

Ministry of Mines
National Mineral Exploration and Development Trust
Minutes of the 96th Technical-cum-Cost Committee-1 (TCC-1) Meeting held on
11th, 12th and 13th May 2026 through video conferencing

The 96th 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 11th, 12th and 13th May, 2026. Members of TCC-1, NMEDT and representatives from DGM Rajasthan, DMM West Bengal, DGM Maharashtra, DMG Odisha, CGM Gujarat, DMM West Bengal, DMG Karnataka, GSI, NGRI, MECL, M/s. MMPL Private Limited, M/s. Unised Research Consultants Private Limited, M/s. GMMCO Technology Services Ltd., M/s. GEMS Project Pvt. Ltd., FAGMIL, M/s. Geovale Services Pvt. Ltd., M/s. PRB Infraprojects Pvt. Ltd., M/s. Kundan Concentrates Private Limited, M/s. Mining Tech Consultancy Services Limited, OMC Ltd., M/s. Geomarine Solutions Pvt. Ltd., M/s. Geoexpore Pvt. Ltd. and M/s. Natural Resources Division-Tata Steel Limited have attended the meeting through their respective VC modes.

The list of participants is attached in Annexure-11

Shri S. Dhanendran, Director, GSI and Member Secretary, TCC-1, NMEDT, welcomed Dr. S. Ravi, Dy. Director General, 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 96.1: Technical evaluation of new project proposals

Agenda 96.1.1. Reconnaissance Survey (G4) for Glauconitic Sandstone in Kelhura Area (Area 56.88 Sq. Km), Satna District, Madhya Pradesh.
(Proposal ID: ME/DD/G4/MP/MECL/26-27/003).

[Implementing Agency: MECL]

- a. The proposed block, falling in SOI Toposheet Nos. 63D/09 and 63D/13 within the Majhgawan–Paharikhera Potash Belt, comprises Vindhyan Supergroup lithologies including Rohania Sandstone, Pindra Shale, Bhulwa Limestone, Gadhara Sandstone, Banbiha Glauconitic Sandstone and Jhiri Shale.
- b. Geological Survey of India carried out exploration in the Pindra North Block during FS 1984–85 over ~12 sq. km. and estimated 266 MT reserves with 4.90% K₂O under proved category, indicating significant glauconite potential.
- c. Two cancelled 10A2(b) glauconitic sandstone lease blocks adjoining the area, namely Chitrakoot-2 explored by Nagur Minerals Pvt. Ltd. and Chitrakoot-3 explored by Mobile Trading & Investment Pvt. Ltd., reported proved mineable reserves of 50.46 MT and 85.51 MT respectively.
- d. Mineral Exploration and Consultancy Limited carried out reconnaissance survey in the Pindra SW Extension Block (39.23 sq. km.) and estimated 1,918 MT resources with 6.96% K₂O under UNFC-334 category, while G3-stage exploration in Deulha and Jhari blocks

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- established 317.04 MT @ 6.80% K₂O and 104.20 MT @ 6.04% K₂O resources respectively under UNFC-333 category.
- e. MECL also carried out G4-stage reconnaissance survey in the Kisanpur Block (52.17 sq. km.), located west of the 10A2(b) lease areas and Pindra SW Extension Block, and estimated 1,505.26 MT potential resources with average 6.67% K₂O under UNFC-334/333 categories.
 - f. Based on encouraging results from adjoining blocks, the agency proposed G4-stage exploration in the southern part of Kisanpur and Pindra SW Extension blocks involving large-scale geological mapping (1:12500 scale), exploratory drilling and sampling to delineate glauconitic sandstone extension and assess concealed resources and grade.
 - g. The committee reviewed the proposal and agreed upon two phases of work. The 1st phase will include mapping and surface sampling and after review of mapping and analytical values of surface samples, drilling will be done.
 - h. The committee recommended 11 BH with 80-90 m depth. The drilling will be done after review of 1st phase of work.

| Sl. No. | Agency | Brief Comments |
|---------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | GSI | The proposed area has similar lithological setup as in Pindra North Block which has proved category reserves of 266 Million Tonnes of glauconitic sandstone at 4.90% K ₂ O making it suitable for further exploration. |
| 2 | MECL | NA |
| 3 | AMD | AMD has not carried out any exploration / reconnaissance project in the proposed block. There is no ongoing exploration / reconnaissance project. |
| 4 | State DMG/DGM/CGM | The DMG has no previous/ ongoing exploration project of Glauconite or other mineral in the proposed area. There is no mineral concession overlapped with the proposed area. |
| 5 | NMEDT | Proposed area falls in recorded forest area. NMEDT funded block of MECL is present near the proposed area in NGDR Portal. |

Recommendations of TCC-1:

The committee recommended the proposal titled "Reconnaissance Survey (G4) for Glauconitic Sandstone in Kelhura Block (56.88 sq. km), District: Satna, Madhya Pradesh" for approval of PSC, NMEDT with an estimated cost of Rs. 152.01 lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure – 1A & 1B. The item will be reviewed after 4 and 8 months.

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Annexure 1A

**Reconnaissance Survey (G4) for Glauconitic Sandstone in Kelhura Block (56.88 sq. km), District: Satna, Madhya Pradesh
; Completion Time- 10 Months, Review after 4 & 8 months. Drilling: 900m, Depth: 11 BH (80-90m)**

| S. No. | Item of Work | Unit | Rates as per NMET SoC 2025-26 | | Estimated Cost of the Proposal | | Remarks |
|--------------------------------|--------------------------------------------------------------------------------|-------|-------------------------------|------------------|--------------------------------|------------------|------------------------------------------------------|
| | | | SoC-Item -SI No. | Rates as per SoC | Qty. | Amount (Rs) | |
| | | | | | | | |
| i | Geological mapping | Sq.Km | 1.1 | 18,300 | 56.88 | 1,040,904 | |
| B OTHER GEOLOGICAL WORK | | | | | | | |
| i | Charges for one Geologist- Field | day | 1.2.1a | 14,500 | 90 | 1,305,000 | Mapping, drilling, logging & core sampling |
| ii | 2 labours/ party (As per rates of Central Labour Commissioner) | day | 5.8 | 556 | 180 | 100,080 | Minimum wages plus statutory contributions and taxes |
| iii | Core Sampling -1 Samplers Labour charge not included | day | 1.2.1b | 7,850 | 62 | 486,700 | |
| iv | 4 labours/ party (As per rates of Central Labour Commissioner) | day | 5.8 | 556 | 248 | 137,888 | Minimum wages plus statutory contributions and taxes |
| v | Demarcation of co-ordinates and Reduced Level (RL) of boreholes by DGPS | Nos. | 1.3.2 | 24,000 | 11 | 264,000 | 11 boreholes |
| vi | Charges for one surveyor (1 Party) | day | 1.3.1 | 10,500 | - | - | |
| | 4 labours/ party (As per rates of Central Labour Commissioner) for survey work | day | 5.8 | 556 | - | - | Minimum wages plus statutory contributions and taxes |
| iii | Charges for one Geologist per- HQ | day | 1.2.1a | 10,500 | 30 | 315,000 | |
| Sub Total- A+B | | | | | | 3,649,572 | |
| C DRILLING (Outsource) | | | | | | | |
| i | Drilling -Soft rock | m | 2.2.1.1c | 5,500 | 900 | 4,950,000 | 11 Bhs at an average depth 80m to 90m per borehole |

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| ii | Land / Crop Compansation | per BH | 5.6 | 30,000 | 11 | 330,000 | |
| iii | Construction of concrete Pillar (12"x12"x30") | per BH | 2.2.7 | 2,000 | 11 | 22,000 | |
| | Drill Core Preservation | m | 5.3 | 1,590 | 400 | 636,000 | 1 complete BH + Remaining mineralised zone |
| iv | Miscellaneous Charges (Transportation of Drilling Rig, Accommodation for Drill Camp, Camp setting and winding, construction of Approach road and Drill core preservation | per BH | 2.2.9 | lumpsum | - | - | |
| Sub Total- C | | | | | | 5,938,000 | |
| D | LABORATORY STUDIES | | | | | | |
| 1 | Chemical Analysis | | | | | | |
| a | i) Primary + Check Sample - 4 radicals viz. K ₂ O, SiO ₂ , Al ₂ O ₃ & Fe ₂ O ₃ | Nos | 4.1.17a | 4,200 | 410 | 1,722,000 | By XRF Method (350 drill core samples + 60 BRS) |
| b | ii) 10% External check samples | Nos | 4.1.17a | 4,200 | 41 | 172,200 | |
| c | iii) Chemical Analysis (Composite) for 12 radicals viz. K ₂ O, Na ₂ O, CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , SO ₃ , P ₂ O ₅ , Mn ₂ O ₃ , TiO ₂ , and LOI. | Nos | 4.1.17a | 4,200 | 40 | 168,000 | |
| 2 | Physical & Petrological Studies | | | | | | |
| i | a) XRD study | Nos | 4.5.2 | 4,000 | 5 | 20,000 | XRD analysis for identification of minerals |
| ii | b) Preparation of thin section | Nos | 4.3.1 | 500 | 10 | 5,000 | Preparation of thin section |
| iii | c) Complete petrographic study report | Nos | 4.3.4 | 2,800 | 10 | 28,000 | Study of thin section for petrography |
| iv | d) Modal analysis of thin section | Nos | 4.3.7 | 4,590 | 10 | 45,900 | Modal analysis |
| v | e) Bulk Density - Dry/Saturated | Nos | 4.8.3 | 2,500 | 5 | 12,500 | Bulk Density |
| Sub Total- D | | | | | | 2,173,600 | |

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| | | | | | Total A to D | 11,761,172 | |
| E | Tendering Cost | | | | | 99,000 | |
| F | Technical Supervision Cost for outsourced components | | | | | 495,000 | |
| | Total A to F | | | | | 12,355,172 | |
| E | Geological Report Preparation | | 5.2 | ii) Total cost of the project exceeding Rs. 50.00 lakh but less than 150 lakh= Rs. 2.5 lakhs | | 250,000 | Reimbursement will be made after submission of the final Geological Report in soft copy |
| F | Peer review Charges | | As per EC decision | | | 30,000 | |
| G | Preparation of Exploration Proposal (soft copy) | Soft Copy | 5.1 | 2% of the Cost or Rs. 5.00 Lakhs whichever is lower | | 247,103 | EA has to submit the soft copy of the final proposal along with Maps and Plan as suggested by the TCC-NMEDT in its meeting while clearing the proposal. |
| H | Total Estimated Cost without GST | | | | | 12,882,275 | |
| I | Provision for GST (18% of I) | | | | | 2,318,809.58 | GST will be reimburse as per actual and as per notified prescribed rate |
| J | Total Estimated Cost with GST | | | | | 15,201,085.02 | |

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| | | | | or Say Rs. In Lakhs | 152.01 | |
| 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 excusion of the project by NEA on its own, a Certifiante 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 1B

**Time Schedule/ Action Plan for Reconnaissance Survey (G4) for Glauconitic Sandstone in Kelhura Block (56.88 sq. km),
District: Satna, Madhya Pradesh**

| S.No. | Activities | MONTHS | | | | | | | | | | | | |
|-------|------------------------------|--------|---|---|---|--------|--------|---|---|---|--------|---|--------|---|
| | | 1 | 2 | 3 | 4 | Review | 5 | 6 | 7 | 8 | Review | 9 | 10 | |
| 1 | Camp setting | ■ | | | | | Review | | | | | | Review | |
| 2 | Geological mapping | | ■ | ■ | | | | | | | | | | |
| 3 | Core drilling (1 rig) | | | | | ■ | | ■ | ■ | ■ | | | | |
| 4 | Geologist days (Field) | | ■ | | | ■ | | | | ■ | | | | |
| 5 | Sampling days, core sampling | | | | | | | ■ | ■ | ■ | | | | |
| 6 | Camp winding | | | | | | | | | ■ | | | | |
| 7 | Laboratory studies | | | | | ■ | | ■ | ■ | ■ | | ■ | | ■ |
| 8 | Geologist days (HQ) | | | | | | | | | | | ■ | | ■ |
| 9 | Report writing/ Peer review | | | | | | | | | | | ■ | | ■ |

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**Agenda 96.1.2. Preliminary Exploration (G-3) For Limestone in Pathria, Sasa and
Sujanipur region, Sagar and Damoh Districts, Madhya Pradesh.
(Proposal ID: ME/DD/G3/MP/26-27/004)**

[Implementing Agency: M/s. Unised Research Consultants Private Limited]

- a. The proposed limestone block falls in SOI Toposheet No. 55M/01 and comprises limestone of Nagod Formation and Lameta Group along with boulder bed, Deccan Trap basalt and recent alluvium/soil cover. Nagod limestone is mainly exposed near Kevlari and Sajiya villages, whereas Lameta limestone occurs around Umraho and Jamunia Mal villages.
- b. Systematic geological mapping in parts of Sagar District was carried out by K. Rajarajan during FS 1956–57, 1960–61 and 1977–78, wherein Nagod limestone samples analysed CaO values ranging from 35.01% to 50.13% with MgO absent, indicating occurrence of high-grade limestone horizons.
- c. National Geochemical Mapping in toposheets 55M/01 and 55M/03 was carried out by Vishwakarma and Kumar during FS 2021–22, reporting CaO values ranging from 0.34% to 12.19% in the area.
- d. Reconnaissance Survey (G4 stage) for limestone of Nagod and Lameta Formations in Garhakota–Pathria area of Sagar and Damoh districts was carried out during FS 2023–24. Analytical results indicated combined sample grades of CaO 21.26–29.09% (avg. 24.16%), while Nagod limestone showed CaO up to 47.96% (avg. 37.32%) and Lameta limestone up to 47.89% (avg. 37.39%).
- e. The G4-stage study by Karmi et al. revealed that the Nagod Formation comprises stromatolitic limestone, massive grey limestone and yellowish-brown laminated limestone. Massive grey limestone is relatively low in silica, whereas stromatolitic, laminated and Lameta limestones are comparatively siliceous and cherty in nature.
- f. The agency informed the committee that they have collected 07 samples. BRS as well as pit and well samples within the proposed block indicate significant compositional variability, with CaO values ranging from 22% to 50% suggesting both low- and high-grade limestone horizons, while MgO values ranging from 0.89% to 8.01% indicate localized dolomitic phases.
- g. Based on chemical values and compositional variability observed from 07 samples collected, the agency proposed G3-stage exploration for limestone involving detailed geological mapping (1:5000/4000 scale), geochemical bedrock sampling, pitting/trenching and exploratory drilling with sampling under UNFC G3 category.
- h. The committee reviewed the proposal and opined that Limestone occur at considerable depth in the area.
- i. It was also observed that an ML of limestone is present about 3 km NE of present area, suggesting limestone resources in the area. After thorough discussion on the viability of proposal, the committee agreed upon recommending the proposal for approval.
- j. The committee advised the agency to plan the borehole at 800m X 800m grid spacing as per MEMC Rules. The agency was also suggested to maintain a buffer from the road.
- k. The agency was advised to complete geological mapping and come for review with borehole plan for review.

| Sl. No. | Agency | Brief Comments |
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| 1 | GSI | G3 stage exploration, (situated in the NE of the proposed Pathria Block) under item "Preliminary Exploration for Limestone. In Botrai South Block, Damoh District, Madhya Pradesh (Stage: G3, FS - 2024-25)" Borehole investigations near Botrai village reveal subsurface rocks dominated by siliceous and mixed calcareous-siliceous layers, with only sporadic calcareous intervals. These do not meet IBM (2019) or MoM (2018) standards for cement-grade limestone. Chemical analyses confirm that no borehole samples satisfy cement-grade requirements, as CaO levels fall well below the limits (44–52% for cement grade; ≥34% for low-grade). Limited work might be justified if nearby areas offer better continuity or blending potential with high-CaO sources from adjacent sites. Since the area under exploration exhibits the lithology for which the chemical and lithological characteristics do not support its economic viability for cement manufacturing. |
| 2 | MECL | The proposed block has no overlapping with the ongoing or completed blocks of MECL. |
| 3 | AMD | AMD has not carried out any exploration / reconnaissance project in the proposed block. There is no ongoing exploration / reconnaissance project. |
| 4 | State DMG/DGM/CGM | NA |
| 5 | NMEDT | There are no NMEDT funded blocks overlapping with the proposed area, however, some part of proposed area falls in recorded forest area. |

Recommendations of TCC-1:

The committee recommended the proposal titled "Preliminary Exploration (G3) for Limestone in Patharia Block, Districts: Sagar and Damoh, Madhya Pradesh" for approval of PSC, NMEDT with an estimated cost of Rs. 132.35 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 3 and 6 months.

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Preliminary Exploration (G3) for Limestone in Patharia Block, Districts: Sagar and Damoh, Madhya Pradesh
. Area 15.2 sq. km , Total Drilling:600 m (Tentative), No. of BH: 20 nos. (Tentative) , Average borehole depth range: 30 m, Schedule
timeline- 10 months,
Review: After 3 and 6 Months

| S. No. | Item of Work * | Unit * | Rates as per NMEDT SoC 2025-26 | | Estimated Cost of the Proposal | | Remarks |
|----------|-----------------------------------------------------------------------------------------|--------------------------|--------------------------------|--------------------|--------------------------------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| | | | SoC-Item No. * | Rates as per SoC * | Qty. (b) | Total Amount (Rs) (a*b) | |
| A | Geological Mapping with contouring, Other Geological Work & Surveying | | | | | | Drilling plan to be finalised after review of 1st phase of work. Mapping and surface sampling to be completed in 1st phase |
| i | Geological mapping and contouring, (1:4000 scale) | Sq. km. | 1.1 | 18,300 | 15.2 | 278,160 | |
| ii | Charges for Geologist per day for Field | day | 1.2.1a b | 14,500 | 100 | 1,450,000 | For mapping, drilling, sampling and core logging |
| iii | b. Labours Charges | day | 5.8 | 556 | 200 | 111,200 | |
| iv | c. Charges for Geologist per day (HQ) | day | 1.2.1a a | 10,500 | 30 | 315,000 | |
| v | e. Charges for one Sampler per day | one sampler per day | 1.2.1b | 7,850 | 35 | 274,750 | |
| vi | b. Labours Charges (for samplers) | day | 5.8 | 556 | 140 | 77,840 | |
| | Sub Total-A | | | | | 2,506,950 | |
| B | Survey work | | | | | | |
| i | Charges for one surveyor per day (topographic survey 1:4000 Scale) | day | 1.3.1 | 10,500 | 45 | 472,500 | |
| ii | Labour (4 Nos.) | day | 5.8 | 556 | 180 | 100,080 | |
| iii | Demarcation of lease boundary, Fixation of Borehole and determination of co-ordinates & | Per Point of observation | 1.3.2 | 24,000 | 28 | 672,000 | 20 BH + 8 Cardinal points |

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| | | | | | | | |
|----------|----------------------------------------------------------------------------|--------------|-----------------|--------------------|------------|------------------|-----------------------------------------------------|
| | Reduced Level (RL) of the boreholes by DGPS | | | | | | |
| | Sub Total-B | | | | | 1,244,580 | |
| C | Trenching/Pitting | | | | | | |
| | Excavation of Pitting, Nos of Pits - 15*(2x2x3m = 180 Cu.m) | per cu.m | 2.1.2 | 4,725 | 180 | 850500 | |
| | | | | Sub-Total C | | 850500 | |
| D | DRILLING (Outsource) | | | | | | |
| 1 | Drilling (Soft Rock) | Per m | 2.2.1.1c | 5,500 | 600 | 3,300,000 | |
| 2 | Construction of concrete Pillars (12" *12" *30") | Per Borehole | 2.2.7 | 2,000 | 20 | 40,000 | |
| 3 | Borehole plugging by cement. | Per Borehole | 2.2.8 | 10,000 | 20 | 200,000 | |
| 4 | Land/Crop compensation | Per Borehole | 5.6 | 30,000 | 20 | 600,000 | As per actuals with maximum ceiling of 30000 per BH |
| 5 | Drill Core preservation | Per m | 5.3 | 1,590 | 225 | 357,750 | 1 complete BH + mineralised zone |
| | Sub Total-D | | | | | 4,497,750 | |
| E | Laboratory Studies | | | | | | |
| 1 | Chemical Analysis | | | | | | |
| i | Analysis of Major Oxides by WD-XRF | Nos. | 4.1.17a | 4,200 | 255 | 1,071,000 | 30 PTS + 25 BRS+ 200 Core Samples |
| | External Check samples for Major Oxides by WD- XRF (10%) | Nos. | 4.1.17a | 4,200 | 26 | 109,200 | |
| 2 | Physical, Petrological & Mineralogical studies | | | | | | |
| i | Preparation of thin section | Nos. | 4.3.1 | 500 | 10 | 5,000 | |
| ii | Complete Petrographic report of rock sample along with digital photographs | Nos. | 4.3.4 | 2800 | 10 | 28,000 | |
| | Bulk Density | | 4.8.3 | 2500 | 5 | 12,500 | |
| | Sub Total-E | | | | | 1,225,700 | |
| | Total Outsourced Components | | | | | 3,300,000 | |
| E | Tendering Cost | 5.9 | | | | 66,000 | |
| F | Technical Supervion Cost for outsourced Components | 6 | | | | 330,000 | |

