

**Ministry of Mines**  
**National Mineral Exploration & Development Trust**  
**Minutes of 19<sup>th</sup> meeting of Technical-cum-Cost Committee - II (TCC - II)**  
**held on 16<sup>th</sup> & 17<sup>th</sup> December 2025**

The 19<sup>th</sup> 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 16<sup>th</sup> & 17<sup>th</sup> December 2025.

Members of TCC-II, NMEDT and representatives from M/s Vardan Environet LLP, DGM Jammu and Kashmir, Central Mine Planning & Design Institute Limited (CMPDI), M/s Critical Mineral Trackers (CMT), M/s Gemcokati Private Limited, Mineral Exploration and Consultancy Limited (MECL), M/s Engeotech Consultant, Madhya Pradesh State Mining Corporation Limited (MPSMCL) 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 representing from State DGM, Notified Exploration Agencies (NEAs) and Notified Private Exploration Agencies (NPEAs). Shri Pradeep Singh informed the TCC-II committee members and all meeting participants that the revised Schedule of Charges (SoC) of NMEDT has been approved by the Hon'ble Secretary, Ministry of Mines, Government of India. The new SoC will come into effect from 15 December 2025.

**19.1 Technical Evaluation of New Project Proposals**

**Agenda 19.1.1 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 12<sup>th</sup> meeting of TCC-II held on 22nd, 25th, 26th and 27th August 2025.
- b) M/s Vardan Environet LLP informed that the proposed area lies within the southern part of the Khetri belt, where Uranium mineralization is currently being mined by UCIL at the Rohil site. This deposit also features an average copper content of 1500 ppm. The Geological Survey of India (GSI), during its field season 2015–16, conducted a Large-Scale Mapping (LSM) in part of the proposed G-4 exploration block. Five samples from this study reported copper values ranging from 0.36% to 3.45%, along with molybdenum concentrations up to 201.11 ppm and one sample indicating a TREE (Total Rare Earth Elements) value of 0.5%. Geophysical investigations by GSI (2016) in the north-eastern Narsinghpuri area have identified induced polarization (IP) chargeability anomalies with strike lengths between 1 km and 1.5 km, corroborated by 2 ground magnetic surveys. Based on these geophysical results, GSI also recommended drilling in two boreholes in the Salwari area. Additionally, a heliborne survey conducted by AMD identified conductive zones within the same region. Several boreholes drilled by AMD, and core samples studied by GSI (FS 2015–16), revealed multiple sulphide-bearing zones containing pyrite, pyrrhotite, covellite, and chalcopyrite. In the central part of the proposed block, GSI's detailed mapping in the



Chokari–Bamnara area reported copper values ranging from 440 ppm to 0.36% across two channels in the northern portion of the mapping area, along with moderate TREE values. Further, while exploring for iron in the Pachlagi–Dhaniyal area, MECL drilled a borehole at the northern end of the current block. This borehole intersected two copper mineralized zones, with copper grades of 0.14% and 0.37%, respectively. During field investigation conducted by agency out of four samples collected in November 2024, one sample yielded a notably high copper value of 2930 ppm, along with elevated vanadium (2588 ppm) and titanium dioxide ( $TiO_2$ ) content of 27.03%. These results supported the presence of sulphide mineralization in the area

- c) 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 revised the proposal.
- d) During 16<sup>th</sup> TCC-II meeting held on 3<sup>rd</sup> and 6<sup>th</sup> November 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 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.
- e) The table containing the comments is given below.

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 to 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.

- f) The coordinates of the proposed area are given below.

Cardinal Point (Salwari Project)		
Point	Latitude (dd mm ss)	Longitude (dd mm ss)
A	75°39'40.271"E	27°44'28.699"N
B	75°39'52.533"E	27°43'41.152"N
C	75°38'25.620"E	27°41'25.940"N
D	75°35'47.833"E	27°38'33.754"N
E	75°35'00.010"E	27°39'12.925"N
F	75°36'19.040"E	27°40'36.967"N
G	75°35'33.360"E	27°41'12.383"N
H	75°36'18.925"E	27°41'59.904"N
I	75°36'57.423"E	27°41'37.711"N

- g) The Committee opined that, the Kanawat block of MECL (G4) in the northern part of the proposed area pertains to iron investigation. Further, the MECL block has also shown good values for basemetal. The committee, therefore decided that the proposed area may be retained as submitted by the NPEA. The existing mineral occurrence information may be incorporated during the course of exploration from the Geological Report (GR) of MECL.
- h) The TCC-II agreed for total 1500m drilling in 6 boreholes with average depth of 250m each. However, the committee opined that the project will follow a phased implementation approach. In Phase-1, only 3 boreholes will be drilled with depth of 250m each as per GSI recommendation. Subsequent drilling will be after review.

