer review Charges		As per EC decision	30000	1	30,000		
	SubTotal-E						10,66,742.28	
I	Total Estimated Cost without GST						1,58,77,346.28	
J	Provision for GST (18%ofI)						28,57,922.33	GST will be reimburse as per actual and as per Notified prescribed rate
K	Total Estimated Cost with GST						1,87,35,268.61	
	Or Say Rs. In Lakhs 187.35							
Note :								
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.							
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement							
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.							
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.							
5	Any item of work not mentioned above shall be added as per SoC.							
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency							

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Time Schedule/ Action Plan for Preliminary Exploration (G3) for Iron in Parvi Block, Kanker District, Chhattisgarh

S.No.	Description	Months/Days	1	2	3	4	Review	5	6	7	8	Review	9	10	11	12		
1	Camp Setting	Months	■	■														
2	Upgradation of Geological map	Months		■	■	■												
3	Topographical Surveying	Months		■	■	■												
	Geophysical survey	Months						■	■									
4	Trenching and Preparation of Geological plan by correlation of Geophysical data	Months							■	■								
5	Drilling(1rig)	Months									■		■					
6	Sampling	Months																
7	Laboratory Studies	Months													■			
8	Report Writing with Review	Months											■	■	■	■		

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Annexure 6A

Estimated Cost for Preliminary Exploration (G3) for Limestone in Dondapadu Block, Dondapadu Cluster-6, Suryapet District, Telangana

Area- 8.20 sq. km, Drilling- 300m , BH: 5 nos. Timeline- 10 months, Review after 3 and 7 months

S. NO	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item- Sl. No.	Rates as per SoC	Quantity	Amount	
a	b	c	d	e	f	g	
A	Geological work						
1	Geological Mapping (1:4000) with Topographical Survey, Core logging, Sampling & report writing						
	a) Survey work - Surveyor	per day	1.6.1a	8,300	30	249000.00	
	b) 4 labours / Party (Rs 541 / day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	120	64920.00	
	C) Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS	per point of observation	1.6.2	19,200	18	345600.00	13 Corner Points + 5 Boreholes
	d) Charges for Geologist party days in field	Per day	1.5.1a	11,000	180	1980000.00	
	e) 2 labours / Party (Rs 541 / day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	360	194760.00	
	f) Charges for Geologist party days (at H Q)	Per day	1.5.1a	9,000	30	270000.00	
	e) Sample processing work	Sampler per day	1.5.2	5,100	49	249900.00	
	f) 4 labours / Party (Rs 541/ day / labour) (As per rates of Central Labour	day	5.7	541	196	106036.00	

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	Commissioner)						
	Sub total - A					3460216.00	
B	Drilling- Out Sourced						
1	Surface drilling	Per Mtr	2.2.1.1B	7168	300	2150400.00	
2	Drill Core Preservation	Per Mtr	5.3	1,590	250	397500.00	
	SUB TOTAL B					2547900.00	
C	Laboratory studies						
1	Chemical analysis						
	a) Primary core Samples -XRF method - Major Oxides	per sample	4.1.15 a	4200	350	1470000.00	(50 Surface + 300 Core Samples)
	b) External Check Samples 10 % XRF method - Major Oxides	Per sample	4.1.9	4200	35	147000.00	
	c) Composite Samples for 6 radicals CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , and Lol	Per sample	4.1.9	4200	5	21000.00	
2	Physical analysis						
	a) Preparation of thin sections	Nos.	4.3.1	2353	5	11765.00	
	b) Petrographic studies	Nos.	4.3.4	4232	5	21160.00	
	c) Bulk density	Nos.	4.1	3540	5	17700.00	
	Digital Photographs	Nos.	4.3.7	280	5	1400.00	
	SUB TOTAL C					1690025.00	
	TOTAL (A+B+C)					7698141.00	
D	Total Outsourced Components (Drilling + Chemical Analysis)					4185900.00	
E	Tendering Cost		2.3			83718.00	
F	Operational Charges		6	1		418590.00	
	TOTAL (A+B+C+E+F)					8200449.00	
G	Preparation of Exploration proposal		5.1			164008.98	
H	Geological Report Preparation		5.2	2		410022.45	
I	Peer Review Charges		As per EC Decision			30000.00	
	TOTAL (A+B+C+E+F+G+H+I)					8804480.43	
H	GST @ 18%					1584806.48	

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I	GRAND TOTAL					10389286.91	
J	Rs. In Lakhs					103.89 lakhs	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency						

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Time Schedule/ Action Plan for Preliminary Exploration (G3) for Limestone in Dondapadu Block, Dondapadu Cluster-6, Suryapet District, Telangana

SI.No	Activities	Unit	Months											
			1	2	3	4	5	6	7	8	9	10		
1	Topographical (1 : 4000) DGPS Survey work	Month												
2	Camp Mobilisation	Month												
3	Surface Drilling	Month												
4	Core logging and Sampling Geological party	Month												
5	Laboratory Studies	Month												
6	Geologist Party days(1 party)	Month												
7	Synthesis of data and Geological report Writing	Month												
8	Peer review work	Month												
9	Finalisation of Geological Report & Priniting	Month												

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Annexure 7A

Estimated Cost for Preliminary Exploration (G-3) for Limestone in Raghunathpalem Block, Raghunathpalem Cluster-3 Suryapet District, Telangana

Area- 5.38 sq. km, Drilling- 300 m , BH: 5 nos. Timeline- 10 months, Review after 03 and 07 months

S. NO	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item- Sl. No.	Rates as per SoC	Quantity	Amount	
a	b	c	d	e	f	g	h
A	Geological work						
1	Geological Mapping (1:4000) with Topographical Survey, Core logging, Sampling & report writing						
	a) Survey work - Surveyor	per day	1.6.1a	8,300	30	249000.00	
	b) 4 labours / Party (Rs 541 / day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	120	64920.00	
	C) Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS	per point of observation	1.6.2	19,200	16	307200.00	11 Corner Points + 5 Boreholes
	d) Charges for Geologist party days in field	Per day	1.5.1a	11,000	150	1650000.00	
	e) 2 labours / Party (Rs 541/ day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	300	162300.00	
	f) Charges for Geologist party days (at H Q)	Per day	1.5.1a	9,000	30	270000.00	
	g) Sample processing work	Sampler per day	1.5.2	5,100	49	249900.00	
	h) 4 labours / Party (Rs 526/ day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	196	106036.00	

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	Sub total - A					3059356.00	
B	Drilling- Out Sourced						
1	Surface drilling	Per Mtr	2.2.1.1B	7168	300	2150400.00	
2	Drill Core Preservation	Per Mtr	5.3	1,590	250	397500.00	
	SUB TOTAL B					2547900.00	
C	Laboratory studies						
1	Chemical analysis						
	a) Primary core Samples -XRF method - Major Oxides	per sample	4.1.15 a	4200	350	1470000.00	(50 Surface + 300 Core Samples)
	b) External Check Samples 10 % XRF method - Major Oxides	Per sample	4.1.9	4200	35	147000.00	
	c) Composite Samples for 6 radicals CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , and Lol	Per sample	4.1.9	4200	5	21000.00	
2	Physical analysis						
	a) Preparation of thin sections	Nos.	4.3.1	2353	5	11765.00	
	b) Petrographic studies	Nos.	4.3.4	4232	5	21160.00	
	c) Bulk density	Nos.	4.1	3540	5	17700.00	
	Digital Photographs	Nos.	4.3.7	280	5	1400.00	
	SUB TOTAL C					1690025.00	
	TOTAL (A+B+C)					7297281.00	
D	Total Outsourced Components (Drilling + Chemical Analysis)					4185900.00	
E	Tendering Cost		2.3			83718.00	
F	Operational Charges		6	1		418590.00	
	TOTAL (A+B+C+E+F)					7799589.00	
G	Preparation of Exploration proposal		5.1			155991.78	
H	Geological Report Preparation		5.2	2		389979.45	
I	Peer Review Charges		As per EC Decision			30000.00	
	TOTAL (A+B+C+E+F+G+H+I)					8375560.23	
H	GST @ 18%					1507600.84	
I	GRAND TOTAL					9883161.07	
J	Rs. In Lakhs					98.83	

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

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**Time Schedule/ Action Plan for Preliminary Exploration (G-3) for Limestone in Raghunathpalem Block, Raghunathapalem Cluster-3
Suryapet District, Telangana**

SI.No	Activities	Unit	Months												
			1	2	3	4	5	6	7	8	9	10			
1	Topographical (1 : 4000) DGPS Survey work	Month													
2	Camp Mobilisation	Month													
3	Surface Drilling	Month													
4	Core logging and Sampling Geological party	Month													
5	Laboratory Studies	Month													
6	Geologist Party days(1 party)	Month													
7	Synthesis of data and Geological report Writing	Month													
8	Peer review work	Month													
9	Finalisation of Geological Report & Priniting	Month													

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Estimaed Cost for Preliminary Exploration (G-3) For Limestone In Mattampally Block-1, Mattampally Cluster-2, Suryapet District, Telangana

Area- 4.52 sq. km, Drilling- 300m , BH: 5 nos. Timeline- 10 months , Review after 5 and 7 months

S. NO	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item- Sl. No.	Rates as per SoC	Quantity	Amount	
a	b	c	d	e	f	g	h
A	Geological work						
1	Geological Mapping (1:4000) with Topographical Survey, Core logging, Sampling & report writing						
	a) Survey work - Surveyor	per day	1.6.1a	8,300	30	249000.00	
	b) 4 labours / Party (Rs 541 / day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	120	64920.00	
	c) Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS	per point of observation	1.6.2	19,200	16	307200.00	11 Corner Points + 5 Boreholes
	d) Charges for Geologist party days in field	Per day	1.5.1a	11,000	150	1650000.00	
	e) 2 labours / Party (Rs 541 / day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	300	162300.00	
	f) Charges for Geologist party days (at H Q)	Per day	1.5.1a	9,000	30	270000.00	
	g) Sample processing work	Sampler per day	1.5.2	5,100	42	214200.00	
	h) 4 labours / Party (Rs 541/ day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	168	90888.00	

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	Sub total - A					3008508.00	
B	Drilling- Out Sourced						
1	Surface drilling	Per Mtr	2.2.1.1B	7168	300	2150400.00	4 BH of 50 m depth and 1 BH upto 100 m/ till underlying rock is met
2	Drill Core Preservation	Per Mtr	5.3	1,590	250	397500.00	
	SUB TOTAL B					2547900.00	
C	Laboratory studies						
1	Chemical analysis						
	a) Primary core Samples -XRF method - Major Oxides	per sample	4.1.15 a	4200	300	1260000.00	(50 Surface + 250 Core Samples)
	b) External Check Samples 10 % XRF method - Major Oxides	Per sample	4.1.9	4200	30	126000.00	
	c) Composite Samples for 6 radicals CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , and Lol	Per sample	4.1.9	4200	5	21000.00	
2	Physical analysis						
	a) Preparation of thin sections	Nos.	4.3.1	2353	5	11765.00	
	b) Petrographic studies	Nos.	4.3.4	4232	5	21160.00	
	c) Bulk density	Nos.	4.1	3540	5	17700.00	
	Digital Photographs	Nos.	4.3.7	280	5	1400.00	
	SUB TOTAL C					1459025.00	
	TOTAL (A+B+C)					7015433.00	
D	Total Outsourced Components (Drilling + Chemical Analysis)					3954900.00	
E	Tendering Cost		2.3			79098.00	
F	Operational Charges		6	1		395490.00	
	TOTAL (A+B+C+E+F)					7490021.00	
G	Preparation of Exploration proposal		5.1			149800.42	
H	Geological Report Preparation		5.2	2		374501.05	
I	Peer Review Charges		As per EC Decision			30000.00	
	TOTAL (A+B+C+E+F+G+H+I)					8044322.47	

