

Ministry of Mines
National Mineral Exploration & Development Trust
Minutes of 16th meeting of Technical-cum-Cost Committee - II (TCC - II)
held on 3rd & 6th November 2025

The 16th meeting of Technical-cum-Cost Committee – II (TCC - II) of National Mineral Exploration and Development Trust (NMEDT) 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, NMEDT held on 3rd & 6th November 2025.

Members of TCC-II, NMEDT and representatives from, M/s Maheshwari Mining Private Limited (MMPL), M/s Vardan Environet LLP, M/s Bhusilp Mines and Minerals Private Limited, Central Mine Planning & Design Institute Limited (CMPDI), DMG Telangana, DMG Karnataka, DGM Bihar, DGM Arunachal Pradesh, DGM Jharkhand, M/s GeoExpOre Pvt. Ltd, Mineral Exploration and Consultancy Limited (MECL), M/s My World Consultancy Services. M/s S and S Geological Consultant (SSGC), M/s Critical Mineral Trackers (CMT), M/s Mining Tech Consultancy Services Ltd have attended the meeting through video conferencing mode. The list of participants is at **Annexure-1**.

Shri Pradeep Singh, DDG, GSI and Chairman, TCC-II, NMEDT warmly welcomed all TCC-II members and every participant from State DGM, Notified Exploration Agencies (NEAs) and Notified Private Exploration Agencies (NPEAs).

Agenda 16.1 Technical Evaluation of New Project Proposals

16.1.1 Preliminary Exploration (G3) for graphite in Ranibandh Block, Bankura District, West Bengal.

[Implementing Agency: M/s Maheshwari Mining Private Limited (MMPL)]

- a) The proposed area for preliminary exploration (G3), covering 2.5 sq. km, falls within Survey of India Toposheet no. 73J/13, in parts of Bankura District, West Bengal. DPR of this project was reviewed in 15th meeting of TCC-II held on 23rd & 24th October, 2025 and the cost evaluation of the proposal was deferred as the details of in-house geophysical instruments of the implementing agency – MMPL, were not updated in the QCI-NABET website.
- b) MMPL informed that they have updated the details of in-house geophysical instruments in the QCI-NABET website.
- c) In view of the above, cost evaluation was done by the committee. Total 1100m of drilling in 17 boreholes will be done including 1st Level 11 BHs, at 30m vertical depth (50m average depth) with 200 m spacing and 2nd Level 6 BHs, at 60m vertical depth (90m average depth) with 400x400 m grid spacing.
- d) The committee observed that certain borehole locations lie within forest areas and will therefore require forest clearance. The time required to obtain this clearance may impact the project's scheduled timeline.
- e) The committee was informed that as per the information received from the agency, the name of the company has been changed from Maheshwari mining

Pvt. Ltd. to MMPL Pvt. Ltd. Hence, the reaccreditation from QCI-NAMET and renotification by Central Govt is for M/s Maheshwari Mining Private Limited, Hence, the project returned to the agency till the issue of notification is settled.

Recommendation TCC-II

The committee has kept the project on hold until the issue regarding the name change of the NPEA is resolved.

16.1.2 Reconnaissance Survey (G4) for copper and associated mineralization in Salwari-Narsinghpuri-Pachlagi Area, Sikar District, Rajasthan.

[Implementing Agency: M/s. Vardan Environet Llp]

- a) The proposed exploration area, covering an area of 24.01 sq. km, is located on Survey of India Toposheet No. 45M/10 and falls within parts of Sikar District, Rajasthan. In-principle-approval was given for this proposal in 7th TCC-II meeting held on 24th & 25th March 2025. The project was recommended in 12th meeting of TCC-II held on 22nd, 25th, 26th and 27th August, 2025. However, comments from DMG Rajasthan were pending during the meeting. In the 1st Project Sanctioning Committee (PSC) meeting held on 9th October 2025, this proposal was deferred as DMG Rajasthan provided their consent for the proposal by excluding partially overlapped area. In view of this, the project was referred back to TCC-II based on the comments of DMG, Rajasthan to exclude the area and accordingly revise the proposal.
- b) Vardan Environet Llp informed that they have revised the proposal by excluding the partially overlapped area with mining leases and Aravalli area. Total area reduced to 24.01 sq. km. from initially proposed 28.48 sq. km. About 1.52 sq. km. area falls in Salwari Protected Forest. The proposed area lies within the southern Khetri belt, known for uranium and copper mineralization, with UCIL already mining uranium at Rohil (average 1500 ppm Cu). Geological Survey of India (GSI, 2015–16) identified copper values between 0.36%–3.45%, molybdenum up to 201 ppm, and TREE ~0.5% in the proposed G-4 exploration zone. Geophysical studies (GSI, 2016) detected 1–1.5 km long IP chargeability anomalies supported by magnetic data near Narsinghpuri, and recommended two boreholes in Salwari. Boreholes by AMD were studied by GSI, which revealed multiple sulphide zones containing pyrite, pyrrhotite, covellite, and chalcopyrite. In Chokari–Bamnara, GSI recorded copper values from 440 ppm to 0.36% and moderate TREE. Fieldwork by Vardan Environet LLP (July 2025) planned six boreholes. Of four samples collected in Nov 2024, one showed 2930 ppm Cu, high vanadium (2588 ppm), and TiO₂ (27.03%), confirming field evidence of significant sulphide mineralization.

