

Ministry of Mines
National Mineral Exploration Trust
Minutes of 10th meeting of Technical-cum-Cost Committee - II (TCC - II)
held on 23rd, 24th & 25th June 2025

The 10th meeting of Technical-cum-Cost Committee – II (TCC - II) of National Mineral Exploration Trust (NMET) was held through video conferencing under the Chairmanship of Shri Pradeep Singh, Deputy Director General (DDG), Geological Survey of India (GSI) and Chairman, TCC-II, NMET on 23rd, 24th & 25th June 2025.

Members of TCC-II, NMET and representatives from Mineral Exploration and Consultancy Limited (MECL), Jharkhand Exploration and Mining Corporation Limited (JEMCL), DGM Assam, DMR Meghalaya, DMG Rajasthan, M/s Gemcokati Exploration Private Limited, M/s Maheshwari Mining Pvt. Ltd. (MMPL), M/s Geovale Services Private Limited, M/s APC Drilling & Construction Private Limited, M/s Eartnenviro Lab Private Limited, M/s Enkay Enviro Services Private Limited, M/s Envirogreen Consultants (India) Private Limited, M/s Gems Projects Private Limited, M/s Geomarine Solutions Private Limited, M/s Ocean Drilling and Exploration Private Limited, M/s Vardan Environet LLP. etc. have attended the meeting through video conferencing mode.

The list of participants is at Annexure-I.

Shri Pradeep Singh, Chairman, TCC-II, NMET extended a warm welcome to all TCC-II members and every participant representing various Notified Exploration Agencies (NEAs) and Notified Private Exploration Agencies (NPEAs). In his opening remarks, Shri Pradeep Singh informed that obtaining consent from respective State Governments is essential before proceeding with proposals for limestone or iron ore exploration.

Agenda 10.1 Technical Evaluation of New Project Proposals

Agenda 10.1.1 Preliminary Exploration (G3) for REE and associated mineralization in Ludrada Block (6.50 sq. km), Siwana Ring Complex, Balotra District, Rajasthan

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

- a) The proposed exploration block of 6.50 sq. km. area, falls in Survey of India Toposheet numbers 45C/06 and 465C/10 in parts of Balotra district, Rajasthan.
- b) MECL informed that the block is part of the Indrana–Siwana area, characterized by the Neoproterozoic Siwana Ring Complex (SRC), composed of peralkaline rocks viz. rhyolite, granite, and late-phase microgranite-felsite dykes. The region hosts bimodal volcanics and REE-bearing minerals, specifically monazite, xenotime, and allanite, identified via petrography and EPMA within both granitic and volcanic units. Elevated $\Sigma\text{REE}+\text{Y}$ values and other trace elements suggest a late to post magmatic metasomatic or hydrothermal REE mineralization event, indicative of a widespread, robust REE rich system. During the G4 exploration stage, 60 bedrock samples were collected. $\Sigma\text{REE}+\text{Y}$ values ranged from 621.10 ppm to 6049.69 ppm (mean = 2112.81 ppm, SD = 1194.64 ppm). Of these, 20 samples exceeded the mean, 9 exceeded mean + 1 SD (2710.13 ppm), and 6 exceeded mean + 2 SD (3904.77 ppm). Three channels (CH-6, CH-7, CH-8) were sampled on the outcrop, yielding 13 specimens. $\Sigma\text{REE}+\text{Y}$ values in dykes ranged from 476.25 ppm to 6216.72 ppm. In



- granites, $\Sigma\text{REE}+\text{Y}$ ranged between 1184.94 ppm and 2732.70 ppm (average: 1894.69 ppm).
- c) Comments from Atomic Mineral Division (AMD) were still pending at the time of the meeting.
 - d) DMG Rajasthan representative informed that reply is awaited from the concerned ME of the area and then DMG will provide the comments on the proposed area.
 - e) The TCC-II opined that AMD's comment is crucial for the proposed block, given the known occurrence of atomic minerals, particularly within the Siwana Ring Complex. NMET will remind AMD to provide comment on this proposed exploration block.

Recommendations of TCC-II

The committee does not recommend the proposal for approval of EC. AMD's comment / consent is required.

Agenda 10.1.2 Preliminary Exploration (G3) for REE and associated minerals in Bhimghoda Ka Pahar Block (14.72 sq. km), Balotra District, Rajasthan [Implementing Agency: Mineral Exploration and Consultancy Limited (MECL)]

- a) MECL presented the proposal for the exploration block of 9.1 sq. km. area, which falls in Survey of India Toposheet numbers 45C/6 in parts of Balotra district, Rajasthan.
- b) MECL informed that the Neoproterozoic Siwana Ring Complex (SRC) in the Indrana-Siwana region, part of the Malani Igneous Suite, comprises peralkaline rocks including granite, rhyolite, microgranite, and felsite dykes, with bimodal volcanics. The proposed block in the Siwana Central Region mainly contains rhyolite, basic intrusions, and Siwana granite, known for hosting REEs. GSI conducted G-4 exploration over 115 sq.km in 2014-15 and recommended further assessment for REE mineralization. Total 115 bedrock samples were collected from the Siwana Central Region by GSI. Analysis of 55 grab samples from rhyolite at Bhimghoda ka Pahar showed $\Sigma\text{REE}+\text{Y}$ values ranging from 215.86ppm to 4938.30ppm, while 22 tuff samples from the same area yielded $\Sigma\text{REE}+\text{Y}$ values between 129.92ppm and 3793.72ppm. In 13 nos. of channel samples taken across rhyolite flow in Bhimgoda ka pahar area, the Range of $\Sigma\text{REE}+\text{Y}$ varies between 1813.06-7338.68 ppm, which strongly supports REE mineralization in the area. In the Siwana Central block, five $\Sigma\text{REE}+\text{Y}$ anomalous zones were identified through geochemical mapping. Notable peaks include >3000 ppm (southeast) and >1800 ppm (north) of Bhimgoda temple, with another >2200 ppm at the western edge. Dacitic and rhyolitic flows show $\Sigma\text{REE}+\text{Y}$ >1500 ppm, and rhyolite dykes exceed 2500 ppm, indicating strong REE enrichment.
- c) Comments from Atomic Mineral Division (AMD) were still pending at the time of the meeting.
- d) The TCC-II opined that AMD's comment is crucial for the proposed block, given the known occurrence of atomic minerals, particularly within the Siwana Ring Complex. NMET will remind AMD to provide comment on this proposed exploration block. The TCC-II further recommended revising the proposed borehole plan for the hilly section of the block and emphasized the need for a field visit by the agency (MECL) to implement these modifications. The committee also advised for composite sample collection to analyse and optimize the beneficiation process.

Recommendations of TCC-II

The committee does not recommend the proposal for approval of EC. AMD's comment / consent is required.

Additional Agenda

Agenda 10.1 Technical Evaluation of New Project Proposals (Contd.)

Agenda 10.1.3 Reconnaissance Survey (G4) for Potash in Ramsara–Amarkot–Dalmir Khera area, Fazilka District, Punjab

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

- a) The proposed exploration block of 10.30 sq. km. area, falls in Survey of India Toposheet number 44J/4 in parts of Fazilka district, Punjab. In-principle-Approval has been granted for this project by TCC-II in its 9th meeting held on 29th & 30th May 2025.
- b) Ocean Drilling and Exploration Private Limited informed that GSI conducted drilling in two boreholes, HP-1 and HP-2, during the field season (FS) 1981-84 in adjacent areas to the proposed block. One borehole, PMQB-01, was also drilled in FS 2018-19. During FS 2019-21, GSI drilled three scout boreholes - PFSBH-01, PFSBH-02, and PFSBH-03, at approximately 10 km spacing. In FS 2022-23 and 2023-24, five more scout boreholes PFSBH-04 to PFSBH-08 were drilled at roughly 4 km spacing in a grid pattern within the Shergarh-Dalmirkhera block, Fazilka district, Punjab. Based on data from two boreholes (PFSBH-01 and PFSBH-03), a resource of 194.58 million tonnes has been estimated at a 4% K⁺ cut-off, with an average grade of 4.69% K⁺. Based on five scout boreholes PFSBH-04, PFSBH-05, PFSBH-06, PFSBH-07 and PFSBH-08 Potash resource of 202.45 million tonnes with average grade of 3.42% K (4.11% K2O) at 2% cut-off, 22.86 million tonnes with average grade of 6.96% K (8.37 % K2O) at 5% cut-off and 4.86 million tonnes with average grade of 10.13%K (12.19% K2O) at 8% cut-off.
- c) Based on the earlier work, drilling of 07 nos. of vertical borehole on grid pattern of 1600m x 1600m to fill the gap area with average borehole depth of 850m was proposed by the Implementing Agency.