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J	GST @ 18%					1447978.04	
K	GRAND TOTAL					9492300.51	
L	Rs. In Lakhs					94.92	
Note							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency						

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Time Schedule/ Action Plan for Preliminary Exploration (G-3) For Limestone In Mattampally Block-1, Mattampally Cluster-2, Suryapet District, Telangana

SI.No	Activities	Unit	Months												
			1	2	3	4	5	6	7	8	9	10			
1	Topographical (1 : 4000) DGPS Survey work	Month													
2	Camp Mobilisation	Month													
3	Surface Drilling	Month													
4	Core logging and Sampling Geological party	Month													
5	Laboratory Studies	Month													
6	Geologist Party days(1 party)	Month													
7	Synthesis of data and Geological report Writing	Month													
8	Peer review work	Month													
9	Finalisation of Geological Report & Priniting	Month													

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Annexure 9A

Estimated Cost for Preliminary Exploration (G3) For Limestone In Mattampally Block-2, Mattampally Cluster-2, Suryapet District, Telangana

Area- 3.85 sq. km, Drilling- 250 m , BH: 5 nos. Timeline- 10 months. Review after: 03 and 7 months

S. NO	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item- SI. No.	Rates as per SoC	Quantity	Amount	
a	b	c	d	e	f	g	h
A	Geological work						
1	Geological Mapping (1:4000) with Topographical Survey, Core logging, Sampling & report writing						
	a) Survey work - Surveyor	per day	1.6.1a	8,300	30	249000.00	
	b) 4 labours / Party (Rs 526 / day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	120	64920.00	
	C) Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS	per point of observation	1.6.2	19,200	19	364800.00	14 Corner Points + 5 Boreholes
	d) Charges for Geologist party days in field	Per day	1.5.1a	11,000	120	1320000.00	
	e) 2 labours / Party (Rs 526 / day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	240	129840.00	
	f) Charges for Geologist party days (at H Q)	Per day	1.5.1a	9,000	30	270000.00	
	e) Sample processing work	Sampler per day	1.5.2	5,100	42	214200.00	
	f) 4 labours / Party (Rs 526/ day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	168	90888.00	
	Sub total A					2703648.00	

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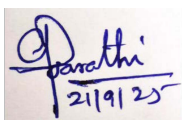
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B	Drilling- Out Sourced						
1	Surface drilling	Per Mtr	2.2.1.1B	7168	250	1792000.00	
2	Drill Core Preservation	Per Mtr	5.3	1,590	250	397500.00	
	SUB TOTAL B					2189500.00	
C	Laboratory studies						
1	Chemical analysis						
	a) Primary core Samples -XRF method - Major Oxides	per sample	4.1.15 a	4200	300	1260000.00	(50 Surface + 250 Core Samples)
	b) External Check Samples 10 % XRF method - Major Oxides	Per sample	4.1.9	4200	30	126000.00	
	c) Composite Samples for 6 radicals CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , and Lol	Per sample	4.1.9	4200	5	21000.00	
2	Physical analysis						
	a) Preparation of thin sections	Nos.	4.3.1	2353	5	11765.00	
	b) Petrographic studies	Nos.	4.3.4	4232	5	21160.00	
	c) Bulk density	Nos.	4.1	3540	5	17700.00	
	Digital Photographs	Nos.	4.3.7	280	5	1400.00	
	SUB TOTAL C					1459025.00	
	TOTAL (A+B+C)					6352173.00	
D	Total Outsourced Components (Drilling + Chemical Analysis)					3596500.00	
E	Tendering Cost		2.3			71930.00	
F	Operational Charges		6			359650.00	
	TOTAL (A+B+C+E+F)					6783753.00	
G	Preparation of Exploration proposal		5.1			135675.06	
H	Geological Report Preparation		5.2	2		339187.65	
I	Peer Review Charges		As per EC Decision			30000.00	
	TOTAL (A+B+C+E+F+G+H+I)					7288615.71	
J	GST @ 18%					1311950.83	
K	GRAND TOTAL					8600566.54	
L	Rs. In Lakhs					86	Lakhs
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



Time Schedule/ Action Plan for Preliminary Exploration (G-3) For Limestone In Mattampally Block-2, Mattampally Cluster-2, Suryapet District, Telangana

SI.No	Activities	Unit	Months												
			1	2	3	4	5	6	7	8	9	10			
1	Topographical (1 : 4000) DGPS Survey work	Month													
2	Camp Mobilisation	Month													
3	Surface Drilling	Month													
4	Core logging and Sampling Geological party	Month													
5	Laboratory Studies	Month													
6	Geologist Party days(1 party)	Month													
7	Synthesis of data and Geological report Writing	Month													
8	Peer review work	Month													
9	Finalisation of Geological Report & Priniting	Month													

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Annexure 10A

Estimated Cost for Preliminary Exploration (G3) For Limestone in Ramapuram Block, Ramapuram Cluster-5, Suryapet District, Telangana

Area- 3.18 sq. km, Drilling- 300m , BH: 5 nos. Timeline- 10 months, Review after 03 and 07 months

S. NO	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item- Sl. No.	Rates as per SoC	Quantity	Amount	
a	b	c	d	e	f	g	h
A	Geological work						
1	Geological Mapping (1:4000) with Topographical Survey, Core logging, Sampling & report writing						
	a) Survey work - Surveyor	per day	1.6.1a	8,300	30	249000.00	
	b) 4 labours / Party (Rs 541 / day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	120	64920.00	
	C) Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS	per point of observation	1.6.2	19,200	9	172800.00	4 Corner Points + 5 Boreholes
	d) Charges for Geologist party days in field	Per day	1.5.1a	11,000	120	1320000.00	
	e) 2 labours / Party (Rs 526 / day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	240	129840.00	
	f) Charges for Geologist party days (at H Q)	Per day	1.5.1a	9,000	30	270000.00	
	e) Sample processing work	Sampler per day	1.5.2	5,100	49	249900.00	
	f) 4 labours / Party (Rs 526/ day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	196	106036.00	
	Sub total - A					2562496.00	

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B	Drilling- Out Sourced						
1	Surface drilling	Per Mtr	2.2.1.1B	7168	300	2150400.00	
2	Drill Core Preservation	Per Mtr	5.3	1,590	250	397500.00	
	SUB TOTAL B					2547900.00	
C	Laboratory studies						
1	Chemical analysis						
	a) Primary core Samples -XRF method - Major Oxides	per sample	4.1.15 a	4200	350	1470000.00	(50 Surface + 300 Core Samples)
	b) External Check Samples 10 % XRF method - Major Oxides	Per sample	4.1.9	4200	35	147000.00	
	c) Composite Samples for 6 radicals CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , and Lol	Per sample	4.1.9	4200	5	21000.00	
2	Physical analysis						
	a) Preparation of thin sections	Nos.	4.3.1	2353	5	11765.00	
	b) Petrographic studies	Nos.	4.3.4	4232	5	21160.00	
	c) Bulk density	Nos.	4.1	3540	5	17700.00	
	Digital Photographs	Nos.	4.3.7	280	5	1400.00	
	SUB TOTAL C					1690025.00	
	TOTAL (A+B+C)					6800421.00	
D	Total Outsourced Components (Drilling + Chemical Analysis)					4185900.00	
E	Tendering Cost		2.3			83718.00	
F	Operational Charges		6	1		418590.00	
	TOTAL (A+B+C+E+F)					7302729.00	
G	Preparation of Exploration proposal		5.1			146054.58	
H	Geological Report Preparation		5.2	2		365136.45	
I	Peer Review Charges		As per EC Decision			30000.00	
	TOTAL (A+B+C+E+F+G+H+I)					7843920.03	
J	GST @ 18%					1411905.61	
K	GRAND TOTAL					9255825.64	
L	Rs. In Lacs					92.55	Lakhs
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						

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

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Time Schedule/ Action Plan for Preliminary Exploration (G3) For Limestone in Ramapuram Block, Ramapuram Cluster-5, Suryapet District, Telangana

SI.No	Activities	Unit	Months												
			1	2	3	4	5	6	7	8	9	10			
1	Topographical (1 : 4000) DGPS Survey work	Month													
2	Camp Mobilisation	Month													
3	Surface Drilling	Month													
4	Core logging and Sampling Geological party	Month													
5	Laboratory Studies	Month													
6	Geologist Party days(1 party)	Month													
7	Synthesis of data and Geological report Writing	Month													
8	Peer review work	Month													
9	Finalisation of Geological Report & Priniting	Month													

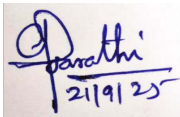
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Estimate Cost For Preliminary Exploration (G3) For Limestone In Mellacheruvu Block, Mellacheruvu Cluster-1, Suryapet District, Telangana

Area- 3.28 sq. km, Drilling- 300m , BH: 5 nos. Timeline- 10 months, Review after: 03 months (for displaying BH plan) and 07 months

S. NO	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item-Sl. No.	Rates as per SoC	Quantity	Amount	
a	b	c	d	e	f	g	
A	Geological work						
1	Geological Mapping (1:4000) with Topographical Survey, Core logging, Sampling & report writing						
	a) Survey work - Surveyor	per day	1.6.1a	8,300	30	249000.00	
	b) 4 labours / Party (Rs 541 / day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	120	64920.00	
	C) Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS	per point of observation	1.6.2	19,200	19	364800.00	14 Corner Points + 5 Boreholes
	d) Charges for Geologist party days in field	Per day	1.5.1a	11,000	120	1320000.00	
	e) 2 labours / Party (Rs 541 / day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	240	129840.00	
	f) Charges for Geologist party days (at HQ)	Per day	1.5.1a	9,000	30	270000.00	
	e) Sample processing work	Sampler per day	1.5.2	5,100	49	249900.00	
	f) 4 labours / Party (Rs 541/ day / labour) (As per rates of Central Labour	day	5.7	526	196	103096.00	



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	Commissioner)						
	Sub total - A					2751556.00	
B	Drilling- Out Sourced						
1	Surface drilling	Per Mtr	2.2.1.1b	7168	300	2150400.00	4 BH of 50 m depth and 1 BH upto 100 m/ till underlying rock is met
2	Drill Core Preservation	Per Mtr	5.3	1,590	300	477000.00	
	SUB TOTAL B					2627400.00	
C	Laboratory studies						
1	Chemical analysis (Outsourced)						
	a) Primary core Samples -XRF method - Major Oxides	per sample	4.1.15 a	4200	350	1470000.00	(50 Surface + 300 Core Samples)
	b) External Check Samples 10 % XRF method - Major Oxides	Per sample	4.1.9	4200	35	147000.00	
	c) Composite Samples for 6 radicals CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , and Lol	Per sample	4.1.9	4200	5	21000.00	
2	Physical analysis						
	a) Preparation of thin sections	Nos.	4.3.1	2353	5	11765.00	
	b) Petrographic studies	Nos.	4.3.4	4232	5	21160.00	
	c) Bulk density	Nos.	4.1	3540	5	17700.00	
	Digital Photographs	Nos.	4.3.7	280	5	1400.00	
	SUB TOTAL C					1690025.00	
	TOTAL (A+B+C)					7068981.00	
D	Total Outsourced Components (Drilling + Chemical Analysis)					4265400.00	
E	Tendering Cost		2.3			85308.00	
F	Operational Charges		6	1		426540.00	
	TOTAL (A+B+C+E+F)					7580829.00	
G	Preparation of Exploration proposal		5.1			151616.58	
H	Geological Report Preparation		5.2	2		379041.45	