S.N.	Agency	Comment
1	GSI	Informed that the based on the GSI work, the surface mineralization in the area is in the form of isolated pockets and restricted to albitite and hornblendite rocks. As G4 stage work is already carried out in the

		proposed area, therefore, a G4 stage investigation as proposed by M/s Vardan Environet LLP may be repetition of G4 stage work.
2	DMG Rajasthan	Consent for exploration may be given in the said area and NPEA may be advised get necessary clearances/permission from Forest Department, Government of Rajasthan by themselves.
3	MECL	Informed that the proposed block by M/S Vardaan Environet LLP is overlapping around 20 % with Kanawat-Chala-Karath-Bagholi Area G4 block for Iron exploration of MECL.

- c) The NMEDT observed that the proposed block overlaps by approximately 20% with the completed Kanawat–Chala–Karath–Bagholi G4 block for iron exploration allocated to MECL.
- d) The Committee advised the agency to exclude the portion of the proposed area that overlaps with the MECL completed block. The agency was further instructed to revise the block boundaries accordingly and present the updated block proposal in the upcoming TCC-II meeting.

Recommendation TCC-II

The Committee deferred the proposal and asked the agency to remove the overlapping area with the MECL block and submit the revised block in the upcoming TCC-II meeting.

16.1.3 Preliminary Exploration (G3) for Limestone in south of Gadola Block, Chittorgarh District, Rajasthan.

and

16.1.4 Reconnaissance survey (G4) for Limestone in Gadola Area, Chittorgarh District, Rajasthan.

[Implementing Agency: M/s Bhushilp Mines and Minerals Private Limited]

- a) The proposed area for preliminary exploration (G3), covering 40 sq. km, falls within Survey of India Toposheet no. 45L/10 & 45L/14, in parts of Chittorgarh District, Rajasthan.
- b) The proposed area for Reconnaissance survey (G4), covering 10 sq. km, falls within Survey of India Toposheet no. 45L/10 & 45L/14, in parts of Chittorgarh District, Rajasthan.
- c) These two projects have been carved out from the report SFA-1243 titled A report on the exploration of Cement grade limestone around Gadola village, Nimbahera Tehsil, Chittorgarh District, Rajasthan, allotted to the agency from shortlisted legacy reports of various state DGMs/DMGs for upgradation through NMEDT funds (3rd Joint TCC dated 4.9.2025)
- d) The table containing the comments is given below.

S.N.	Agency	Comment
1	GSI	Informed that the proposed NPEA block, no exploration work has been carried out by GSI. However, the Department of Mines and Geology (DMG), Rajasthan, had earlier undertaken exploration for limestone in the area. As per the DMG report and geological map (Plate II), Regional Geological Mapping was conducted on a 1:10,000 scale. DMG also drilled eight boreholes (GDH-1 to GDH-8) in the area. Among these, GDH-1, GDH-4, and GDH-7 indicate potential for cement-grade limestone, though high silica content (>15-20%) was observed in these boreholes. The remaining boreholes (GDH-2, GDH-3, GDH-5, GDH-6, and GDH-8) do not show potential for cement-grade limestone due to low CaO percentages in most of the core samples. the same area may not be suitable for a G4 stage investigation for the same commodity.
2	DMG Rajasthan	Informed that the proposed area is proposed for G-2 level of exploration in F.S. 2026-27.
3	MECL	Informed that the proposed south of Gadola and Gadola block does not overlap with any of current and previous exploration work of MECL.

- e) The committee noted the information provided by DMG Rajasthan, stating that the proposed area has been earmarked for G-2 level exploration during the Field Season 2026–27

Recommendation TCC-II

The committee did not recommend the proposal for approval of PSC.

16.2 Review of Ongoing Procurement Projects & Timeline Extension

16.2.1 Procurement of Machinery & Equipment.

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

- a) The project was recommended in 68th TCC meeting held on 28th, 29th and 30th August 2024 and approved in 37th EC meeting held on 23rd September 2024. Approved cost was ₹274.94.00 Lakh with timeline of 12 months up to 16/10/2025.