Recommendations of TCC-II

The committee recommends the proposal for approval of EC for “Reconnaissance survey for Potash & Halite in Ramsara -Amarkot -Dalmir- Khera area in Fazilka District, Punjab” with an estimated cost of ₹ 1,049.40 Lakh (including GST) within the time schedule of 10 Months and submission of the report as per Annexures 2A & 2B. The item will be reviewed after 5 months. Total 5950 meterage of drilling will be done in 7 boreholes, with average depth of 850m.

10.2 Review of Ongoing Projects/ Completed Projects & Timeline Extension

Agenda 10.2.1 Preliminary Exploration (G3) of Coal in West of Urdhan Jamunia block, Pench Kanhan Tawa Valley Coal Field, Madhya Pradesh

[Implementing Agency: Central Mine Planning & Design Institute Limited (CMPDI)]

Progress of the project was not presented by the Implementing Agency.

Agenda 10.2.2 Preliminary Exploration (G3) for Copper and Associated Minerals in Thakurdih Area-1 Block (4.10 sq. km), East Singhbhum District, Jharkhand.

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

- a) MECL informed that the project was recommended by 63rd TCC meeting of NMET held on 22nd, 26th and 27th March, 2024. It was approved by 35th EC of NMET held on 16th May 2024 and the same was intimated to MECL vide MoM letter No. F.NO.23/454/2024-NMET/80 dated 20th May, 2024.
- b) Further, it was briefed by MECL that the exploration work comprising of Detailed Geological Mapping (1:2000 scale) over 4.10 sq.km area, Surface sampling (BR), Trenching work & Exploratory Drilling work of 2,200m in 17 Bhs {Phase-I: 7 Bhs (789m) & Phase-II: 10 Bhs (1411m)} to prove strike & depth continuity of mineralized zones, have been completed. The outcome of Phase-I & Phase-II work were reviewed during 1st TCC-II meeting of NMET on 27th Sep, 2024 & in 8th TCC-II meeting of NMET on 27th May, 2025. Copper Ore Resource were estimated at 0.2%, 0.5% and 1.0% Cu cut-offs separately considering minimum stopping width (M.S.W) & Non ore parting of 3.0m & Sp. Gravity 3.0. At 0.2% Cu cut-off, total 4.43 million tonnes net resource with an average grade of 0.38% Cu; at 0.5% Cu cut-off, total 0.96 million tonnes with average grade of 0.73% Cu and at 1.0% Cu cut-off, total 0.13 million tonnes with average grade of 1.23% Cu resources were estimated. Total 4 Zones indicated Σ REE+Y+Sc Values range from 1105.30ppm to 4654.36 ppm values in granite, contact zones of schist and granite and 11 Zones indicated 101.48ppm Co to 288.03 ppm Co. & one Zone 1300ppm Co (over 4.00m).
- c) The TCC-II opined that final review of the Geological Report will be taken in next TCC-II meeting after incorporation of Peer Review comments.

Recommendations of TCC-II

The final review of Geological Report will be taken in the next TCC-II meeting after incorporation of Peer Reviewer comments.

Agenda 10.2.3 Reconnaissance Survey (G4) for Glauconite in Mudhan Khatiya Block (129.00 sq. km), Kachchh District, Gujarat

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

- a) MECL informed that Mudhan Khatiya Block was recommended in 68th Meeting of TCC of NMET in August 2024 and was approved by 37th EC meeting of NMET on 23rd September 2024 with approved cost of ₹161.65 Lakh (including GST) within the time schedule of 10 Months (up to 21st August 2025).
- b) MECL further informed that Geological mapping on 1:12,500 scale is under progress in the remaining 11 sq. km area. Collections of remaining 100 samples are in progress. Analysis of remaining samples are in under progress. Based on the results of geological mapping and geochemical sampling, pitting is carried out in the identified mineral potential zones. Based on lithological and structural data, glauconite-bearing

horizons are persistent at depth. Consequently, 17 scout boreholes are planned on an approximately 1,600 m grid, with drilling of approved total meterage of 500 m.

- c) As per the review comments of 9th meeting of TCC-II, NMET, true thickness of Glauconitic Sandstone has been calculated by MECL.
- d) The TCC-II agreed for drilling in 17 scout boreholes at 1600m grid spacing with total drilling meterage of 500m. The committee also advised for REE analysis of 20 samples.

Recommendations of TCC-II

The committee recommends the proposal for approval of EC for “additional analysis of 20 samples for REE”. The revised cost sheet is to be provided in the next review of the project. Total 500 meterage of drilling will be done in 17 Bore holes.

Agenda 10.2.4 Reconnaissance Survey (G4) for Iron, Manganese and associated minerals in Jauli Sailwara Block (33.80 sq. km), Jabalpur District, Madhya Pradesh

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

Progress of the project was not presented by the Implementing Agency. The agency informed that analytical results are awaited for this project.

Agenda 10.2.5 Preliminary Exploration (G3) for Glauconite Sandstone in Deulha Block (8.5 sq. km), Satna District, Madhya Pradesh

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

- a) MECL informed that the project was approved by 35th EC of NMET held on 16th May 2024 with approved cost of ₹105.18 Lakh (including GST) within the time schedule of 09 Months (up to 03rd March, 2025).
- b) Further, it was informed by MECL that Geological Mapping in 8.5 sq.km area on 1:4000 scale has been completed. Drilling work was delayed as 60% of the boreholes are falling in forest area and Forest Clearance (FC) was required to start the drilling. FC and Vehicle movement approval was received in June 2025. Therefore, timeline extension up to September, 2025 has been requested by MECL.
- c) The TCC-II agreed for recommendation of the project for timeline extension of 7 months up to 30th September, 2025.

Recommendations of TCC-II

The committee recommends the proposal for approval of EC for “timeline extension of 7 months up to 30th September 2025” for completion of the project.

Agenda 10.2.6 Preliminary Exploration (G3) for Glauconite Sandstone in Jhari Block (5.1 sq. km), Satna District, Madhya Pradesh

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

- a) MECL informed that the project was approved by 35th EC of NMET held on 16th May 2024 with approved cost of ₹72.41 Lakh (including GST) within the time schedule of 09 Months (up to 03rd March, 2025)

- b) MECL further briefed that Geological Mapping of 5.1 sq.km area on 1:4000 scale has been completed. Drilling work was delayed as all the boreholes are falling in forest area and Forest Clearance (FC) was required to start the drilling. FC and Vehicle movement approval was received in June 2025. Therefore, timeline extension up to September 2025 has been requested by MECL.
- c) The TCC-II agreed for recommendation of the project for timeline extension of 7 months up to 30th September 2025.

Recommendations of TCC-II

The committee recommends the proposal for approval of EC for “timeline extension of 7 months up to 30th September 2025” for completion of the project.

Agenda 10.2.7 Preliminary Exploration (G3) for Bauxite, Titanium and associated minerals in Anvrapat Block (1.00 sq. km), Lohardaga District, Jharkhand [Implementing Agency: Mineral Exploration and Consultancy Limited (MECL)]

- a) MECL informed that the project was recommended in 68th Meeting of TCC of NMET in 28th, 29th and 30th August, 2024 & it was approved by 37th EC of NMET held on 23rd September 2024 with approved cost of ₹175.63 Lakh (including GST) within the time schedule of 08 Months (up to 22.06.2025)
- b) MECL further briefed that Geological Mapping of 1.0 sq.km area on 1:2000 scale has been completed. Drilling work was commenced on 24th January 2025 & so far 447m drilling has been completed in 14 Boreholes. at the time pf presentation drilling in two boreholes was under progress. Therefore, timeline extension up to September 2025 has been requested by MECL.
- c) The TCC-II agreed for recommendation of the project for timeline extension of 3.5 months up to 30th September 2025.