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I	Peer Review Charges		As per EC Decision			30000.00	
J	TOTAL (A+B+C+E+F+G+H+I)					8141487.03	
K	GST @ 18%					1465467.67	
L	GRAND TOTAL					9606954.70	
M	Rs. In Lakhs					96.06	Lakhs
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency						

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Time Schedule/ Action Plan for Preliminary Exploration (G3) For Limestone In Mellacheruvu Block, Mellacheruvu Cluster-1, Suryapet District, Telangana

SI.No	Activities	Unit	Months												
			1	2	3	4	5	6	7	8	9	10			
1	Topographical (1 : 4000) DGPS Survey work	Month													
2	Camp Mobilisation	Month													
3	Surface Drilling	Month													
4	Core logging and Sampling Geological party	Month													
5	Laboratory Studies	Month													
6	Geologist Party days(1 party)	Month													
7	Synthesis of data and Geological report Writing	Month													
8	Peer review work	Month													
9	Finalisation of Geological Report & Priniting	Month													

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Estimated Cost for Preliminary Exploration (G3) For Limestone In Mallareddygudem Block, Mellacheruvu Cluster-1 Suryapet District, Telangana

Area- 4.67sq. km, Drilling- 250m , BH: 5 nos. Timeline- 10 months, Review after 03 and 07 months

S. NO	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item- Sl. No.	Rates as per SoC	Quantity	Amount	
a	b	c	d	e	f	g	h
A	Geological work						
1	Geological Mapping (1:4000) with Topographical Survey, Core logging, Sampling & report writing						
	a) Survey work - Surveyor	per day	1.6.1a	8,300	30	249000.00	
	b) 4 labours / Party (Rs 526 / day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	120	64920.00	
	C) Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS	per point of observation	1.6.2	19,200	9	172800.00	4 Corner Points + 5 Boreholes
	d) Charges for Geologist party days in field	Per day	1.5.1a	11,000	150	1650000.00	
	e) 2 labours / Party (Rs 526 / day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	300	162300.00	
	f) Charges for Geologist party days (at H Q)	Per day	1.5.1a	9,000	30	270000.00	
	e) Sample processing work	Sampler per day	1.5.2	5,100	42	214200.00	
	f) 4 labours / Party (Rs 526/ day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	168	90888.00	

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	Sub total - A					2874108.00	
B	Drilling- Out Sourced						
1	Surface drilling	Per Mtr	2.2.1.1B	7168	250	1792000.00	
10	Drill Core Preservation	Per Mtr	5.3	1,590	250	397500.00	
	SUB TOTAL B					2189500.00	
C	Laboratory studies						
1	Chemical analysis						
	a) Primary core Samples -XRF method - Major Oxides	per sample	4.1.15 a	4200	300	1260000.00	(50 Surface + 250 Core Samples)
	b) External Check Samples 10 % XRF method - Major Oxides	Per sample	4.1.9	4200	30	126000.00	
	c) Composite Samples for 6 radicals CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , and Lol	Per sample	4.1.9	4200	5	21000.00	
2	Physical analysis						
	a) Preparation of thin sections	Nos.	4.3.1	2353	5	11765.00	
	b) Petrographic studies	Nos.	4.3.4	4232	5	21160.00	
	c) Bulk density	Nos.	4.1	3540	5	17700.00	
	Digital Photographs	Nos.	4.3.7	280	5	1400.00	
	SUB TOTAL C					1459025.00	
	TOTAL (A+B+C)					6522633.00	
D	Total Outsourced Components (Drilling + Chemical Analysis)					3596500.00	
E	Tendering Cost		2.3			71930.00	
F	Operational Charges		6	1		359650.00	
	TOTAL (A+B+C+E+F)					6954213.00	
G	Preparation of Exploration proposal		5.1			139084.26	
H	Geological Report Preparation		5.2	2		347710.65	
I	Peer Review Charges		As per EC Decision			30000.00	
	TOTAL (A+B+C+E+F+G+H+I)					7471007.91	
J	GST @ 18%					1344781.42	
K	GRAND TOTAL					8815789.33	
L	Rs. In Lakhs					88.15	lakhs

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

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**Time Schedule/ Action Plan for Preliminary Exploration (G3) For Limestone In Mallareddygudem Block, Mellacheruvu Cluster-1
Suryapet District, Telangana**

SI.No	Activities	Unit	Months												
			1	2	3	4	5	6	7	8	9	10			
1	Topographical (1 : 4000) DGPS Survey work	Month													
2	Camp Mobilisation	Month													
3	Surface Drilling	Month													
4	Core logging and Sampling Geological party	Month													
5	Laboratory Studies	Month													
6	Geologist Party days(1 party)	Month													
7	Synthesis of data and Geological report Writing	Month													
8	Peer review work	Month													
9	Finalisation of Geological Report & Priniting	Month													

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Estimated Cost for Preliminary Exploration (G3) For Limestone In Yepalamadhavaram Block, Mellacheruvu Cluster-1, Suryapet District, Telangana

Area- 4.313 sq. km, Drilling- 250 m , BH: 5 nos. Timeline- 10 months, Review after: 3 and 7 months

S. NO	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item- Sl. No.	Rates as per SoC	Quantity	Amount	
a	b	c	d	e	f	g	h
A	Geological work						
1	Geological Mapping (1:4000) with Topographical Survey, Core logging, Sampling & report writing						
	a) Survey work - Surveyor	per day	1.6.1a	8,300	30	249000.00	
	b) 4 labours / Party (Rs 526 / day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	120	64920.00	
	C) Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS	per point of observation	1.6.2	19,200	16	307200.00	11 Corner Points + 5 Boreholes
	d) Charges for Geologist party days in field	Per day	1.5.1a	11,000	150	1650000.00	
	e) 2 labours / Party (Rs 526 / day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	300	162300.00	
	f) Charges for Geologist party days (at H Q)	Per day	1.5.1a	9,000	30	270000.00	
	e) Sample processing work	Sampler per day	1.5.2	5,100	42	214200.00	
	f) 4 labours / Party (Rs 526/ day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	168	90888.00	

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	Sub total - A					3008508.00	
B	Drilling- Out Sourced						
1	Surface drilling	Per Mtr	2.2.1.1B	7168	250	1792000.00	
2	Drill Core Preservation	Per Mtr	5.3	1,590	250	397500.00	
	SUB TOTAL B					2189500.00	
C	Laboratory studies						
1	Chemical analysis						
	a) Primary core Samples -XRF method - Major Oxides	per sample	4.1.15 a	4200	300	1260000.00	(50 Surface + 250 Core Samples)
	b) External Check Samples 10 % XRF method - Major Oxides	Per sample	4.1.9	4200	30	126000.00	
	c) Composite Samples for 6 radicals CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , and Lol	Per sample	4.1.9	4200	5	21000.00	
2	Physical analysis					0.00	
	a) Preparation of thin sections	Nos.	4.3.1	2353	5	11765.00	
	b) Petrographic studies	Nos.	4.3.4	4232	5	21160.00	
	c) Bulk density	Nos.	4.1	3540	5	17700.00	
	Digital Photographs	Nos.	4.3.7	280	5	1400.00	
	SUB TOTAL C					1459025.00	
	TOTAL (A+B+C)					6657033.00	
D	Total Outsourced Components (Drilling + Chemical Analysis)					3596500.00	
E	Tendering Cost		2.3			71930.00	
F	Operational Charges		6			359650.00	
	TOTAL (A+B+C+E+F)					7088613.00	
G	Preparation of Exploration proposal		5.1			141772.26	
H	Geological Report Preparation		5.2	2		354430.65	
I	Peer Review Charges		As per EC Decision			30000.00	
	TOTAL (A+B+C+E+F+G+H+I)					7614815.91	
J	GST @ 18%					1370666.86	
K	GRAND TOTAL					8985482.77	
L	Rs. In Lakhs					89.85	Lakhs
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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Time Schedule/ Action Plan for Preliminary Exploration (G3) For Limestone In Yepalamadhavaram Block, Mellacheruvu Cluster-1, Suryapet District, Telangana

SI.No	Activities	Unit	Months												
			1	2	3	4	5	6	7	8	9	10			
1	Topographical (1 : 4000) DGPS Survey work	Month													
2	Camp Mobilisation	Month													
3	Surface Drilling	Month													
4	Core logging and Sampling Geological party	Month													
5	Laboratory Studies	Month													
6	Geologist Party days(1 party)	Month													
7	Synthesis of data and Geological report Writing	Month													
8	Peer review work	Month													
9	Finalisation of Geological Report & Priniting	Month													

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Annexure 14A

Estimated Cost For Preliminary Exploration (G3) For Limestone In Veerappagudem Block, Damarcherla Cluster-4, Nalgonda District, Telangana

Area- 4.70 sq. km, Drilling- 300m , BH: 5 nos. Timeline- 10 months, Review after 03 and 07 months

S. NO	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item-Sl. No.	Rates as per SoC	Quantity	Amount	
a	b	c	d	e	f	g	h
A	Geological work						
1	Geological Mapping (1:4000) with Topographical Survey, Core logging, Sampling & report writing						
	a) Survey work - Surveyor	per day	1.6.1a	8,300	30	249000.00	
	b) 4 labours / Party (Rs 541 / day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	120	64920.00	
	c) Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS	per point of observation	1.6.2	19,200	16	307200.00	11 Corner Points + 5 Boreholes
	d) Charges for Geologist party days in field	Per day	1.5.1a	11,000	140	1540000.00	
	e) 2 labours / Party (Rs 541 / day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	280	151480.00	

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	f) Charges for Geologist party days (at HQ)	Per day	1.5.1a	9,000	30	270000.00		
	g) Sample processing work	Sampler per day	1.5.2	5,100	49	249900.00		
	h) 4 labours / Party (Rs 526/ day / labour) (As per rates of Central Labour Commissioner)	day	5.7	541	196	106036.00		
	Sub total - A						2938536.00	
B	Drilling- Out Sourced							
1	Surface drilling	Per Mtr	2.2.1.1B	7168	300	2150400.00		
10	Drill Core Preservation	Per Mtr	5.3	1,590	250	397500.00		
	SUB TOTAL B						2547900.00	
C	Laboratory studies							
1	Chemical analysis							
	a) Primary core Samples - XRF method - Major Oxides	per sample	4.1.15 a	4200	350	1470000.00	(50 Surface + 300 Core Samples)	
	b) External Check Samples 10 % XRF method - Major Oxides	Per sample	4.1.9	4200	35	147000.00		
	c) Composite Samples for 6 radicals CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , and Lol	Per sample	4.1.9	4200	5	21000.00		
2	Physical analysis							
	a) Preparation of thin sections	Nos.	4.3.1	2353	5	11765.00		
	b) Petrographic studies	Nos.	4.3.4	4232	5	21160.00		
	c) Bulk density	Nos.	4.1	3540	5	17700.00		
	Digital Photographs	Nos.	4.3.7	280	5	1400.00		
	SUB TOTAL C						1690025.00	
	TOTAL (A+B+C)						7176461.00	
D	Total Outsourced Components (Drilling + Chemical Analysis)					4185900.00		