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| G | TOTAL | | | | | 10,721,480 | |
| H | Preparation of Exploration Proposal | | 5.1 | 2% of approved project cost or 5 lakh whichever is lower | | 214,430 | |
| I | Geological Report Preparation | 5 Hard copies with a soft copy | 5.2 (ii) | Total cost exceeding 50 lakh but less than 150 lakh | | 250,000 | |
| J | Peer review | Per review | -- | | -- | 30,000 | As per EC decision |
| K | Total Estimated Cost without GST | | | | | 11,215,910 | |
| L | Provision for GST (18% of K) | | | | | 2,018,864 | |
| M | Total Estimated Cost with GST | | | | | 13,234,773 | |
| | or Say Rs. In Lakhs | | | | | 132.35 | |
| 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 excusion of the project by NEA on its own, a Certifiante 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 Patharia Block, Districts: Sagar and Damoh, Madhya Pradesh

| S. No. | Activities | Months | | | | | | | | | | | | | |
|--------|---------------------------------|--------|---|---|--------|--------|---|---|--------|---|--------|---|----|---|--|
| | | 1 | 2 | 3 | Review | 4 | 5 | 6 | Review | 7 | 8 | 9 | 10 | | |
| 1 | Camp Setting | ■ | | | | Review | | | | | Review | | | | |
| 2 | Geological Mapping & Sampling | ■ | ■ | ■ | ■ | | ■ | | | | | | | | |
| 3 | Pitting/Trenching | ■ | ■ | ■ | ■ | | ■ | | | | | | | | |
| 4 | Surface Drilling (1 rigs) | ■ | ■ | ■ | ■ | | ■ | | | | | | | | |
| 5 | Survey Party days | ■ | ■ | ■ | ■ | | ■ | | | | | | | | |
| 6 | Geologist Man days | ■ | ■ | ■ | ■ | | ■ | | | | | | | ■ | |
| 7 | Sampler Man days | ■ | ■ | ■ | ■ | | ■ | | | | | | | | |
| 8 | Camp Winding | | | | | | | | | | ■ | ■ | | | |
| 9 | Laboratory Studies | | | ■ | | ■ | ■ | ■ | | ■ | ■ | ■ | | | |
| 10 | Report Writing with Peer Review | | | | | | | | | | | ■ | ■ | | |

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Agenda 96.1.3. Reconnaissance Survey (G4) for REE & RM mineralization in Paladugu Block, Khammam District, Telangana.

[Implementing Agency: M/s. GMMCO Technology Services Ltd.]

- a. The proposed block falls within SOI Toposheet No. 65C/08 and forms part of the eastern segment of the Indian Peninsular Shield, located within the transitional tectonic zone between the Eastern Dharwar Craton (EDC) and the Eastern Ghats Mobile Belt (EGMB).
- b. The block area predominantly exposes granitoids, granitic gneiss and migmatitic gneiss of the Peninsular Gneissic Complex-II (PGC-II), representing the Archaean to Neoproterozoic basement of the Eastern Dharwar Craton.
- c. Younger granites occurring in the area are spatially associated with prominent shear zones and fractures and are traversed by pegmatite and quartz veins, while pegmatites occur as tabular to lenticular intrusive bodies within granitic gneiss and younger granites.
- d. Specialized thematic mapping on 1:25,000 scale was carried out over ~700 sq. km. around Kalakodima–Siripuram–Gobbagurti–Tallada area (parts of Toposheet Nos. 65C/07 & 65C/08), wherein pegmatites intruding granitic host rocks recorded TREE values ranging from 602.68 ppm to 2644.46 ppm with an average of 1531.70 ppm (n=8).
- e. The REE assemblage in the area is characterized by dominant LREE enrichment, with allanite identified as the principal REE-bearing mineral phase within the pegmatites.
- f. National Geochemical Mapping (NGCM) carried out in parts of Toposheet No. 65C/08 during FS 2017–18 reported anomalous TREE values ranging from 500–1000 ppm over granites and gneisses of the PGC, indicating significant REE potential in the area.
- g. The proposed block was earlier presented during the 91st TCC-1 meeting, wherein the committee advised the agency to undertake field investigations in and around Paladugu, Rebbavaram and Mallavaram areas within the proposed block.
- h. The agency subsequently collected 04 bedrock samples from potassic-rich granite and allanite-bearing pegmatites, which analysed significant TREE concentrations ranging from 2128 ppm to 4082 ppm, further substantiating the REE potential of the area.
- i. The committee reviewed the proposal and opined that TREE concentration, as presented by agency, is significant and the area may be taken up for reconnaissance survey to ascertain mineral potential.
- j. The committee recommended proposal with LSM on 12500 scale, pitting, trenching and 200 m of Scout drilling.

| Sl. No. | Agency | Brief Comments |
|---------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | GSI | The area proposed by M/s. GMMCO TECHNOLOGY SERVICES LTD (GTS) is overlapping with the ongoing RMT project of SU: Telangana. The RMT project is nearing completion and based on the encouraging values for REE, base metal and associated mineralization, few areas will be carved out for G4/ G3 stage exploration and will be taken up by GSI, SU: Telangana in the ensuing field seasons. |
| 2 | MECL | The proposed block has no overlapping with the ongoing or completed blocks of MECL. |
| 3 | AMD | AMD has not carried out any exploration / reconnaissance project in the proposed block. There is no ongoing exploration / reconnaissance project. |
| 4 | State DMG/DGM/CGM | There are no previous exploration /ongoing/ completed work carried out by DGM. |

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| | | |
|---|-------|----------------------------------------------------------------------|
| 5 | NMEDT | There are no NMEDT funded blocks overlapping with the proposed area. |
|---|-------|----------------------------------------------------------------------|

Recommendations of TCC-1:

The committee recommended the proposal titled "Reconnaissance Survey (G4) for REE & RM mineralization in Paladugu Area, Khammam District, Telangana" for approval of PSC, NMEDT with an estimated cost of Rs. 112.76 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 4 and 8 months.

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Reconnaissance Survey (G4) for REE & RM mineralization in Paladugu Area, Khammam District, Telangana
Area: 100 sq. km, No. of BH:05, Total Drilling Meterage: 200m, Borehole depth -40 m; Schedule timeline: 10 months; Review after: 4 and 8 months

| S. No. | Item of Work * | Unit * | Rates as per NMET SoC 2025 | | Estimated Cost of the Proposal | Total Amount (Rs) (a*b) | Remarks |
|----------|-------------------------------------------------------------------------------------------------|--------------------------|----------------------------|------------------------|--------------------------------|-------------------------|----------------------------------------------------|
| | | | SoC-Item No. * | Rates as per SoC * (a) | Qty (b) | | |
| A | Geological Mapping Other Geological Work & Surveying | | | | | | |
| | a. Geological mapping, (1:12,500 scale) & Trenching , drilling work | Sq.km | 1.1 | 18,300 | 100 | 1,830,000 | |
| | b. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work | day | 1.2.1a | 14,500 | 60 | 870,000 | For drilling, core logging, trenching and sampling |
| | Labour 2 nos | day | 5.8 | 556 | 120 | 66,720 | |
| | d. Charges for Geologist per day (HQ) | day | 1.2.1a | 10,500 | 30 | 315,000 | |
| | c. Charges for one Sampler per day (1 Party) | one sampler per day | 1.2.1b | 7,850 | 34 | 266,900 | |
| | e. Labours Charges; Bedrock, Core sampling and preparation of sample | day | 1.5.2 | 556 | 136 | 75,616 | |
| | Sub Total- A | | | | | 3,424,236 | |
| B | Survey work | | | | | | |
| | a. Charges of Surveyor for boundary demarcation | one surveyor per day | 1.3.1 | 10,500 | 0 | 0 | |
| | b. DGPS Survey for BH fixation & RL determination | Per Point of observation | 1.3.2 | 24,000 | 5 | 120,000 | BH points |
| | c. Labours Charges for survey work | day | 1.5.2 | 541 | 0 | 0 | |
| | Sub-Total B | | | | | 120,000 | |
| C | Trenching/Pitting | | | | | | |
| | a)Trenching | per cu.m | 2.1.2 | 4,125 | 50 | 206,250 | |
| | b) Excavation of Pitting | per cu.m | 2.1.1 | 4,725 | 50 | 236,250 | |
| | Sub-Total C | | | | | 442,500 | |
| D | Drilling (after review) (In house) | | | | | | |

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| | | | | | | | |
|----------|----------------------------------------------------------------------------------------------------------------|--------------|--------------------|---------------------------|-----|------------------|--------------------------------------------|
| | a. Core drilling :5 points (each 40 m deep | m | 2.2.1.1d | 10,000 | 200 | 2,000,000 | |
| | b. Construction of concrete Pillar (12"x12"x30") | per borehole | 2.2.7 | 2,000 | 5 | 10,000 | |
| | c. Borehole Plugging by cement | per borehole | 2.2.8 | 10,000 | 5 | 50,000 | |
| | d. Miscellaneous Charges (Transportation, Accomidation, Camp Setting, Camp Winding and drill core preservation | Lump sum | 2.2.9 (1) | 25% of the Drilling cost | | 500,000 | |
| | Drill Core Preservation | m | 5.3 | 1590 | 125 | 198,750 | 1 complete BH + Remaining mineralised zone |
| | Sub Total D | | | | | 2,758,750 | |
| E | Laboratory Studies | | | | | | |
| 1 | Chemical Analysis | | | | | | |
| | a. Bedrock samples (Channel Samples) (ICPMS) (sequential technique) | Per Sample | 4.1.15 | 7,400 | 100 | 740,000 | |
| | b. Drill Core samples (ICPMS) (sequential technique) | Per Sample | 4.1.15 | 7,400 | 100 | 740,000 | |
| | c. Pit & Trench samples (ICPMS) (sequential technique) | Per Sample | 4.1.15 | 7,400 | 75 | 555,000 | |
| | d. External Check (10%) (ICPMS) (sequential technique) | Per Sample | 4.1.15 | 7,400 | 28 | 207,200 | |
| | | | | | | 2,242,200 | |
| 2 | <u>Physical & Petrological Studies</u> | | | | | | |
| | a. Preparation of thin polished section | Per sample | 4.3.1 | 800 | 15 | 12,000 | |
| | b. Study of thin polished section | Per sample | 4.3.4 | 2,800 | 15 | 42,000 | |
| | f. EPMA Studies | Per day | 4.4.1 | 10,500 | 5 | 52,500 | |
| | | | | | | 106,500 | |
| | Sub Total E (1+2) | | | | | 2,348,700 | |
| F | Total A to E | | | | | 9,094,186 | |
| G | Geological Report Preparation | Soft copy | 5.2 (ii) | 5.2 | | 250,000 | |
| H | Peer review Charges | | As per EC decision | | | 30,000 | |
| I | Preparation of Exploration Proposal (soft copy) | Soft copy | 5.1 | 2% of the Cost or Rs. 5.0 | | 181,884 | |

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| | | | | Lakhs whichever is less | | |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-------------------------------|-------------------|--|
| K | Total Estimated Cost without GST | | | | 9,556,070 | |
| L | Provision for GST (18% of K) | | | | 1,720,093 | |
| M | Total Estimated Cost with GST | | | | 11,276,162 | |
| | or Say Rs. In Lakhs | | | | 112.76 | |
| 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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27.05.2026

Annexure 3B

Time Schedule / Action Plan for Reconnaissance Survey (G4) for REE & RM mineralization in Paladugu Area, Khammam District, Telangana

| S. No | Activity | Unit | Months | | | | | | | | | | | | |
|-------|--------------------------------------------|--------|--------|---|---|---|----------|----------|---|---|---|----------|---|----------|---|
| | | | 1 | 2 | 3 | 4 | Review-1 | 5 | 6 | 7 | 8 | Review-2 | 9 | 10 | |
| 1 | Camp Establishment | Months | █ | | | | | Review-1 | | | | | | Review-2 | |
| 2 | Geological mapping | Months | █ | █ | █ | | | | | | | | | | |
| 3 | Sampling (BRS, Pitting/Trenching) | Months | | █ | █ | █ | | | | | | | | | |
| 4 | Sampling analysis (BRS, Pitting/Trenching) | Months | | █ | █ | █ | | | █ | | | | | | |
| 5 | Survey (Boundary points and Drill collars) | Months | | | | █ | | | | | | | | | |
| 6 | Scout Drilling | Months | | | | | | | █ | █ | | | | | |
| 7 | Core logging & sampling | Months | | | | | | | █ | | | | | | |
| 8 | Sampling analysis (Drill core samples) | Months | | | | | | | | █ | █ | | | | |
| 9 | Laboratory analysis (Petrography & SEM) | Months | | | | | | | | | █ | █ | | | |
| 10 | Camp winding | Months | | | | | | | | | | | █ | | |
| 11 | Report preparation and submission | Months | | | | | | | | | | | █ | | █ |

S. No 27.05.26.

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27/05/2026*

Agenda 96.1.4. Reconnaissance Survey (G4) for REE & RM mineralization in Seetharampuram Block, Bhadradri Kothagudem District of Telangana (84 Sq. Km).

[Implementing Agency: M/s. GMMCO Technology Services Ltd.]

- a. The proposed block falls within Survey of India Toposheet No. 65C/13 and comprises Neoarchaean–Palaeoproterozoic rocks of the Peninsular Gneissic Complex-II (PGC-II) and Palaeoproterozoic rocks of the Bastar Craton.
- b. The area occupies a strategic position along the tectonic contact between the Bastar Craton and the Archaean Peninsular Gneissic Complex of the Eastern Dharwar Craton, marked by a prominent NE–SW trending regional shear zone, favourable for emplacement of younger granites and pegmatites and localisation of REE/RM mineralisation.
- c. Geological Survey of India carried out Specialized Thematic Mapping (1:25000 scale) over 350 sq. km, which reported significant TREE enrichment in feldspathic and younger granites with values of 3452 ppm and 3387 ppm, respectively, and recommended detailed exploration.
- d. Earlier G4 stage investigations for iron ore, copper and gold in adjoining blocks recorded encouraging values, including Cu up to 10.10%, Zn up to 800 ppm, and Au values of 1.8 ppm and 1.3 ppm from quartz veins.
- e. The project was approved in principally in 94th TCC-I meeting. The agency complied with the suggestion given by committee in 94th TCC and removed the area overlapping with GSI previous work.
- f. The agency informed that field visits were carried out in Reguballi, Narsapuram and Seetharampuram areas, where samples from porphyritic granite, calc-silicate rocks and allanite-bearing pegmatites yielded TREE values of 241 to 4081.8 ppm (n=4).
- g. The committee reviewed the proposal and recommended it for approval.
- h. The committee advised the agency to scan the area with a UV lamp for scheelite mineralisation in the calc-silicate rocks

| Sl. No. | Agency | Brief Comments |
|---------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | GSI | The area proposed by M/s. GMMCO Technology Services Ltd (GTS) is overlapping with the ongoing RMT project of SU: Telangana. The RMT project is nearing completion and based on the encouraging values for REE and associated mineralization, few areas will be carved out for G4/G3 stage exploration and will be taken up by GSI, SU: Telangana in the ensuing field seasons. |
| 2 | MECL | The proposed block has no overlapping with the ongoing or completed blocks of MECL. |
| 3 | AMD | AMD has not carried out any exploration / reconnaissance project in the proposed block. There is no ongoing exploration / reconnaissance project. |
| 4 | State DMG/DGM/CGM | There are no previous exploration /ongoing/ completed work carried out by DGM. |
| 5 | NMEDT | The proposed block overlaps with item "CHQ-49185-2022-Rare Earth Elements, Beryllium, Germanium, Rubidium, Molybdenum, Tin, Tantalum, Tungsten, Thorium, Uranium" Exploration block. The proposed block falls under the GSI mission 2022-23 & 2025-26. No NMEDT funded ongoing and completed projects overlap with the proposed block. |

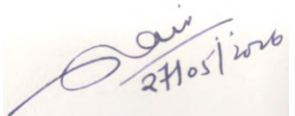
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Recommendations of TCC-1:

The committee recommended the proposal titled "Reconnaissance Survey for REE & RM mineralization in Seethampuram area, Badradi Kothagudem District, Telangana" for approval of PSC, NMEDT with an estimated cost of Rs. 105.32 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 4 and 8 months.

S. No 27.05.26.


27/05/2026

**Reconnaissance Survey for REE & RM mineralization in Seetharampuram area, Badradi Kothagudem District, Telangana
84 sq. km, No. of BH:05 , Total Drilling: 200 m; Borehole depth 40m each; Schedule timeline: 10 months; Review after 4 and 8 months**

| S. No. | Item of Work * | Unit * | Rates as per NMET SoC 2025 | | Estimated Cost of the Proposal | | |
|----------|----------------------------------------------------------------------------------------------|--------------------------|----------------------------|--------------------|--------------------------------|-------------------|-------------------------------------------------------|
| | | | SoC-Item No. * | Rates as per SoC * | Qty. | Total Amount (Rs) | Remarks |
| | | | | (a) | | | |
| A | LSM (1:12,500) Other Geological Work & Surveying | | | | | | |
| a | Geological mapping, (1:12,500 scale) & Trenching , drilling work | Sq.km | 1.1 | 18,300 | 84 | 1537200 | |
| b | Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work | day | 1.2.1a | 14,500 | 60 | 870,000 | For drilling, pitting/trenching, logging and sampling |
| | Labour | | 5.8 | 556 | 120 | 66,720 | |
| 30 | Charges for Geologist per day (HQ) | day | 1.2.1a | 10,500 | 30 | 315,000 | |
| c | Charges for one Sampler per day (1 Party) | one sampler per day | 1.2.1b | 7,850 | 34 | 266,900 | |
| e | Labours Charges; for sampler | day | 1.5.2 | 556 | 136 | 75,616 | |
| | Sub Total- A | | | | | 3131436 | |
| B | Survey work | | | | | | |
| a | Charges of Surveyor (1 party) for Block boundary demarcation | one surveyor per day | 1.3.1 | 10,500 | 0 | 0 | |
| b | DGPS Survey for BH fixation & RL determination | Per Point of observation | 1.3.2 | 24000 | 5 | 120,000 | |
| c | Labours Charges for survey work; | day | 1.5.2 | 605 | 0 | 0 | |
| | Sub-Total B | | | | | 120,000 | |
| C | Trenching/Pitting | | | | | | |
| | Trenching | per cu.m | 2.1.1 | 4,125 | 50 | 206250 | |
| | a) Excavation of Pitting | | 2.1.1 | 4725 | 25 | 118125 | |
| | Sub-Total C | | | | | 324375 | |
| D | DRILLING (after review) (In House) | | | | | | |