S. No	Item Description	Qty.	Amount (₹) in lakhs
1	ICP-MS Facility including Microwave Digestion Unit & Water Purifier System	1 unit	170.0
2	Rock Cutting Polishing and Mounting Unit Both for Thin Section & Polished Section	1 unit	42.0

3	Transmitted and Reflected Light Polarizing Research Microscope with Camera, Image Analyses Software & Workstation.	1 unit	21.0
	Total		233.00
	GST@18%		41.94
	Total		274.94

- b) The implementing agency requested for timeline extension of 6 months up to 15 April 2026 for completion of procurement

Recommendation TCC-II

The committee recommended the proposal for approval of PSC for “Timeline extension of 6 months up to 15 April 2026.”.

16.2.2 Financial assistance from NMET funds to procure machinery/ laboratory equipment/instruments etc. aimed at enhancing the exploration activities.

[Implementing Agency: DMG Telangana]

- a) The project was recommended in 63rd TCC meeting held on 22nd, 26th & 27th March 2024 and approved in 35th EC meeting held on 16th May 2024. Approved cost was ₹750.78 Lakh with timeline of 12 months up to 21/10/2025.
- b) Following items were approved

Sl. no.	Software / Hardware/ Equipment	Quantity	Estimated Price / Unit (₹ In Lakhs)	Total Estimated cost (₹ in lakhs)
1	ICP-MS	1	250	250.00
2	WD XRF	1	220	220.00
3	AAS(F>A)	1	60	60.00
4	Planetary Ball Mill	1	30	30.00
5	Fusion bead machine	1	20.00	20.00
6	Press pallet machine	1	3.90	3.90
7	Hot Plates	5	0.15	0.75
8	Muffle furnace	5	1.00	5.00
9	Air Oven	1	0.55	0.55
10	Rock cutting, polishing and mounting unit	1	70.00	70.00
11	Stero Zoom Microscope	1	31.00	31.00
12	Transmitted and reflected light research microscope with software attached camera	1	18.58	18.58
13	GIS Software	1	25.00	25.00
14	DGPS	1	16.00	16.00
	Total			750.78

- c) DMG Telangana informed that, 1st instalment of 40% (₹300.31 Lakh) was released on 22/10/2024. The agency stated that space has been identified for set up of chemical laboratory. The implementing agency requested for timeline extension of 06 months up to 31st April 2026.
- d) The committee agreed to recommend the proposal for timeline extension of 06 months up to 31st April 2026. The agency was asked to submit a detailed justification for timeline extension to NMEDT secretariat.

Recommendation TCC-II

The committee recommended the proposal for approval of PSC for “Timeline extension of 06 months up to 31st April 2026”.

16.2.3 Financial assistance from NMET funds to procure machinery/ laboratory equipment/instruments etc. aimed at enhancing the exploration activities.

[Implementing Agency: DMG Karnataka]

- a) The project was recommended in 47th TCC meeting held on 28th and 29th November 2022 and approved in 27th EC meeting held on 10th January 2023. Approved cost was ₹417.00 Lakh with timeline of 12 months up to 23 March 2024.
- b) The agency informed that so far ICPMS machine has been procured. Procurement of WD XRF and Rock Cutting Machines has been delayed as the specification of these machines were changed/upgraded after the suggestions received from nominated members of NMEDT. The Agency requested for timeline extension of 6 months up to 31st April 2026.
- c) The committee agreed to recommend the proposal for timeline extension of 6 months up to 31st April 2026

Recommendation TCC-II

The committee recommended the proposal for approval of PSC for “Timeline extension of 6 months up to 31st April 2026”.

16.2.4 Financial assistance from NMET funds to procure machinery/ laboratory equipment/instruments etc. aimed at enhancing the exploration activities.

[Implementing Agency: DMG Bihar]

- a) The project-I was recommended by 51st TCC held on 27th & 28th March 2023 and approved by 29th EC held on 31st March 2023 with schedule time for 12 months and sanction date 17.04.2023. The approved cost of the project was ₹ 15,50,000/-
- b) DMG Bihar, has received the 1st instalment advance of ₹ 6,20,000/- for the project. The proposal was not presented by DGM, Bihar.

Sl. No.	Name of Item	Qty.	Estimated	Total Estimated cost (₹)	Procurement Status
			Cost per unit (₹)		
Project -I					
1	Hand held GPS	5	30,000	1,50,000	Under Process
2	Brunton Compass	5	8,000	40,000	Procured
3	Geological Hammer	5	8,000	40,000	Under Process
4	Digital Camera	2	10,000	20,000	Procured
5	GSI Software	1 License	13,00,000	13,00,000	Procured, Installed
	Total			15,50,000	
Project -II					
1	Hand held GPS	20	30,000	6,00,000	Under Process
	Total			21,50,000	

- c) The Agency requested for timeline extension of 06 months up to 31st December 2025.
- d) The committee agreed to recommend the proposal for timeline extension of 06 months up to 31st December 2025.