Recommendations of TCC-II

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

Agenda 10.2.8 Reconnaissance Survey (G4) for Manganese and associated minerals in Katori Jhiriya Block (140.22 sq. km), Balaghat District, Madhya Pradesh [Implementing Agency: Mineral Exploration and Consultancy Limited (MECL)]

- a) MECL informed that Katori-Jhiria block discussed and recommended in 47th TCC (NMET) meeting on 28th and 29th November, 2022 and approved in 27th EC meeting on 10.01.2023 with approved cost of ₹167.81 Lakh (including GST) within the time schedule of 14 Months (up to 02.04.2024). Progress of the project was reviewed 03 times in 58th & 66th TCC and 2nd TCC-II meetings for technical and others aspects. Timeline extended upto 02.10.2024 (recommended by 66th TCC and approved by 36th EC) and 31.03.2025 (recommended by 2nd TCC-II and approved by 38th EC).
- b) MECL further briefed that as per approved quantum, 500 meters in 9 boreholes are to be drilled. So far, a total of 92 meters drilling has been completed. Therefore, timeline extension up to 30th October 2025 has been requested by MECL to complete drilling, analysis and report writing including time for peer review.

- c) The TCC-II agreed for recommendation of the project for timeline extension of 7 months up to 30th October 2025.

Recommendations of TCC-II

The committee recommends the proposal for approval of EC for “timeline extension of 7 months up to 30th October 2025” for completion of the project.

Agenda 10.2.9 Reconnaissance (G4) for Gold in Jojobera-Ulihurang Block, Arki Block, Khunti District, Jharkhand

[Implementing Agency: Jharkhand Exploration and Mining Corporation Limited (JEMCL)]

- a) JEMCL informed that the block was discussed and recommended in 3rd meeting of TCC-II, NMET, in 5th and 6th December, 2024 and approved in 39th EC meeting in 24.01.2025 with approved cost of ₹113.00 Lakh (including GST) within the time schedule of 10 Months (up to 23.12.2025).
- b) JEMCL requested for Drone based Survey in place of DGPS survey in this project.
- c) The TCC-II informed that the process of revision of SoC, NMET, is underway & cost of Drone based Survey will be included in the revised SoC, NMET. Presently DGPS survey should be started by the JEMCL at the earliest.

Recommendations of TCC-II

The committee advised the implementing agency to continue the survey with DGPS.

Agenda 10.2.10 Reconnaissance Survey (G4) for Gold in Hurungdah-Tamar Ranchi-Arki-Khunti-Kuchai area, Saraikela-Kharsawan District, Jharkhand

[Implementing Agency: Jharkhand Exploration and Mining Corporation Limited (JEMCL)]

- a) JEMCL informed that the block was discussed and recommended in 6th meeting of TCC-II, NMET, in 27th, 28th February & 6th March 2025 and approved in 41st EC meeting held on 11.03.2025 with approved cost of ₹215.52 Lakh (including GST) within the time schedule of 10 Months (up to 18.01.2026).
- b) The project was not reviewed due to minimal progress and the absence of analytical data.

Recommendations of TCC-II

The project will be reviewed after significant progress and receipt of analytical results.

Agenda 10.2.11 Preliminary Exploration (G3) for Bauxite, Titanium, and Associated Minerals Harhapat block, Gumla, Jharkhand

[Implementing Agency: Jharkhand Exploration and Mining Corporation Limited (JEMCL)]

- a) JEMCL informed that the block was discussed and recommended in 67th meeting of TCC, held on 24th, 25th and 26th July 2024 and approved in 37th EC meeting in 23rd

September 2024 with approved cost of ₹73.86 Lakh (including GST) within the time schedule of 10 Months (up to 27.08.2025).

- b) JEMCL presented the progress of the project work and informed that geological mapping has been done in the block. As advised by TCC-II in 8th meeting, geological map has been prepared with topographic contours and structural data.
- c) The TCC-II agreed for commencement of drilling in 8 boreholes at 400m x 400m spacing, with average depth of 25m. One borehole can be drilled up to parent rock. The committee also advised inclusion of geomorphological features in the map.

Recommendations of TCC-II

The committee agreed for commencement of drilling in 8 boreholes at 400m x 400m spacing, with average depth of 25m.

Agenda 10.2.12 Reconnaissance Survey (G4) for PGE, Gold & REE in Maneri-Sitapala Block, Balaghat District, MP

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

- a) M/s Gemcokati Exploration Private Limited informed that the project was recommended in 55th meeting of TCC held on 23rd August 2023. The project was approved in the 31st EC Meeting held on 12th September 2023. The OM was issued on 5th October 2023 with timeline of 08 months (up to 04.06.2024) and approved cost of INR 64.92/- Lakh. The project was given time extension till 31.07.2024 (2 months), 31.12.2024 (5 months), 31.03.2025 (03 months) and 30.06.2025 (03 months) by 64th TCC, 37th EC, 39th EC and 41st EC respectively.
- b) Further, Gemcokati Exploration Pvt. Ltd. briefed that peer review of final geological report has been done and all the comments/suggestions of peer reviewer were incorporated in the final geological report. The committee advised to submit the final geological report by 30th June 2025.
- c) The TCC-II agreed for submission of final geological report to NMET.

Recommendations of TCC-II

The committee agreed for GR submission after attending the Peer Reviewer suggestions by 30th June 2025 to NMET.

Agenda 10.2.13 Reconnaissance Survey (G4) for PGE, Vanadium & associated minerals in Bhursadongari - Murum Block (100 Sq Km), Balaghat District, Madhya Pradesh

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

- a) M/s Gemcokati Exploration Private Limited informed that the project was recommended in 62nd meeting of TCC held on 28, 29 February & 1st March 2024. The project was approved in the 34th EC Meeting held on 12th March 2024. The OM was issued on 12th March 2024 with timeline of 06 months (up to 11.09.2024) and approved cost of ₹61.01/- Lakh. Time extension till 31.12.2024 (3.5 months), 31.03.2025 (3 months) and till 30.06.2025 (3 months) was approved by 37th, 39th and 41st EC meetings respectively.

- b) Further, it was briefed by Gemcokati Exploration Pvt. Ltd. that peer review of the final geological report is underway. The agency requested for time extension of 2 months up to 31st August 2025 for submission of final geological report.
- c) The TCC-II opined that the final geological report will be reviewed in next TCC-II meeting after incorporation of peer review comments.

Recommendations of TCC-II

The committee recommends the proposal for approval of EC for timeline extension of 2 months up to 31st August 2025 for submission of final geological report to NMET. Final geological report will be reviewed in next TCC-II meeting after incorporation of peer review comments.

Agenda 10.2.14 Reconnaissance Survey (G4) for Graphite in Ranibandh Area, Bankura, West Bengal

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

- a) M/s Maheshwari Mining Pvt. Ltd. (MMPL) informed that the block was approved in 34th EC meeting held on 12th March 2024. Sanction order was received by the MMPL on 12th March 2024 with approved cost ₹143.36/- Lakhs and timeline of 10 months (up to 11.01.2025). The time schedule was extended till 11.04.2025 (3 months) in 4th TCC meeting-II. It was further extended to 10.07.2025 (3 months) in 42nd EC meeting.
- b) MMPL also informed that petrochemical results are still awaited from laboratory. Final geological report is ready and will be sent to Peer Reviewer once petrochemical data is received. The agency requested for time extension up to 31st August 2025 for submission of final geological report.
- c) The TCC-II opined that the final geological report will be reviewed in next TCC-II meeting after incorporation of peer review comments.

Recommendations of TCC-II

The committee recommends the proposal for approval of EC for timeline extension up to 31st August 2025 for submission of final geological report to NMET. Final geological report will be reviewed in next TCC-II meeting after incorporation of peer review comments.