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E	Tendering Cost		2.3			83718.00	
F	Operational Charges		6	1		418590.00	
	TOTAL (A+B+C+E+F)					7678769.00	
G	Preparation of Exploration proposal		5.1			153575.38	
H	Geological Report Preparation		5.2			383938.45	
I	Peer Review Charges		As per EC Decision			30000.00	
	TOTAL (A+B+C+E+F+G+H+I)					8246282.83	
J	GST @ 18%					1484330.91	
K	GRAND TOTAL					9730613.74	
L	Rs. In Lacs					97.3	lakhs
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency						

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**Time Schedule/ Action Plan for Preliminary Exploration (G3) For Limestone In Veerappagudem Block, Damarcherla Cluster-4,
Nalgonda District, Telangana**

SI.No	Activities	Unit	Months											
			1	2	3	4	5	6	7	8	9	10		
1	Topographical (1 : 4000) DGPS Survey work	Month												
2	Camp Mobilisation	Month												
3	Surface Drilling	Month												
4	Core logging and Sampling Geological party	Month												
5	Laboratory Studies	Month												
6	Geologist Party days(1 party)	Month												
7	Synthesis of data and Geological report Writing	Month												
8	Peer review work	Month												
9	Finalisation of Geological Report & Priniting	Month												

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Estimated Cost for Reconnaissance Survey (G4) for REE, RM and Other Critical Minerals in Udaipur-Ramgarh area, Sarguja District, Chhattisgarh

Total area: 150 sq km, Period of Completion: 12 months BH:5nos. , Total Drilling: 200 m , Review: After 4 & 8 months

S. No.	Item of Work *	Unit *	Rates as per NMET SoC		Estimated Cost of the Proposal		Remarks
			SoC-Item No.*	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs)	
A	Geological Mapping Other Geological Work & Surveying						
	Geological mapping, (1:12,500 scale) & Trenching , drilling work						
i	a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.2. b	11,000	200	2200000	150 sq km area on 1:12,500 scale
ii	b. Labours Charges; Base rate	day	5.7	541	400	216400	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
	c. Charges for Geologist per day (HQ)	day	1.2. a	9,000	45	405000	
	Sub Total- A					2821400	
B	Survey work						
a	DGPS Survey for BH fixation & RL determination	Per Point of observation of observation	1.6.2	19,200	5	96000	
	Sub-Total B					96,000	
C	Trenching/Pitting						
	Pitting	per cu.m	2.1.2	3,300	200	660000	200 cu. M
	Sub Total C					660000	

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D	DRILLING (after review)- In -house						
1	Drilling for Coal/ drilling in soft rock/strata	m	2.2.1.1b	5,242	200	1048400	scout boreholes , total 5 nos.
2	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	5	100000	As per actuals
3	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	5	10000	
4	Transportation of Drill Rig & Truck associated per drill (1 rig)	Km	2.2.8	36	1,300	46800	Raniganj to sarguja = 525 km , sarguja to Block area Udaipura Ramgarh = 125 (To and Fro)
5	Monthly Accomodation Charges for drilling Camp (up to 1 Rigs)	month	2.2.9	50,000	3	150000	
6	Drilling Camp Setting Cost	Nos	2.2.9a	250000	1	250000	
7	Drilling Camp Winding up Cost	Nos	2.2.9a	250000	1	250000	
8	Road Making (Flat Terrain)	Km	2.2.10a	22,020	5	110100	As per actuals
9	Drill Core Preservation	per m	5.3	1,590	200	318000	40 m 1 BH, 5 Bh*40 =200 (as per actuals)
10a	Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	58	295800	
10b	Labours (4 Nos)	day	5.7	522	232	121104	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
	Sub Total D					2700204	
E	LABORATORY STUDIES						
1	Chemical Analysis						
i)	Geochemical Sampling-Surface samples (Bedrock/Channel /Soil/Stream sediment)						300
	a. Analysis of major oxides and trace samples by XRF	Nos	4.1.15a	4,200	20	84000	
	Analysis of one rock/ soil sample for determination of a package by 34 elements by ICP-AES / ICPMS (sequential technique)		4.1.14	7,731	400	3092400	200 core samples + 150 pit samples + 30 BRS + 20 SS
ii)	Surface Check samples (10% External)					0	
	a. Analysis of major oxides and trace samples	Nos	4.1.15a	4,200	2	8400	

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	by XRF						
	Analysis of one rock/ soil sample for determination of a package by 34 elements by ICP-AES / ICPMS (sequential technique)		4.1.14	7,731	40	309240	
2	Physical & Petrological Studies					0	
i	Preparation of thin section	Nos	4.3.1	2,353	10	23530	
ii	Study of thin section	Nos	4.3.4	4,232	10	42320	
iii	Separation of heavy minerals from stream sediment samples of - 2mm size through gravity and magnetic separation	Nos	4.3.6b	13,820	50	691000	
iv	Preparation of polish section	Nos	4.3.2	1549	10	15490	
v	study of polished section	Nos	4.3.4	4,232	10	42320	
vi	Bulk density analysis	Nos	4.8.1	1,605	5	8025	
vii	Digital Photographs	Nos	4.3.7	280	10	2800	
	EPMA Lab						
i	EPMA Studies per hour	hrs	4.4.1	8,540	10	85400	
	Total E					4404925	
F	Total A to E					1,06,82,529	
G	Geological Report Preparation	5 Hard copies with a soft copy	5.2		ii	534126.45	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
H	Peer review Charges		As per EC decision	30,000	1	30,000	
I	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is less		213650.58	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.
J	Total Estimated Cost without GST					1,14,60,306	

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K	Provision for GST (18% of J)	2062855.085	GST will be reimburse as per actual and as per notified prescribed rate
L	Total Estimated Cost with GST	1,35,23,161	
		Rs. In Lakhs	135.23
Note:			
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.		
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement		
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.		
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.		
5	Any item of work not mentioned above shall be added as per SoC.		
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency		

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Time Schedule/ Action Plan for Reconnaissance Survey (G4) for REE, RM and Other Critical Minerals in Udaipur-Ramgarh area, Sarguja District, Chhattisgarh

Item of work	Months											
	1	2	3	4	5	6	7	8	9	10	11	12
Camp Setup												
Detailed Mapping (1:4000)												
Bed Rock Sampling												
Geochemical Survey												
Pitting and sampling												
Chemical analysis of surface samples												
Scout Drilling / systematic drilling												
Core sampling and its preparation												
Chemical analysis of Core Samples												
Processing of Analytical data												
Preparation of geological report												

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Estimated Cost for Preliminary Exploration (G3) For Graphite In Kodabata Block, Rayagada District, Odisha

Total area - 1.00 Sq.km; Borehole - 19 (9 BH first level + 10 BH second level) ; Meterage - 1400 m (450m first level+ 950m second level; 100 m spacing), Period of completion - 12 months, Review - After 3 months (after mapping, trenching and SP survey) and 6 months or completion of 1st level drilling alongwith analysis

SL.No	Item Of Work*	Unit*	Rate As Per NMET SOC 2020-21		Estimated Cost of the Proposal		Remarks	
			SOC. Item No	Rate As Per SOC* (a)	Qty. (b)	Total Amount (Rs) (a*b)		
A	Detailed Geological Mapping Other Geological Work & Surveying							
	Geological mapping (1:2000), Trenching & Drilling work							
i	a. Charges for 2 Geologist per day (Field) for Geological mapping & Trenching work, drilling activity (without labour)	day	1.3.b	₹ 11,000.00	150	₹ 16,50,000.00		
ii	b. Labours charges; Base rate (for 2 labours per geologists)	day	5.7	₹ 541.00	300	₹ 1,62,300.00	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.	
iii	c. Charges for Geologist per day (HQ)	day	1.3.a	₹ 9,000.00	30	₹ 2,70,000.00		
	Sub Total- A						₹ 20,82,300.00	
B	Trenching/Pitting							
i	Trenching	per cu.m	2.1.1	₹ 3,330.00	200	₹ 6,66,000.00		
	Sub Total- B						₹ 6,66,000.00	
C	Survey work							

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i	Charges for one qualified surveyor (Topographic survey, surface contouring at specific interval)	day	1.6.1a	₹ 8,300.00	30	₹ 2,49,000.00	
ii	DGPS Survey for BH fixation & RL determination	Per Point of observation of observation	1.6.2	₹ 19,200.00	24	₹ 4,60,800.00	19 BH points + 5 Cardinal points
iii	Labours Charges for survey work; Base rate	day	5.7	₹ 541.00	120	₹ 64,920.00	
Sub Total- C						₹ 7,74,720.00	
D	Ground Geophysical Survey (in- house)						
i	Charge for SP survey (4 L km)	Line km (8-10 km)	3.3a	₹ 29,600.00	1	₹ 29,600.00	4 L Km
Sub Total- D						₹ 29,600.00	
E	Drilling (after review) (in-house)						
i	Systematic Drilling (Hard rock) (HQ) first level BH)	per m	2.2.1.4a	₹ 11,500.00	450	₹ 51,75,000.00	9 BH 1st level @30m vertical depth of intersection
ii	Systematic Drilling up to 1000 m (Hard rock) (HQ)	per m	2.2.1.4a	₹ 11,500.00	950	₹ 1,09,25,000.00	10 BH 2nd level @60m vertical depth of intersection (Subject to successful intersection in first level BH and subsequent approval of NMET-TCC review)
iii	Borehole deviation by multi shot camera	per m	2.2.6	₹ 330.00	950	₹ 3,13,500.00	(Subject to successful intersection in first level BH and subsequent approval of NMET-TCC review)
iv	Land / Crop Compansation (in case the BH falls in agricultural Land)	per borehole	5.6	₹ 20,000.00	19	₹ 3,80,000.00	As per actuals as certified by local authorities subject to a maximum of 20000 per borehole

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v	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	₹ 2,000.00	19	₹ 38,000.00	
vi	Transportation of Drill Rig & Truck associated per drill (2 rig)	Km	2.2.8	₹ 36.00	3,440	₹ 1,23,840.00	Raniganj to Rayagada to and fro (860 Km) =860*2*2
vii	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	₹ 50,000.00	6	₹ 3,00,000.00	
viii	Drilling Camp Setting Cost	Nos	2.2.9a	₹ 2,50,000.00	2	₹ 5,00,000.00	
ix	Drilling Camp Winding up Cost	Nos	2.2.9a	₹ 2,50,000.00	2	₹ 5,00,000.00	
x	Road Making (Flat Terrain)	Km	2.2.10a	₹ 22,020.00	3	₹ 66,060.00	
xi	Drill Core Preservation	per m	5.3	₹ 1,590.00	550	₹ 8,74,500.00	
xii	Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	₹ 5,100.00	76	₹ 3,87,600.00	
xiii	Charges for Labour	day	5.7	₹ 541.00	304	₹ 1,64,464.00	
Sub Total- E						₹ 1,97,47,964.00	
F	Laboratory Studies						
1	Chemical Analysis						
i)	Geochemical Sampling-Surface samples (Bedrock/Channel /Soil/Stream sediment)						
a	Proximate analysis for graphite	Nos	4.1.16	₹ 3,000.00	50	₹ 1,50,000.00	
ii)	Surface Check samples (10% External)						
a	Proximate analysis for graphite	Nos	4.1.16	₹ 3,000.00	5	₹ 15,000.00	
iii)	Trench Samples						
a	Proximate analysis for graphite	Nos	4.1.16	₹ 3,000.00	100	₹ 3,00,000.00	