Recommendation TCC-II

The committee recommended the proposal for approval of PSC for “Timeline extension of 06 months up to 31st December 2025”.

16.2.5 Financial assistance from NMET funds to procure machinery/ laboratory equipment/instruments etc. aimed at enhancing the exploration activities.

[Implementing Agency: DGM Arunachal Pradesh]

The review of this project was postponed as the agency had not provided the committee with the complete project details.

16.2.6 Financial assistance from NMET funds to procure machinery/ laboratory equipment/instruments etc. aimed at enhancing the exploration activities.

[Implementing Agency: DGM Jharkhand]

- a) DMG Jharkhand informed that the project was approved in the 28th EC Meeting held on 16th March 2023. The sanction order was issued on 18th August 2023 with timeline of 12 months up to 17/08/2024 and approved cost was ₹ 5,27,90,000/-.
- b) The 1st Instalment amounting to ₹2.11 crore was released on 29th August 2023.

Sl. No.	Name of Item	Qty.	Estimated	Total Estimated cost (₹)	Procurement Status
			Cost per unit (₹)		
1	Digital Camera	10	90000	900000	Not Procured
2	Brunton Compass	20	10000	200000	Not Procured
3	Geological Hammer	20	10000	200000	Not Procured
4	Hand-held GPS	20	95000	1900000	Not Procured
5	Hydraulic Core Splitter	1	200000	200000	Not Procured

6	Vibratory Cup Mill with accessories	1	600000	600000	Not Procured
7	ICP- MS (Ultra-Pure Water System)	1	20000000	20000000	Not Procured
8	XRF	1	16000000	16000000	Not Procured
9	Fusion Bead Machine	1	2000000	2000000	Not Procured
10	Press Palette machine	1	390000	390000	Not Procured
11	Grinding and Polishing Machine and mounting unit	1	7000000	7000000	Not Procured Not Procured
12	Transmitted and Reflected light, research Microscope with software attached camera	1	1200000	1200000	Not Procured
13	Proximate Analyzer (TGA)	1	2200000	2200000	Not Procured
	Total			5,27,90,000	

- c) DGM Jharkhand proposed in the 5th TCC-II held on held on 27th, 28th and 29th January 2025 for addition of Ultra-Pure Water System as an accessory with procurement of ICPMS.
- d) DGM, Jharkhand informed that the tender bidding and procurement processes are still pending. Further, they requested an extension of the timeline for completion of the procurement process.
- e) In 14th TCC-II meeting held on 7th & 8th October 2025, The TCC-II opined that, given the significant delay of over a year beyond the stipulated 11-month timeline in the procurement process, the proposal should be referred to the NMEDT for appropriate decision on the matter.
- f) The Agency requested for timeline extension of 06 months up to 28 February 2026.
- g) The committee agreed to recommend the proposal for timeline extension of 06 months up to 28 February 2026.

Recommendation TCC-II

The committee recommended the proposal for approval of PSC for "Timeline extension of 06 months up to 28 February 2026."

16.3 Review of Ongoing Projects/ Completed Project & Timeline Extension

16.3.1 Preliminary Exploration (G-3) for REE and associated minerals in Borana Block, Bhilwara District, Rajasthan.

[Implementing Agency: M/s GeoExpOre Private Limited]

- a) GeoExpOre Pvt. Ltd. informed that the project was approved in the 35th EC Meeting held on 16th May, 2024. The sanction order was issued on 10th June, 2024 with timeline of 12 months (up to 09.06.2025) and approved cost was ₹1,46,98,108/-. In 4th meeting of TCC-II held on 26th & 27th December 2024, additional 74m drilling and additional chemical analysis was recommended and the project cost was revised to ₹166.30 Lakh. Timeline extension of 5 months up to 9th November 2025 was recommended in 8th meeting of TCC-II held on

28th, 29th April & 2nd May 2025 and approved in 42nd EC meeting held on 2nd June 2025.

- b) The agency informed that geological mapping of 1.14 sq. km. area has been completed along with 100 cu m of pitting/trenching and drilling of 474.64 m in 5 boreholes. Samples have been collected and submitted for analysis and analytical results are awaited. Furthermore, it was informed that the progress of the work is being delayed due to the non-release of funds from NMEDT. The agency requested for second timeline extension of 3 months up to 8th February 2026.
- c) The committee agreed to recommend the project for second timeline extension of 3 months up to 8th February 2026. The committee advised the agency to submit a detailed justification for timeline extension to NMEDT secretariat.

Recommendation TCC-II

The committee recommended the proposal for approval of PSC for “Timeline extension of 3 months up to 8th February 2026”.