Agenda 10.2.15 Reconnaissance Survey (G4) for Glauconite in Dhamni-Piparwasi-Simliya Area, Sheopur, Madhya Pradesh

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

- a) M/s Maheshwari Mining Pvt. Ltd. (MMPL) informed that the project was approved in the 66th TCC Meeting held on 24th, 25th and 26th June, 2024. The OM was issued on 21st August, 2024 with timeline of 12 months (up to 20.08.2025) and approved cost was ₹1,06,22,030/-.
- b) MMPL also informed that final geological report has been prepared, it will be submitted for peer review soon. The agency requested for time extension of 3 months up to 20th November 2025 for submission of final geological report.
- c) The committee suggested to carry out the modal analysis of potash minerals and ascertain mineral phase for potash content. It was also suggested to mention the maturity of glauconite and the stratigraphic horizon.

- d) MMPL presented the lithium concentrations ranged from **10 ppm to 60 ppm** in most samples, with a few isolated values reaching up to **383.9 ppm**. The committee advised to identify the mineral containing lithium.
- e) The TCC-II agreed for time extension of 3 months up to 20th November 2025 for submission of final geological report.

Recommendations of TCC-II

The committee recommended to carry out the modal analysis of potash minerals and ascertain mineral phase for potash content. The committee approves time extension of 3 months up to 20th November 2025 for submission of final geological report.

Agenda 10.2.16 Preliminary Exploration (G3) for Iron Ore in Bamuri Block, Sidhi, Madhya Pradesh

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

- a) M/s Maheshwari Mining Pvt. Ltd. (MMPL) informed that the project was recommended in the 2nd TCC-II Meeting held on 22nd and 23rd October, 2024 and approved in the 38th EC meeting held on 29th November 2024. The OM was issued on 06.01.2025 with timeline of 12 months (up to 05.01.2026) and approved cost was ₹286.61/- Lakhs.
- b) MMPL also informed detailed geological mapping on 1:4000 scale of 2.50 sq. km area along with topographical survey has been completed. Magnetic survey and trenching work are in progress. Analysis for major oxides and trace elements of 200 samples (168 channel samples & 38 BRS) has been done. Analysis for Au by Fire Assay has also been done for 20 samples.
- c) The TCC-II advised mapping of BIF, BHQ & BHJ bands. Trenching should be done wherever these lithounits are not exposed. Magnetic survey to be carried out in the gap areas as per the approved spacing. Drilling can be started in Level-I in 6 boreholes. Placement of Level-II Boreholes (3 nos.) will be decided by the committee after getting results of geophysical survey & trench samples.

Recommendations of TCC-II

The committee advised mapping of BIF, BHQ & BHJ bands. Level-I drilling shall commence in 6 boreholes. The project may be reviewed in August 2025, after receipt of geophysical and trenching results.

Agenda 10.2.17 Preliminary Exploration (G3) for Iron Ore in Amhawa Block, Sidhi, Madhya Pradesh

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

- a) M/s Maheshwari Mining Pvt. Ltd. (MMPL) informed that the project was recommended in the 4th TCC-II Meeting held on 26th and 27th December, 2024 and approved in the 39th EC meeting held on 24th January 2025. The OM was issued on 10.02.2025 with timeline of 12 months (up to 09.02.2026) and approved cost was ₹397.47/- Lakhs.
- b) MMPL also informed detailed geological mapping on 1:4000 scale of 2.39 sq. km area along with topographical survey has been completed. BRS & channel samples have been collected. Work on trenching and drilling has not commenced in this block. The

agency proposed inclusion of geophysical survey (magnetic method) in the quantum of work because of the presence of BMQ bands in the exploration block.

- c) The TCC-II advised for completion of the trenching work, based on which boreholes will be planned. The committee also agreed for addition of geophysical survey (magnetic method) in the quantum of work.

Recommendations of TCC-II

The committee recommends the proposal for approval of EC for “addition of geophysical survey (magnetic method)” with total revised cost of ₹408.65 Lakh as per Annexure 3.

Agenda 10.2.18 Proposal for Reconnaissance Survey (G4) for Mailar Base Metal - Gold Prospect Block in Mailar area, Lalitpur district, Uttar Pradesh

[Implementing Agency: M/s Geovale Services Private Limited]

- a) M/s Geovale Services Pvt. Ltd. informed that the project was approved in the 34th EC Meeting held on 13th March, 2024. The sanction order was issued on 12th March, 2024 with timeline of 12 months (up to 11.03.2025) and approved cost was ₹2,40,95,250/-. Timeline was extended up to 11th June 2025 in 7th TCC-II meeting held on 24th and 25th March, 2025.
- b) Geovale Services Pvt. Ltd. further briefed about the status of progress of work in this project. Geological mapping has been completed in the block. Total 681m drilling in 3 boreholes have been done & drilling is continuing in 4th borehole. The agency requested for additional drilling meterage of 20m. Borehole sample results show highest Cu value of 980ppm. The agency also requested for time extension of 4 months up to 31st October 2025 for submission of final geological report.
- c) The TCC-II opined that additional drilling in the block is not required due to unpromising chemical analysis results. The committee agreed for time extension of 4 months up to 31st October 2025. Justification for delay in project completion timeline to be submitted to NMET by the agency.

Recommendations of TCC-II

The committee recommends the proposal for approval of EC for “timeline extension of 4 months up to 31st October 2025” for submission of final geological report.

Agenda 10.2.19 Reconnaissance Survey (G4) for Basemetal in Thal Didihat- Askot region, Pithoragarh district, Uttarakhand

[Implementing Agency: M/s Geovale Services Private Limited]

- a) M/s Geovale Services Pvt. Ltd. informed that the project was approved in the 34th EC Meeting held on 13th March, 2024. The sanction order was issued on 12th March, 2024 with timeline of 12 months (up to 11.03.2025) and approved cost was ₹1,37,47,000/-. Timeline was extended up to 11th June 2025 in 7th TCC-II meeting held on 24th and 25th March, 2025.
- b) Geovale Services Pvt. Ltd. further briefed about the status of progress of work in the project. Vertical electrical sounding in 30 LKM has been done. the agency has requested to drop the IP survey due to difficult terrain conditions & proposed enhancement in quantum of Magnetic Survey. The agency also requested for time

extension of 4.5 months up to 31st October 2025 for submission of final geological report.

- c) The TCC-II agreed to drop the IP survey in this project. The committee opined that the rocks are well exposed in the survey area, so more magnetic survey is not required. Results of Vertical electrical sounding will be adequate to plan the boreholes. The committee agreed for time extension of 4.5 months up to 31st October 2025. Justification for delay in project completion timeline to be submitted to NMET by the agency.

Recommendations of TCC-II

The committee recommends the proposal for approval of EC for “timeline extension of 4.5 months up to 31st October 2025” for submission of final geological report.

Agenda 10.2.20 Reconnaissance Survey (G4) for REE Exploration in Bhuj Clay Prospect Block, Kachchh District, Gujarat

[Implementing Agency: M/s Geovale Services Private Limited]

- a) M/s Geovale Services Private Limited informed that the project was approved in the 31st EC Meeting held on 12th September, 2023. The sanction order was issued on 05th October, 2023 with timeline of 12 months (up to 4.10.2024) and approved cost was ₹1,22,27,994/-. Timeline was modified to 18 months (upto 4.4.2025) due to additional drilling approved in 3rd TCC-II meeting. Timeline was extended for 9 months up to 30th June 2025 in 6th TCC-II meeting and 41st EC meeting held on 11.03.2025.
- b) Geovale Services Pvt. Ltd. further briefed about the status of progress of work in the project. Geophysical survey work has been completed while drilling and core sampling is in progress. The agency also requested for time extension of 4 months up to 31st October 2025 for submission of final geological report.
- c) The TCC-II agreed for time extension of 4 months up to 31st October 2025. Justification for delay in project completion timeline to be submitted to NMET by the agency.

Recommendations of TCC-II

The committee recommends the proposal for approval of EC for “timeline extension of 4 months up to 31st October 2025” for submission of final geological report.