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c	Analysis of one rock/ soil sample for determination of a package by 34 elements by ICP-AES / ICPMS (34 elements along with Cu, Pb, Zn, Fe, Ni, Co, Cr, Al, S, Bi etc.)	Nos	4.1.14	₹ 7,731.00	10	₹ 77,310.00	
iv)	Trench Check samples (10% External)						
a	Proximate analysis for graphite	Nos	4.1.16	₹ 3,000.00	10	₹ 30,000.00	
c	Analysis of one rock/ soil sample for determination of a package by 34 elements by ICP-AES / ICPMS (34 elements along with Cu, Pb, Zn, Fe, Ni, Co, Cr, Al, S, Bi etc.)	Nos	4.1.14	₹ 7,731.00	1	₹ 7,731.00	
v)	BH Core samples (first level BH)						
a	Proximate analysis for graphite	Nos	4.1.16	₹ 3,000.00	180	₹ 5,40,000.00	
vi)	BH Core samples (10%External) (first level BH)						
a	Proximate analysis for graphite	Nos	4.1.16	₹ 3,000.00	18	₹ 54,000.00	
v)	BH Core samples (Second level BH)						
a	Proximate analysis for graphite	Nos	4.1.16	₹ 3,000.00	200	₹ 6,00,000.00	
c	Analysis of one rock/ soil sample for determination of a package by 34 elements by ICP-AES / ICPMS (34 elements along with Cu, Pb, Zn, Fe, Ni, Co, Cr, Al, S, Bi etc.)	Nos	4.1.14	₹ 7,731.00	10	₹ 77,310.00	
4	BH Core samples (10%External) (Second level BH)						

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a	Proximate analysis for graphite	Nos	4.1.16	₹ 3,000.00	20	₹ 60,000.00		
c	Analysis of one rock/ soil sample for determination of a package by 34 elements by ICP-AES / ICPMS (34 elements along with Cu, Pb, Zn, Fe, Ni, Co, Cr, Al, S, Bi etc.)	Nos	4.1.14	₹ 7,731.00	1	₹ 7,731.00		
2	Physical & Petrological Studies							
i	Preparation of Standard thin section of rock	Nos	4.3.1	₹ 2,353.00	10	₹ 23,530.00		
ii	Complete petrographic/ ore microscopic study/ mineragraphic report of rock sample	Nos	4.3.4	₹ 4,232.00	10	₹ 42,320.00		
iii	Digital Photomicrograph of thin polished section	Nos	4.3.7	₹ 280.00	10	₹ 2,800.00		
iv	Bulk density analysis	Nos	4.8.1	₹ 1,605.00	5	₹ 8,025.00		
v	Total graphitic carbon (TGC)	Nos	-	₹ 2,500.00	20	₹ 50,000.00	As per actuals . The cost is given based on market research	
	Sub Total- F						₹ 20,45,757.00	
G	Total A to F						₹ 2,53,46,341.00	
H	Geological Report Preparation	5 Hard copies with a soft copy	5.2			₹ 7,60,390.23	Reimbursement will be made after submission of the Final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.	
I	Peer review Charges	As per EC decision		₹ 30,000.00	1	₹ 30,000.00		
J	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5 Lakhs		₹ 5,00,000.00	EA will be reimbursed after submission of the Hard Copies and the soft copy of	

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				whichever is less			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					₹ 2,66,36,731.23	
M	Provision for GST (18% of L)					₹ 47,94,611.62	GST will be reimbursed as per actual and as per notified prescribed rate
N	Total Estimated Cost with GST					31431342.85	
Rs. In Lakhs						₹ 314.31	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency						

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Time Schedule/Action Plan for Preliminary Exploration (G3) For Graphite In Kodabata Block, Rayagada District, Odisha

S.No	Nature of Work	Months												
		1	2	3	4	5	6	7	8	9	10	11	12	
1	Camp Set up													
2	Detailed Geological mapping (sq km) (1:2000)													
3	Topographic survey- DGPS/ Total station/Drone (1:2000)													
4	Geophysical survey (SP survey) (L.km)													
5	Surface exploration-Trenching (cu. m)													
6	Bed rock samples (nos.)													
7	Trench samples (nos.)													
8	DGPS survey for fixation of borehole and cardinal points													
9	Systematic (100*100 spacing) Sub surface exploration – Drilling (m)													
10	Receipt of analyses and processing of analytical data													
11	GR preparation													

REVIEW

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Estimated Cost for Preliminary Exploration (G3) For Graphite In Saharha Block, Rayagada District, Odisha

Total area - 2.10 Sq.km; Borehole 20 [10 first level, after 1st review (04 in Western and 06 in Eastern zone) + 10 second level, after 2nd review] , Meterage - 1600 (600 m first level+ 1000 m second level), Period of completion - 12 months, Review -1st review after 3 months (after Geological mapping, Trenching and GP Survey); 2nd review after 6 months (after completion of 1st level of drilling); 3rd review after 8 months (after completion of 2nd level of drilling)

SL.No	Item Of Work*	Unit*	Rate As Per NMET SOC 2020-21		Estimated Cost of the Proposal		Remarks
			SOC. Item No	Rate As Per SOC* (a)	Qty. (b)	Total Amount (Rs) (a*b)	
A	Detailed Geological Mapping Other Geological Work & Surveying						
	Geological mapping (1:2000), Trenching & Drilling work						
i	a. Charges for 2 Geologist per day (Field) for Geological mapping & Trenching work, drilling activity (without labour)	day	1.3.b	₹ 11,000.00	150	₹ 16,50,000.00	
ii	b. Labours charges; Base rate (for 2 labours per geologists)	day	5.7	₹ 541.00	300	₹ 1,62,300.00	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
iii	c. Charges for Geologist per	day	1.3.a	₹ 9,000.00	30	₹ 2,70,000.00	

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	day (HQ)							
	Sub Total- A						₹ 20,82,300.00	
B	Trenching/Pitting							
i	Trenching	per cu.m	2.1.1	₹ 3,330.00	200	₹ 6,66,000.00	Trenching to be done on each and every profile	
	Sub Total- B						₹ 6,66,000.00	
C	Survey work							
i	Toposurvey Charges for one qualified surveyor	day	1.6.1a	₹ 8,300.00	30	₹ 2,49,000.00	Topographic survey, surface contouring at specific interval	
ii	DGPS Survey for BH fixation & RL determination	Per Point of observation of observation	1.6.2	₹ 19,200.00	24	₹ 4,60,800.00	20 BH + 4 Cardinal points	
iii	Labours Charges for survey work; Base rate	day	5.7	₹ 541.00	120	₹ 64,920.00		
	Sub Total- C						₹ 7,74,720.00	
D	Ground Geophysical Survey (in- house)							
i	Charge for SP survey	Line km	3.3a	₹ 29,600.00	3	₹ 88,800.00		
	Sub Total- D						₹ 88,800.00	
E	Drilling (after review) (in- house)							
i	Systematic Drilling (Hard rock) (HQ) in first Level	per m	2.2.1.4a	₹ 11,500.00	600	₹ 69,00,000.00	10 BH 1st level @30 m vertical depth of intersection (BH depth 60-70 m)	
ii	Systematic Drilling up to 1550 m (Hard rock) (HQ) in second Level	per m	2.2.1.4a	₹ 11,500.00	1000	₹ 1,15,00,000.00	10 BH 2nd level @60m vertical depth of intersection (BH Depth 100-110 m)	

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							(Subject to successful intersection in first level BH and subsequent approval of NMET-TCC)
iii	Borehole deviation by multi shot camera	per m	2.2.6	₹ 330.00	500	₹ 1,65,000.00	2nd level BH Staggering
iv	Land / Crop Compansation (in case the BH falls in agricultural Land)	per borehole	5.6	₹ 20,000.00	20	₹ 4,00,000.00	As per actuals as certified by local authorities subject to a maximum of 20000 per borehole
v	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	₹ 2,000.00	20	₹ 40,000.00	
vi	Transportation of Drill Rig & Truck associated per drill (2 rig)	Km	2.2.8	₹ 36.00	3,440	₹ 1,23,840.00	Raniganj to Rayagada to and fro (860 Km) =860*2*2
vii	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	₹ 50,000.00	6	₹ 3,00,000.00	2 rig 3 month each
viii	Drilling Camp Setting Cost	Nos	2.2.9a	₹ 2,50,000.00	2	₹ 5,00,000.00	
ix	Drilling Camp Winding up Cost	Nos	2.2.9a	₹ 2,50,000.00	2	₹ 5,00,000.00	
x	Road Making (Flat Terrain)	Km	2.2.10a	₹ 22,020.00	6	₹ 1,32,120.00	
xi	Drill Core Preservation	per m	5.3	₹ 1,590.00	500	₹ 7,95,000.00	
xii	Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	₹ 5,100.00	70	₹ 3,57,000.00	
xiii	Charges for Labour	day	5.7	₹ 541.00	280	₹ 1,51,480.00	
Sub Total- E						₹ 2,18,64,440.00	
F	Laboratory Studies						
1	Chemical Analysis						

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i)	Trench Samples						
a	Proximate analysis for graphite	Nos	4.1.16	₹ 3,000.00	100	₹ 3,00,000.00	
ii)	Trench Check samples (10% External)						
a	Proximate analysis for graphite	Nos	4.1.16	₹ 3,000.00	10	₹ 30,000.00	
iii)	BH Core samples (first level BH)						
a	Proximate analysis for graphite	Nos	4.1.16	₹ 3,000.00	150	₹ 4,50,000.00	
iv)	BH Core samples (10%External) (first level BH)						
a	Proximate analysis for graphite	Nos	4.1.16	₹ 3,000.00	15	₹ 45,000.00	
v)	BH Core samples (Second level BH)						
a	Proximate analysis for graphite	Nos	4.1.16	₹ 3,000.00	250	₹ 7,50,000.00	
c	Analysis of one rock/ soil sample for determination of a package by 34 elements by ICP-AES / ICPMS (34 elements along with Cu, Pb, Zn, Fe, Ni, Co, Cr, Al, S, Bi etc.)	Nos	4.1.14	₹ 7,731.00	10	₹ 77,310.00	
vi)	BH Core samples (10%External) (Second level BH)						
a	Proximate analysis for graphite	Nos	4.1.16	₹ 3,000.00	25	₹ 75,000.00	
c	Analysis of one rock/ soil sample for determination of a package by 34 elements by ICP-AES / ICPMS (34 elements along with Cu, Pb, Zn, Fe, Ni, Co, Cr, Al, S, Bi etc.)	Nos	4.1.14	₹ 7,731.00	1	₹ 7,731.00	
2	Physical & Petrological						