16.3.2 Reconnaissance Survey (G-4) for Iron Ore in Mahakoshal Group around Chakdiya, Kushaniya, Jobra, and Tusgaon Area, Sonbhadra District, Uttar Pradesh.

[Implementing Agency: M/s GeoExpOre Private Limited]

- a) M/s GeoExpOre Pvt. Ltd. informed that the project was approved in the 33rd EC Meeting held on 19th February, 2024. The sanction order was issued on 28th February, 2024 with timeline of 09 months (up to 27.11.2024) and approved cost was ₹1,95,41,116/-. In 7th meeting of TCC-II held on 24th and 25th March 2025, change of outsourced drilling to In-house drilling was recommended and the project cost was revised to ₹211.96 Lakh and approved in 42nd EC meeting held on 2nd June 2025. Also, timeline extension of 6 months up to 25th November 2025 was recommended in 8th meeting of TCC-II held on 28th, 29th April & 2nd May 2025 and approved in 42nd EC meeting held on 2nd June 2025.
- b) The agency informed that geological mapping of 18.56 sq. km. area including Block A1 of 7.21 sq. km and Block A2 of 11.35 sq. km has been completed along with collection of 91 BRS and 150 channel samples. Out of total approved drilling meterage of 700m, so far 250.10m of drilling has been done. Presently, drilling operations is in progress. The agency requested for timeline extension of 3 months up to 24th February 2026.
- c) The committee agreed to recommend the project for second timeline extension of 3 months up to 24th February 2026. The committee advised the agency to submit a detailed justification for timeline extension to NMEDT secretariat.

Recommendation TCC-II

The committee recommended the proposal for approval of PSC for “Timeline extension of 3 months up to 24th February 2026”.

16.3.3 Review of Project Reconnaissance survey for copper and associated minerals in Kochipur area, Sidhi district, Madhya Pradesh.

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

- a) CMPDI informed that the project was recommended in 68th TCC meeting held on 28th, 29th, and 30th August 2024, and approved in 37th EC meeting held on 23rd September 2024 with timeline of 10 months (up to 21.08.2025) and approved cost was INR 125.13 lakh. Sanction Order was issued on 22nd October 2024. The project was reviewed in 9th TCC-II meeting held on 29th & 30th May 2025. Further, in 12th meeting of TCC-II timeline extension of 4.5 months up to 31st December 2025 was recommended and approved in 1st PSC meeting held on 9th October 2025.
- b) The committee opened that the Cu values in surface samples not promising. In graphite band in central part within Carbonaceous phyllite FC values are also in range of 2-3%. Area not showed mineral potentiality.
- c) The agency informed that approved quantum of work in this project has been completed. The agency requested for submission of Final Geological Report.
- d) The committee agreed for submission of Final Geological Report.

Recommendation TCC-II

The committee agreed for submission of Final Geological Report.

16.3.4 Preliminary Exploration (G-3) for Titaniferous Magnetite in Khursipar Block, Gondia District, Maharashtra.

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

- a) MECL informed that the project was recommended in 74th meeting of TCC-I held on 20th and 21st February, 2025 and approved in 41st EC meeting held on 11th March 2025 for ₹273.10 Lakh with timeline of 12 months up to 18/3/2026. This is a lapsed lease area under the 10(A) 2(B) case. MECL informed that DGM Maharashtra has requested MECL for further exploration vide Letter No. Tech/1848/2023/3938, dated 22/12/2023) since the initial 10(A) 2(B) area was less. The lease (0.03 sq. km area), granted to M/s R.R. Shende (27-11-2006 to 27-11-2008) reported 0.026 MT of iron ore resources by sinking six trial pits (1.8–4m depth).
- b) The implementing agency informed that Geological mapping on 1:4000 scale of 2.82 sq. km. area along with topographical survey, contouring on 2m interval has been completed. Three vanadiferous titanomagnetic bands have been demarcated, namely Northern, Central and Southern Bands. Further, the agency requested drilling in 9 boreholes with 200m x 200m spacing.
- c) The committee agreed to proceed with initial drilling for seven boreholes at 200 m spacing. In the central part, the continuity of the mineralised zone may be confirmed through trenching and the committee also advised to recheck and verify the Fe/FeO analysis.

Recommendation TCC-II

The committee agreed for commencement of drilling in 7 boreholes and trenching.

16.3.5 Preliminary Exploration (G-3) for Glauconitic Sandstone in Deulha Block, Satna District, Madhya Pradesh.

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

- a) MECL informed that the project was recommended in 63rd meeting of TCC held on 20th, 26th and 27th March 2024 and approved in 35th EC meeting held on 16th May 2024 for ₹105.18 Lakh with timeline of 9 months up to 03/03/2025. The first timeline extension was given up to 30.9.2025.
- b) The implementing agency informed Peer review of the Final Geological Report has been done. However, they requested for timeline extension of one and half month up to 15th November 2025 for report submission.
- c) The committee agreed for recommending timeline extension of one and half month up to 15th November 2025 for report submission.