Agenda 10.2.21 Reconnaissance Survey (G4) for Basemetal in Thal Didihat- Askot region, Pithoragarh district, Uttarakhand

[Implementing Agency: M/s Geovale Services Private Limited]

Already discussed in Agenda 10.2.19.

Agenda 10.2.22 Reconnaissance (G4) survey for Limestone in Dillai area, Karbi Anglong districts, Assam

[Implementing Agency: DGM, Assam]

- a) The project was recommended in 64th TCC meeting held on 25th, 29th and 30th April, 2024 and approved in the 35th EC meeting held on 16.05.2024 with timeline of 12 months (up to 09/06/2025) and approved cost was ₹348/- Lakhs.
- b) DGM, Assam informed that geological mapping on 1:12,500 scale of 24.00 sq. km area has been completed. Pitting & trenching in pending. Average value of CaO is 39.40%.

Further, the agency requested for time extension of 7 months up to 31st March 2026 for completion of the project.

- c) The TCC-II advised to establish the dimension of target lithology for borehole planning. Justification for delay in project completion timeline to be submitted to NMET by the agency.

Recommendations of TCC-II

The committee advised to establish the dimension of target lithology for borehole planning. The project will be reviewed in next TCC-II meeting.

Agenda 10.2.23 Reconnaissance (G4) survey for limestone in Sheelveta area (25 sq.km.), Karbi Anglong district, Assam

[Implementing Agency: DGM, Assam]

- a) The project was recommended in 65th TCC meeting held on 28th, 30th and 31st May 2024 and approved in the 36th EC meeting held on 29.07.2024 with timeline of 12 months (up to 28.08.2025) and approved cost was ₹267.53/- Lakhs.
- b) DGM, Assam informed that geological mapping on 1:12,500 scale of 25.00 sq. km area has been completed along with Pitting & trenching. Value of CaO ranges from 26.23% to 47.56%.
- c) The TCC-II noted that in the presented map limestone body & most of the sample points are falling outside the demarcated block. In view of this it has been decided by the committee that the project will be reviewed in next TCC-II meeting. The committee suggested verification of boundaries of the block & inclusion of structural data in the geological map.

Recommendations of TCC-II

The committee advised verification of boundaries of the block & inclusion of structural data in the geological map. The project will be reviewed in next TCC-II meeting.

Agenda 10.2.24 Reconnaissance survey (G4) for limestone in Longplaidisa area (25 sq.km.), Dima Hasao district, Assam

[Implementing Agency: DGM, Assam]

- a) The project was recommended in 65th TCC meeting held on 28th, 30th and 31st May 2024 and approved in the 36th EC meeting held on 29.07.2024 with timeline of 12 months (up to 28/08/2025) and approved cost was ₹307.58/- Lakh.
- b) DGM, Assam informed that geological mapping on 1:12,500 scale of 25.00 sq. km area has been completed along with Pitting & trenching. Value of CaO ranges from 27.63% to 45%. Drilling is pending in this project. Further, the agency requested for time extension of 7 months up to 31st March 2026 for completion of the project.
- c) The TCC-II advised that agency should present the interpreted geological map for borehole planning. Geological map with cross sections to be presented in next review. Also, classification of limestone has to be done in this project. The committee decided that the project will be reviewed in next TCC-II meeting.

Recommendations of TCC-II

The committee advised preparation of interpreted geological map with cross sections and classification of limestone. The project will be reviewed in next TCC-II meeting.

Agenda 10.2.25 Reconnaissance survey (G4) for limestone in Dikurumetron area (20 sq.km.), Upper Deopani of Karbi Anglong district, Assam

[Implementing Agency: DGM, Assam]

- a) The project was recommended in 65th TCC meeting held on 28th, 30th and 31st May 2024 and approved in the 36th EC meeting held on 29.07.2024 with timeline of 12 months (up to 28/08/2025) and approved cost was ₹221.54/- Lakh.
- b) DGM, Assam informed that geological mapping on 1:12,500 scale of 20.00 sq. km area has been completed along with Pitting & trenching. Value of CaO ranges from 19.66% to 47.28%. Drilling is pending in this project. Further, the agency requested for time extension of 7 months up to 31st March 2026 for completion of the project.
- c) The TCC-II advised that the agency should finalise/complete the geological map. The committee decided that the project will be reviewed in next TCC-II meeting.

Recommendations of TCC-II

The committee advised finalization of geological map. The project will be reviewed in next TCC-II meeting.

Agenda 10.3 Review of Ongoing Procurement Projects & Timeline Extensions

Agenda 10.3.1 Financial Assistance from NMET funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities

[Implementing Agency: DGM, Assam]

- a) DGM, Assam informed about the status of 2 (two) procurement projects.
In Project 1, approved cost was ₹1,07,00,000.00. First instalment of ₹ 42,80,000.00 (i. e. 40%) was released on 30/05/2024. One DGPS set has been procured through GeM & cost incurred was ₹15.80 Lakhs. Procurement of Handheld XRF within approved cost of ₹60.00 Lakhs is under progress.
In Project 2, approved cost was ₹4,03,64,950.00. First instalment of ₹ 1,61,45,980.00 (i. e. 40%) was released on 3/04/2023. Procured items are listed below

Sl. No.	Items	Approved rate (₹ in Lakhs)	Cost incurred (₹ in Lakhs)
1	GIS software	₹25.00 lakhs	₹23.92 lakhs
2	Handheld GPS	₹6.00 lakhs	₹6.00 lakhs
3	Brunton compass	₹60 thousands	₹35.40 thousands
4	Total Station	₹5.00 lakhs	₹4.95 lakhs
5	Hot Plates (with stirrer)	₹40 thousands	₹39.98 thousands
Total			₹35.62 lakhs

- b) The TCC-II asked for submission of justification for delay in project completion timeline to NMET by the agency. Also, utilisation report for procured instruments to be submitted to NMET.

Recommendations of TCC-II

The committee recommended time extension of 4 months for Project 1 upto 30th September' 2025 and for Project 2, the time extension of 6 months upto 30th September' 2025 subject to receipt of proper justification from DGM, Assam.

Agenda 10.4: Cost Evaluation of New Project proposals

The recommendations of the TCC-II of NMET for cost evaluation of new proposals and revised cost of ongoing projects are included in the recommendation of respective agenda.

Agenda 10.5: Project Evaluation for In-Principle Approval

**Agenda 10.5.1 Reconnaissance Survey (G4) for Phosphorite and associated minerals around Baskati-paniha area, District Sidhi, Madhya Pradesh
[Implementing Agency: M/s APC Drilling & Construction Private Limited]**

- a) The proposed exploration block of 18.90 sq. km. area, falls in Survey of India Toposheet number 63H/15 in parts of Sidhi District, Madhya Pradesh.
- b) APC Drilling & Construction Private Limited informed that based on BRS & channel samples, GSI has estimated the resource of 85,800 metric tonnes with average P2O5 1.90% around Baskati-Paniha area.
- c) As per the comments received from GSI, the proposed block is completely overlapping with the already explored block of GSI in G4 stage of exploration (FS 2005-06) for Phosphorite.
- d) The TCC-II noted that the area has already been explored by GSI for Phosphorite.

Recommendations of TCC-II

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

Note: Agenda items 10.5.2 to 10.5.9 were not deliberated upon and have been deferred until the requisite comments or consent are received from the respective State Governments.

**Agenda 10.5.10 Reconnaissance Survey (G4) for PGE and REE, Rongpi area, District Karbi Anglong, Assam
[Implementing Agency: M/s Eartnenviro Lab Private Limited]**

- a) The proposed exploration block of 121.00 sq. km. area, falls in Survey of India Toposheet number 83F/8 & 83F/12 in parts of East Karbi Anglong, Assam.

- b) M/s Eartnenviro Lab Private Limited informed that the block has been proposed on the basis of study of Mineral Map and Lithology Map of Assam. On the basis of this study Porphyritic Granite may be the host rock for PGE and REE.
- c) As per the comments received from GSI, the proposed block is overlapping (\approx 4 sq. km.) with the already explored block of GSI in G4 stage of exploration.
- d) The TCC-II noted that previous works conducted by GSI in this area indicates that there are no promising concentrations of REEs present.