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	Studies						
i	Preparation of Standard thin section of rock	Nos	4.3.1	₹ 2,353.00	10	₹ 23,530.00	
ii	Complete petrographic/ ore microscopic study/ mineragraphic report of rock sample	Nos	4.3.4	₹ 4,232.00	10	₹ 42,320.00	
iii	Digital Photomicrograph of thin polished section	Nos	4.3.7	₹ 280.00	10	₹ 2,800.00	
iv	Bulk density analysis	Nos	4.8.1	₹ 1,605.00	3	₹ 4,815.00	
v	Total graphitic carbon	Nos	-	₹ 2,500.00	20	₹ 50,000.00	As per actuals . The coast is given based on market research
Sub Total- F						₹ 18,58,506.00	
G	Total A to F					₹ 2,73,34,766.00	
H	Geological Report Preparation	5 Hard copies with a soft copy	5.2			₹ 8,20,042.98	Reimbursement will be made after submission of the Final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
I	Peer review Charges	As per EC decision		₹ 30,000.00	1	₹ 30,000.00	

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J	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is less	₹ 5,00,000.00	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				₹ 2,86,84,808.98	
M	Provision for GST (18% of L)				₹ 51,63,265.62	GST will be reimbursed as per actual and as per notified prescribed rate
N	Total Estimated Cost with GST				₹ 3,38,48,074.60	
	Rs. In Lakhs				₹ 338.48	
Note:						
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.					
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement					
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.					
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.					
5	Any item of work not mentioned above shall be added as per SoC.					
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency					

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Time Schedule/Action Plan for Preliminary Exploration (G3) For Graphite In Saharha Block, Rayagada District, Odisha

S.No	Nature of Work	Months														
		1	2	3	4	5	6	REVIEW	7	8	9	10	11	12		
1	Camp Set up															
2	Detailed Geological mapping (sq km) (1:2000)															
3	Topographic survey- DGPS/ Total station/Drone (1:2000)															
4	Geophysical survey (SP survey) (L.km)															
5	Surface exploration-Trenching (cu. m)															
6	Bed rock samples (nos.)															
7	Trench samples (nos.)															
8	DGPS survey for fixation of borehole and cardinal points															
9	Systematic (100*100 spacing) Sub surface exploration – Drilling (m)															
10	Receipt of analyses and processing of analytical data															
11	GR preparation															

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Annexure 18A

Estimated Cost for Reconnaissance Survey (G4) for REE and associated minerals in Nakchi Area, Angul District, Odisha. [Block area- 166.26 sq. km]; Nos. of Borehole: (Auger 150m)- 43BHs; Core Drilling: 250m Borehole depth: 40-50m (5 Nos. BH); Schedule timeline- 10 months, Review : 4 and 8 months]

S. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item & SI No.	Rates as per SoC	Qty.	Amount (Rs)	
A	GEOLOGICAL WORK						
1	Geological Mapping (1:12500), Borehole logging, sampling & Report writing						
i	Charges for one Geologist- Field	day	1.2	11,000	200	22,00,000	
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	541	400	2,16,400	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	41	2,09,100	
v	4 labours/ party (Rs 526/day/labour) (As per rates of Central Labour Commissioner)	day	5.7	541	164	88,724	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub Total- A					31,19,224	
B	Pitting						
	Pitting (For orientation and Heavy Mineral Separation Sample)	Cu. m.	2.1.1	3800	30	1,14,000	

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	Sub Total- B					1,14,000	
C	DRILLING						
i	Drilling upto 300m (Hard Rock) (1 rig)	m	2.2.1.4a	11,500	250	28,75,000	05 Boreholes, 50m depth each
ii	Land / Crop Compensation	per BH	5.6	20,000	5	1,00,000	Amount will be reimbursed as per actuals or max. Rs. 20000 per BH with certification from local authorities
iii	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	5	10,000	
iv	Transportation of Drill Rig & Truck associated per drill	Km	2.2.8	36	1,300	46,800	Certification in this regard is required and to be provided
v	Monthly Accomodation 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 (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
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	5	96,000	
xi	Auger Drilling	m	2.2.2	4,760	150	7,14,000	
	Sub Total- C					47,38,880	
D	LABORATORY STUDIES						
1	Chemical Analysis						

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i	Primary & Check samples							
	a-Analysis for 34 elements (REE + RM and others) by ICPMS method	Nos	4.1.14	7,731	300	23,19,300	Bedrock (50)+ Stream Sediment (50)+ Pitting (30)+ Auger sample (100)+ Drill core (50)+ Heavy Mineral (20) (Including Radioactive minerals)	
	b-External(10%) Check samples from NABL Lab by ICPMS method for 34 elements (REE + RM and others)	Nos	4.1.14	7,731	30	2,31,930		
2	Physical & Petrological Studies							
i	Preparation of thin section	Nos	4.3.1	2,353	10	23,530		
ii	Complete petrographic study report	Nos	4.3.4	4,232	10	42,320		
iii	Preparation of polished section	Nos	4.3.2	1,549	5	7,745		
iv	Complete mineragraphic study report	Nos	4.3.4	4,232	5	21,160		
v	Digital Photographs	Nos	4.3.7	280	5	1,400		
vi	XRD studies	Nos	4.5.1	4,000	20	80,000	Heavy Mineral concentration/mineralised host rock	
vii	EPMA (For 10 samples of heavy concentration/host rock)	Hour	4.4.1	8,540	40	3,41,600		
viii	Heavy Mineral Separation (05 SS + 15 orientation pit)	Nos	4.3.6a & b	16,200	20	3,24,000		
		Sub Total- D					33,92,985	
E		Total A to D					1,13,65,089	
F	Geological Report Preparation		5.2	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		5,68,254	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.	

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				value of work whichever is more			
G	Peer review Charges		As per EC decision			30,000	
H	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5 Lakhs whichever is lower		2,27,302	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.
I	Total Estimated Cost without GST					1,21,90,645	
J	Provision for GST (18% of I)					21,94,316	GST will be reimburse as per actual and as per notified prescribed rate
K	Total Estimated Cost with GST					1,43,84,961	or Say Rs. 143.85Lakh
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency						

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Annexure 18B

Time Schedule/ Action Plan for Reconnaissance Survey (G4) for REE and associated minerals in Nakchi Area, Angul District, 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 (1 rig) Auger and core	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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**Estimated Cost for Preliminary Exploration (G3) for Limestone in West of Yepalamadhavaram Block
District- Suryapet , Telengana**

**Total Area - 4.15 Sq Km; Nos. of Borehole - 5 Nos. (Total Drilling: 250 m) ; Borehole depth: 50m ; Completion Time - 08 Months,
Review after 04 months**

S.N	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item -SI No.	Rates as per SoC	Qty.	Total Amount (Rs)	
A	GEOLOGICAL WORK						
1	Geological Mapping at 1:4000 Scale, Borehole logging, Sampling & Report writing						
a	Charges for one Geologist per day at HQ	day	1.3	9,000	30	2,70,000	
b	Charges for one Geologist per day at field	day	1.3	11,000	90	9,90,000	
c	Labour for Geologist (2 Nos)	day	5.7	541	180	97,380	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
d	Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	30	1,53,000	
e	Labours for sampling work (4 Nos)	day	5.7	541	120	64,920	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
2	Survey Work						

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a	Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes and block cardinal points by DGPS	Per Point of observation	1.6.2	19,200	46	8,83,200	Block cardinal point- 41 Borehole location- 5
b	Charges of one qualified surveyor with Total Station for carrying out topographical survey in different RF and surface contouring at different interval	days	1.6.1a	8,300	30	2,49,000	Survey at 1:4000 Scale
c	4 labours/ party (As per rates of Central Labour Commissioner)	days	5.7	541	120	64,920	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
Sub-Total A						27,72,420	
B	Drilling -Soft rock (Outsourcing)						
1	Drilling -Soft rock (Outsourcing)	m	2.2.1.1b	7,168	250	17,92,000	MoC Rate
2	Tendering process cost	One time	2.3	2% of the approved project cost or 5 lakh whichever is lower will be paid one time to Exploration Agency		35,840	Amount will be reimburse as per actuals or max. Rs. 20000 per BH with certification from local authorities

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3	Operational Charges	One time	6.i	In case of total outsourced cost up to ₹50 lakh: In addition, 10 percent of the total outsourced cost will be paid to Exploration Agency towards operational charges.		1,79,200	
4	Drill Core Preservation	Per m	5.3	1,590	200	3,18,000	
	Sub Total B					23,25,040	
C	LABORATORY STUDIES						
1	<u>Chemical Analysis</u>						
i)	Primary samples						
	a. For 10 radicals i.e. CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , Na ₂ O, SO ₃ , P ₂ O ₅ , K ₂ O by XRF and LOI	Nos	4.1.15a	4,200	220	9,24,000	40 Nos of Samples shall be generated per Boreholes
ii)	Check samples External(10%)						
	a. For 10 radicals i.e. CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , Na ₂ O, SO ₃ , P ₂ O ₅ , K ₂ O by XRF and LOI	Nos	4.1.15a	4,200	22	92,400	
iii)	10% of Primary sample will be studies for 34 Elemental Analysis by IC-PMS method	Per Sample	4.1.14	7,731	-	-	
iv)	Check samples External(10%)	Per Sample	4.1.14	7,731	-	-	
v)	Bulk Density	per sample	4.1	3,540	2	7,080	
vi)	Preparation of thin section	per sample	4.3.1	2,353	3	7,059	
vii)	Study of thin section for petrography	per sample	4.3.4	4,232	3	12,696	

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viii)	Digital photomicrograph of thin polished section	per sample	4.3.7	280	3	840	
	Total - C					10,44,075	
D	Sub Total (A to C)					61,41,535	
E	Geological Report Preparation		5.2	For exploration exceeding ₹50 lakh but less than 150 lakh A Minimum of ₹2.5 lakh or 5% of the work whichever is more and ₹ 3000/- per each additional copy.		3,07,077	
F	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is lower		1,22,831	
G	Peer review Charges		As per EC decision			30,000	
H	Total Estimated Cost without GST					66,01,442	
I	Provision for GST (18% of H)	%				11,88,260	GST will be reimbursed as per actual and as per notified prescribed rate
J	Total Estimated Cost with GST					77,89,702	

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				<i>or Say Rs. In Lakhs</i>	<i>77.90</i>	
Note:						
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.					
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement					
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.					
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.					
5	Any item of work not mentioned above shall be added as per SoC.					
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency					

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**Time schedule/ Action Plan for Preliminary Exploration (G3) for Limestone in West of Yepalamadhavaram Block
District- Suryapet , Telengana**

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

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Estimated Cost for Preliminary Exploration (G3) for Limestone in Revuru Block District- Suryapet , Telengana
Total Area - 4.25 Sq Km; Nos. of Borehole- 5 (Total Drilling: 250m) ; Borehole depth: 50m ; Completion Time - 08 Months,
Review after 04 months

S.N	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item -SI No.	Rates as per SoC	Qty.	Total Amount (Rs)	
A	GEOLOGICAL WORK						
1	Geological Mapping at 1:4000 Scale, Borhole logging, Sampling & Report writing						
a	Charges for one Geologist per day at HQ	day	1.3	9,000	30	2,70,000	
b	Charges for one Geologist per day at field	day	1.3	11,000	90	9,90,000	
c	Labour for Geologist (2 Nos)	day	5.7	541	180	97,380	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
d	Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	28	1,42,800	
e	Labours for sampling work (4 Nos)	day	5.7	541	112	60,592	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
2	Survey Work						