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| | | | | | | | |
|--------------------------|---------------------------------------------------------------------------------------------------------------|--------------|--------------------|--------------------------|-----|------------------|----------------------------------|
| a | Core drilling: 5 points (each 40 m deep) 5*40 in granite hard rock terrain | m | 2.2.1.1d | 10,000 | 200 | 2,000,000 | |
| b | Construction of concrete Pillar (12"x12"x30") | per borehole | 2.2.7 | 2,000 | 5 | 10,000 | |
| c | Borehole Plugging by cement | per borehole | 2.2.8 | 10,000 | 5 | 50,000 | |
| d | Miscellaneous Charges (Transportation, Accommodation, Camp Setting , Camp Winding and drill core preservation | Lump sum | 2.2.9 | 25% of the Drilling cost | | 500,000 | |
| e | Drill core preservation | | 5.3 | 1590 | 125 | 198,750 | 1 complete BH + Mineralised zone |
| Sub Total D | | | | | | 2,758,750 | |
| E | LABORATORY STUDIES | | | | | | |
| 1 | Chemical Analysis | | | | | | |
| a | BRS (Channel samples) (ICPMS sequential Technique) | Per Sample | 4.1.15 | 7,400 | 100 | 740,000 | |
| c | Drill Core samples | Per Sample | 4.1.15 | 7,400 | 100 | 740,000 | |
| d | Trench/Pit samples | Per Sample | 4.1.15 | 7,400 | 50 | 370,000 | |
| f | Check samples (10%) | Per Sample | 4.1.15 | 7,400 | 25 | 185,000 | |
| | | | | | | 2,035,000 | |
| 2 | <u>Physical & Petrological Studies</u> | | | | | | |
| a | Preparation of thin polished section | Per sample | 4.3.2 | 800 | 15 | 12,000 | |
| b | Study of thin section | Per sample | 4.3.4 | 2,800 | 15 | 42,000 | |
| d | EPMA | Per day | 4.4.1 | 10,500 | 5 | 52,500 | |
| | | | | | | 106,500 | |
| Sub Total E (1+2) | | | | | | 2,141,500 | |
| F | Total A to E | | | | | | |
| | | | | | | 8,476,061 | |
| G | Geological Report Preparation | soft copy | 5.2 | 5.2 | | 250,000 | |
| H | Peer review Charges | | As per EC decision | | | 30,000 | |

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| | | | | | | |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----|---------------------------------------------------|-------------------|--|
| I | Preparation of Exploration Proposal | soft copy | 5.1 | 2% of the Cost or Rs. 5.0 Lakhs whichever is less | 169,521 | |
| | | | | | | |
| K | Total Estimated Cost without GST | | | | 8,925,582 | |
| L | Provision for GST (18% of K) | | | | 1606604.8 | |
| M | Total Estimated Cost with GST | | | | 10,532,187 | |
| | or Say Rs. In Lakhs | | | | 105.32 | |
| Note: | | | | | | |
| 1 | Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21. | | | | | |
| 2 | In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement. | | | | | |
| 3 | If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required. | | | | | |
| 4 | Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities. | | | | | |
| 5 | Any item of work not mentioned above shall be added as per SoC. | | | | | |
| 6 | All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency | | | | | |

S. No 27.05.26.

S. No
27/05/2026

Time Schedule / Action Plan for Reconnaissance Survey for REE & RM mineralization in Seetharampuram area , Badradi Kothagudem District, Telangana

| S. No | Activity | Unit | Months | | | | | | | | | | | | |
|-------|--------------------------------------------|--------|--------|---|---|---|----------|----------|---|---|---|----------|---|----------|---|
| | | | 1 | 2 | 3 | 4 | Review-1 | 5 | 6 | 7 | 8 | Review-2 | 9 | 10 | |
| 1 | Camp Establishment | Months | ■ | | | | | Review-1 | | | | | | Review-2 | |
| 2 | Geological mapping | Months | ■ | ■ | ■ | | | | | | | | | | |
| 3 | Sampling (BRS, Pitting/Trenching) | Months | | ■ | ■ | ■ | | | | | | | | | |
| 4 | Sampling analysis (BRS, Pitting/Trenching) | Months | | ■ | ■ | ■ | | | | | | | | | |
| 5 | Survey (Boundary points and Drill collars) | Months | | | | ■ | | | ■ | | | | | | |
| 6 | Scout Drilling | Months | | | | | | | ■ | ■ | | | | | |
| 7 | Core logging & sampling | Months | | | | | | | ■ | ■ | | | | | |
| 8 | Sampling analysis (Drill core samples) | Months | | | | | | | | | ■ | ■ | | | |
| 9 | Laboratory analysis (Petrography & SEM) | Months | | | | | | | | | ■ | ■ | | | |
| 10 | Camp winding | Months | | | | | | | | | | | ■ | | |
| 11 | Report preparation and submission | Months | | | | | | | | | | | ■ | | ■ |

S. No 27.05.26.

S. No
27/05/2026

**Agenda 96.1.5. Preliminary Exploration (G3) of Bauxite in Dakor Block (3.21 Sq. Km.),
District: Kheda, Gujarat.
(Proposal ID: ME/DD/G3/GJ/25-26/023)
[Implementing Agency: M/s. GEMS Project Pvt. Ltd.]**

- a. The proposed block falls within SOI Toposheet No. 46F/1 and comprises Deccan Trap basalt, laterite and bauxite, where bauxite occurs as pocket-type deposits associated with ferruginous/aluminous laterite.
- b. Concretionary limestone directly overlies the trap sequence with thickness varying from a few centimetres to a few metres, while greenish-grey and yellowish shale horizons of probable Miocene age occur beneath alluvial cover.
- c. Two varieties of laterite are identified in the area, namely ferruginous laterite enriched in iron and nodular/bouldery laterite which is comparatively rich in alumina and associated with bauxite mineralization.
- d. Geological Survey of India carried out investigation for bauxite and associated minerals during FS 1969–70 through geological mapping (1:63,360 scale), aerial photo interpretation, dug well section studies and test drilling.
- e. The investigation identified promising bauxite occurrences at Ratnagar Hill and Amratpura–Kajipura areas along with sub-bentonite clay (shale) occurrences near Mirapura and Mohamadpura, the latter having been auctioned for mining lease.
- f. DGM Gujarat carried out investigation for bauxite in Thasra taluka, Kheda district during FS 1970–71 and demarcated 11 bauxite pockets covering 997,560 sq. m., divided into 24 sub-blocks, with estimated reserves of 0.860 million tonnes including 0.413 million tonnes of metallurgical grade bauxite containing up to 5% SiO₂ and 55% Al₂O₃.
- g. CGM Gujarat also carried out exploration for bauxite and laterite about 5–6 km northwest of the proposed block, where pit samples analysed encouraging grades with Al₂O₃ ranging from 43.42% to 51.41%, SiO₂ from 4.04% to 5.04%, Fe₂O₃ from 8.90% to 20.16% and TiO₂ from 6.15% to 7.68%.
- h. CGM Gujarat has identified several non-overlapping blocks for exploration of bauxite and limestone based on previous investigations and published the block details in “Gujarat’s Mineral Wealth”.
- i. In view of the encouraging results from earlier investigations, the agency proposed G3-stage exploration in the block for assessment of bauxite and associated mineral resources through detailed geological mapping (1:4000 scale), surface sampling, pitting/trenching and exploratory drilling under UNFC G3 category.
- j. The committee reviewed the proposal and observed that the bauxite occurrence within the block is narrow with limited surface outcrops. It was also noted that habitation and canal areas in the eastern part of the block need to be excluded from the proposed area.
- k. Accordingly, the agency modified the block boundary and reduced the proposed exploration area to 2.10 sq. km.
- l. The committee recommended detailed mapping followed by excavation of 10 pits up to 3.0 m depth in grid pattern/as per outcrop density and 250 m exploratory drilling comprising 10 boreholes of 25 m depth each. Since the block was allocated by CGM Gujarat, the revised area and boundary modifications are to be communicated by NMEDT Secretariat to CGM Gujarat for consent and record.

| Sl. No. | Agency | Brief Comments |
|---------|--------|-------------------------------------------------------------------------------------|
| 1 | GSI | The proposed block has no overlapping with the ongoing or completed blocks of GSI. |
| 2 | MECL | The proposed block has no overlapping with the ongoing or completed blocks of MECL. |
| 3 | AMD | NA |

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| | | |
|---|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4 | State DMG/DGM/CGM | The block was allotted by CGM, Gujarat to M/s. GEMS Project Pvt. Ltd. during a one-day workshop titled "Gujarat's Mineral Wealth- A responsible Exploration and Development Paradigm" on 17.08.2024 for G3 stage exploration with an area of 3.21 sq.km. |
| 5 | NMEDT | There are no NMEDT funded blocks overlapping with the proposed area. |

Recommendations of TCC-1:

The committee recommended the proposal titled "Preliminary Exploration (G3) of Bauxite in Dakor Block (2.10 Sq. Km.), District: Kheda, Gujarat" for approval of PSC, NMEDT with an estimated cost of Rs. 72.94 lakhs (including GST) within time schedule of 08 months for carrying out the proposed work and submission of report as per Annexure – 5A & 5B. The item will be reviewed after 3 and 6 months.

S. No 27.08.26.

Saini
27/08/2026

Preliminary Exploration (G3) of Bauxite in Dakor Block (2.10 Sq. Km.), District: Kheda, Gujarat
2.10 Sq. Km, No.Of Bh: 10 , Bh Depth 25 M, Total Drilling: 250 M (Drilling After Review Of Mapping, Trenching And Pitting)
Schedule Timeline- 08 Months Review After: 3 And 6 Months

| S. No. | Item of Work * | Unit * | Rates as per NMET SoC 2025-26 | | Estimated Cost of the Proposal | | Remarks |
|----------|-------------------------------------------------------------------------------------------------|--------------------------|-------------------------------|------------------------|--------------------------------|-------------------------|-----------------------------------------|
| | | | SoC-Item No. * | Rates as per SoC * (a) | Qty. (b) | Total Amount (Rs) (a*b) | |
| A | Geological Mapping (1:4000 scale with contouring) Other Geological Work & Surveying | | | | | | |
| | Geological mapping, (1:4,000 scale with contouring) | Per Sq Km | 1.1 | 18,300 | 2.10 | 38,430 | |
| | a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work | day | 1.2.1a | 14,500 | 70 | 1,015,000 | |
| | b. Labours Charges; Base rate | day | 5.8 | 556 | 140 | 77,840 | |
| | c. Charges for Geologist per day (HQ) | day | 1.2.1a | 10,500 | 30 | 315,000 | |
| | d. Charges for one Sampler per day (1 Party) | one sampler per day | 1.2.1b | 7,850 | 25 | 196,250 | |
| | Labour for samplers | day | 5.8 | 556 | 100 | 55,600 | |
| | Sub Total- A | | | | | 1,698,120 | |
| B | Survey work | | | | | | |
| a | DGPS Survey for BH fixation & RL determination | Per Point of observation | 1.3.2 | 24,000 | 14 | 336000 | 4 Block Boundaries + 10 BH point |
| b | Charges of Surveyor (1 party) | one surveyor per day | 1.3.1 | 10,500 | 20 | 210000 | |
| c | Labours Charges for survey work; | day | 5.8 | 556 | 80 | 44480 | |

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|----------|-----------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------------------|-----|----------------|----------------------------------------------------|
| | Sub-Total B | | | | | 590,480 | |
| C | Trenching/Pitting | | | | | | |
| | b) Excavation of Pits | per cu.m | 2.1.2 | 4,725 | 120 | 567000 | 10 PitsX12 Cum each [2x2x3] |
| | Sub-Total C | | | | | 567000 | |
| | Drilling in 2nd Phase | | | | | | |
| | D. Drilling (after review) (In house) | | | | | | |
| | a. Core drilling (Soft rock) | m | 2.2.1.1c | 5,500 | 250 | 1375000 | |
| | b. Construction of concrete Pillar (12"x12"x30") | per borehole | 2.2.7 | 2,000 | 10 | 20000 | |
| | c. Borehole Plugging by cement | per borehole | 2.2.8 | 10,000 | 10 | 100000 | |
| | d. Miscellaneous Charges (Transportation, Accomodation, Camp Setting, Camp Winding and drill core preservation) | Lump sum | 2.2.9 (1) | 25% of the Drilling cost | | 343750 | |
| | Drill Core Preservation | m | 5.3 | 1590 | 125 | 198750 | 1 complete BH + mineralised zone |
| | Sub-Total D | | | | | 2037500 | |
| E | LABORATORY STUDIES | | | | | | |
| 1 | Chemical Analysis | | | | | | |
| iii) | Pit, BRS and Core Sample | | | | | | |
| | Major oxides (WD-XRF)- (Oxides + Traces 24 elements) | Nos | 4.1.17a | 4,200 | 170 | 714,000 | Pit: 50 samples; BRS: 20; Core samples: 100 |
| iv) | Pit, BRS and Core Check samples (10% External) | | | | | | |
| | Major oxides (WD-XRF)- (Oxides + Traces 24 elements) | Nos | 4.1.17a | 4,200 | 17 | 71,400 | |
| | ICPMS (sequential technique) | Nos | 4.1.15 | 7,400 | 10 | 74,000 | |
| 2 | Physical & Petrological Studies | | | | | | |
| i | Preparation of thin polished section | Nos | 4.3.2 | 800 | 5 | 4,000 | |

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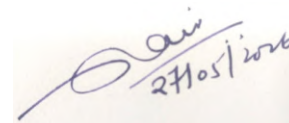
| | | | | | | | |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------|---------------------------------------------------|---|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ii | Study of thin polished section along with 5 micrographs | Nos | 4.3.4 | 2,800 | 5 | 14,000 | |
| viii | Bulk Density | Nos | 4.8.3 | 2,500 | 2 | 5,000 | |
| x | Reactive Silica | Nos | 4.1.19d | 5,000 | 2 | 10000 | |
| | Sub Total E | | | | | 892,400 | |
| F | Total A to E | | | | | 5,785,500 | |
| I | Geological Report Preparation | soft copy | 5.2 | 5.2 (ii) | | 250,000 | Reimbursement will be made after submission of the final Geological Report in soft copy to NMET. |
| J | Peer review Charges | | As per EC decision | | | 30,000 | |
| K | Preparation of Exploration Proposal (5 Hard copies with a soft copy) | Soft copy | 5.1 | 2% of the Cost or Rs. 5.0 Lakhs whichever is less | | 115,710 | EA will be reimbursed after submission of the soft copy of the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal. |
| L | Total Estimated Cost without GST | | | | | 6,181,210 | |
| M | Provision for GST (18% of J) | | | | | 1,112,617.80 | GST will be reimburse as per actual and as per notified prescribed rate |
| N | Total Estimated Cost with GST | | | | | 7,293,828 | |
| | | | | or Say Rs. In Lakhs | | 72.94 | |
| 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. | | | | | | |

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| 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 5B

Time Schedule/ Action Plan for Preliminary Exploration (G3) of Bauxite in Dakor Block (2.10 Sq. Km.), District: Kheda, Gujarat

| Sl. No. | Item of work | Months | | | | | | | | | | |
|---------|---------------------------------------|--------|---|---|--------|--------|---|---|--------|---|--------|--|
| | | 1 | 2 | 3 | REVIEW | 4 | 5 | 6 | REVIEW | 7 | 8 | |
| 1 | Camp Setting/Mobilization | | | | | REVIEW | | | | | REVIEW | |
| 2 | Geologist Days (Field) | | | | | | | | | | | |
| 3 | Pitting/Trenching | | | | | | | | | | | |
| 4 | Survey Days (01 party) | | | | | | | | | | | |
| 5 | Drilling | | | | | | | | | | | |
| 6 | Sampling Days | | | | | | | | | | | |
| 7 | Laboratory Studies | | | | | | | | | | | |
| 8 | Camp winding | | | | | | | | | | | |
| 9 | Geologist Days, HQ | | | | | | | | | | | |
| 10 | Preparation of Geological report | | | | | | | | | | | |
| 11 | Peer review & Report Final Submission | | | | | | | | | | | |

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**Agenda 96.1.6. Preliminary Exploration (G3) of Bauxite in Lasundra Block (9.54 Sq. Km.), District: Kheda, Gujarat.
(Proposal ID: ME/DD/G3/GJ/25-26/020)**

[Implementing Agency: GEMS Project Pvt. Ltd.]

- a. The proposed block falls within SOI Toposheet No. 46F/1 and comprises Deccan Trap basalt, laterite and bauxite, where bauxite occurs as pocket-type deposits associated with ferruginous/aluminous laterite.
- b. Concretionary limestone directly overlies the trap sequence and varies from a few centimetres to a few metres in thickness, while greenish-grey and yellowish shales of probable Miocene age occur below alluvial cover.
- c. Two varieties of laterite are identified in the area, namely ferruginous laterite enriched in iron and nodular/bouldery laterite comparatively enriched in alumina and associated with bauxite mineralization.
- d. DGM Gujarat carried out investigation for bauxite and associated minerals during FS 1969–70 through geological mapping, aerial photo interpretation, dug well section studies and test drilling.
- e. The investigation identified promising bauxite occurrences at Ratnagar Hill and Amratpura–Kajipura areas along with sub-bentonite clay (shale) occurrences near Mirapura and Mohamadpura, the latter having been auctioned for mining lease.
- f. DGM Gujarat carried out investigation for bauxite in Thasra taluka, Kheda district during FS 1970–71 and demarcated 11 bauxite pockets covering 997,560 sq. m. divided into 24 sub-blocks, with estimated reserves of 0.860 million tonnes including about 0.413 million tonnes of metallurgical grade bauxite.
- g. CGM Gujarat subsequently carried out exploration around Ladvel and Dujevare villages during FS 1998–99 involving pitting, sampling and petrographic studies, wherein chemical analysis indicated metallurgical grade bauxite with Al₂O₃ 52.03%, SiO₂ 3.48%, Fe₂O₃ 6.52% and TiO₂ 8.31%.
- h. CGM Gujarat has identified several non-overlapping blocks for exploration of bauxite and limestone based on previous investigations and published the block details in “Gujarat’s Mineral Wealth”.
- i. In view of the encouraging results from earlier investigations, the agency proposed G3-stage exploration for assessment of bauxite and associated mineral resources through detailed geological mapping (1:4000 scale), surface sampling, pitting/trenching and exploratory drilling under UNFC G3 category.
- j. The committee reviewed the proposal and observed that canals and major highways fall within the proposed block area.
- k. The committee deliberated that further discussion and inputs from CGM Gujarat are required to finalize the block boundary and area; accordingly, the proposal was kept on hold.

| Sl. No. | Agency | Brief Comments |
|---------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | GSI | The proposed block has no overlapping with the ongoing or completed blocks of GSI. |
| 2 | MECL | The proposed block has no overlapping with the ongoing or completed blocks of MECL. |
| 3 | AMD | NA |
| 4 | State DMG/DGM/CGM | The block was allotted by CGM, Gujarat to M/s. GEMS Project Pvt. Ltd. during a one-day workshop titled “Gujarat’s Mineral Wealth- A responsible Exploration and Development Paradigm” on 17.08.2024 for G3 stage exploration with an area of 9.54 sq.km. |

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| | | |
|---|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5 | NMEDT | There are no NMEDT funded blocks overlapping with the proposed area, however, area overlaps with the item "Report on the Preliminary mineral investigation in part of Kaira District, Gujarat state". |
|---|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Recommendations of TCC-1:

The committee deferred the proposal as canals and major highways fall within the proposed block area and decided that further discussion and inputs from CGM Gujarat are required to finalize the block boundary and area. The project will be discussed again in presence of CGM Gujarat in upcoming TCC-I meeting.

**Agenda 96.1.7. Reconnaissance Survey (G4) for Bauxite and Associated Minerals in Mirapur area (18.3 Sq. Km), District: Kheda, Gujarat.
(Proposal ID: ME/DD/G4/GJ/25-26/022)**

[Implementing Agency: M/s. GEMS Project Pvt. Ltd.]