Recommendation TCC-II

The committee recommends the proposal for approval of PSC for “timeline extension of one and half month up to 15th November 2025 for report submission”.

16.3.6 Preliminary Exploration (G-3) for Tin in Kangra block (6.35 sq.km), Tehri Garhwal district, Uttarakhand.

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

- a) MECL informed that the project was recommended in 2nd meeting of TCC-II held on 22nd and 23rd October, 2024 and approved in 38th EC meeting held on 29th November 2024 for ₹604.91 Lakh with timeline of 15 months up to 12 March 2026.
- b) The implementing agency informed that geological mapping on 1:4000 scale of 6.35 sq. km. area has been completed. Collection of 300 BRS, ICPMS study, XRD and XRF analysis has also been done. Sn value ranges from 7.04 to 213.36 ppm. The agency requested for commencement of drilling in 8 proposed boreholes with total 430m of drilling.
- c) MECL requested approval for changing the mode of execution of the drilling component of the project from in-house implementation to outsourcing through an external agency.
- d) The Committee agreed and advised MECL to submit a justification to NMEDT for the change drilling component of the project from in-house to outsourced. The agency further informed that the justification has already been communicated to NMEDT via email.
- e) The committee agreed and advised that efforts should be made to delineate the mineralised zone based on GM data and surface sample results for both Tin and Tungsten. Drilling may commence in 6 boreholes with an average depth of 50 m, total 300 m of drilling.

Recommendation TCC-II

The committee recommends the proposal for approval of PSC for “commencement of drilling in 6 boreholes of 50m average depth & total 300m drilling meterage” with an estimated revised cost of ₹ 380.28 Lakh (including GST) as per annexure 4.



Revised Cost for Preliminary Survey (G-3) for Tin in Kangra Block Districts- Tehri Garhwal, Uttarakhand
Total Area -6.35 sq. km; Completion Time - 15 Months, Drilling: 300 m, 06 nos.
Implementing Agency: MECL

S.N	Item of Work	Unit	SoC- Item -SI No.	Rates as per SoC	Additional Rate for Exploration work in remote and inaccessible terrain in North Eastern States and Himalayan terrain (3.35 times higher than the normal SoC)	Approved Cost of the Proposal		Revised Estimated Cost of the Proposal		Remarks
						Qty.	Total Amount (Rs)	Qty.	Total Amount (Rs)	
1	Geology & Survey									
1.1	Geologist man days (1 No.) for geological map & Report (HQ)	day	1.3	9,000		60	5,40,000	60	5,40,000	
1.2	Geologist (Field) man days for core logging/mapping/ Sampling/topographic survey	day	1.3	11,000	36,850	200	73,70,000	200	73,70,000	
1.3	Unskilled Labour (Field) (2 workers per geologist)	day	5.7	526	1,762	400	7,04,840	400	7,04,840	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State

										Govt. whichever is higher
1.4	Survey Party Days for topographic survey (4m contour)	days	1.6.1a	8,300	27,805	60	16,68,300	60	16,68,300	
1.5	Unskilled Labour (Survey) (4 workers per Surveyer)	Days	5.7	526	1,762	240	4,22,904	240	4,22,904	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
1.6	Sampling man days - Sampler, Labour charge not included	day	1.5.2	5,100	17,085	65	11,10,525	57	9,73,845	
1.7	4 labours/ party (Rs 526/day/labour) (As per rates of Central Labour Commissioner) for sampling work	day	5.7	526	1,762	260	4,58,146	228	4,01,759	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
1.8	Determination of co-ordinates and Reduced Level (RL) of boreholes by DGPS including boundary corner points.	Nos.	1.6.2	19,200	64,320	16	10,29,120	11	7,07,520	Boreholes 06 Nos. + Block Boundary 06 Nos.
	Sub-Total 1						1,33,03,835		1,27,89,168	
2	Excavation									

2.1	Pitting/Trenching (upto 2m)	Cu.m	2.1.1	3,330	11,156	60	6,69,330		6,69,330	
	Sub-Total 2						6,69,330		6,69,330	
Phase-2										
3	Drilling -Out-Source									
3.1	Drilling -hard rock (up to 300m)	m	2.2.1.4a	11,500	38,525	600	2,31,15,000.00	300.00	1,15,57,500.00	
3.2	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	67,000	10	6,70,000.00	6.00	-	As per actual
3.3	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	6,700.00	10	67,000.00	6.00	-	
3.4	Transportation of Drill Rig & Truck associated per drill (for 2 rig)	Km	2.2.8	36	121	5,200	6,27,120.00	5,200	-	2600 Km to and fro for one rig
3.5	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	1,67,500.00	6	10,05,000.00	6	-	
3.6	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	8,37,500.00	2	16,75,000.00	2	-	
3.7	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	8,37,500.00	2	16,75,000.00	2	-	
3.8	Road Making (Rugged-Hilly Terrain)	Km	2.2.10b	32,200	1,07,870.00	5	5,39,350.00	5	-	
3.9	Drill Core Preservation	per m	5.3	1,590	5,326.50	300	15,97,950.00	150	7,98,975.00	
3.10	Tendering process cost	One time	2.3	2% of the approved project cost or 5 lakh whichever is lower will be paid one time to Exploration Agency		-	-	1	2,31,150.00	