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a	Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes and block cardinal points by DGPS	Per Point of observation	1.6.2	19,200	16	3,07,200	Block cardinal point- 11 Borehole- 5
b	Charges of one qualified surveyor with Total Station for carrying out topographical survey in different RF and surface contouring at different interval	days	1.6.1a	8,300	30	2,49,000	Survey at 1:4000 Scale
c	4 labours/ party (As per rates of Central Labour Commissioner)	days	5.7	541	120	64,920	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
Sub-Total A						21,81,892	
B	DRILLING (Outsourced)						
1	Drilling -Soft rock (Outsourcing)	m	2.2.1.1b	7,168	250	17,92,000	MoC Rate
2	Tendering process cost	One time	2.3	2% of the approved project cost or 5 lakh whichever is lower will be paid one time to Exploration Agency		35,840	Amount will be reimburse as per actuals or max. Rs. 20000 per BH with certification from local authorities
3	Operational Charges	One time	6.i	In case of total outsourced cost up to ₹50 lakh: In addition, 10 percent of the total outsourced cost will be paid to Exploration Agency towards operational charges.		1,79,200	

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4	Drill Core Preservation	Per m	5.3	1,590	220	3,49,800	
	Sub Total B					23,56,840	
C	LABORATORY STUDIES						
1	Chemical Analysis						
i)	Primary samples						
	a. For 10 radicals i.e. CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , Na ₂ O, SO ₃ , P ₂ O ₅ , K ₂ O by XRF and LOI	Nos	4.1.15a	4,200	220	9,24,000	
ii)	Check samples External(10%)						
	a. For 10 radicals i.e. CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , Na ₂ O, SO ₃ , P ₂ O ₅ , K ₂ O by XRF and LOI	Nos	4.1.15a	4,200	22	92,400	
iii)	Bulk Density	per sample	4.1	3,540	2	7,080	
iv)	Preparation of thin section	per sample	4.3.1	2,353	3	7,059	
v)	Study of thin section for petrography	per sample	4.3.4	4,232	3	12,696	
vi)	Digital photomicrograph of thin polished section	per sample	4.3.7	280	3	840	
	Total - C					10,44,075	
D	Sub Total (A to C)					55,82,807	
E	Geological Report Preparation		5.2	For the projects up to ₹50 lakh: Minimum ₹1.50 lakh or 5% of the total value of work whichever is more and ₹1000/		2,79,140	

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				each additional copy.			
F	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5 Lakhs whichever is lower		1,11,656	
G	Peer review Charges		As per EC decision			30,000	
H	Total Estimated Cost without GST					60,03,603	
I	Provision for GST (18% of H)	%				10,80,649	GST will be reimburse as per actual and as per notified prescribed rate
J	Total Estimated Cost with GST					70,84,252	
or Say Rs. In Lakhs						70.84	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency						

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Time Schedule/ Action Plan for Preliminary Exploration (G3) for Limestone in Revuru Block District- Suryapet , Telengana

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

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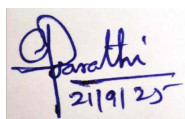
**Estimated cost for Reconnaissance Survey (G4) for Copper (Cu) in Bodal area, Mohla Manpur Ambagarh Chowki District, Chhattisgarh
Total block area- 50.35 sq km; 5 boreholes, Total drilling 500 m, Timeline:10 months, Review after 3 months, 6 months and 9 months**

S.No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item- S. No.	Rates as per SoC	Qty.	Total Amount (Rs)	
1.0	Survey Work in potential Zone Areas	Sq.km					
	a) Bore Hole Fixation (Scout Boreholes) by DGPS	Nos	1.6.2	19200	5	96,000	5 number of Scout Borehole
2.0	Geological Mapping (LSM) (1:12,500), Other Geological Work including BR, SS and SOIL sampling				50.5 sq km		
2.1	Large scale (LSM) Geological mapping (on 1:12,500 Scale)					-	
	a) Geologist man days (1 No) for Geological Mapping (Field)	days	1.2	11,000	120	13,20,000	
	b) Labour (field) for Geological mapping work (Total 4 Nos i.e. 2 workers per one geologist)	per worker	5.7	541	240	1,29,840	
	c) Surface Sampling -1 Sampler Labour charge not included	day	1.5.2	5100	60	3,06,000	
	d) 4 labours/ party (Rs 522/day/labour) (As per rates of Central Labour Commissioner) Base rate - Rs. 522 x 4 = 2088	day	5.7	541	240	1,29,840	

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	Escalation under Most Affected LWE Districts	1.25 times	5A			1.25	Office Memo: F.No.6/2/2015-NMET/195 on 08.07.2024
	Sub-Total A					24,77,100	
3.0	Geophysical Surveys#						(Work to be carried out after completion of Geological Mapping and on interpretation of data of geochemical sampling)
3.1	I.P. cum-resistivity, S.P., magnetic (8-10 km)	(8-10 km) line km	3.4 b	14,48,693	2	28,97,386	Available GP data from AMD and GSI need to be consulted; 20 L km, to be done after 1st review
	Escalation under Most Affected LWE Districts	1.25 times	5A			1.25	Office Memo: F.No.6/2/2015-NMET/195 on 08.07.2024
	Sub-Total B					36,21,733	
4.0	Mineral Investigation						
4.1	Trenching/Pitting ^s						
	a) Excavation of pits	per cu m	2.1.2	3,800	200	7,60,000	200 cu.m of pits; 100 pits
	Escalation under Most Affected LWE Districts	1.25 times	5A			1.25	Office Memo: F.No.6/2/2015-NMET/195 on 08.07.2024
	Sub-Total C					9,50,000	
5.0	Drilling						
5.1	Drilling up to 300m - 1 Rig (Hard Rock)	per m	2.2.1.4 a	11,500	500	57,50,000	
5.2	Borehole deviation survey	per m	2.2.6	330	0	-	
5.3	Borehole pillaring						
	a) construction of concrete pillar (12"x12"x30")	per borehole	2.2.7.a	2,000	5	10,000	
	b) Borehole plugging by cement	per m	2.2.7.b	150	0	-	
5.4	Transportation of drill rigs & truck associated per drill	per km	2.2.8	36	1800	64,800	(To & Fro from HQ)




5.5	Monthly accommodation charges for drilling camp	monthly	2.2.9	50,000	3	1,50,000	
	a) Drilling camp setting (1 rigs)	per drill	2.2.9a	2,50,000	1	2,50,000	
	b) Drilling camp winding (1 rigs)	per drill	2.2.9b	2,50,000	1	2,50,000	
5.6	Approach road making in rugged- hilly terrain (Partly rugged-hilly terrain)	per km	2.2.10b	32,200	5	1,61,000	As per actuals
5.7	Drill core preservation	per m	5.3	1590	200	3,18,000	100 m from 1 BH and 25 m from remaining 4 BHs each
5.8	Land/crop compensation	per borehole	5.6	20000	5	1,00,000	As per actuals
5.9	a) Geologist man days (1 No) for drilling, logging and sampling	days	1.2	11000	0	-	
	b) Labour (field) (Total 4 Nos i.e., 2 workers per one geologist) Base rate - Rs. 522 x 2 = 1044	per worker	5.7	1044	0	-	
	Escalation under Most Affected LWE Districts	1.25 times	5A			1.25	Office Memo: F.No.6/2/2015-NMET/195 on 08.07.2024
	Sub-Total D					88,17,250	
6.0	Laboratory Studies						
6.1	Chemical Analysis						
	i) Surface sampling (Bed Rock Samples/Soil/Stream Sediment)						
	a) 34 element Package analysis including REE by ICP-MS for surface samples	per sample	4.1.14	7,731	400	30,92,400	Bed Rock Sample: 100 nos, Soil Sample: 50 nos, Stream Sediment Sample: 50 nos, Core samples: 100 nos, Pit samples 100
	b) For PGE and Gold (ICP-MS Ni-S Fire Assay techniques)	Per Sample	4.1.5d	11,800	25	2,95,000	

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	ii) Check Samples (Bed Rock/Soil/Stream Sediment Samples) - 5% Internal & 10% External					-	
	a) 34 element Package analysis by ICP-MS for surface samples	per sample	4.1.14	7,731	40	3,09,240	
	b) For PGE (ICP-MS Ni-S Fire Assay techniques)	Per Sample	4.1.5d	11,800	2	23,600	
6.2	vii) XRD Studies for identification of minerals on composite sample	per sample	4.5.1	4,000	5	20,000	
6.3	ix) Whole rock studies (Major oxides +Trace Elements) (XRF Technique)	per sample	4.1.15a	4,200	10	42,000	
6.4	x) Petrological / Mineralographic studies					-	
	a) Preparation of thin polished section	per sample	4.3.2	1,549	30	46,470	
	b) Study of thin section for petrography	per sample	4.3.4	4,232	30	1,26,960	
	c) Digital photomicrograph of thin polished section	per sample	4.3.7	280	30	8,400	
6.5	Specific Gravity Determination (BH)	per sample	4.8.1	1605	5	8,025	
6.6	EPMA	per hour	4.4.1	8540	5	42,700	
	Sub-Total E					40,14,795	
7.0	Geologist man days (1 No.) for Geological map & Report (HQ)	days	1.2	9,000	30	2,70,000	Pre & post field interpretation (including Remote sensing studies)
	Geophysicist (HQ)	days	3.2	9,000	5	45,000	
	Sub-Total F					3,15,000	
8.0	Total (Sub-Total A to F)					2,01,95,878	

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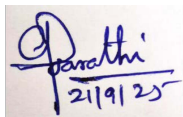
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9.0	Geological Report Preparation	5 Hard copies with a soft copy	5.2	A Minimum of Rs. 7.5 lakhs or 3% of the work whichever is more	1	7,50,000	For the projects having cost up to exceeding Rs. 150 Lakhs but less than 300 Lakhs: A Minimum of Rs. 7.5 lakhs or 3% of the work whichever is more and Rs. 3000/- per each additional copy.
10.0	Preparation of Exploration Proposal	Nos	5.1	500000	1	4,03,918	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.
11.0	Report Peer Review Charges	Rs. 30000 lumpsum plus Rs.1500 as handling charges	As per EC decision	30000	1	30,000	
12.0	Total Estimated Cost without GST (8+9+10+11)					2,13,79,795	
13.0	Provision for GST (18%)					38,48,363	GST will be reimburse as per actual and as per notified prescribed rate
14.0	Total Estimated Cost with GST					2,52,28,158	
					Say, in Lakhs	252.28	lakhs
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						

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



Time schedule / Action plan of Reconnaissance Survey (G4) for Copper (Cu) in Bodal area, Mohla Manpur Ambagarh Chowki District, Chhattisgarh

S.No.	Activities	Phase	MONTHS													
			1	2	3	4	5	6	7	8	9	10				
1	Camp setting*	Phase - I	█													
2	Geological mapping & Sampling		█	█												
3	Sample preparation			█	█											
4	Analytical work				█	█										
5	Interim report & Review by TCC					█										
6	Geophysical survey	Phase - II					█	█								
7	Geophysical report preparation								█							
8	Interim report & Review by TCC									█						
9	Diamond Drilling 500m	Phase-III									█	█	█			
10	Sample preparation for Drill core samples											█	█	█		
11	Analytical work drill core samples											█	█	█		
12	Camp winding												█	█		
13	Geological report Preparation													█	█	
14	Peer Review & Final report submission														█	