Recommendations of TCC-II

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

Agenda 10.5.11 Reconnaissance Survey (G4) for REE, Base Metal, Graphite and associated mineralization in Nanda-Nishana-Guradiya area, District Betul, Madhya Pradesh

[Implementing Agency: M/s Enkay Enviro Services Private Limited]

- a) The proposed exploration block of 49.05 sq. km. area, falls in Survey of India Toposheet number 55G/9 in parts of Betul district, Madhya Pradesh.
- b) M/s Enkay Enviro Services Private Limited informed that previously the area has been explored by GSI for Tungsten in different field seasons. NGCM in toposheet 55G/13, revealed anomalies in Au (up to 107 ppb), Ag (1200 ppm), Sn (54 ppm), W (37 ppm), Cd (490 ppm), Pb (307 ppm), and V (771 ppm). NGPM data from the same area showed medium to low Bouguer gravity anomalies.
- c) As per the comments received from GSI, there is a complete overlap of the proposed block with already explored G4 block of GSI. Analytical results from GSI report do not indicate any significant values for REEs and base metals.

Recommendations of TCC-II

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

Agenda 10.5.12 Reconnaissance Survey (G4) for Pb, Zn, Ag, Au, Cu, Ni, Cr & REE in of Rishavdev area, District Udaipur, Rajasthan

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

- a) The proposed exploration block of 38.6 sq. km. area, falls in Survey of India Toposheet number 45H/12 & 45H/16 in parts of Udaipur District, Rajasthan.
- b) M/s Envirogreen Consultants (India) Private Limited informed that the proposal was made on the basis of study reports of GSI undertaken in and around surrounding areas.
- c) As per the comments received from GSI, there is slight overlap of the proposed block with ongoing project of GSI in FS 2025-26.
- d) DMG Rajasthan informed that the proposed area falls in Aravali Status.

Recommendations of TCC-II

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

Agenda 10.5.13 Reconnaissance survey (G4) of Zirconium, RM-REE and associated minerals in Ganghar-Sagobandh area (60.70 Sq.Km.), District Sonbhadra, Uttar Pradesh

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

- a) The proposed exploration block of 60.70 sq. km. area, falls in Survey of India Toposheet number 63P/4 in parts of Sonbhadra District, Uttar Pradesh.
- b) M/s Gems Projects Private Limited informed that NGCM data shows anomalous zone for Zirconium having maximum values of 1135.00 ppm. GSI had carried out G4 exploration in the adjacent area of proposed block where good potential zones for Zirconium, REE and RM have been identified in Dudhi Gneissic Complex. The proposed block lies to the eastern extension having similar geological setup suitable for hosting Zirconium REE and Rare metal mineralization.
- c) As per the comments received from AMD, part of the proposed area is under active exploration for U by AMD.

Recommendation of TCC-II

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

Agenda 10.5.14 Preliminary Exploration (G3) for the assessment of Gold & associated minerals in Bahardhari block, District East Singhbhum, Jharkhand

[Implementing Agency: M/s Geo Marine Solutions Private Limited]

- a) The proposed exploration block of 5.38 sq. km. area, falls in Survey of India Toposheet number 73J/2 in parts of East Singhbhum District, Jharkhand.
- b) M/s Geo Marine Solutions Private Limited informed that GSI in 2020 has reported gold values ranging from 0.31 to 0.07 ppm. Also, stream sediment samples from the surrounding Bahar Dari hill area yielded gold values between 0.02 and 0.39 ppm. GSI has also done a G3 stage investigation in the Bhitari Dari area involved drilling six inclined boreholes (up to 210m deep) to assess resource potential (Das et al., 2018). Mineralization was found in four boreholes within tuffaceous phyllite/phyllite, with disseminated sulphides (pyrite, chalcopyrite, arsenopyrite, pyrrhotite). A highly mineralized zone (18 cm) in Borehole JEB-1 yielded Au values up to 13.7 ppm. Au values across boreholes were JEB-2: 0.2 to 1 ppm; JEB-3: 0.2 to 2.4 ppm; JEB-6: 0.2 to 2.2 ppm.
- c) As per the comments from DGM Jharkhand the proposed block has an overlap with the DGM Jharkhand's exploration block.
- d) Comments from GSI in proper format awaited.

Recommendations of TCC-II

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

Agenda 10.5.15 Preliminary Exploration (G3) for Graphite, Vanadium, and associated minerals in Deed & Dem-II area, District Lower Subansiri, Arunachal Pradesh

[Implementing Agency: M/s Geo Marine Solutions Private Limited]

- a) The proposed exploration block of 3.5 sq. km. area, falls in Survey of India Toposheet number 83E/10 in parts of Lower Subansiri District, Arunachal Pradesh.

- b) M/s Geo Marine Solutions Private Limited informed that the proposed block is to the north and east of the successfully auctioned Radhpu Vanadium-Graphite block. Field visit was conducted by Geo Marine Solutions and 2 samples were collected from the proposed block, one each from the two bands returned values of 6.76% and 27.88% FC and 0.53% & 0.07% V2O5.
- c) As per the comments received from GSI, there is an overlap of the proposed block with GSI's G3 block and auctioned block.
- d) The TCC-II suggested exclusion of the overlapping part from the proposal.

Recommendation of TCC-II:

The committee agrees for in-principle-approval of the proposal with revised block boundary.

Agenda 10.5.16 Preliminary Exploration (G3) for Graphite, Vanadium, and associated minerals in Ekhataya block, District Lower Subansiri, Arunachal Pradesh

[Implementing Agency: M/s Geo Marine Solutions Private Limited]

- a) The proposed exploration block of 4.5 sq. km. area, falls in Survey of India Toposheet number 83E/10 in parts of Lower Subansiri District, Arunachal Pradesh.
- b) M/s Geo Marine Solutions Private Limited informed that the proposed block is located between the successfully auctioned Radhpu Vanadium-Graphite block to the north and Kugitago-Miya G3 Block of GSI (FS 2023-24). The Vanadium – Graphite-bearing Carbonaceous phyllite band is seen occurring almost continuously for about 8km in this region, starting from GSI FSP 2023-24 block in the south, through the presently proposed block in the central part through the Auctioned Block of Radhpu and extends further northwards in to the Geo Marine proposed Deed-Dem-II Block where it has been sampled.
- c) There are no negative comments from GSI & State DGM for the proposed block.
- d) The TCC-II suggested modification in block boundary as per the dip direction of the target lithology.

Recommendations of TCC-II

The committee agrees for in-principle-approval of the proposal with modified block boundary.

Agenda 10.5.17 Preliminary Exploration (G3) for Rare Earth Elements and associated mineralization in North of Kuship Block, District Barmer, Rajasthan

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

- a) The proposed exploration block of 2.296 sq. km. area, falls in Survey of India Toposheet number 45C/6 in parts of Barmer District, Rajasthan.
- b) M/s Ocean Drilling and Exploration Private Limited informed that the proposed block is based on the recommendation and encouraging result of TREE + Y values found in North of Kuship area. The analytical results of BRS and channel samples in proposed area show TREE + Y values ranging from 525.13ppm to 4590ppm in rhyolitic flow no. 25 to 32 rhyolite and later felsic dykes.
- c) Comments from DMG Rajasthan were pending at the time of this meeting.

Recommendations of TCC-II

The committee agrees for in-principle-approval of the project subject to consent from DMG Rajasthan.

Agenda 10.5.18 Preliminary Exploration (G3) for Tungsten, Vanadium and associated mineralization in Redana Block, District Barmer, Rajasthan.