- a. The proposed block falls within SOI Toposheet Nos. 46E/04 and 46F/01 and comprises Deccan Trap basalt, laterite and bauxite, where bauxite occurs as pocket-type deposits associated with ferruginous/aluminous laterite.
- b. Concretionary limestone directly overlies the trap sequence and varies from a few centimetres to a few metres in thickness.
- c. Greenish-grey and yellowish shales of probable Miocene age occur beneath the alluvial cover at varying depths.
- d. Two varieties of laterite are identified in the area, namely ferruginous laterite enriched in iron and nodular/bouldery laterite comparatively enriched in alumina and associated with bauxite mineralization.
- e. DGM Gujarat carried out investigation for bauxite and associated minerals during FS 1969–70 through geological mapping, aerial photo interpretation, dug well section studies and test drilling.
- f. Earlier investigations identified two important mineral occurrences in the area, namely bauxite and sub-bentonite clay (shale), with promising bauxite exposures reported from Ratnagar Hill and Amratpura–Kajipura areas, while shale near Mirapura and Mohamadpura in the Mohor River section was auctioned for mining lease to M.B. Traders.
- g. CGM Gujarat carried out exploration for bauxite and laterite around Ladvel and Dujevare villages of Kapadwanj taluka, Kheda district during FS 1998–99 in parts of Toposheet Nos. 46E/4 and 46F/1.
- h. About 62 sq. km. area was mapped on 1:8,000 scale and 8 pockets of bauxite associated with laterite were delineated in different villages of Kapadwanj taluka.
- i. The average grade of bauxite showed encouraging values with Al₂O₃ around 52.0%, SiO₂ 3.48%, Fe₂O₃ 6.25%, TiO₂ 8.31% and total R₂O₃ 66.7%, indicating metallurgical grade bauxite potential.
- j. About 10 pits aggregating 30 cu. m. were excavated and 20 samples collected for chemical and petrographic studies. Chemical analysis of pit samples indicated Al₂O₃ 52.03%, Fe₂O₃ 6.52%, SiO₂ 3.48%, TiO₂ 8.31% and LOI 28.57%, with estimated bauxite reserves of about 1.489 million tonnes.
- k. CGM Gujarat carried out Detailed Mineral Survey for bauxite/laterite deposits around Taibpura, Khanpur and Kapadwanj villages during FS 1999–2000 and delineated three bauxite pockets in Taibpura village with estimated reserves of 0.728 million tonnes and Al₂O₃ values ranging from 42% to 45%.
- l. Based on previous investigations and identified non-overlapping bauxite and limestone blocks published in "Gujarat's Mineral Wealth", the agency proposed G4-stage exploration involving large-scale geological mapping (1:12500 scale), surface sampling, pitting/trenching and exploratory drilling for assessment of bauxite and associated mineral

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- resources under UNFC G3 category.
- m. The agency carried out field visit in the proposed block area and collected 03 bedrock samples, wherein analytical results indicated Al_2O_3 values ranging from 30.58% to 35.68%, Fe_2O_3 from 14.37% to 40.72%, SiO_2 from 6.39% to 13.25%, TiO_2 from 1.13% to 2.36% and LOI from 15.86% to 26.12%, indicating lateritic bauxite mineralization with variable iron enrichment.
 - n. The committee reviewed the proposal and observed that a canal passes through the southwestern part of the block, while a few mining leases and habitation areas fall in the northeastern part. The committee therefore suggested exclusion of the canal, habitation and mining lease areas from the proposed block.
 - o. Accordingly, the agency modified the block boundary and reduced the proposed area to 15.85 sq. km.
 - p. The committee recommended excavation of 35 pits up to 3 m depth for assessment of bauxite resources. Since the block was allocated by CGM Gujarat, the revised area and boundary modifications are to be communicated by NMEDT Secretariat to CGM Gujarat for consent and record.

| Sl. No. | Agency | Brief Comments |
|---------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | GSI | The proposed block has no overlapping with the ongoing or completed blocks of GSI. |
| 2 | MECL | The proposed block has no overlapping with the ongoing or completed blocks of MECL. |
| 3 | AMD | NA |
| 4 | State DMG/DGM/CGM | The block was allotted by CGM, Gujarat to M/s. GEMS Project Pvt. Ltd. during a one-day workshop titled "Gujarat's Mineral Wealth- A responsible Exploration and Development Paradigm" on 17.08.2024 for G4 stage exploration with an area of 18.3 sq.km. |
| 5 | NMEDT | There are no NMEDT funded blocks overlapping with the proposed block, the proposed block is overlapping with the minor mineral block of M/s Manali Minerals Pvt. Ltd & Jayesh Gopaji Vanzara mine lease block. |

Recommendations of TCC-1:

The committee recommended the proposal titled "Reconnaissance Survey (G4) for Bauxite and Associated Minerals in Mirapur area, District: Kheda, Gujarat" for approval of PSC, NMEDT with an estimated cost of Rs. 61.81 lakhs (including GST) within time schedule of 06 months for carrying out the proposed work and submission of report as per Annexure – 6A & 6B. The item will be reviewed after 3 and 5 months.

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Reconnaissance Survey (G4) for Bauxite and Associated Minerals in Mirapur area, District: Kheda, Gujarat
Total Area - 15.85 sq. km, Schedule timeline- 6 months, Review: After 3 and 5 Months]

| S. No. | Item of Work * | Unit * | Rates as per NMET SoC 2025-26 | | Estimated Cost of the Proposal | | Remarks |
|----------|-------------------------------------------------------------------------------------------|---------------------|-------------------------------|------------------------|--------------------------------|-------------------------|------------------------------------------------|
| | | | SoC-Item No. * | Rates as per SoC * (a) | Qty. (b) | Total Amount (Rs) (a*b) | |
| A | Geological Work | | | | | | |
| i | Geological mapping (1:12500 scale) | Sq.Km | 1.1 | 18,300 | 15.85 | 290,055 | |
| ii | Charges for one Geologist per day for geological mapping, Pitting & drilling work - Field | Per day | 1.2.1a | 14,500 | 45 | 652,500 | Only mapping, pitting and Trenching to be done |
| iv | 2 Labours/ party | Per day | 5.8 | 556 | 90 | 50,040 | |
| iii | Charges for one Geologist - HQ | Per day | 1.2.1a | 10,500 | 30 | 315,000 | |
| | c. Charges for one Sampler per day (1 Party) | one sampler per day | 1.2.1b | 7,850 | 36 | 282,600 | |
| | e. Labours Charges; Bedrock, Core sampling and preparation of sample | day | 1.5.2 | 556 | 144 | 80,064 | |
| | | | | Sub Total- A | | 1,670,259 | |
| C | Trenching/Pitting | | | | | | |
| | Excavation of Pitting Nos of Pits - 35* (2x2x3m = 420 Cu.m) | per cu.m | 2.1.2 | 4,725 | 420 | 1984500 | |
| | | | | Sub-Total C | | 1984500 | |
| E | LABORATORY STUDIES | | | | | | |
| 1 | Chemical Analysis | | | | | | |
| i) | Major oxides (WD XRF + Trace Elements) | Per Sample | 4.1.17a | 4,200 | 250 | 1,050,000 | 50 BRS + 200 PTS |
| | 10% check samples for Major oxides (WD XRF + Trace Elements) | Per Sample | 4.1.17a | 4,200 | 25 | 105,000 | |

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| | | | | | | | | |
|----------|-----------------------------------------------------------------------------|------------------|---------------------------|---------------------------------------------------|----|------------------|------------------------------------------------------------------------------------------------------------|--|
| | REE ICPMS by sequential technique | Per Sample | 4.1.15 | 7,400 | 10 | 74,000 | | |
| | 10% check samples for REE ICPMS by sequential technique | Per Sample | 4.1.15 | 7,400 | 1 | 7,400 | | |
| 2 | Physical & Petrological Studies | | | | | | | |
| i | Preparation of thin polished section | Per Sample | 4.3.2 | 800 | 5 | 4,000 | | |
| ii | Study of thin section | Per Sample | 4.3.4 | 2,800 | 5 | 14,000 | | |
| viii | Bulk Density | Per Sample | 4.8.3 | 2,500 | 2 | 5,000 | | |
| x | Reactive Silica | Per Sample | 4.1.19d | 5,000 | 5 | 25,000 | | |
| xi | XRD Studies | Per Sample | 4.5.2 | 4,000 | 5 | 20,000 | | |
| | | | | | | 1,304,400 | | |
| F | Total A to E | | | | | | 4,959,159 | |
| I | Geological Report Preparation | soft copy | 5.2 | 5.2 (i) | | 150,000 | Reimbursement will be made after submission of the final Geological Report soft copy and uploading on NGDR | |
| J | Peer review Charges | | As per EC decision | | | 30,000 | | |
| K | Preparation of Exploration Proposal (5 Hard copies with a soft copy) | soft copy | 5.1 | 2% of the Cost or Rs. 5.0 Lakhs whichever is less | | 99,183 | | |
| L | Total Estimated Cost without GST | | | | | | 5,238,342 | |

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|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------|-------------------|-------------------------------------------------------------------------|
| M | Provision for GST (18% of L) | | | | 942,901.59 | GST will be reimburse as per actual and as per notified prescribed rate |
| N | Total Estimated Cost with GST | | | | 6,181,244 | |
| | | | | or Say Rs. In Lakhs | 61.81 | |
| 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 and Associated Minerals in Mirapur area, District:
Kheda, Gujarat**

Schedule Timeline – 06 months

| Sl. No. | Item of work | Months | | | | | | | | |
|---------|----------------------------------|--------|---|---|--------|---|---|--------|--|--|
| | | 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | Camp Setting/Mobilization | | | | REVIEW | | | REVIEW | | |
| 2 | Geologist Days (Field) | | | | | | | | | |
| 3 | Survey Days (01 party) | | | | | | | | | |
| 4 | Pitting/Trenching | | | | | | | | | |
| 5 | Sampling Days | | | | | | | | | |
| 6 | Laboratory Studies | | | | | | | | | |
| 7 | Camp winding | | | | | | | | | |
| 8 | Geologist Days, HQ | | | | | | | | | |
| 9 | Preparation of Geological report | | | | | | | | | |

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**Agenda 96.1.8. Reconnaissance Survey (G4) for Bauxite and Associated Minerals in
Talpada area (10.00 Sq. Km), District: Kheda, Gujarat.
(Proposal ID: ME/DD/G4/GJ/25-26/024)**

[Implementing Agency: M/s. GEMS Project Pvt. Ltd.]

- a. The proposed block falls within SOI Toposheet No. 46E/04 and comprises Deccan Trap basalt, laterite and bauxite, where bauxite occurs as pocket-type deposits associated with ferruginous/aluminous laterite.
- b. Concretionary limestone directly overlies the trap sequence, while greenish-grey and yellowish shales of probable Miocene age occur below alluvial cover. Two varieties of laterite, namely ferruginous laterite and alumina-rich nodular laterite, are identified in the area.
- c. DGM Gujarat carried out investigation for bauxite and associated minerals during FS 1969–70 through geological mapping, aerial photo interpretation, dug well section studies and test drilling, identifying promising bauxite occurrences at Ratnagar Hill and Amratpura–Kajipura areas along with sub-bentonite clay (shale) near Mirapura and Mohamadpura.
- d. CGM Gujarat carried out investigation for bauxite near Ambaliyara and Amipur villages of Bayad taluka, Sabarkantha district during FS 1986–87, wherein borehole and geological cross-section studies indicated intergrading horizons of bauxite, ferruginous bauxite and laterite.
- e. The investigation reported average bauxite thickness of 3.3 m with overburden thickness of 16.8 m and estimated total reserves of about 2.863 million tonnes comprising medium-low- and poor-grade bauxite categories.
- f. CGM Gujarat carried out exploration for bauxite and laterite around Ladvel and Dujevare villages of Kapadwanj taluka during FS 1998–99, covering about 62 sq. km. through geological mapping (1:8000 scale) and delineated 8 laterite-associated bauxite pockets.
- g. The investigated bauxite showed encouraging metallurgical grade values with average Al_2O_3 around 52%, SiO_2 3.48%, Fe_2O_3 6.25%, TiO_2 8.31% and total R_2O_3 66.7%. 10 pits aggregating 30 cu. m. were excavated and 20 samples collected for chemical and petrographic studies, resulting in estimated bauxite reserves of about 1.489 million tonnes.
- h. Detailed Mineral Survey during FS 1999–2000 delineated three additional bauxite pockets at Taibpura village with estimated reserves of 0.728 million tonnes and Al_2O_3 values ranging from 42% to 45%.
- i. In view of the encouraging results from previous investigations, the agency proposed G4-stage exploration for assessment of bauxite and associated mineral resources through large-scale geological mapping (1:12500 scale), surface sampling, pitting/trenching and exploratory drilling under UNFC G3 category.
- j. The agency carried out field visit and collected 03 bedrock samples from the proposed block area, wherein analytical results indicated Al_2O_3 values ranging from 29.56% to 33.13%, Fe_2O_3 from 19.36% to 35.93%, SiO_2 from 8.06% to 31.04%, TiO_2 from 1.41% to 2.08% and LOI from 14.13% to 20.03%.
- k. The committee reviewed the proposal and recommended excavation of 30 pits up to 3 m depth for assessment of bauxite mineralization in the proposed block.

| Sl. No. | Agency | Brief Comments |
|---------|--------|-------------------------------------------------------------------------------------|
| 1 | GSI | The proposed block has no overlapping with the ongoing or completed blocks of GSI. |
| 2 | MECL | The proposed block has no overlapping with the ongoing or completed blocks of MECL. |
| 3 | AMD | NA |

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| 4 | State DMG/DGM/CGM | The block was allotted by CGM, Gujarat to M/s. GEMS Project Pvt. Ltd. during a one-day workshop titled "Gujarat's Mineral Wealth- A responsible Exploration and Development Paradigm" on 17.08.2024 for G4 stage exploration with an area of 10 sq.km. |
| 5 | NMEDT | There are no NMEDT funded blocks overlapping with the proposed area. |

Recommendations of TCC-1:

The committee recommended the proposal titled "Reconnaissance Survey (G4) for Bauxite and Associated Minerals in Talpoda area, District – Kheda, Gujarat" for approval of PSC, NMEDT with an estimated cost of Rs. 50.72 lakhs (including GST) within time schedule of 06 months for carrying out the proposed work and submission of report as per Annexure – 7A & 7B. The item will be reviewed after 3 and 5 months.

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**Reconnaissance Survey (G4) for Bauxite and Associated Minerals in Talpoda area, District – Kheda, Gujarat
Total Area - 10.10 sq. km, Schedule timeline- 6 months, Review: After 3 and 5 Months]**

| S. No. | Item of Work * | Unit * | Rates as per NMET SoC 2025-26 | | Estimated Cost of the Proposal | | Remarks |
|----------|-----------------------------------------------------------------------------------|---------------------|-------------------------------|------------------------|--------------------------------|-------------------------|-----------------------------------------------------|
| | | | SoC-Item No. * | Rates as per SoC * (a) | Qty. (b) | Total Amount (Rs) (a*b) | |
| A | Geological Work | | | | | | |
| i | Geological mapping (1:12500 scale) | Sq.Km | 1.1 | 18,300 | 10.10 | 184,830 | |
| ii | Charges for one Geologist per day | day | 1.2.1a | 14,500 | 40 | 580,000 | for geological mapping, Pitting & trenching - Field |
| iv | 2 Labours/ party (Rs 541/day/labour)(As per rates of Central Labour Commissioner) | day | 5.8 | 556 | 80 | 44,480 | |
| iii | Charges for one Geologist - HQ | day | 1.2.1a | 10,500 | 30 | 315,000 | |
| | c. Charges for one Sampler per day (1 Party) | one sampler per day | 1.2.1b | 7,850 | 26 | 204,100 | |
| | e. Labours Charges; Bedrock, Core sampling and preparation of sample | day | 1.5.2 | 556 | 104 | 57,824 | |
| | | | | Sub Total- A | | 1,386,234 | |
| C | Trenching/Pitting | | | | | | |
| | Excavation of Pitting Nos of Pits - 30*(2x2x3m = 360 Cu.m) | per cu.m | 2.1.2 | 4,725 | 360 | 1701000 | |
| | | | | Sub-Total C | | 1701000 | |
| E | LABORATORY STUDIES | | | | | | |
| i) | Major oxides (WD XRF + Trace Elements) | Per Sample | 4.1.17a | 4,200 | 175 | 735,000 | 25 BRS + 150 PTS |
| | 10% check samples for Major oxides (WD XRF + Trace Elements) | Per Sample | 4.1.17a | 4,200 | 18 | 75,600 | |
| | REE ICPMS by sequential technique | Per Sample | 4.1.15 | 7,400 | 10 | 74,000 | |

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|------|----------------------------------------------------------------------|------------|--------------------|---------------------------------------------------|---|-------------------|-------------------------------------------------------------------------|
| | 10% check samples for REE ICPMS by sequential technique | Per Sample | 4.1.15 | 7,400 | 1 | 7,400 | |
| 2 | Physical & Petrological Studies | | | | | | |
| i | Preparation of thin polished section | Nos | 4.3.2 | 800 | 5 | 4,000 | |
| ii | Study of thin polished section | Nos | 4.3.4 | 2,800 | 5 | 14,000 | |
| viii | Bulk Density | Nos | 4.8.3 | 2,500 | 2 | 5,000 | |
| x | Reactive Silica | Nos | 4.1.19d | 5,000 | 3 | 15,000 | |
| xi | XRD Studies | Nos | 4.5.2 | 4,000 | 5 | 20,000 | |
| | | | | Sub Total E | | 950,000 | |
| F | Total A to E | | | | | 4,037,234 | |
| G | Geological Report Preparation | soft copy | 5.2 | 5.2 (i) | | 150,000 | |
| H | Peer review Charges | | As per EC decision | | | 30,000 | |
| I | Preparation of Exploration Proposal (5 Hard copies with a soft copy) | soft copy | 5.1 | 2% of the Cost or Rs. 5.0 Lakhs whichever is less | | 80,745 | |
| J | Total Estimated Cost without GST | | | | | 4,297,979 | |
| K | Provision for GST (18% of J) | | | | | 773,636.16 | GST will be reimburse as per actual and as per notified prescribed rate |
| L | Total Estimated Cost with GST | | | | | 5,071,615 | |

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| | | | | or Say Rs. In Lakhs | 50.72 | |
| 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 and Associated Minerals in Talpada area, District –
Kheda, Gujarat**

Schedule Timeline – 6 months

| Sl. No. | Item of work | Months | | | | | | | | |
|---------|----------------------------------|--------|---|---|---------------|---|---|---------------|--|--|
| | | 1 | 2 | 3 | 4 | 5 | 6 | | | |
| 1 | Camp Setting/Mobilization | | | | REVIEW | | | REVIEW | | |
| 2 | Geologist Days (Field) | | | | | | | | | |
| 3 | Survey Days (01 party) | | | | | | | | | |
| 4 | Pitting/Trenching | | | | | | | | | |
| 5 | Sampling Days | | | | | | | | | |
| 6 | Laboratory Studies | | | | | | | | | |
| 7 | Camp winding | | | | | | | | | |
| 8 | Geologist Days, HQ | | | | | | | | | |
| 9 | Preparation of Geological report | | | | | | | | | |

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**Agenda 96.1.9. Reconnaissance Survey (G4) for Limestone in Ganga block, Jaisalmer District, Rajasthan.
(Proposal ID: ME/DD/G4/RJ/26-27/005)**

[Implementing Agency: FAGMIL]

- The proposed block falls within Survey of India Toposheet No. 40J/09 and 40J/05.
- Majority of the proposed block falls in Eco-Sensitive Zone of Desert National Park as per PM Gatishakti portal.
- The project was not discussed further in view of presence of ESZ in the proposed block.

| Sl. No. | Agency | Brief Comments |
|---------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | GSI | At present no project is going on in the proposed area. The block is proposed based on positive outcome of exploration carried out by DMG, Rajasthan and samples collected from field by agency (the XRF analysis data show that the CaO content ranges from 52.4 to 54%, and the SiO ₂ content ranges from 0.57 to 3.14%, n=4). Based on the values and proven resources in nearby blocks, proposed area seems feasible for taking up the exploration for limestone, however majority of part is overlapping with Desert National Park. |
| 2 | MECL | The proposed block has no overlapping with the ongoing or completed blocks of MECL. |
| 3 | AMD | AMD has not carried out any exploration / reconnaissance project in the proposed block, previously. There is no ongoing exploration / reconnaissance project. |
| 4 | State DMG/DGM/CGM | Awaited at the time of meeting. |
| 5 | NMEDT | There are no NMEDT funded blocks overlapping with the proposed area. Majority of the proposed Block falls within Eco-sensitive Area and Desert National Park. |

Recommendations of TCC-1:

The committee did not recommend the proposal as the area is under ESZ of Desert National Park.

Agenda 96.2: Technical Evaluation of New Procurement Proposal

Agenda 96.2.1. Financial assistance from NMEDT to procure additional Softwares for already purchased ArcGIS for the 2nd phase.