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Revised Cost for Preliminary Exploration (G3) for Limestone in Mundra-Chilai Block (4.38 Sq. km) District- Yavatmal, Maharashtra
Total Area - 4.38 Sq Km; Nos. of Borehole - 06; Borehole depth range - 50m (BGL); Completion Time - 10 Months

S.N	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Revised cost		Justification for revised cost	Remarks as per approval
			SoC-Item - SI No.	Rates as per SoC	Qty.	Total Amount (Rs)	Qty.	Total Amount (Rs)		
A	GEOLOGICAL WORK									
1	Mapping (1:4000), Borhole logging & Sampling & Report writing									
a	Charges for one Geologist per day at HQ	day	1.3a	9,000	30	2,70,000	30	2,70,000		
b	Charges for one Geologist per day at field	day	1.3b	11,000	100	11,00,000	100	11,00,000		
c	Labour for Geologist (2 Nos)	day	5.7	522	200	1,04,400	200	1,04,400		Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
d	Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	39	1,98,900	15	76,500	Sampler days reduced as per actual samples processed and	

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									analysed	
e	Labours for sampling work (4 Nos)	day	5.7	522	156	81,432	60	31,320		Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
2	Survey (on 1:4000 Scale)							-		
a	Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes and block cardinal points by DGPS	Per Point of observation	1.6.2	19,200	13	2,49,600	12	2,30,400	Block cardinal point- 7 Borehole- 5	Block cardinal point- 7 Borehole- 6
b	Charges of one Surveyor (1 Party)	one surveyor per day	1.6.1a	8,300	30	2,49,000	30	2,49,000		Contouring at 2m interval
c	Labours (4 Nos)	day	5.7	522	120	62,640	120	62,640		Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub-Total A					23,15,972		21,24,260		
B	DRILLING							-		
1	Drilling -Soft rock	m	2.2.1.1b	7,168	300	21,50,400	230	16,48,640	Drilling meterage reduced as one borehole	MoC Rate

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									couldnot be taken up due to local issue and standing crop	
2	Land / Crop Compansation (in case the BH falls in agreecultural 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
3	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	13	26,000	12	24,000		
4	Transportation of Drill Rig & Truck associated per drill	Km	2.2.8	36	400	14,400	400	14,400		To & fro
5	Monthly Accomodation Charges for drilling Camp (up to 1 Rigs)	month	2.2.9	50,000	3	1,50,000	3	1,50,000		
6	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	1	2,50,000	1	2,50,000		
7	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	1	2,50,000	1	2,50,000		
8	Road Making (Flat Terrain)	Km	2.2.10a	22,020	5	1,10,100	5	1,10,100		Road Making will be considered as per the requirement and Road Making Charges will be reimbursed accordingly.
9	Drill Core Preservation	per m	5.3	1,590	270	4,29,300	200	3,18,000		
	Sub Total B					35,00,200		27,65,140		
C	LABORATORY STUDIES							-		
1	Chemical Analysis							-		

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i)	Primary samples							-		
	a. For 10 radicals i.e. CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , SO ₃ , P ₂ O ₅ , K ₂ O, Na ₂ O and LOI by XRF	Nos	4.1.15a	4,200	280	11,76,000	98	4,11,600	considering uniformity of dolomite. 2m sample length considered hence sample nos are reduced and accordingly check samples are also reduced	Sample length considered as 1m for 6 boreholes
ii)	External Check samples (10%)							-		
	a. For 10 radicals i.e. CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , SO ₃ , P ₂ O ₅ , K ₂ O, Na ₂ O and LOI by XRF	Nos	4.1.15a	4,200	28	1,17,600	10	42,000		
iii)	Petrological samples (Bh Core Samples)							-		
i	Preparation of thin section	Nos	4.3.1	2,353	5	11,765	5	11,765		
ii	Study of Thin Section	Nos	4.3.4	4,232	5	21,160	5	21,160		
iv)	Bulk Density Determination							-		
	Bulk Density	No.	4.1	3,540	2	7,080	2	7,080		
	Total - C					13,33,605		4,93,605		
D	Sub Total (A to C)					71,49,777		53,83,005		

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E	Geological Report Preparation		5.2	For the projects exceeding Rs. 50 Lakhs but less than 150 Lakhs: A Minimum of Rs. 2.5 lakhs or 5% of the work whichever is more		3,57,489		2,69,150		EA has to submit the final Geological Report in Hard Copies (5 Nos) and soft copy to NMET
F	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1/28th EC	2% of the Cost or Rs. 5.0 Lakhs whichever is higher		1,42,996		1,07,660		EA has to submit the Hhard copies and soft copies of final proposal along with maps and plan as suggested by the TCC-NMET in its meeting while clearing the proposal.
G	Peer review Charges		As per EC decision			30,000		30,000		
H	Total Estimated Cost without GST					76,80,261		57,89,815		

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I	Provision for GST (18% of H)	%				13,82,447		10,42,167		GST will be reimburse as per actual and as per notified prescribed rate
J	Total Estimated Cost with GST					90,62,708		68,31,982	De-escalation of Rs. 22,30,726/-	
				<i>or Say Rs. In Lakhs</i>		90.63		68.32	24.61%	
Note:										
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.									
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement									
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.									
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.									
5	Any item of work not mentioned above shall be added as per SoC.									
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency									

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Revised cost for Reconnaissance Exploration (G-4 Level) of Nagavanda Gold and Basemetal Block Dist., Karnataka

SI	Item of Work	Unit	Quantities approved by 50th meeting of TCC-NMET				Quantities executed				Remarks		
			SOC Item No	Qty	Rate	Amount (Rs)	Qty	Rate	Amount (Rs)	Out sourced			
(a)	(b)	(c)	(d)	(f)	(g)	(i)=(e)*(h)	(h)	(i)	(j)=(i)*(h)				
1	Interpretation of Aerogeophysical data and NGPM data												
1.1	Charges towards purchase of aerogeophysical maps	nos	1.1	1	5,400	5,400	5,400	0	0	0	0		
2	LARGE SCALE GEOLOGICAL MAPPING WORKS (1:12,500 scale :63.3sq km)												
2.1	Geologist Party days - Field	days	1.2	150	11,000	16,50,000	27,95,300	150	11,000	16,50,000	27,37,700		
2.2	Geologist Party days - HQ		1.2	60	9,000	5,40,000		60	9,000	5,40,000			
2.3	Labour charges	days	5.7	300	431	1,29,300		300	431	1,29,300			
3	TRENCHING WORKS												
3.1	Trenching works	cum	2.1.2	100	3,800	3,80,000		100	3,800	3,80,000			
4	SURVEY WORKS												
4.1	DGPS Survey	Points	1.6.2	5	19,200	96,000	2	19,200	38,400				
5	DRILLING												
5.1	Surface Drilling (01 rig - Hard Rock)	m.	2.2.1.4a	500	11,500	57,50,000	69,15,200	326.0	8,390	27,35,140	27,35,140	Rawel Singh (Ref Annexure 01)	
5.2	Transportation of drill rigs (01 unit x 600 km one way)	km	2.2.8	600	36	21,600		0		0			
5.3	Drilling camp setting cost	per drill	2.2.9a	1	2,50,000	2,50,000		0		0			
5.4	Monthly accomadation charges for drilling camp	monthly basis	2.2.9	3	50,000	1,50,000		0		0			
5.5	Drilling camp winding cost	per drill	2.2.9b	1	2,50,000	2,50,000		0		0			
5.6	Approach road making for Rugged - Hilly terrain	Km	2.2.10b	5	32,200	1,61,000		0		0			
5.7	Construction of Concrete pillar (12"X 12"X30")	per borehole	2.2.7a	5	2,000	10,000		0		0			
5.8	Core preservation	m	5.3	140	1,590	2,22,600		0		0			
5.9	Land/Crop compensation (in case the BH falls in agriculture land)	per borehole	5.6	5	20,000	1,00,000		0		0			
6	LABORATORY STUDIES												

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6.1	Sample processing works (663 nos)	Sampler charges	days	1.5.2	42	5,100	2,14,200	2,86,608	24	5,100	1,22,400	1,63,776			
6.2		Labour charges	days	5.7	168	431	72,408		96	431	41,376				
6.3	Sample analysis 7 Radicals(Cu,Pb,Zn,Ag,Mo,W&Sn)	Primary	per sample	4.1.7a & 7b	335.0	3,176	10,63,960	12,25,936	122.0	3,176	3,87,472	5,94,857	1,46,096	MECL (Ref Annexure 02)	
6.4		Internal Check (5%)			17.0	3,176	53,992		10.0	3176.0	31,760				
6.5		External Check (10%)			34.0	3,176	1,07,984		17.0	1737.0	29,529		29,529	Shiva analyticals (Ref Annexure 03)	
6.6	Gold analysis by Fire assay method	Primary	per sample	4.1.5a	100.0	2,380	2,38,000	2,73,700	16.0	2100.0	33,600	73,080	33,600	HGML (Ref Annexure 04)	
6.7		Internal Check (5%)			4.1.5a	5.0	2,380		11,900	10.0	1568.0		15,680	15,680	Shiva analyticals (Ref Annexure 03)
6.8		External Check (10%)			4.1.5a	10.0	2,380		23,800	10.0	2380.0		23,800	23,800	MECL (Ref Annexure 02)
6.9	Proximate Analysis of Graphite		per sample	4.1.16	20.0	3,000	60,000	60,000	16.0	3000.0	48,000	48,000			
6.10	Petro studies	Preparation of Standard Thin section	nos	4.3.1	10.0	2,353	23,530	1,20,020	4.0	3000.0	12,000	12,000	12,000	MECL @ Rs 3,000/- per sample (Ref Annexure 02)	
6.11		Complete Petrological Report of rock sample	nos	4.3.4	10.0	4,232	42,320		10.0		30,000	30,000	30,000	IIT Bombay @ Rs 3,000/- per sample. (Ref Annexure	

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															05)
6.12		Preparation of Polished Thin section	nos	4.3.2	10.0	1,185	11,850		10.0		-				
6.13		Mineragraphic studies	nos	4.3.4	10.0	4,232	42,320		10.0		-				
7	Peer review of report		lumpsum		1		10,000	10,000							
8	Sub Total						1,16,92,164	1,16,92,164			63,94,553	63,94,553	30,25,845		
9	Preparation of Exploration Project Proposal		lumpsum	5.1	5 Hard copies along with Soft copy		2,33,843	2,33,843	5 Hard copies along with Soft copy		1,27,891	1,27,891			
10	Exploration Report (5% of (SI 9 + SI 10))			5.2(iii)	5 Hard copies along with Soft copy		5,84,608	5,84,608	5 Hard copies along with Soft copy		3,19,728	3,19,728			
11	Peer review of report										30,000	30,000			Additional approval
12	Tender processing Cost @ 2% of approved project cost or Rs 5 lakhs which ever is lower (Rs 30,25,845 *0.02)		lumpsum	2.3							60,517	60,517			Additional approval
13	Operational Charges (Reimbursement of cost in case of outsourced components of project work) (Rs 30,25,845 *0.10)		lumpsum	6(i)							3,02,585	3,02,585			Additional approval
14	GRAND TOTAL (9 to 11)						1,25,10,615	1,25,10,615			72,35,273	72,35,273			
15	GST 18%						22,51,911	22,51,911			13,02,349	13,02,349			
16	Grand Total (with GST 18%)						1,47,62,526	14762526			85,37,622	85,37,622	De-escalation amount is Rs. 57,87,322		39.2%

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.

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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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21/09/2025