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

- a) The proposed exploration block of 6.75 sq. km. area, falls in Survey of India Toposheet number 40K/13 & 40O/1 in parts of Barmer District, Rajasthan.
- b) M/s Ocean Drilling and Exploration Private Limited informed that GSI has carried out reconnaissance investigation (G4) during field season 2017-18 in Redana area for REE and rare metals. The Redana block is being proposed for G-3 level of exploration to establish the surface and subsurface potentiality of mineralization based anomalous value of tungsten and vanadium in bed rock samples. The analytical results of BRS samples in proposed area show encouraging values of tungsten ranging from 39.92 ppm to 1057 ppm later felsic dykes and granite. Vanadium values range from 654 to 853 ppm in basic dykes exposed in the proposed block.
- c) The TCC-II opined that the values of Tungsten & Vanadium are not sufficient for taking up a G3 stage of exploration. The committee advised channel sampling by the implementing agency itself in support of a G3 stage exploration proposal.

Recommendations of TCC-II

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

Agenda 10.5.19 Reconnaissance survey (G4) of REE, RM & associated mineral in Nongthraw-Umthlong-Mawsaw area, Seinduli pluton, District West Khasi Hill, Meghalaya

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

- a) The proposed exploration block of 45 sq. km. area, falls in Survey of India Toposheet number 78O/01 and 78O/02 in parts of West Khasi Hill District, Meghalaya & Kamrup District, Assam.
- b) M/s Ocean Drilling and Exploration Private Limited informed that During FS 2022-23, a G4 reconnaissance survey in the Seinduli Pluton (West Khasi Hills, Meghalaya) identified significant anomalous values of Tungsten (213-820 ppm), REEs (1245-2651 ppm + 144-353 ppm Y), and Scandium (218-528 ppm) from bedrock, soil, stream sediment, and pit samples. The mineralization is concentrated in the northern and northeastern parts of the block. Unexplored but geologically continuous extensions suggest further potential for REE, Sc, and W mineralization.
- c) As per the comments received from GSI, there is an overlap of $\approx 9\%$ area of the proposed block with GSI's exploration block.
- d) The TCC-II noted that there is no information presented on the geology of the proposed block. Few sample analysis by the implementing agency itself was also suggested by the committee. Fresh proposal with geological information & supporting analytical results may be submitted again to NMET.

Recommendations of TCC-II

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

Agenda 10.5.20 Reconnaissance Survey (G4) for Graphite and associated mineralisation in Phandka-Ghatkhera area, District Betul, Madhya Pradesh

[Implementing Agency: M/s Vardan Environet LLP]

- a) The proposed exploration block of 27.58 sq. km. area, falls in Survey of India Toposheet number 55J/4 in parts of Betul District, Madhya Pradesh.
- b) M/s Vardan Environet LLP informed that the proposed block lies in the strike continuity of the Explored block Rathipur-Bhopali by Geological survey of India where three bands of graphite mineralisation of 1.2 km, 2.0 km and 300 m have been established. This is important to note that the band Number One of the Rathipur block which has a strike length of 1.2 km is continuing up to the NE boundary of the GSI explored Rathipur block, hence a very high chance of the same being continuous in the proposed block exists as the same geological set up exists in the proposed area. The same Geological milieu is continuing in the adjacent area; hence the possibility of existing graphite mineralisation exists in the proposed block. The nature of the host; which is supra-crystals occur as lensoid enclaves within the Betul granite gneisses and the older gneisses hence always there are possibilities of the enclaves of supra crystals exists in the other areas.
- c) As per the comments from received from GSI, small part of proposed area is overlapping with GSI's exploration block.
- d) The TCC-II advised exclusion of overlapping part from the proposal.

Recommendations of TCC-II

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



**List of participants attended 10th meeting of Technical-cum-cost Committee (TCC-II) of
NMET held on 23rd, 24th & 25th June, 2025 through video conferencing mode**

S.no	Name	Designation	Email ID	Contact No	Organization
1	Shri. Pradeep Singh	Dy. Director General, GSI, Kolkata	ddg.it@gsi.gov.in	9810233957	Chairman, TCC -II
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5	Shri. Dilip Kanungo	Chief Ore Dressing officer, IBM	codo@ibm.gov.in	8237047897 9405147897	Member TCC-II
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62	Representative				CMPDI
63	Representative				M/s Geovale Services Private Limited
64	Representative				Envirogreen Consultants (India) Private Limited

65	Representative				Gems Projects Private Limited
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Estimated Cost for Reconnaissance survey for Potash & Halite in Ramsara -Amarkot -Dalmir- Khera area in Fazilka District, Punjab
Area: 10.30 sq.km, Scale:12,500, Drilling 5950: , BH: 7, Depth : 850
(Schedule timeline: 10 months
Review: After 05 Months)

Implementing Agencies - M/s Ocean Drilling and Exploration Private Limited

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	
A	Geological Mapping Other Geological Work & Surveying						
1	a. Charges for Geologist per day (Field) for geological mapping, drilling work, core logging & sample marking	day	1.2, 1.5.1a	11,000	180	19,80,000	
	b. Labours Charges; Base rate	day	5.7	541	360	1,94,760	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
	c. Charges for Geologist per day (HQ)	day	1.2	9,000	50	4,50,000	
2	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	158	8,05,800	

	e. Labours (4 Nos)	day	5.7	541	632	3,41,912	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
	Sub Total- A					37,72,472	
B	Survey work						
1	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.6.2	19,200	15	288000	
	Sub-Total B					2,88,000	
C	DRILLING						
1	Non coring Drilling up to 400m (Hard Rock) (75% of coring drilling as per 2.2.5)	m	2.2.5	3,932	2,800	1,10,09,600	75% of coring drilling as per 2.2.5 (for coal and lignite)
2	Drilling between depth of 401-600m (Hard Rock & HQ size)	m	2.2.4b	15,180	1,400	2,12,52,000	
3	Drilling between depth of 601-900m (In HQ)	m	2.2.4c	17,250	1,750	3,01,87,500	
4							
5	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	7	1,40,000	
6	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2000	7	14,000	
7	Borehole plugging by cement	m	2.2.7b	150	5,250	7,87,500	
				200	700	1,40,000	
8	Transportation of Drill Rig & Truck associated per drill (2 rigs)	Km	2.2.8	72	3,500	2,52,000	From Hyderabad to Project site. (to & fro) - 2 rigs

9	Monthly Accommodation Charges for drilling Camp (For 2 Rigs 50000)	month	2.2.9	50,000	6	3,00,000	
10	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	2	5,00,000	
11	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	2	5,00,000	
12	Road Making (Flat Terrain)	Km	2.2.10a	22,020	3	66,060	
13	Drill Core Preservation	per m	5.3	1,590	2,800	44,52,000	
Sub Total C						6,96,00,660	
D	Borehole Geophysical Logging						
1	Dual Density	m	3.11d	102	5,950	6,06,900	
2	Spectral gamma	m	3.11o	164	5,950	9,75,800	
3	Resistivity	m	3.11c	39	5,950	2,32,050	
4	Neutron	m	3.11f	74	5,950	4,40,300	
5	Caliper	m	3.11g	19.00	5,950	1,13,050	
6	Expert charges for Geophysicist in HQ	day	3.18	9,000.00	21	1,89,000	
7	Expert charges for Geophysicist in Field	day	3.18	11,000.00	21	2,31,000	usually... field geologist day are more than HQ. please confirm with Chairman sir. , we may opt for 15 HQ and 20 Field.
Sub Total D						27,88,100	
E	LABORATORY STUDIES						
1	Chemical Analysis						
i)	Primary samples						
	a. Analysis of 11 radicals i.e. K, Na, Water insolubles, Mg, Cl, Br, Li & CaSO4, F & B	Nos	4.1.1	8,157	1,050	85,64,850	based on the actual thickness & number of Potash horizon,

							the sample thickness may vary.
ii)	Check samples Internal (10%)						
	a. Analysis of 11 radicals i.e. K, Na, Water insolubles, Mg, Cl, Br, Li & CaSO ₄ , F & B	Nos	4.1.1	8,157	105	8,56,485	
3	XRD analysis for identification of minerals (Random)	Nos	4.5.1	4,000	50	2,00,000	
2	Petro Chemical Samples						
i)	Petrochemical samples (Whole rock analysis) major oxides by XRF		4.1.15a	4,200	-	-	
ii)	Petrochemical samples (Whole rock analysis) trace elements (Ba, Rb, Sr, Th, Y, Li, U) by XRF		4.1.15b	2,947	30	88,410	
iii)	Petrochemical samples: Rare earth elements by ICPMS		4.1.13	5,380	30	1,61,400	
4	Physical & Petrological Studies						
i	Preparation of thin section	Nos	4.3.1	2,353	10	23,530	
ii	Study of thin section	Nos	4.3.4	4,232	10	42,320	
iii	Sp. Gravity	Nos	4.8.1	1,605	10	16,050	
		Sub Total E				99,53,045	
H		Total A to E				8,64,02,277	

I	Geological Report Preparation	5 Hard copies with a soft copy	5.2	For the projects having cost more than Rs. 300 lakhs - A minimum of Rs. 9 lakhs or 3% of the value of work whichever is more subject to a max. amount of Rs. 20 lakhs		20,00,000	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
J	Peer review Charges		As per EC decision			30,000	
K	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is less		5,00,000	EA will be reimbursed after submission of the Hard Copies and the soft copy of the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal.
L	Total Estimated Cost without GST					8,89,32,277	
M	Provision for GST (18% of J)					1,60,07,810	GST will be reimburse as per actual and as per notified prescribed rate
N	Total Estimated Cost with GST					10,49,40,087	
					or Say Rs. In Lakhs	1,049.40	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.						