[Implementing Agency: DMM West Bengal]

- The agency apprised the committee that an earlier NMEDT-funded procurement was undertaken by the Directorate of Mines & Minerals (DMM), West Bengal, and the GIS based work is being carried out using ArcMap (2D) for preparation and scrutiny of geological maps, District Survey Reports (DSR), and initiation of a State-wide Minor Mineral Data Repository.
- DMM, West Bengal, currently uses ArcMap, which has become obsolete by ESRI since 1st March 2026. As the future updates, support, and advanced GIS functionalities will be available only on ArcGIS Pro, upgrading to the new platform has become necessary.
- The proposed procurement of ArcGIS Pro along with Spatial Analyst, 3D Analyst, and ArcGIS Online is required to enable advanced mineral exploration and geospatial analysis functions such as terrain analysis, mineral potential mapping, 3D geological modelling,

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- cross-section preparation, and volumetric estimation of mineral resources.
- The project was discussed in the 90th TCC-I meeting, where in the committee recommended the proposal in principle and suggested the agency to submit proposal alongwith justification in NMEDT format.
 - The committee was apprised that DMM, West Bengal has submitted the justification for procurement as per the NMEDT format.
 - The committee reviewed the proposal and opined that since Arc Map version of Arc GIS software has become obsolete, it is necessary to upgrade to Arc GIS pro version. The Spatial Analyst (SA), 3D Analyst etc. tools/extension are also necessary for advanced work like terrain analysis, 3D geological modelling, volumetric estimation etc.
 - The committee recommended the proposal for approval

| Sl. No. | Product Name | Qty | Approximate Price (with GST) |
|--------------|-----------------------------------------------------|-----|------------------------------|
| 1 | UOL Upgrade to Indo ArcGIS Desktop Standard | 1 | ₹6,94,167 |
| 2 | Indo ArcGIS Pro Extension – SA | 1 | ₹4,35,000 |
| 3 | Indo ArcGIS Pro Extension – 3D | 1 | ₹4,35,000 |
| 4 | ArcGIS Online Creator User Type Annual Subscription | 3 | ₹5,98,260 |
| Total | | | ₹21,62,427 |

Recommendations of TCC-1:

The committee recommended the proposal entitled “Financial assistance to upgrade ArcGIS software (Arc Map Version) to Arc GIS pro version” for the approval of PSC, NMEDT with an estimated cost of Rs. 21.62 lakhs (including GST) as per Table 1. The timeline to complete procurement is 12 months.

Agenda 96.3: Review of Baseline Data Generation Project & Timeline Extension

Agenda 96.3.1. Deep Seismic Reflection Survey (DSRS) & Magnetotelluric (MT) Survey along Churu (Rajasthan) to Tikamgarh (Madhya Pradesh), Northern Transect under the project UNCOVER India.

[Implementing Agency: GSI-NGRI]

- The project was approved by EC in its 32nd meeting held on 06.12.2023. The Sanction Order was issued on 29.12.2023 for a timeline of 36 months (upto 28.12.2026). The project was approved for a cost of INR 99,73,30,000/-.
- GSI-NGRI presented the progress of work and apprised the committee that a total of 116 LVL (Low Velocity Layer) points have been recorded at 5 km intervals and the LVL studies under DSRS part has been completed on 07.10.2024.
- The Up-hole survey under DSRS Part at five sites at an interval of 10-15 km along the seismic profile was carried out in February 2025.
- It was further informed that experimental studies have been completed and the final seismic data acquisition parameters have been finalized and the tendering process for DSRS survey supporting services, including topographical survey, shot-hole drilling, seismic job services, labour deployment and supply of explosives required for execution of DSRS work, was initiated in September 2024.
- It was further informed that timeline extension is required for re-tendering, award of work, mobilization and completion of the remaining DSRS field work, including processing, interpretation, integration and preparation/submission of the final report.
- The committee expressed displeasure over the delay in execution and sought clarification regarding the reasons for delay in the tendering process.
- The agency informed that the tender for DSRS supporting services was floated on

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- 03.05.2025 and completed in September 2025, wherein three firms participated, two were technically qualified and the L1 bidder was selected; however, the bid value of Rs. 25.29 crore exceeded the financial sanction powers of Director, CSIR-NGRI and was referred to CSIR Headquarters and CSIR-CIMFR, Dhanbad for examination.
- h. Following scrutiny and discussions with CSIR Headquarters and CSIR-CIMFR, and in view of allegations raised against the L1 bidder, CSIR Headquarters advised CSIR-NGRI on 23.03.2026 to proceed with re-tendering to ensure transparency and adherence to due procedure.
 - i. It was further informed that timeline extension is required for processing the re-tendering documents, and re-tendering can be initiated only after approval of the timeline extension.
 - j. Regarding MT survey, the agency informed that work up to Milestone-4 (60% of data acquisition) has already been achieved. The MT Survey is in progress, and the timeline for completion of 100% data acquisition will be from 1st May 2026 to 31st December 2026.
 - k. For DSRS part, data acquisition will be completed by 30.11.2027. For both DSRS and MT Survey, all the processing, analysis, modelling work including data compilation, interpretation, 2D- Depth Section, submission of report etc. will be completed by 31.03.2028. Hence the agency sought a timeline extension of 15 months upto 31.03.2028.
 - l. The committee deliberated the issue and the Chairman, TCC-I, suggested constitution of a Joint Working Group comprising GSI and NGRI representatives to monitor the progress of work on a weekly basis.
 - m. The committee further instructed GSI and NGRI to submit a time-bound future action plan to NMEDT for completion of the work within the extended timeline.
 - n. The committee deliberated the issue and recommended timeline extension upto 31.03.2028.

Recommendations of TCC-1:

The committee recommended the timeline extension upto 31.03.2028 for approval of PSC, NMEDT. The timeline extension is recommended for completion of the project and submission of Report.

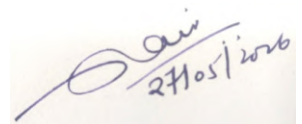
Agenda 96.4: Review of Ongoing Procurement Project & Timeline Extension

Agenda 96.4.1. Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities.

[Implementing Agency: DMG Karnataka]

- a. The committee was apprised, the project was approved by EC in its 27th meeting held on 10th January, 2023. The Sanction order was issued on 24.03.2023 for the procurement of ICPMS (1 no.), WD-XRF (1 no.), and Rock cutting polishing & mounting unit (1 no.) with an estimated cost of 417 lakhs and timeline of 12 months (up to 23.03.2024). The timeline was extended up to 30.09.2024, 31.10.2025 and 30.04.2026 in 35th EC, 38th EC and 3rd PSC meetings respectively.
- b. DMG Karnataka apprised the committee regarding the status of procurement and informed the committee that ICPMS have been procured. However, procurement of WD-XRF and rock cutting, polishing and mounting unit is still not completed and currently under progress.
- c. The agency sought cost escalation of instruments that are yet to be procured as well as timeline extension up to 31st Jan, 2027 for completion of procurement. The agency also sought modification in the specifications of rock cutting polishing & mounting unit with modern facilities.
- d. The committee reviewed the proposal did not agree for the modifications and suggested the agency to adhere to the specifications as approved by NMEDT. However, the committee recommended timeline extension up to 31.01.2027 for completion of the

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procurement.

Recommendations of TCC-1:

The committee recommended the timeline extension upto 31.01.2027 for approval of PSC, NMEDT. The timeline extension is recommended for completion of the procurement of WD-XRF (1 no.), and Rock cutting polishing & mounting unit (1 no.).

Agenda 96.5: Project Evaluation for In-Principle Approval

Agenda 96.5.1. Reconnaissance Survey (G4) for Basemetal in Chama-Baragaon-Doonakot Area, Pithoragarh District, Uttarakhand.

(Proposal ID: ME/IN/G4/UK/P/25-26/053)

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

- The proposed block falls within Survey of India Toposheet No. 62C/1 and 62C/5.
- Major part of the proposed block falls in Eco-Sensitive Zone as per PM Gatishakti portal.
- The project was not discussed further in view of presence of ESZ in the proposed block.

| Sl. No. | Agency | Brief Comments |
|---------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | GSI | At present, there is no ongoing project in the proposed block. |
| 2 | MECL | The proposed block has no overlapping with the ongoing or completed blocks of MECL. |
| 3 | AMD | AMD has carried out reconnaissance project (G4 stage) for uranium in different phases. No significant surface radioactive zone was delineated in the proposed block. The proposed block has no overlapping with the AMD's ongoing projects. |
| 4 | State DMG/DGM/CGM | NA |
| 5 | NMEDT | The proposed block overlaps with item "G4 for Base Metal mineralization in Ajera-Pasma Area, Pithoragarh district, Uttarakhand" Exploration block. Proposed area falls in Eco-Sensitive Zone as per PM Gatishakti Portal. |

Recommendations of TCC-1:

The Committee did not recommend the proposal as major part of the proposed area falls within the Eco-Sensitive Zone (ESZ).

Agenda 96.5.2. Reconnaissance Survey (G4) for Basemetal and Gold in Jauljibi-Toli Area, Pithoragarh District, Uttarakhand.

(Proposal ID: ME/IN/G4/UK/P/25-26/054)

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

- The proposed block falls within Survey of India Toposheet No. 62C/5.
- Major part of the proposed block falls in Eco-Sensitive Zone as per PM Gatishakti portal.
- The project was not discussed further in view of presence of ESZ in the proposed block.

| Sl. No. | Agency | Brief Comments |
|---------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | GSI | Final Report on Base Metal Investigation around Askot, District Pithoragarh, Uttar Pradesh (Field Season 1974-75) by Arabinda Ghose; Geologist (Sr.), Bimalendu De; Geologist (Sr.) R. B. S. Rao, Assistant Geologist. The area lies in the |

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| | | southern part of the proposed block and is overlapping with the proposed block (~8-10%). At present, there is no ongoing project in the proposed block. |
| 2 | MECL | The proposed block has no overlapping with the ongoing or completed blocks of MECL. |
| 3 | AMD | NA |
| 4 | State DMG/DGM/CGM | Awaited |
| 5 | NMEDT | The proposed block overlaps with multiple Base metal exploration blocks. Proposed area falls in Eco-Sensitive Zone. |

Recommendations of TCC-1:

The Committee did not recommend the proposal as major part of the proposed area falls within the Eco-Sensitive Zone (ESZ).

**Agenda 96.5.3. Reconnaissance Survey (G4 Stage) Exploration for Glauconite and Basemetals in Kohari area Panna district Madhya Pradesh.
(Proposal ID: ME/IN/G4/MP/P/26-27/013)**

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

- The proposed block falls within Survey of India Toposheet No. 63D/5, 63D/9.
- Geological Survey of India carried out preliminary investigation of sulphur mineralisation and associated gossanized and silicified zones in the Kohari area, Satna (now Panna) district, Madhya Pradesh during FS 1971–72 by H.H. Khan.
- The investigation recorded a consistent association of sulphur mineralisation, gossanisation, quartz box-work, secondary silicification and anomalous Cu-Pb-Zn values within a stratigraphically and structurally controlled mineralised belt.
- The report further established that the mineralised occurrences are not isolated in nature but occur repeatedly within chert, chert breccia, limestone and related Semri Group lithologies over a broad zone south of Kohari.
- The area exposes thick chert and chert-breccia horizons of the Pandwa Fall Quartzite Formation (Semri Group, Vindhyan Supergroup), with locally disturbed and structurally controlled disposition marked by inferred faulting in the Kohari–Baghain tract.
- MMPL carried out field visit near Kohari and Pahauwa villages, Panna district, and confirmed the occurrence of a glauconite-rich sandstone horizon with about 3 m observed thickness on surface.
- A total of 15 samples comprising glauconitic sandstone and gossan samples were collected for analysis, and chert and chert-breccia boulders were also observed in the area.
- The committee reviewed the proposal and approved in principle.
- The committee, however, mentioned that the approval is subject to comments of state DGM and suggested the agency to get analytical results and strengthen the proposal with proper justification.

| SI. No. | Agency | Brief Comments |
|---------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | GSI | There is no ongoing exploration in the proposed area. Based on the past exploration data detailed studies in proposed area may be helpful to assess the Mineral Potential. |
| 2 | MECL | The proposed block has no overlapping with the ongoing or completed blocks of MECL. |
| 3 | AMD | There is no ongoing or past exploration / reconnaissance project. |

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| 4 | State DMG/DGM/CGM | Awaited |
| 5 | NMEDT | The proposed block overlaps with GSI Block (Report On Geophysical Surveys for Basemetal Deposits in Amilaha-Kalinjar Area Panna and Banda Districts of M.P. And U.P.) One auctionable G3/G2 block is present within the proposed block for Diamond as per NGDR Portal. There are no NMEDT funded blocks overlapping in the proposed area. |

Recommendations of TCC-1:

The proposal was approved in principle, and the agency was advised to remove the G2/G3 stage auctionable block while submitting the DPR and justify the proposal with analytical results. The agency is suggested to bring DPR within 3 months.

**Agenda 96.5.4. Preliminary Exploration (G3) for Bauxite in Garjanbija block, Pushprajgarh Taluka, Anuppur District, Madhya Pradesh.
(Proposal ID: ME/IN/G3/MP/P/26-27/010)**

[Implementing Agency: M/s PRB Infraprojects Pvt. Ltd.]

- The proposed block falls within Survey of India Toposheet No. 64F/05 and forms part of the Amarkantak Plateau, which is characterized by Deccan Trap basaltic flows overlain by a lateritic cover.
- G4-level exploration carried out by Geological Survey of India during FS 2022–23 established the presence of bauxite mineralization over plateau tops and ridges, occurring as moderately hard, tabular bodies formed by weathering of basalt.
- Geochemical analysis indicated moderate to high Al_2O_3 content with comparatively low silica and other impurities, and the Lamisara, Kobla, Bicharpur, Salaiya and Garjanbija areas of Anuppur district were identified as potential zones for bauxite and aluminous laterite mineralization.
- The agency further informed that Bauxite/laterite mineralization in the area occurs over plateau tops and high ridges (>960 m MSL) as discontinuous bodies of 1–8 m thickness, distributed across Garjanbija, Salaiya, Bicharpur and adjoining areas.
- The agency further apprised that analytical data available in the area have yielded Al_2O_3 ranging from 30.46–43.47% (BRS) and 32.39–38.10% (PTS), low SiO_2 (2.77–6.84%), TiO_2 up to 9.67%, and notable enrichment of vanadium (483.27–1703.01 ppm), gallium (25.39–89.47 ppm) and lithium (2.4–24.01 ppm).
- The committee reviewed the proposal and opined that value is considerable. The committee suggested the agency to bring DPR in forthcoming TCC meeting.
- The committee approved the proposal in principle and the approval is subject to comments from DGM, MP.

| Sl. No. | Agency | Brief Comments |
|---------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | GSI | The area is fully overlapping with earlier explored G4 block for Bauxite & Aluminous Laterite. Analytical results from selected BRS samples show Al_2O_3 ranging from 30.46% to 43.47% and SiO_2 from 2.77% to 6.47%. In contrast, PTS samples indicate Al_2O_3 from 32.39% to 38.10% and SiO_2 from 3.71% to 6.84%. Additional elements include V (vanadium) from 483.27 to 1703.01 ppm, Ga from 25.39 to 89.47 ppm, Li from 2.4 to 24.01 ppm, and TiO_2 from 2.16% to 9.67%. The findings suggest potential bauxite mineralization in the area, particularly around villages such as Salaiya, Garjanbija, |

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| | | Rausarkhar, Bicharpur, Lilatola, Beldongri, Badadongar, and others. The area may be feasible to take up further exploration based on these chemical results, considering factors like the extent of laterite/bauxite cover, ridge elevations, and estimated profile or ore zone thickness. |
| 2 | MECL | The proposed block by M/s PRB Infraprojects Private Limited has no overlapping with the ongoing or completed blocks of MECL. |
| 3 | AMD | There is no ongoing or past exploration / reconnaissance project. |
| 4 | State DMG/DGM/CGM | Awaited |
| 5 | NMEDT | There is no overlapping with NMEDT funded block in the proposed area. No ESZ/ESA, Protected Areas for Wildlife Sanctuary or Tiger Corridors present. Recorded Forest Area Present. |

Recommendations of TCC-1:

The committee approved the proposal in principle and suggested to bring DPR within 3 months. The in-principle approval is subject to comments from DGM Madhya Pradesh.

Agenda 96.5.5. Preliminary Exploration (G3) for Rare Earth Elements (REE) and associated Rare Metals (RM) in Kalyana Block, Salumber District, Rajasthan.

(Proposal ID: ME/IN/G3/RJ/P/26-27/009)

[Implementing Agency: M/s Kundan Concentrates Private Limited]

- The proposed block falls within Survey of India Toposheet No. 45L/04.
- The agency apprised the committee that the area is characterized by presence of granitic rocks, pegmatites, quartz veins, carbonaceous phyllites, and skarnised carbonate rocks providing a favourable environment for RMs like Nb and Ta alongwith REE.
- The agency further informed that proposal is based on G4 stage exploration work carried out by MECL in the area.
- The agency further informed that 5 BRS have yielded elevated concentrations of REE including Ce upto 307.75 ppm, La upto 152.77 ppm, and Nd upto 117.69 ppm. MECL, however, in its comment have stated that TREE values ranged from 16.54 ppm (Sample BR64) to 674.73 ppm (Sample BR68), and only a few samples exceeded 600 ppm.
- The committee reviewed the proposal and opined the analytical values are not sufficient enough to take up G3 level investigation.
- Representative of DGM, Rajasthan present in the meeting also informed that the proposed area falls in FSI Aravalli polygon. The committee instructed DMG to provide the comments in writing.
- DGM Rajasthan have provided the comments and brief comments are provided in comment box below.

| Sl. No. | Agency | Brief Comments |
|---------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | GSI | At present no G3 stage project is going on in the proposed area. The block is proposed based on G4 stage investigation by MECL (2017), which reported REE anomalies in granite While five samples recorded TREE >500 ppm and six samples >300 ppm, these values indicate only moderate enrichment. Rare metals were not analysed. Therefore, the REE potential is |

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|---|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | not yet established, and G3 stage exploration should be taken up only after further validation of REE and RM mineralization |
| 2 | MECL | The proposed Kalyana Block of Kundan Concentrates Private Limited overlaps with MECL's explored area, where G4 level exploration has been carried out. The results indicate limited REE potential, with Total REE (TREE) values ranging from 16.54 ppm (Sample BR64) to 674.73 ppm (Sample BR68), and only a few samples exceeding 600 ppm. Accordingly, the area is not considered sufficiently encouraging for further exploration. |
| 3 | AMD | There is no ongoing or past exploration / reconnaissance project. |
| 4 | State DMG/DGM/CGM | DMGR has taken a project on REEs for the field season 2026-27 just adjacent to the proposed block (West of Proposed Block). No ML/CL present. As per the FSI report dated 25.08.2010, that the said area falls within the Aravalli polygon area . Since the area falls within the Aravalli polygon as per the FSI report, any permission for exploration shall be governed by and subject to compliance with the directions / orders issued by the Hon'ble Supreme Court in respect of the Aravalli Hills, as amended from time to time |
| 5 | NMEDT | MECL Exploration block titled- Regional Exploration Proposal (G4 level) for Copper, Gold & REE in Jhalara-Matasura-Manpur-Bhabrana-Amalva area, district Udaipur & Dungarpur, Rajasthan, overlaps with the proposed block. |

Recommendations of TCC-1:

The Committee did not recommend the proposal, as the analytical values were not encouraging for taking up G3 stage exploration. The area also falls in FSI Aravalli polygon area.

96.6: Review of Ongoing Exploration Project & Timeline Extension

Agenda 96.6.1. Preliminary Exploration (G3) for Bauxite, Aluminous Laterite, Manganese and Associated Minerals around Rengalaberha-Kashira area, Sundargarh District, Odisha.

[Implementing Agency: M/s. Natural Resources Division-Tata Steel Limited]

- a. NRD Tata informed that the project was approved in the 1st PSC Meeting held on 9th October, 2025. The sanction order was issued on 17th November, 2025 with timeline of 12 months (up to 16.11.2026) and approved cost was INR 2,15,48,580/-.
- b. The agency presented the progress of work and informed the committee that Detailed Geological Mapping and Topographic Survey on 4000 scale has been completed and an area of 3.13 sq. km. has been covered.
- c. The committee was further apprised that three base stations were established at Kashira village using DGPS and CORS of Survey of India, through which X-Y coordinates and corresponding RLs were obtained, 1,416 survey points were collected across the block, and contours were generated at 5 m intervals.