3.11	Operational Charges	One time	6.iii	₹8.75 lakh plus 5 percent on the balance amount of outsourced cost in excess of ₹1 crore will be paid to Exploration Agency towards operational charges. The maximum ceiling of operational charges is ₹15 lakh.		-	-	1	9,52,875.00	9,52,875.00
	Sub-Total 3						3,09,71,420		1,35,40,500	
4	Laboratory Studies (Phase 1 & Phase 2)									
4.1	Primary Bedrock/channel/pit/trenching + Check Sample - 34 Elements of ICPMS	per sample	4.1.14	7,731	NA	363	28,06,353.00	363	28,06,353.00	Closed space sampling in grid pattern-300 Nos+trecnhing 30 Nos+check samples-33
4.2	Core samples+ Check Sample - 34 Elements of ICPMS (Primary+Internal check+ External check)	per sample	4.1.14	7,731	NA	154	11,90,574.00	88	6,80,328.00	Borehole samples-80+check samples
4.2	Preparation of thin section	Nos	4.3.1	2,353	NA	5	11,765.00	5	11,765.00	
4.3	Complete petrographic study report	Nos	4.3.4	4,232	NA	5	21,160.00	5	21,160.00	
4.4	Preparation of Polished Section	Nos	4.3.2	1,549	NA	20	30,980.00	20	30,980.00	
4.5	Complete Mineragraphic study report	Nos	4.3.4	4,232	NA	20	84,640.00	20	84,640.00	
4.6	Whole Rock Analysis(Major Oxides)	Nos	4.1.15a	4,200	NA	5	21,000.00	5	21,000.00	
4.7	XRD	Nos	4.5.1	4,000	NA	20	80,000.00	20	80,000.00	
4.8	SEM	per hour	4.4.2	2,940	NA	10	29,400.00	10	29,400.00	

4.9	Density	per sample	4.8.3	1,568	NA	10	15,680.00	6	9,408.00	
	Sub-Total -4						42,91,552		37,75,034	
5	Total -1 to 4						4,92,36,137	-	3,07,74,032	
6	Geological Report Preparation	5 Hard copies with a soft copy	5.2	Detailed exploration with cost of work exceeding ₹ 300 lakh: A minimum of ₹ 9 lakh or 3% of the value of work whichever is more subject to a maximum amount of ₹ 20 lakh and ₹ 10,000/- per each additional copy			14,77,084		9,23,221	
7	Peer review Charges		As per EC decision				30,000		30,000	
8	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of approved project cost or Rs. 5 Lakhs whichever is lower			5,00,000		5,00,000	EA has to submit the Hard Copies and the soft copy of the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal.
9	Total Estimated Cost without GST						5,12,43,221		3,22,27,253	
10	Provision for GST (18% of G)	%					92,23,780		58,00,905	GST will be reimburse as per actual and as per

										notified prescribed rate
11	Total Estimated Cost with GST						6,04,67,001		3,80,28,158	
	Say in Lakhs						604.67		380.28	37.11%
Note - If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a certificate regarding non outsourcing of any component/project is required.										
Note:										
	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									




16.3.7 Preliminary exploration for Potash in Lakhasar East Extension, District-Bikaner, Rajasthan.

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

- a) MECL informed that the project was recommended in 2nd meeting of TCC-II held on 22nd and 23rd October 2024 and approved in 38th EC meeting held on 29th November 2024 for ₹1616.51 Lakh with timeline of 18 months up to 12 March 2026. The drilling programme comprised 10,500 meters in total, covering 15 boreholes with a planned depth of up to 700 meters each.
- b) The implementing agency informed that geological mapping on 1:5000 scale of 9.5 sq. km. area has been completed. Drilling in 3 boreholes have been completed, drilling in 5 boreholes are in progress and drilling in 1 borehole has been suspended due to jamming. The agency requested for outsourcing of remaining drilling quantum (4250m), additional 700 nos. of borehole samples and premature closure of borehole no. 2.
- c) The committee did not agree for outsourcing of remaining drilling component as drilling component was already approved in-house and agreed for premature closure of borehole no. 2 due to jamming.

Recommendation TCC-II

The committee agreed for premature closure of borehole no. 2.