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



Time Schedule/ Action Plan for Reconnaissance survey for Potash & Halite in Ramsara -Amarkot -Dalmir- Khera area in Fazilka District, Punjab

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




Revised cost for Preliminary exploration Survey (G3) for Iron ore and associated minerals in Amhawa Block, Sidhi District, Madhya Pradesh

Total area: 2.3 sq km, Period of Completion: 12 months BH: 18nos. , 1680m , Review: After 4 months

Implementing Agencies- M/s Maheshwari Mining Pvt. Ltd.

S. No.	Item of Work *	Unit *	Rates as per NMET		Original Estimated Cost of the		Revised Cost of the Project		Remarks
			SoC 2020-21		Proposal				
			SoC- Item No.	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	Qty. (C)	Total Amount (Rs) (a*c)	
		*							
A	Geological Mapping Other Geological Work & Surveying								
	Geological mapping, (1:4,000 scale) & Trenching , drilling work								
i	a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.2. b	11,000	180	1980000	180	1980000	1:4,000 scale mapping of 2.3 sq km
ii	b. Labours Charges; Base rate	day	5.7	526	360	189360	360	189360	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.

	c. Charges for Geologist per day (HQ)	day	1.2. a	9,000	60	540000	60	540000	
	Sub Total- A					2709360		2709360	
B	Survey work								
a	DGPS Survey for BH fixation & RL determination	Per Point of observation of observation	1.6.2	19,200	24	460800	24	460800	
b	Charges of one qualified surveyor with Total Station for carrying out topographical survey in different RF and surface contouring at different interval, fixation of borehole and determination of co- ordinates & Reduced Level (RL) of the boreholes with total station etc.		1.6.1a	8,300	30	249000	30	249000	For Topographical survey
c	Labours Charges for survey work;	day	5.7	526	120	63120	120	63120	4 labours per day
	Sub-Total B					7,72,920		772920	
B2	Geophysical Survey								
a	Magnetic survey	Per Station	3.2a	1,800	0	0	400	720000	Additional Survey
	Sub-Total B2					0		720000	
C	Trenching/Pitting								
	a) Trenches	per cu.m	2.1.1	3330	60	199800	60	199800	6 trench

	Sub Total C					199800		199800	
D	DRILLING (after review)- In -house								
1	Drilling up to 1200 m (very Hard rock)	m	2.2.1.5a	12,650	1680	21252000	1680	21252000	6 first level boreholes with 800 m spacing, remaining post review. Total 18 boreholes.
2	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	18	360000	18	360000	As per actuals
3	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	18	36000	18	36000	
4	Transportation of Drill Rig & Truck associated per drill (2 rig)	Km	2.2.8	36	1,880	67680	1,880	67680	Raniganj to Sidhi to and fro (470 Km)
5	Monthly Accommodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	4	200000	4	200000	
6	Drilling Camp Setting Cost	Nos	2.2.9a	250000	2	500000	2	500000	
7	Drilling Camp Winding up Cost	Nos	2.2.9a	250000	2	500000	2	500000	
8	Road Making (Flat Terrain)	Km	2.2.10a	22,020	5	110100	5	110100	As per actuals
9	Drill Core Preservation	per m	5.3	1,590	630	1001700	630	1001700	120 m 1 BH, 17 BH * 30
10a	Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	116	591600	116	591600	

10b	Labours (4 Nos)	day	5.7	526	464	244064	464	244064	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
Sub Total D						24863144		24863144	
E	LABORATORY STUDIES							0	
1	Chemical Analysis							0	
i)	Geochemical Sampling-Surface samples (Bedrock/Channel /Soil/Stream sediment)							0	BRS 50, Channel 100
	a. Analysis of major oxides and trace samples by XRF	Nos	4.1.15a	4,200	150	630000	150	630000	
	b. Analysis for Au by fire assay technique		4.1.5a	2,380	20	47600	20	47600	
ii)	Surface Check samples (10% External)					0		0	
	a. Analysis of major oxides samples by XRF	Nos	4.1.15a	4,200	15	63000	15	63000	
	b. Analysis for precious metals by fire assay technique		4.1.5a	2,380	2	4760	2	4760	
iii)	Trench & Check Samples from Trench					0		0	

	a. Analysis of major oxides samples by XRF	Nos	4.1.15a	4,200	60	252000	60	252000	
	Trench samples					0		0	
iv)	Trench Check samples (10% External)					0		0	
	a. Analysis of major oxides samples by XRF	Nos	4.1.15a	4,200	6	25200	6	25200	
v)	BH Core samples					0		0	
	a. Analysis of major oxides samples by XRF	Nos	4.1.15a	4,200	540	2268000	540	2268000	30*12=360, 6*30=180, 1 bh 30 m zone approx. The total no.of sample is subjected to the iron ore bands intersected in the boreholes
	b. Complete analysis of dolomite/ limestone/ gypsum/ clay/ manganese ore/ bauxite/ iron ore samples		4.1.9	2,900	54	156600	54	156600	3 samples per BH
	c. Analysis for precious metals by fire assay technique		4.1.5a	2,380	20	47600	20	47600	
vi)	BH Core samples (10%External)					0		0	
	a. Analysis of major oxides samples by XRF	Nos	4.1.15a	4,200	54	226800	54	226800	
	b. Complete analysis of dolomite/ limestone/ gypsum/ clay/		4.1.9	2,900	5	14500	5	14500	3 samples per BH

	manganese ore/ bauxite/ iron ore samples								
	c. Analysis for precious metals by fire assay technique		4.1.5a	2,380	2	4760	2	4760	
2	Physical & Petrological Studies					0		0	
i	Preparation of thin section	Nos	4.3.1	2,353	10	23530	10	23530	
ii	Study of thin section	Nos	4.3.4	4,232	10	42320	10	42320	
iii	Preparation of polish section	Nos	4.3.2	1549	5	7745	5	7745	
iv	study of polished section	Nos	4.3.4	4,232	5	21160	5	21160	
v	Digital Photographs	Nos	4.3.7	280	10	2800	10	2800	
vii	Bulk density analysis	Nos	4.8.1	1,605	3	4815	3	4815	
	Total E					3643185		3843190	
F	Total A to E					3,21,88,409		33108414	

G	Geological Report Preparation	5 Hard copies with a soft copy	5.2	ii		965652.27		993252.42	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
H	Peer review Charges		As per EC decision	30,000	1	30,000	1	30000	
I	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is less		500000		500000	EA will be reimbursed after submission of the Hard Copies and the soft copy of the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal.
J	Total Estimated Cost without GST					3,36,84,061		3,46,31,666	
K	Provision for GST (18% of J)					6063131.029		6233699.956	GST will be reimburse as per actual and as per notified prescribed rate
L	Total Estimated Cost with GST					3,97,47,192		4,08,65,366	total 2.2% cost is increased which is below 10% limit
				Rs. In Lakhs		397.471923		408.65	
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.								