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- d. Major lithologies observed in the area comprise aluminous laterite, ferruginous laterite, shale, and chert; laterite occurs mainly as blanket and hard cap over hilltops with irregular continuity, the general strike trends NNE–SSW with an overall dip of about 56° towards NW, and four aluminous laterite zones have been identified in the northeastern, northwestern, central-western, and central to southern parts of the block.
- e. A total of 75 samples, were collected and analysed for 11 radicals, covering all major lithologies, of which 49 samples were collected from aluminous and bauxitic laterite zones. Average Al₂O₃% in 49 Aluminous Laterite samples is 33.79%.
- f. The agency further informed that a total of 40 pits have been systematically planned over the interpreted laterite zone on a 200 m × 100 m grid to confirm depth continuity of lithology and quality, considering the irregular and blanket-type nature of mineralization and its surface expression. FC for pitting is awaited.
- g. The committee reviewed the progress of work and expressed their satisfaction over the quality of work completed so far.
- h. The committee suggested that pitting may be carried out as per the grid plan shown by agency. However, some pitting may also be planned at the central part of the area, so that the subsurface geology may be deciphered and map may be upgraded.
- i. The committee also instructed the agency to come again for review after the analytical data of Pit samples are received.

Recommendations of TCC-1:

The committee reviewed the progress of work and suggested the agency to come again for review after analysis of pit samples.

Agenda 96.6.2. Preliminary Exploration (G-3) for Aluminous Laterite, Vanadium and Associated Minerals (V, Ga & REE) in Kallar Block, Kasaragod District, Kerala.

[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 8th September, 2025 with timeline of 10 months (up to 07.07.2026) and approved cost was INR 1,22,71,923/-.
- b. Geological and structural mapping (1:4,000 scale) along with bedrock sampling (BRS) has been carried out by MECL, delineating bauxite and aluminous laterite horizons within the block.
- c. During Phase-I exploration, bauxite and aluminous laterite mineralization has been identified; 50 BRS samples have been collected and analysed.
- d. Plateau area is extensively covered by ferruginous and aluminous laterites with local bauxitic laterite occurrences, duricrust exposures, laterite quarries, and crystalline basement rocks comprising granite gneiss, garnet gneiss, charnockite, charnockite gneiss, and pyroxene granulite.
- e. Chemical analysis has yielded Al₂O₃ (21.41–45.76%), Fe₂O₃ (10.85–49.39%), SiO₂ (3.72–25.12%), P₂O₅ (0.06–0.48%), TiO₂ (0.83–1.80%), V (0.023–0.086%), Ga (0.003–0.007%) and LOI (12.82–24.86%).
- f. All samples fall under Aluminous Laterite (>20% Al₂O₃); and one sample qualifies as Bauxitic (>30% Al₂O₃, <7% SiO₂).
- g. The agency proposed systematic drilling to delineate viable mineralized zones and upgrade the resources to G3 level.

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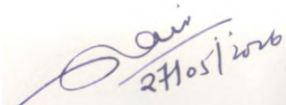
- h. A total of 9 boreholes, each of 35 m depth and spaced at 400 m intervals, are planned to target the persistent bauxite and aluminous laterite horizons within the mineralized zone.
- i. The committee reviewed the drilling plan and agreed upon drilling plan.
- j. The agency requested for timeline extension due to delay in the execution of the project and outsourcing of drilling component.
- k. The committee reviewed the progress of work and agreed for extension of timeline upto 31.08.2026.
- l. The committee approved the outsourcing of drilling component and suggested the agency to expedite the work.

Recommendations of TCC-1:

The committee recommended revision of cost of project from Rs. 122.72 lakh to Rs. 115.13 lakh with a change in amount of (-) Rs 7.59 lakhs (~6.18 % de- escalation), for approval of PSC, NMEDT as per Annexure 8.

The committee also recommended timeline extension upto 31st August, 2026 for completion of work and submission of GR for approval of PSC of NMEDT.

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Annexure 8

Revised cost for Preliminary Exploration (G-3 stage) for Aluminous Laterite, Vanadium and Associated Minerals (V, Ga and REE) in Kallar Block, Kasaragod District, Kerala

| S. No. | Item of Work | Unit | Rates as per NMET SoC 2020-21 | | Estimated Cost of the Proposal | | Revised Estimated Cost of the Proposal | | Remarks |
|--------|----------------------------------------------------------------------------------------------------------|------|-------------------------------|------------------|--------------------------------|-------------|----------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------|
| | | | SoC-Item -SI No. | Rates as per SoC | Qty. | Amount (Rs) | Qty. | Amount (Rs) | |
| | | | | | | | | | |
| A | GEOLOGICAL WORK (1:4000 scale) & TOPOGRAPHICAL SURVEY (1:4000 scale) | | | | | | | | |
| i | Charges for one Geologist- Field | day | 1.3 | 11,000 | 140 | 15,40,000 | 140 | 15,40,000 | |
| ii | Charges for one Geologist per- HQ | day | 1.3 | 9,000 | 30 | 2,70,000 | 30 | 2,70,000 | |
| iii | 2 labours/ party (As per rates of Central Labour Commissioner) | day | 5.7 | 541 | 280 | 1,51,480 | 280 | 1,51,480 | Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher |
| iv | Sampling party days-1 Samplers Labour charge not included | day | 1.5.2 | 5,100 | 100 | 5,10,000 | 100 | 5,10,000 | |
| v | 4 labours/ party (As per rates of Central Labour Commissioner) | day | 5.7 | 541 | 400 | 2,16,400 | 400 | 2,16,400 | Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher |
| vi | Survey Party Days (Geological Mapping, Topographical contour survey and borehole fixation)- 1:4000 scale | day | 1.6. 1a | 8,300 | 45 | 3,73,500 | 45 | 3,73,500 | |
| vii | 4 labours for surveyor | day | 5.7 | 541 | 180 | 97,380 | 180 | 97,380 | |

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|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------|-------|-----|---------------------|-----|------------------|----------------|------------------|
| | | | | | | Sub Total- A | | 31,58,760 | | 31,58,760 |
| B | PITTING AND TRENCHING | | | | | | | | | |
| i | Pitting | Cu m | 2.1.2 | 3800 | - | - | | | | |
| | | | | | | Sub Total- B | | - | | |
| C | LABORATORY STUDIES | | | | | | | | | |
| 1 | Chemical Analysis | | | | | | | | | |
| i | Primary & Check samples for Bauxite BRS/Chip/Channel/Trench/BH samples) | | | | | | | | | |
| | a. Primary Samples for 5 radicals i.e. Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , P ₂ O ₅ , TiO ₂ & LOI | Nos | 4.1.15a | 4,200 | 365 | 15,33,000 | 365 | 15,33,000 | BH-315, BRS-50 | |
| | b. For each additional trace elements viz. V & Ga | Nos | 4.1.15b | 842 | 365 | 3,07,330 | 365 | 3,07,330 | | |
| | c. External (10%) Check samples for 5 radicals i.e. Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , P ₂ O ₅ , TiO ₂ & LOI | Nos | 4.1.15a | 4,200 | 37 | 1,53,300 | 37 | 1,53,300 | | |
| | d. External (10%) Check samples for each additional trace elements viz. V & Ga | Nos | 4.1.15b | 842 | 37 | 30,733 | 37 | 30,733 | | |
| 2 | Physical, Petrological, Mineralogical Studies | | | | | | | | | |
| i | Preparation of thin section | Nos | 4.3.1 | 2,353 | 10 | 23,530 | 10 | 23,530 | | |
| ii | Complete petrographic study report | Nos | 4.3.4 | 4,232 | 10 | 42,320 | 10 | 42,320 | | |
| iii | Preparation of polished section | Nos | 4.3.2 | 1,549 | 10 | 15,490 | 10 | 15,490 | | |
| iv | Complete mineragraphic study report | Nos | 4.3.4 | 4,232 | 10 | 42,320 | 10 | 42,320 | | |
| v | Digital Photographs | Nos | 4.3.7 | 280 | 10 | 2,800 | 10 | 2,800 | | |
| vi | X-RD studies for mineral phase identification | Nos | 4.5.1 | 4,000 | 10 | 40,000 | 10 | 40,000 | | |

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|---------------------|-------------------------------------------------------------------------------------------------------------|--------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------|-----|------------------|----------------------------------------------------------------------------------------------------------------------------------|
| vii | ICPMS - 34 elements | Nos | 4.1.14 | 7,731 | 25 | 1,93,275 | 25 | 1,93,275 | |
| viii | Bulk density determination | Nos | 4.10 | 3540 | 5 | 17,700 | 5 | 17,700 | |
| ix | Combined determination of Trihydrate Alumina (THA-140°C), Monohydrate Alumina (MHA-240°C) & Reactive Silica | Nos | 4.1.17a | 6700 | 5 | 33,500 | 5 | 33,500 | |
| Sub Total- C | | | | | | 24,35,298 | | 24,35,298 | |
| D | DRILLING | | | | | | | | |
| i | Drilling upto 300m (Soft Rock) (1 rig) | m | 2.2.1.1b | 7,168 | 315 | 22,57,920 | 315 | 22,57,920 | As per MOC rates |
| ii | Land / Crop Compansation | per BH | 5.6 | 20,000 | 9 | 1,80,000 | 9 | 1,80,000 | As per Actuals |
| iii | Construction of concrete Pillar (12"x12"x30") | per borehole | 2.2.7a | 2,000 | 9 | 18,000 | 9 | 18,000 | As per Actuals |
| iv | Transportation of Drill Rig & Truck associated per drill | Km | 2.2.8 | 36 | 2,940 | 1,05,840 | - | - | Certification in this regard is required to be provided |
| v | Monthly Accomodation Charges for drilling Camp (up to 1 Rig) | month | 2.2.9 | 50,000 | 4 | 2,00,000 | - | - | |
| vi | Drilling Camp Setting Cost | Nos | 2.2.9a | 2,50,000 | 1 | 2,50,000 | - | - | |
| vii | Drilling Camp Winding up Cost | Nos | 2.2.9b | 2,50,000 | 1 | 2,50,000 | - | - | |
| viii | Approach Road Making | Km | 2.2.10a | 22,020 | 3 | 66,060 | - | - | Road Making will be considered as per the requirement and Road Making Charges will be reimbursed for max. 4 km.. As per Actuals. |
| | Operational Charges | | 6.0(i) | In case of total outsourced cost up to ₹50 lakh: Cost for outsourced component(s) of project work will be reimbursed as per actuals. In addition, 10 percent of the total outsourced cost will be paid to Exploration Agency towards operational charges. | | | | 2,25,792 | |

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| | Tendering Process Cost | | 2.3 | 2% of the approved project cost or 5 lakh whichever is lower will be paid one time to exploration agency | | | | 45,158 | | |
| ix | Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes by DGPS | Nos | 1.6.2 | 19,200 | 14 | 2,68,800 | 14 | 2,68,800 | 9 Boreholes+ 5 Block Boundary points | |
| x | Drill core preservation: One complete borehole plus mineralised cores of all the remaining Bhs | m | 5.3 | 1,590 | 315 | 5,00,850 | 315 | 5,00,850 | This amount will be reimbursed after successful delivery of the cores to concerned libraries/authorities | |
| | Sub Total- D | | | | | | | 40,97,470 | 34,96,520 | |
| E | Total A to D | | | | | | | 96,91,528 | 90,90,578 | |
| F | Geological Report Preparation | | 5.2 | Reconnaissance Survey/ Preliminary exploration/ General exploration/ Detailed 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. | | 4,84,576 | | 4,54,529 | Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET. | |
| G | Peer review Charges | | As per EC decision | | | 30,000 | | 30,000 | | |

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|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------|----------------------------------------------------|--|-------------------------|--|----------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| H | Preparation of Exploration Proposal | 5 Hard copies with a soft copy | 5.1 | 2% of the Cost or Rs. 5.0 Lakhs whichever is lower | | 1,93,831 | | 1,81,812 | EA has to submit the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal. |
| I | Total Estimated Cost without GST | | | | | 1,03,99,935 | | 97,56,919 | |
| J | Provision for GST (18% of I) | | | | | 18,71,988 | | 17,56,245 | GST will be reimburse as per actual and as per notified prescribed rate |
| K | Total Estimated Cost with GST | | | | | 1,22,71,923 | | 1,15,13,164 | |
| | or Say Rs. In Lakhs | | | | | 122.72 | | 115.13 | |
| | | | | | | Change in amount | | (-) 7.59 lakh | 6.18 % de-escalation |
| Note: | | | | | | | | | |
| 1 | If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required. | | | | | | | | |

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Agenda 96.6.3. Preliminary Exploration (G-3) for Aluminous Laterite, Vanadium and Associated Minerals in Kolathur Block, Kasaragod District, Kerala.

[Implementing Agency: MECL]

- a. MECL informed that the project was approved in the 42nd EC Meeting held on 2nd June, 2025. The Sanction Order was issued on 20th June, 2025 with timeline of 12 months (up to 19.07.2026) and approved cost was INR 1,80,99,002/-.
- b. MECL informed the committee that the project was reviewed during 93rd meeting of TCC-1 and drilling plan for 20 BH was approved.
- c. During Phase-I exploration, bauxite and aluminous laterite mineralization has been identified in the block area. Analytical results indicate Al₂O₃ values ranging from 22.73% to 45.93%, Fe₂O₃ from 12.57% to 48.78%, SiO₂ from 12.57% to 32.61%, P₂O₅ from 0.08% to 0.50%, TiO₂ from 0.97% to 2.49%, and LOI from 15.18% to 20.90%. Based on the analytical results, all samples are classified as aluminous laterite (>20% Al₂O₃), while one sample qualifies as bauxitic material (>30% Al₂O₃ and <7% SiO₂).
- d. The agency requested for timeline extension due to delay in the execution of the project and outsourcing of drilling component.
- e. The committee reviewed the progress of work and agreed for extension of timeline upto 31.08.2026.
- f. The committee approved the outsourcing of drilling component and suggested the agency to expedite the work.

Recommendations of TCC-1:

The committee recommended revision of cost of project from Rs. 180.99 lakh to Rs. 177.10 lakh with a change in amount of (-) Rs 3.89 lakhs (~2.15 % de- escalation), for approval of PSC, NMEDT as per Annexure 9.

The committee also recommended timeline extension upto 31st August, 2026 for completion of work and submission of GR for approval of PSC of NMEDT.

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Revised cost for Preliminary Exploration (G-3) for Aluminous Laterite, Vanadium and Associated Minerals in Kolathur Block, Kasaragod District, Kerala

| S. No. | Item of Work | Unit | Rates as per NMET SoC 2020-21 | | Estimated Cost of the Proposal | | Revised Estimated Cost of the Proposal | | Remarks | |
|----------|-----------------------------------------------------------------------------------------------|------|-------------------------------|------------------|--------------------------------|-------------|----------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------|--|
| | | | SoC-Item -SI No. | Rates as per SoC | Qty. | Amount (Rs) | Qty. | Amount (Rs) | | |
| | | | | | | | | | | |
| A | GEOLOGICAL WORK (1:4000 scale) & TOPOGRAPHICAL SURVEY (1:4000 scale) | | | | | | | | | |
| i | Charges for one Geologist- Field | day | 1.3 | 11,000 | 120 | 13,20,000 | 120 | 13,20,000 | | |
| ii | Charges for one Geologist per- HQ | day | 1.3 | 9,000 | 45 | 4,05,000 | 45 | 4,05,000 | | |
| iii | 2 labours/ party (As per rates of Central Labour Commissioner) | day | 5.7 | 526 | 240 | 1,26,240 | 240 | 1,26,240 | Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher. | |
| iv | Sampling party days-1 Samplers Labour charge not included | day | 1.5.2 | 5,100 | 130.00 | 6,63,000 | 130 | 6,63,000 | | |
| v | 4 labours/ party (As per rates of Central Labour Commissioner) | day | 5.7 | 526 | 520 | 2,73,520 | 520 | 2,73,520 | Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher. | |
| vi | Survey Party Days (Geological Mapping, Topographical contour survey and borehole fixation) | day | 1.6. 1a | 8,300 | 40 | 3,32,000 | 40 | 3,32,000 | | |
| vii | 4 labours for surveyor | day | 5.7 | 526 | 160 | 84,160 | 160 | 84,160 | | |
| | Sub Total- A | | | | | | 32,03,920 | | 32,03,920 | |
| B | PITTING AND TRENCHING | | | | | | | | | |
| i | Pitting | Cu m | 2.1.2 | 3800 | 200 | 7,60,000 | 200 | 7,60,000 | | |

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|------------|-----------------------------------------------------------------------------------------|-----|---------|-------|-----|---------------------|-----|-----------|---------------------------|--|
| | | | | | | Sub Total- B | | | | |
| | | | | | | 7,60,000 | | | 7,60,000 | |
| C | LABORATORY STUDIES | | | | | | | | | |
| 1 | Chemical Analysis | | | | | | | | | |
| i | Primary & Check samples for Bauxite BRS/Chip/Channel/Trench/BH samples) | | | | | | | | | |
| | a. Primary Samples for 5 radicals i.e. Al2O3, SiO2, Fe2O3, P2O5, TiO2 & LOI | Nos | 4.1.15a | 4,200 | 500 | 21,00,000 | 500 | 21,00,000 | BH-400, Pit-100 = 500 nos | |
| | b. For each additional trace elements viz. V & Ga | Nos | 4.1.15b | 842 | 400 | 3,36,800 | 400 | 3,36,800 | From BH primary samples | |
| | c.External (10%) Check samples for 5 radicals i.e. Al2O3, SiO2, Fe2O3, P2O5, TiO2 & LOI | Nos | 4.1.15a | 4,200 | 50 | 2,10,000 | 50 | 2,10,000 | | |
| | d. External (10%) Check samples for each additional trace elements viz. V & Ga | Nos | 4.1.15b | 842 | 40 | 33,680 | 40 | 33,680 | | |
| | e. ICPMS - 34 elements | Nos | 4.1.14 | 7,731 | 50 | 3,86,550 | 50 | 3,86,550 | | |
| | | | | | | | | | | |
| 2 | Physical,Petrological, Mineralogical Studies | | | | | | | | | |
| i | Preparation of thin section | Nos | 4.3.1 | 2,353 | 10 | 23,530 | 10 | 23,530 | | |
| ii | Complete petrographic study report | Nos | 4.3.4 | 4,232 | 10 | 42,320 | 10 | 42,320 | | |
| iii | Preparation of polished section | Nos | 4.3.2 | 1,549 | 10 | 15,490 | 10 | 15,490 | | |
| iv | Complete mineragraphic study report | Nos | 4.3.4 | 4,232 | 10 | 42,320 | 10 | 42,320 | | |
| v | Digital Photographs | Nos | 4.3.7 | 280 | 10 | 2,800 | 10 | 2,800 | | |
| vi | X-RD studies for mineral phase identification | Nos | 4.5.1 | 4,000 | 20 | 80,000 | 20 | 80,000 | | |
| vii | ICPMS - 34 elements | Nos | 4.1.14 | 7,731 | - | - | - | - | | |

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| viii | Bulk density determination | Nos | 4.10 | 3540 | 5 | 17,700 | 5 | 17,700 | |
| ix | Combined determination of Trihydrate Alumina (THA-140°C), Monohydrate Alumina (MHA-240°C) & Reactive Silica | Nos | 4.1.17a | 6700 | 5 | 33,500 | 5 | 33,500 | |
| Sub Total- C | | | | | | 33,24,690 | | 33,24,690 | |
| D | DRILLING (OUTSOURCING) | | | | | | | | |
| i | Drilling upto 300m (Soft Rock) (1 rigs) | m | 2.2.1.1b | 7,168 | 600 | 43,00,800 | 600 | 43,00,800 | |
| ii | Land / Crop Compansation | per BH | 5.6 | 20,000 | 20 | 4,00,000 | 20 | 4,00,000 | |
| iii | Construction of concrete Pillar (12"x12"x30") | per borehole | 2.2.7a | 2,000 | 20 | 40,000 | 20 | 40,000 | |
| iv | Transportation of Drill Rig & Truck associated per drill | Km | 2.2.8 | 36 | 3,000 | 1,08,000 | - | - | Certification in this regard is required to be provided |
| v | Monthly 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 | Km | 2.2.10a | 22,020 | 3 | 66,060 | - | - | Road Making will be considered as per the requirement and Road Making Charges will be reimbursed for max. 4 km. |
| | Operational Charges | | 6.0(i) | In case of total outsourced cost up to ₹50 lakh: Cost for outsourced component(s) of project work will be reimbursed as per actuals. In addition, 10 percent of the total outsourced cost will be paid to Exploration Agency towards operational charges. | | | | 4,30,080 | |
| | Tendering Process Cost | | 2.3 | 2% of the approved project cost or 5 lakh whichever is lower will be paid one time to exploration agency | | | | 86,016 | |

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| ix | Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes by DGPS | Nos | 1.6.2 | 19,200 | 26 | 4,99,200 | 26 | 4,99,200 | 20 Boreholes+ 6 Block Boundary points |
| x | Drill core preservation: One complete borehole plus mineralised cores of all the remaining Bhs | m | 5.3 | 1,590 | 600 | 9,54,000 | 600 | 9,54,000 | This amount will be reimbursed after successful delivery of the cores to concerned libraries/authorities |
| | Sub Total- D | | | | | 70,18,060 | | 67,10,096 | |
| E | Total A to D | | | | | 1,43,06,670 | | 1,39,98,706 | |
| F | Geological Report Preparation | | 5.2 | Reconnaissance Survey/ Preliminary exploration/ General exploration/ Detailed 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. | | 7,15,334 | | 6,99,935 | Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET. |
| G | Peer review Charges | | As per EC decision | | | 30,000 | | 30,000 | |
| H | Preparation of Exploration Proposal | 5 Hard copies with a soft copy | 5.1 | 2% of the Cost or Rs. 5.0 Lakhs whichever is lower | | 2,86,133 | | 2,79,974 | EA has to submit the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal. |

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|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------------------|----------------------|-------------------------------------------------------------------------|
| I | Total Estimated Cost without GST | 1,53,38,137 | | 1,50,08,615 | |
| J | Provision for GST (18% of I) | 27,60,865 | | 27,01,551 | GST will be reimburse as per actual and as per notified prescribed rate |
| K | Total Estimated Cost with GST | 1,80,99,002 | | 1,77,10,166 | |
| | or Say Rs. In Lakhs | 180.99 | | 177.10 | |
| | | | Change in amount | (-) 3.89 lakh | 2.15 % de-escalation |
| Note: | | | | | |
| 1 | If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC (2020-21). In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required. | | | | |

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Agenda 96.6.4. Reconnaissance Survey (G-4 stage) for Graphite and Vanadium in Matena-Sirar Area, Almora District, Uttarakhand.