Agenda 16.3.8 – Reconnaissance Survey (G-4) for Rare Earth Elements (REE) & Rare Metals (RM) near Meghawas-Nagana area, Barmer District, Rajasthan.

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

- a) Mining Tech Consultancy Services Limited informed that the proposal has been discussed in the 40th EC meeting held on 19th February 2025 (Pre-EC) & 20th February 2025 (EC). EC has opined to revisit the proposal and consider geological mapping & geochemical sampling only to test the REE & RM content in this zone prior to conducting detailed study. As per the advice of the committee, MTCS had identified 2 blocks having a total area of 18.00 sq km with prominent REE anomalies near Mandli (Block-A: 8 sq. km) & Nagana (Block-B: 10 sq. km) for conducting Reconnaissance Survey (G4 Level) for REE & RM. The TCC-II in its 8th meeting held on 28th, 29th April & 2nd May 2025 advised change in the name of proposed area as Meghawas-Nagana area and recommended the project. The project was approved in 42nd EC meeting held on 2nd June 2025 with approved cost of ₹ 30,47,319 within timeline of 5 months up to 30 November 2025. The agency requested for timeline extension of 3 months for completion of the project up to 28 February 2026.
- b) The TCC-II advised to drop the EPMA study.

Recommendation TCC-II

The committee approved timeline extension of 3 months up to 28 February 2026.

16.4 Project Evaluation for in-Principle Approval

16.4.1 Reconnaissance Survey (G-4) for Graphite and associated metals in Paikmal Area, Bargarh District, Odisha.

[Implementing Agency: My World Consultancy Services (WCS)]

- a) DGM Odisha informed that the proposed area overlaps with the Ranjitpur block, which has been recommended for exploration by MECL, and MECL has also confirmed this overlap
- b) The Committee, while referring to Rule 67 of the MCR, noted that as per Section 4.1 of the MMDR Amendment Act, 2021, the said provision overrides the rule, and hence, no separate notification is required.
- c) The Committee recommended that GSI be requested to provide their comments in the prescribed format. The proposal may be reconsidered upon receipt of GSI's comments.

Recommendation TCC-II

The proposal will be reconsidered upon receipt of GSI's comments.

16.4.2 Reconnaissance Survey (G-4) for Graphite Mineral in Utla Village, East Godavari District, Andhra Pradesh.

[Implementing Agency: S and S Geological Consultant (SSGC)]

- a) As per comments from GSI the proposed block completely overlaps with GSI's exploration block.

Recommendation TCC-II

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

16.4.3 Preliminary exploration (G-3) for Cr, Ni, Au, and PGE (Pt, Pd) in Sadumal Polymetallic Block, Lalitpur District, Uttar Pradesh.

[Implementing Agency: Critical Mineral Trackers (CMT)]

- a) The proposed block of 3.56 sq. km. area, for preliminary exploration (G3), falls within Survey of India Toposheet no. 54L/15, in parts of Lalitpur District, Uttar Pradesh.
- b) GSI has done G4 stage exploration in 2018-19. The survey revealed significant Cr (up to 3364 ppm), Ni (up to 2824 ppm), Au (up to 600 ppb), Pd (up to 59 ppb), and Pt (up to 57.6 ppb). Detailed PGE analysis further showed a total PGE concentration ranging from 14 ppb to 73 ppb. Geochemically, a positive correlation between MgO, Ferric oxide, Ni, and Cr indicates ferro-magnesium mineral predominance, while chondrite normalized PGE trends show palladium enrichment. Metal ratio plots classify the ultramafics into Komatiite/ Ophiolite/ Chromitite fields, and SEM-EDX studies confirmed the presence of sperrylite (PtAs₂) and free gold grains. Specifically, in the Sadumal area, Au values reached 300-400 ppb, Pd up to 53 ppb, Cr up to 2028 ppm, and Ni up to 1035

ppm, demonstrating high prospectivity and warranting further detailed exploration to assess economic viability.

- c) GR of 2018-19 of GSI has not indicated encouraging results of, Cr, Ni, Au. MECL report has also not shown any significant Au values. Few outcrops trending NNW shown on map are from intrusive of mafic/ultramafic in Bundelkhand granite. Proposal does not seem to be potential specifically for Cr, Ni, PGE.
- d) The committee opined that geometry of the target lithology should be established prior to taking up any G3 stage of exploration. At present, committee does not recommend the project for G3 stage of exploration.

Recommendation TCC-II

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



Annexure -1

List of participants attended 16th meeting of Technical-cum-cost Committee (TCC-II) of NMEDT held on 03rd and 06th November 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
2	Shri. Sanjay Singh	Director, GSI, Western Region, Jaipur	sanjay.singh3@gsi.gov.i n	9928860884	Member Secretary 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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