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

- a. Geovale 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 12 months up to 20th August 2025 and approved cost was INR 2,60,45,671/-.
- b. The agency informed that the all the assigned NQT targets of the project have been achieved.
- c. It was further informed that the area is intensely sheared with multiple thrust zones and sub-parallel Late Granite intrusions (~500 Ma), with major thrust planes becoming shallower dipping from north to south.
- d. Bedrock graphite samples collected through 1 m channel sampling show Fixed Carbon (FC) values ranging from 2.1–7.0%, with 41% samples yielding >4% FC, 49% between 2–4% FC, and 10% <2% FC.
- e. Vanadium analysis of graphite-bearing bedrock samples indicates that 6% samples contain >1500 ppm V, 13% contain 1000–1500 ppm V, and 81% contain <1000 ppm V.
- f. Based on the work carried out, the agency has demarcated 5 blocks for further investigation.
- g. The agency informed that Almora block hosts thick (2–20 m) graphite layers with moderately high fixed carbon (2–8% in 1 m sections) and high-order graphite suitable for electronic industry, with some graphite layers also associated with anomalous polymetals (V, Sn, W).
- h. The committee reviewed the work and suggested the agency to identify weighted average of Vanadium zone above cut-off.
- i. It was suggested that the agency define the weighted average of each graphite zone in all five identified promising blocks.
- j. The committee instructed that mineralized zones be delineated based on analytical values and incorporated in the report, along with reconnoitry resource estimation details.
- k. The committee instructed that the Geological Report (GR) should discuss the details and findings of all five identified blocks separately, along with block-wise recommendations.
- l. The agency informed the committee that report has been submitted for peer review.
- m. The committee observed that the report was submitted for peer review without prior review by any TCC of NMEDT and without obtaining prior permission from the committee.
- n. The committee instructed that report should be reviewed only after incorporation of suggestions of the committee.
- o. The committee recommended extension of timeline up to 30.06.2026 for incorporation of TCC suggestions, completion of peer review, and submission of the Geological Report (GR).
- p. The committee instructed that after peer review, the agency shall present the peer reviewer's comments along with compliance before the committee, prior to final submission of GR.

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Recommendations of TCC-1:

The committee recommended timeline extension upto 30th June, 2026 for incorporation of TCC suggestions, completion of peer review, and submission of the Geological Report (GR), for approval of PSC of NMEDT.

Agenda 96.6.5. Preliminary Exploration (G3 Stage) for Gold in Kanivihalli Block, Davangere District, Karnataka State.

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

- a. Geovale informed that the project was approved in the 5th PSC Meeting held on 9th February, 2026. The 1st and 2nd phase of work was approved initially. The Sanction Order was issued on 6th March, 2026 with timeline of 6 months (up to 05.09.2026) and approved cost was INR 1,92,28,450/-.
- b. The agency informed that LSM on 1:12500 scale has been completed for 30 sq. km. 80 samples (Bedrock) have been collected and analysed for Au and the result have yielded highest Au value of 100 ppb.
- c. The agency apprised the committee that the lithounits of the area comprise BIF, ferruginous argillite, meta-argillite, quartz sericite schist, metavolcanics (metabasalt/amphibolite), along with minor quartz veins and intrusive units.
- d. The agency further informed that at present field activities are on hold as Forest Clearance is awaited for trenching and geophysical Survey. 24.5 sq. km out of 30 sq. km is forest covered area.
- e. The agency sought timeline extension for completion of work.
- f. The committee reviewed the progress of work and suggested that the agency plan trenching in areas yielding encouraging Au values and along identified shear zones.
- g. The committee suggested that the agency complete trenching and present the results for review after receipt of analytical results of trench samples.
- h. The committee opined that the decision regarding extension of timeline may be considered during the next review meeting.

Recommendations of TCC-1:

The committee suggested that the agency complete trenching and present the results for review after receipt of analytical results of trench samples.

Agenda 96.6.6. Reconnaissance Survey (G-4 stage) for Basemetal in Thal-Didihat-Askot area, Pithoragarh District, Uttarakhand.

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

- a. Geovale informed that the project was approved by Secretary, Ministry of Mines on 12.03.2024 and the same was ratified in 34th meeting of EC held on 13.03.2024. The Sanction Order was issued on 12th March, 2024 with timeline of 12 months (up to 11.03.2025).
- b. Timeline extension upto 30.06.2025, 31.10.2025 and 31.05.2026 was approved in 7th TCC-II, 43rd EC and 4th PSC meetings respectively.
- c. The agency informed that all the targets have been achieved except for drilling. 517 m of drilling out of assigned target of 600 m has been completed.
- d. Drilling is delayed to rugged terrain. The agency sought timeline extension upto 31.08.2026 for completion of drilling, chemical analysis and report writing and submission.

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- e. The committee reviewed the progress of work and recommended for timeline extension. The committee also instructed the agency to come for review after receipt of chemical results.

Recommendations of TCC-1:

The committee recommended timeline extension upto 31st August, 2026 for approval of PSC of NMEDT. Timeline extension is recommended for completion of drilling, chemical analysis and report writing and submission.

Agenda 96.6.7. Preliminary Exploration (G-3 Stage) for Gold in Chinnikatti Block, Haveri District, Karnataka.

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

- a. The agency informed that the project was approved during 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 10th February, 2025 with timeline of 12 months (up to 09.02.2026) and approved cost was INR 4,69,08,089/-.
- b. Timeline was extended upto 09.05.2026 and 09.08.2026 during 5th and 7th PSC meetings respectively.
- c. The agency presented the progress of work and apprised the committee that targets for geological mapping, geophysical survey and BRS samples have been achieved.
- d. The agency further apprised that F.C has not been given for drilling yet. However, F.C has been obtained for all other works envisaged in the project.
- e. The agency informed that topographic survey has not yet been carried out and requested replacement of the DGPS survey component with Drone Survey, while stating that base points and borehole points would still be demarcated through DGPS survey.
- f. The committee reviewed the proposal and enquired about the delay in execution of pitting and trenching components, when Forest Clearance (FC) for the same had been obtained.
- g. The committee did not agree for Drone Survey as part survey is to be carried out by DGPS. Also the project was approved as per old SoC of NMEDT (2020-21).
- h. The committee also instructed the agency to expedite the work.

Recommendations of TCC-1:

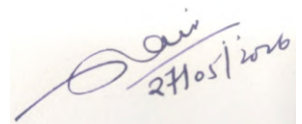
The committee did not approve Drone Survey in place of DGPS Survey. The committee also instructed the agency to expedite the work.

Agenda 96.6.8. Preliminary Exploration (G3) for Bauxite in Kalychochra block, Rayagada district, Odisha.

[Implementing Agency: DMG Odisha]

- a. DGM Odisha informed that the project was approved in the 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 24th February, 2025 with timeline of 12 months (up to 23.02.2026).
- b. The agency apprised the committee about the progress of work and informed that the geological mapping and topographic survey has been completed.
- c. DGM Odisha informed that several administration measures have been undertaken, multiple village level meetings have been conducted, joint field verification by district administration and geological officials have been done for execution of the work. However, despite repeated intervention by the district administration, the issue related to use of the

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- existing approach road remained unresolved due to continued stalemate between the local villagers and the administration.
- d. The proposed drilling programme could not be executed because of the prevailing situation.
 - e. The project incurred an expenditure of approximately ₹ 2,27,945 prior to suspension of activities.
 - f. As per the direction of the Director, DoMG, Odisha vide Letter No. 5059 dated 30.04.2026, the exploration work was temporarily suspended w.e.f. 30.04.2026 pending administrative resolution.
 - g. Based on the prevailing ground realities, complete project targets could not be achieved.
 - h. DGM Odisha requested to down grade the level of exploration from G-3 to G-4 stage and to allow submit the GR of the block at G-4 stage within the approved timeline of 30.06.2026.
 - i. The committee suggested that the geological data generated so far can be used to prepare geological report in compliance with originally approved stage of work

Recommendations of TCC-1:

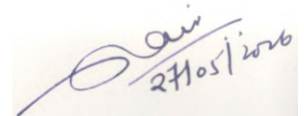
The committee suggested the agency to submit Geological Report for the geological data generated so far within approved timeline of 30.06.2026.

Agenda 96.6.9. Reconnaissance (G-4) for Manganese around Kandhal area of Rairakhol Tahasil of Sambalpur District, Odisha.

[Implementing Agency: DMG Odisha]

- a. DMG, Odisha informed that the project was approved in the 38th EC Meeting held on 29th November, 2024. The sanction order was issued on 13th December, 2024 with timeline of 10 months (up to 12.10.2025) and approved cost was INR 73,94,658/-.
- b. Extension of timeline of project upto 15.12.2025 and 31.03.2026 was approved during 2nd and 4th PSC meetings respectively.
- c. The project was reviewed in 81st and 83rd meeting of TCC-I and the committee was apprised that due to forest clearance issue, drilling could not be completed. The committee had recommended for submission of GR and cost was revised accordingly.
- d. However, PSC in its 3rd meeting deferred the cost revision and timeline extension and was of view that the drilling component of the project may be completed.
- e. The PSC suggested that, in view of the revised norms for forest clearance related to exploration, the agency should re-pursue forest clearance for drilling and make efforts to complete the project.
- f. TCC-I in its 87th meeting, instructed that the agency should re-pursue forest clearance for drilling.
- g. The agency informed that in pursuance of PSC and TCC instructions, the DFO, Rairakhol was requested for according necessary working permission for execution of drilling over the manganese prospect.
- h. In response, the DFO, Rairakhol, stated that the canopy density in the working area is approximately 63.5%, indicating the presence of dense vegetation.
- i. The DFO, Rairakhol, further stated that, from an ecological perspective, Sagamalia RF forms part of an important elephant movement corridor. Any habitat fragmentation due to road construction and associated drilling activities is likely to have adverse impacts, potentially leading to increased human elephant conflict and ecological disturbance.

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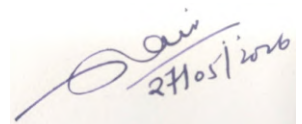
- j. The agency informed that, in light of the above observations from the Forest Department, execution of the drilling component of the project is beyond its scope.
- k. The committee deliberated the issue and agreed to drop the drilling component and associated analysis from approved quantum.
- l. The committee also agreed upon revised cost as recommended during 83rd TCC I meeting. The agency informed that the Geological Report (GR) of the project has been peer reviewed, and the comments/suggestions received from the reviewer have been duly complied with.
- m. In 91st TCC meeting, the committee discussed the comments of peer reviewer and its compliance and agreed for submission of GR.
- n. However, PSC in its 7th meeting held on 27.03.2026, instructed the agency to submit copy of all the correspondences made by agency to competent authority for forest clearance. Till the correspondences are provided to NMEDT, the proposal is deferred.
- o. DMG, Odisha has submitted the copy of all the correspondences made by them to competent authority for forest clearance and requested for closure of the project and submission of final GR.

Recommendations of TCC-1:

The committee agreed to drop the drilling component and associated analysis. The committee also agreed upon submission of GR.

The revised cost of project from Rs. 73.94 lakh to Rs. 30.08 lakh with a change in amount of (-) Rs 43.86 lakhs (~59.32 % de-escalation) as recommended during 83rd TCC-I meeting may be approved by PSC, NMEDT. The cost was revised as per Annexure-10.

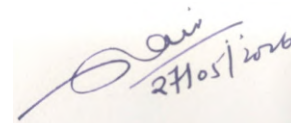
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Revised Cost for Reconnaissance (G-4) for Manganese around Kandhal area of Rairakhol Tahasil of Sambalpur District, Odisha

| Sl. | Item of Work | Unit | Cost Approved by EC | | | | Cost Revised | | | Remarks |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------------------|-------------------------|-----------------|--------------------|-------------------------|-----------------|--------------------|-----------------------------------------------------------------------------------------|
| No. | | | SoC item Sl. No. | Rate as per SoC (in Rs) | Quantum of Work | Total Amount (Rs.) | Rate as per SoC (in Rs) | Quantum of Work | Total Amount (Rs.) | |
| 1 | GEOLOGICAL WORK | | | | | | | | | |
| i) | Charges for One Geologist - Field | per day | 1.3 | 11,000 | 140 | 1540000 | 11,000 | 100 | 1100000 | |
| ii) | Charges for One Geologist - HQ | per day | 1.3 | 9,000 | 30 | 270000 | 9,000 | 30 | 270000 | |
| iii) | Labours (2 Nos.) Base rate- As per rates of state labour commission (Amount will be reimbursed as per notified rates by central labour Commission rates or respective State Govt. Whichever is higher) | per day | 5.7 | 522 | 280 | 146160 | 522 | 200 | 104400 | |
| iv) | Channel sample 52 m (7 channels) | per day | 5.7 | 522 | | | 522 | 26 | 13572 | *A difference of ₹13,572/- has been noted in the approved cost of the project submitted |

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| | | | | | | | | | | | |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--------|--------|----|---------------------|--|--------|----|----------------|---------------------------------------|
| | | | | | | | | | | | by agency during 81 st TCC |
| v) | Charges for one Sampler | per day | 1.5.2 | 5,100 | 17 | 86700 | | 5,100 | 12 | 61200 | |
| vi) | Labours (4 Nos.) Base rate- As per rates of state labour commission. | per day | 5.7 | 522 | 68 | 35496 | | 522 | 48 | 25056 | |
| | (Amount will be reimbursed as per notified rates by central labour Commission rates or respective State Govt. Whichever is higher) | | | | | | | | | | |
| Sub Total-A | | | | | | 207835 6 | | | | 1574228 | |
| 2 | Survey (Outsourcing) | | | | | | | | | | |
| i) | Survey Party days (One Surveyor Charges) | day | 1.6.1a | 8,300 | 0 | 0 | | 8,300 | 0 | 0 | |
| ii) | Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes by DGPS | Per Point of observatio n | 1.6.2 | 19,200 | 4 | 76800 | | 19,200 | 0 | 0 | |
| iii) | Labours (4 Nos) Base Rate- As per rates of state labour commission Rs. 450*4=1800/- | day | 5.7 | 1,800 | 0 | 0 | | 1,800 | 0 | 0 | |
| | (Amount will be reimbursed as per notified rates by central labour Commission rates or respective State Govt. Whichever is higher) | | | | | | | | | | |

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|-------------|---------------------------------------------------------------|---------------|---------|------------|-----|-------------|----------------------------------------|------------|----|----------|--|
| | Sub Total- B | | | | | | 76800 | | | 0 | |
| 3 | DRILLING (Outsourcing) | | | | | | | | | | |
| i) | Core Drilling | per m | 2.2.1.4 | 11,500 | 200 | 230000 0 | (4 BH:- 40- 50m depth) | 11,500 | 0 | 0 | |
| ii | Construction of concrete pillar(12"x12"x30") | Per Bore hole | 2.2.7a | 2,000 | 0 | 0 | | 2,000 | 0 | 0 | |
| iii) | Monthly Accomodation charges for drilling camp (up to 2 rigs) | Per Months | 2.2.9 | 50,000 | 0 | 0 | | 50,000 | 0 | 0 | |
| iv) | Camp setting | Per drill | 2.2.9a | 25000 0 | 0 | 0 | | 25000 0 | 0 | 0 | |
| v) | Camp winding | Per drill | 2.2.9b | 25000 0 | 0 | 0 | | 25000 0 | 0 | 0 | |
| vi) | Approach road making | Per km | 2.2.10b | 32,200 | 0 | 0 | | 32,200 | 0 | 0 | |
| v) | Drill core preservation | Per m | 5.3 | 1,590 | 80 | 127200 | | 1,590 | 0 | 0 | |
| | Sub Total- C | | | | | | 242720 0 | | | 0 | |
| 4 | PITTING | | | | | | | | | | |
| i) | Pitting | Cu.m | 2.1.2 | 3,800 | 40 | 152000 | | 3,800 | 40 | 152000 | |
| ii) | Trenching | Cu.m | 2.1.1 | 3,330 | 40 | 133200 | | 3,330 | 40 | 133200 | |
| | Sub Total-D | | | | | | 285200 | | | 285200 | |
| 5 | LABORATORY STUDIES | | | | | | | | | | |

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| 1 Chemical Analysis | | | | | | | | | | | |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------|----------|-----|---------------|--|-------|----|----------------|--|
| i) | XRF analysis of major oxide for 5 radicals (MnO ₂ , Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , and LOI) | Per Sample | 4.1.15a | 4,200 | 125 | 525000 | | 4,200 | 86 | 361200 | |
| ii) | Check samples Internal for 5 radicals (MnO ₂ , Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , and LOI) | Per Sample | 4.1.15a | 4,200 | 13 | 54600 | | 4,200 | 8 | 33600 | |
| 2 Physical Analysis | | | | | | | | | | | |
| i) | X-RD Studies | Per Sample | 4.5.1 | 4,000 | 5 | 20000 | | 4,000 | 5 | 20000 | |
| ii) | Preparation of thin section | Per Sample | 4.3.1 | 2,353 | 10 | 23530 | | 2,353 | 10 | 23530 | |
| iii) | Petrographic studies | Per Sample | 4.3.4 | 4,232 | 10 | 42320 | | 4,232 | 10 | 42320 | |
| iv) | Preparation of polished section | Per Sample | 4.3.2 | 1,549 | 5 | 7745 | | 1,549 | 5 | 7745 | |
| v) | Bulk density | Per Sample | 4.1 | 3,540 | 2 | 7080 | | 3,540 | 2 | 7080 | |
| Sub Total-E | | | | | | 680275 | | | | 495475 | |
| Total A+B+C+D+E | | | | | | 554783 | | | | 2354903 | |
| Total Outsourced cost | | | | | | 250400 | | | | 0 | |
| F | Tender Preparation, publishing & finalisation | One time | 2.3 | | | 50080 | | | | 0 | |
| G | Operational Charge | | 6 | i | | 250400 | | | | 0 | |

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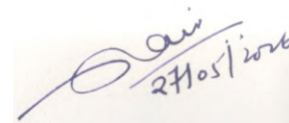
| | | | | | | | | | | | |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------|--|--|----------------|----------------------------|---------------------------------|-------------------|--|--|
| H | Geological Report Preparation | One no.(5 hard copies,) along with soft copy | 5.2 | | | 277392 | | | 117745.15 | | |
| I | Peer Review | | As per EC decision | | | 30000 | | | 30000 | | |
| J | Proposal preparation | | 5.1 | | | 110957 | | | 47098.06 | | |
| | Sub Total (F + G + H +I) | | | | | 718828 | | | 194843.21 | | |
| | TOTAL (A+B+C+D+E+ F + G + H +I+J) | | | | | 6266659 | | | 2549746.21 | | |
| | GST (18%) | | | | | 1127999 | | | 458954.32 | | |
| | Grand Total | | | | | 7394658 | | | 3008700.53 | | |
| | Say in lakh | | | | | 73.94 | | | 30.08 | | |
| | Change in amount | | | | | | (-) Rs. 43.86 lakhs | De-escalation of ~59.32% | | | |
| Note | | | | | | | | | | | |
| 1 | Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21. | | | | | | | | | | |
| 2 | In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement. | | | | | | | | | | |

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| | |
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| 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 portal as per Mineral Exploration Reporting Template (MERT) by the agency. |

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Agenda 96.6.10. Keluamali, District- Kalahandi, Odisha.

[Implementing Agency: OMC Ltd.]

- a. The committee was informed that the project was approved in the 11th EC Meeting held on 11th February, 2019.
- b. During the 66th TCC of NMET held on 24th, 25th & 26th June, 2024 OMC informed that geological mapping, Surface Sampling & chemical analysis has been completed, but, drilling couldn't be initiated due to the local community issues in the area. However, meetings with villagers to resolve the issues are in progress. In view of the above, the TCC recommended time extension of the project upto 30th June 2025 to EC.
- c. OMC informed the committee that the work has not progressed due to strong local agitation.
- d. The project was again discussed in the 78th TCC meeting, wherein the committee instructed OMC to send a formal letter requesting closure of project, citing appropriate reasons.
- e. The committee had instructed OMC to correspond with NMEDT about the status of Keluamali block and also to seek permission either to expedite the exploration or surrender the project, if needed.
- f. OMC has now requested the committee for pre-closure of the project due to strong local agitation and requested for timeline extension upto 30.06.2026 for submission of GR.
- g. OMC has also submitted the documents pertaining to the current status and the chronology of events that took place.
- h. The committee advised OMC to seek the approval of the TCC before sending the report to the Peer Reviewer.

Recommendations of TCC-1:

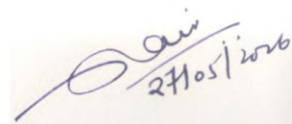
The committee recommended pre-closure of the project due to strong local agitation and recommended timeline extension upto 30.06.2026 for submission of GR. The recommendations are for approval of PSC, NMEDT.

Agenda 96.6.11. Majhingamali, District- Rayagada & Kalahandi, Odisha.

[Implementing Agency: OMC Ltd.]

- a. The committee was informed that the project was approved in the 11th EC Meeting held on 7th February, 2019 with timeline of 12 months.
- b. During the 66th TCC meeting, OMC has ensured that regular liasioning with local villagers & administration will allow for carrying out the job smoothly in the block, therefore, time extension upto 30th June,2025 for completion of the project.
- c. The committee expressed concern over the amount of time lapse between the approval of the project and its execution. However, considering the limitations in carrying out the exploration, recommended for time extension upto 30th June 2025 for completion of the project and GR submission. Further, the committee instructed OMC to submit all the documents pertaining to delay in the project, including the chorological order of events from approval to execution of the project.
- d. OMC has now requested the committee for pre-closure of the project due to strong local agitation and requested for timeline extension upto 30.06.2026 for submission of GR.
- e. OMC has also submitted the documents pertaining to the current status and the chronology of events that took place.
- f. The committee advised OMC to seek the approval of the TCC before sending the report to the Peer Reviewer.

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Recommendations of TCC-1:

The committee recommended pre-closure of the project due to strong local agitation and recommended timeline extension upto 30.06.2026 for submission of GR. The recommendations are for approval of PSC, NMEDT.

Agenda 96.6.12. Preliminary Exploration (G3) for Bauxite in Nittadgi Block, Uttara Kannada district, Karnataka.

[Implementing Agency: M/s PRB Infraprojects Pvt. Ltd.]

- a. The committee was 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 12 months (up to 09.02.2026) and approved cost was Rs. 1,40,64,245/-. Further, timeline extension upto 31.03.2026 was approved in 5th meeting of PSC.
- b. During the 94th TCC meeting, the agency apprised the committee that the project was reviewed in 93rd meeting of TCC-I, wherein the agency was advised to bring all the correspondences made in regard with forest clearance with competent authorities for further discussion.
- c. The agency further informed the committee that Forest Clearance permission was denied by PCCF as the area lies in the ESZ. The project cannot be executed further.
- d. The agency presented all communications made with the competent authorities — namely the Forest Department and DMG — arranged in chronological order.
- e. The committee was informed that the agency has carried out DGPS survey for marking the area before submission of application of forest clearance.
- f. The committee agreed that the project may be pre-closed. However, regarding the payment of expenditure incurred, they have to communicate to NMEDT secretariat.
- g. The committee kept the revision of cost sheet in abeyance and suggested that the matter will be discussed in upcoming TCC meeting.

Recommendations of TCC-1:

The committee kept the decision regarding revision of cost sheet and pre-closure in abeyance and instructed agency to come again in forthcoming TCC.

Agenda 96.6.13. Preliminary Exploration for Limestone in Indroi-Mandor block, Gir Somnath District, Gujarat.

[Implementing Agency: CGM Gujarat]

- a. The committee was informed that the project was approved in the 42nd EC Meeting held on 2nd June, 2025. The Sanction Order was issued on 26th June, 2025 with timeline of 08 months and review after 4 months. The Scheduled date of completion was 25.02.2026.
- b. However, CGM, Gujarat has come for review after completion of the project.
- c. CGM, Gujarat requested for timeline extension upto 31st July, 2026 for submission of GR.
- d. The committee expressed its displeasure over the project not being reviewed periodically and advised CGM, Gujarat to submit the report to NMEDT for assignment of a Peer Reviewer. The committee further advised CGM, Gujarat to present the project for review after incorporating the suggestions of the Peer Reviewer and before submission of the final GR.

Recommendations of TCC-1:

The committee recommended timeline extension upto 31.07.2026 for approval of PSC, NMEDT for completion of work and submission of GR.

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Agenda 96.6.14. Preliminary Exploration for Limestone in Harnasa-Umbri block, Gir Somnath District, Gujarat.

[Implementing Agency: CGM Gujarat]

- a. The committee was informed that the project was approved in the 42nd EC Meeting held on 2nd June, 2025. The Sanction Order was issued on 26th June, 2025 with timeline of 08 months and review after 4 months. The Scheduled date of completion was 25.02.2026.
- b. However, CGM, Gujarat has come for review for the first time and after completion of the project.
- c. CGM, Gujarat requested for timeline extension upto 31st July, 2026 for submission of GR.
- d. The committee expressed its displeasure over the project not being reviewed periodically and advised CGM, Gujarat to submit the report to NMEDT for assignment of a Peer Reviewer. The committee further advised CGM, Gujarat to present the project for review after incorporating the suggestions of the Peer Reviewer and before submission of the final GR.

Recommendations of TCC-1:

The committee recommended timeline extension upto 31.07.2026 for approval of PSC, NMEDT for completion of work and submission of GR.

Agenda 96.6.15. Preliminary Exploration for Limestone in Govindpara-Savni Block, Gir Somnath District, Gujarat.

[Implementing Agency: CGM Gujarat]

- a. The committee was informed that the project was approved in the 42nd EC Meeting held on 2nd June, 2025. The Sanction Order was issued on 26th June, 2025 with timeline of 06 months and review after 3 months. The Scheduled date of completion was 25.12.2025.
- b. However, CGM, Gujarat has come for review for the first time and after completion of the project.
- c. CGM, Gujarat requested for timeline extension upto 31st July, 2026 for submission of GR.
- d. The committee expressed its displeasure over the project not being reviewed periodically and advised CGM, Gujarat to submit the report to NMEDT for assignment of a Peer Reviewer. The committee further advised CGM, Gujarat to present the project for review after incorporating the suggestions of the Peer Reviewer and before submission of the final GR.

Recommendations of TCC-1:

The committee recommended timeline extension upto 31.07.2026 for approval of PSC, NMEDT for completion of work and submission of GR.

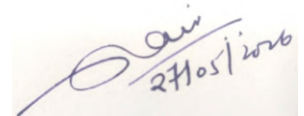
Additional Agenda

Agenda 96.6.16. Preliminary Exploration (G-3) for Bauxite, Vanadium, Gallium and associated minerals around Pendhri village (Pendhri Block), Sindhudurg District, Maharashtra.

[Implementing Agency: Geomarine Solutions Pvt. Ltd.]

- a. The committee was informed that the project was sanctioned during 43rd EC Meeting held on 14th August, 2025. The Sanction Order was issued on 4th September, 2025 with timeline of 12 months (up to 03.09.2026) and approved cost was INR 2,26,33,992/-.

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- b. The project was reviewed during 89th meeting of TCC-I, wherein the agency had requested for pre-closure of project owing to strong local agitation. The agency apprised that the work has been stopped since 28.11.2025. The committee had reserved its decision on pre-closure and suggested the agency to submit all communications made in this regard to NMEDT.
- c. Accordingly, the agency had submitted all the relevant correspondence to NMEDT secretariat and again requested for pre-closure of project in the 92nd TCC meeting.
- d. Representative from DGM, Maharashtra present in the meeting during 92nd TCC stated that they have written letter to Secretary, Mining Ministry, Maharashtra for resolving the issue. He also stated to hold the decision of pre-closure, till the reply from Secretary is received.
- e. The committee advised DGM, Maharashtra to submit a self-contained note along with the latest correspondences made in this regard to NMEDT Secretariat within 15 days. The Committee kept its decision, on pre-closure, in abeyance until receipt of the correspondence from DGM, Maharashtra.

Recommendations of TCC-1:

The Committee deferred its decision on pre-closure until receipt of the correspondence from DGM, Maharashtra.

Agenda 96.6.17. Preliminary Exploration (G3) for Bauxite, Vanadium, Gallium and associated minerals around Patgaon and Somlewadi villages (Patgaon Block), Sindhudurg district, Maharashtra.

[Implementing Agency: Geomarine Solutions Pvt. Ltd.]

- a. The committee was informed that the project was approved during 43rd EC Meeting held on 14th August, 2025. The Sanction Order was issued on 4th September, 2025 with timeline of 12 months (up to 03.09.2026) and approved cost was INR 2,28,15,398/-.
- b. The project was reviewed during 89th meeting of TCC-I, wherein the agency had requested for pre-closure of project owing to strong local agitation. The agency apprised that the work has been stopped since 28.11.2025. The committee had reserved its decision on pre-closure and suggested the agency to submit all communications made in this regard to NMEDT.
- c. Accordingly, the agency had submitted all the relevant correspondence to NMEDT secretariat and again requested for pre-closure of project.
- d. Representative from DGM, Maharashtra present in the meeting during 92nd TCC stated that they have written letter to Secretary, Mining Ministry, Maharashtra for resolving the issue. He also stated to hold the decision of pre-closure, till the reply from Secretary is received.
- e. The agency informed that topographic survey has been completed.
- f. The committee advised DGM, Maharashtra to submit a self-contained note along with the latest correspondences made in this regard to NMEDT Secretariat within 15 days. The Committee kept its decision, on pre-closure, in abeyance until receipt of the correspondence from DGM, Maharashtra.

Recommendations of TCC-1:

The Committee deferred its decision on pre-closure until receipt of the correspondence from DGM, Maharashtra. The project to be reviewed after 15 days.

Agenda 96.6.18. Preliminary Exploration (G3) for Ni, Co, PGE and REE/Associated Minerals in JC Pura Mafic-Ultramafic Schist Belt Near Rampura and Gollarahatti (RG) Block, Hassan District, Karnataka

[Implementing Agency: Geoexpore Pvt. Ltd.]

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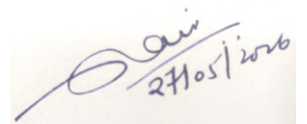
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- a. The committee was informed that the project was approved in the 29th EC Meeting held on 31st March, 2023. The Sanction Order was issued on 17th April, 2023 with timeline of 10 months (i.e up to 16.02.2024) and approved cost was INR 82,87,108/-.
- b. TCC in its 84th meeting has recommended surrender of project owing to intense local agitation. The recommendation was deferred in 3rd meeting of PSC with an instruction to the agency to submit a certificate issued from State DMG that the work could not be completed due to local agitation.
- c. The committee in 93rd TCC meeting instructed the agency to comply with the instructions of PSC and recommended timeline extension upto 30.04.2026 for regularizing the project and submitting the certificate sought by PSC.
- d. The timeline of the project was extended upto 30.04.2026 during 8th meeting of PSC.
- e. DGM, Karnataka has submitted documents confirming the intense local agitation.
- f. The agency sought timeline extension upto 30.06.2026 for final GR submission.
- g. The committee reviewed the project and agreed for pre-closure of the project. Timeline extension upto 30.06.2026 is also recommended for submission of GR.

Recommendations of TCC-1:

The committee recommended pre-closure of project due to intense local agitation and timeline extension upto 30.06.2026 for approval of PSC, NMEDT. The timeline extension is recommended for final submission of GR.

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Annexure 11

**List of participants who attended the 96th Meeting of Technical-cum-cost Committee (TCC-I)
of NMEDT held on 11th, 12th and 13th May 2026 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. M. Mohan | Dy. Director General (Retd.), GSI | mariappan.mohan@gmail.com | 9423686547 | Member TCC-1 |
| 4 | Shri. K. Koteswara Rao | Dy. Director General (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 | Shri A. R. Mukundhan | Regional Director, AMD, South Central Region | mukuagaram@rediffmail.com | 6303606347 | Member TCC-1 |
| 7 | Dr. E.V.S.S.K. Babu | Scientist (G), NGRI | evsskbabu@ngri.res.in | 9441535852 | Member TCC-1 |
| 8 | Sh. S K Adhikari | Chief Mining Geologist, IBM, Nagpur | skadhikari@ibm.gov.in | 7588690545 | Member TCC-1 |
| 9 | Smt. Vandana | Cost Accounts Officer, RSAS, Bangalore, GSI | vandana@gsi.in | 8660939235 | Member TCC-1 |
| 10 | Shri S Dhanendran | Director, GSITI & Member Secretary, TCC-I | s.dhanendran@gsi.gov.in | 9944882204 | Member Secretary TCC-1 |
| 11 | Shri. Lalit Mohan Singh Maura | Deputy Director General & RMH-II, GSI, WR | l.s.maura@gsi.gov.in | 9461666503 | Geological Survey of India, Western Region, Jaipur. |
| 12 | Dr. Gopal Singh Darmwal | Director | gopal.darmwal@gsi.gov.in | 8290815571 | Geological Survey of India, Western Region, Jaipur. |
| 13 | Mr. Shailendra N Singh Thakur | Geophysicist | shailendra.n.thakur@gsi.gov.in | 9123359630 | Geological Survey of India, Western Region, Jaipur. |
| 14 | Smt. Parvathy R Krishnan | Director, PSS8, CHQ | dir.mon8@gsi.gov.in | 9959399640 | Geological Survey of India, CHQ, Kolkata |
| 15 | Shri. Binusharma P.E | Senior Geologist, PSS8, CHQ | dir.mon8@gsi.gov.in | 7597464364 | Geological Survey of India, CHQ, Kolkata |
| 16 | Dr. B. P. K Patro | Scientist-G | patro.ngri@csir.res.in | 8985417644 | CSIR-NGRI, Hyderabad |
| 17 | Dr. Biswajit Mandal | Scientist-F | bmandal.ngri@csir.res.in | 7569764219 | CSIR-NGRI, Hyderabad |
| 18 | Shri Bharat Chandra Sahoo | CGM (Geo) | bharat.sahoo@odishamining.in | 9438887784 | Odisha Mining Corporation Ltd. |
| 19 | Shri Pinaki Mallick | GM (Geo) | pinaki.mallick@odishamining.in | 9238087064 | Odisha Mining Corporation Ltd. |
| 20 | Shri Tripati Narayan Panigrahi | DGM (Geo) | tripati.panigrahi@odishamining.in | 7008831604 | Odisha Mining Corporation Ltd. |

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|----|----------------------------------------------------------------------|-----------------------------------|-----------------------------------------|-------------|--------------------------------------------------------|
| 21 | Smt. Shibani Mahanta | Sr. Manager (Geo) | smahanta@odishamining.in | 9437637292 | Odisha Mining Corporation Ltd. |
| 22 | Shri P Madhusudhan Reddy | Joint Director | dmgtg-mines@telangana.gov.in | 9849679826 | Dept. of Mines & Geology, Govt. of Telangana. |
| 23 | Shri S Swamy Krishnaji Rao | Deputy Director | dmgtg-mines@telangana.gov.in | 9866633414 | Dept. of Mines & Geology, Govt. of Telangana. |
| 24 | Moulipriya Bhakta | Dy. Manager | moulipriya.bhakta@maheshwar ee.com | | MMPL Pvt Ltd |
| 25 | Shravya Mehta | Geologist | shravya.mehta@maheshwaree.i n | | MMPL Pvt Ltd |
| 26 | Subhajit Chakraborty | Geologist | subhajit.chakraborty@maheshw aree.in | | MMPL Pvt Ltd |
| 27 | Dr. Tanwita Deb | Sr. Project Manager (Exploration) | tanwita.deb@geovale.com | 6297064373 | Geovale Service Pvt. Ltd., Kolkata |
| 28 | Dr. Suparna Goswami | Sr. Project Manager (Exploration) | suparna.goswami@geovale.com | 9874320018 | Geovale Service Pvt. Ltd., Kolkata |
| 29 | Dr. Thanmaya B.M. | Geologist | mail@geomarinesolutions.in | 89512 60309 | Geo Marine Solutions Pvt. Ltd. |
| 30 | shri Piyush shah | Director, Technical | ad-tech-cgm@gujarat.gov.in | | Commissioner of Geology & mining, Gandhinagar, Gujarat |
| 31 | Mr. Prem Babu | Technical Area Expert (Geology) | prembabu_singh@yahoo.com | 9422477401 | PRB Infraprojects Pvt. Ltd. |
| 32 | Mr. Milind Dhakate | Project co-ordinator | milindhakate@gmail.com | 7085622980 | PRB Infraprojects Pvt. Ltd. |
| 33 | Mr. Rajib Deb | Chief Geologist | rajib.deb@tatasteel.com | 9238005230 | Natural Resources Division-Tata Steel Ltd. |
| 34 | Mr. Sangeeth Gopi | Principal Geologist | sangeeth@tatasteel.com | 7763807661 | Natural Resources Division-Tata Steel Ltd. |
| 35 | Dr P. C. Mishra | Joint Director Geology | pcmishra66@rediffmail.com | 9861465695 | Directorate of Mine & Geology, Odisha |
| 36 | Ramesh Behera | Geologist | | | Directorate of Mines & Geology, Odisha |
| 37 | Representatives from MECL | | | | |
| 38 | Representatives from M/s Unised Research Consultants Private Limited | | | | |
| 39 | Representatives from GMMCO Technology Services Ltd. | | | | |
| 40 | Representatives from GEMS Project Pvt. Ltd. | | | | |
| 41 | Representatives from FAGMIL | | | | |
| 42 | Representatives from DMM West Bengal | | | | |
| 43 | Representatives from DMG Karnataka | | | | |
| 44 | Representatives from M/s Kundan Concentrates Private Limited | | | | |
| 45 | Representatives from M/s Mining Tech Consultancy Services Limited | | | | |
| 46 | Representatives from DGM Rajasthan | | | | |
| 47 | Representatives from DGM Maharashtra | | | | |
| 48 | Ms. Bishakha | Senior Geologist | sr.geologist1-nmet@gov.in | 8126541605 | NMEDT |
| 49 | Smt. Palak Kapoor | Senior Geologist | sr.geologist4-nmet@gov.in | 8851742488 | NMEDT |

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Signature
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S. No 27.05.26.

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