#### Recommendation TCC-II

***The committee recommended the proposal for approval of PSC for “Reconnaissance Survey (G4) for copper and associated mineralization in Salwari-Narsinghpuri-Pachlagi Area, Sikar District, Rajasthan” with an estimated cost of ₹284.86 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 6 boreholes planned, each borehole 250m depth. In first phase 3 boreholes to be drilled as per GSI recommendation. Subsequent drilling will be after review.***

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

**Area: 24.01 Sq. Km, No. of BH: 6 (Avg. depth: 250 m each = Total 1500m), Timeline- 10 Months,  
Review: After 5 Months**

**Implementing Agency: Vardan Environet Llp**

Sl. No.	Item of Work	SoC Sr. No.	Units	Qty	Cost per unit/ per day/ manday (In Rs.)	Total Amount (In Rs.)	Remarks
1	<b>Geological Mapping (Scale 1:12,500)</b>						
a.	Large scale (LSM) Geological Mapping	1.1	Per sq. km	24	₹ 18,300	₹ 4,39,200	
b.	Charges of Geologist (field)	1.2.1a	Man-days	100	₹ 14,500	₹ 14,50,000	Geological Mapping on 1:12,500 Scale, core logging, sampling (BRS & Core), supervision of trenching and pitting
c.	Labour Charges (2 Helper for each geo)	5.8	Man-days	200	₹ 541	₹ 1,08,200	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
d.	Geologists (HQ) days (1 No)	1.2.1a	Man-days	60	₹ 10,500	₹ 6,30,000	




	<b>Sub Total: - 1</b>					<b>₹ 26,27,400</b>	
<b>2</b>	<b>Survey work-out source</b>						
c.	Demarcation of block boundary & boreholes	1.3.2	Per point	10	₹ 24,000	₹ 2,40,000	6 BHs and 4 boundary coordinates
	<b>Sub Total: - 2</b>					<b>₹ 2,40,000</b>	
<b>3</b>	<b>Trenching/Pitting</b>						
a.	Trenching	2.1.1	cu. m	60	₹ 4,125	₹ 2,47,500	No of sample = 110
b.	Pitting	2.1.2	cu. m	50	₹ 4,725	₹ 2,36,250	
	<b>Sub Total: - 3</b>					<b>₹ 4,83,750</b>	
<b>4</b>	<b>Sample Preparation</b>						
a.	Sampler charges for Sample processing work	1.2.1b	Man-days	39	₹ 7,850	₹ 3,06,150	
b.	Labour (Field days) (4 workers per sampler)	5.8	Man-days	156	₹ 541	₹ 84,396	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	<b>Sub Total: - 4</b>					<b>₹ 3,90,546</b>	
<b>5</b>	<b>Core Drilling 1500 m/ 6 BH) Outsource</b>						
a.	Drilling up to depth of 400m (HQ- Up to 50m each BH)	2.2.1.1d	Per m	1500	₹ 10,000	₹1,50,00,000	
b.	Borehole Geophysical logging (Natural Gamma)	3.11h	m	1500	₹ 116	₹ 1,74,000	

c.	Borehole deviation survey by Multi shot camera	2.2.5	Per shot	250	₹ 330	₹ 82,500	Borehole Deviation Survey by Multi shot survey tool (interval 6 m; azimuth and inclination to be recorded)
d.	Construction of concrete Pillar (12"x12"x30") Borehole plugging by cement Drill Core Preservation	2.2.7	per /BH	6	₹ 2,000	₹ 12,000	
		2.2.8	per /BH	6	₹ 10,000	₹ 60,000	
		5.3	Per/m	500	₹ 1,590	₹ 7,95,000	
<b>6</b>	<b>Sub Total: - 5</b>						<b>₹ 1,61,23,500</b>
<b>6.1</b>	<b>Laboratory Study-Outsource</b>						
<b>6.1.1</b>	<b>Bed Rock Samples</b>						
a.	Bed Rock samples by XRF for whole rock analysis	4.1.17a	Nos	10	₹ 4,200	₹ 42,000	
	External Check 10%	4.1.17a	Nos	1	₹ 4,200	₹ 4,200	
b.	Bed Rock samples by ICPMS with U, Th.	4.1.15	Nos	5	₹ 7,400	₹ 37,000	
	External Check 10%	4.1.15	Nos	1	₹ 7,400	₹ 7,400	
c.	Bed Rock samples by AAS (Cu, Pb, Zn, Ni, Co, V, Au, Ag)	4.1.8 a&b	Nos	25	₹ 4,306	₹ 1,07,650	
	External Check 10%	4.1.8 a&b	Nos	3	₹ 4,306	₹ 12,918	
<b>6.2</b>	<b>Drill Core Samples-Outsource</b>						
a.	Drill core samples by ICPMS with U, Th.	4.1.15	Nos	30	₹ 7,400	₹ 2,22,000	
	External Check 10%	4.1.15	Nos	3	₹ 7,400	₹ 22,200	
b.	Drill Core samples by AAS (Cu, Pb, Zn, Ni, Co, V, Au, Ag)	4.1.8 a&b	Nos	100	₹ 4,306	₹ 4,30,600	

	External Check 10%	4.1.8 a & b	Nos	10	₹ 4,306	₹ 43,060	
c.	Density	4.8.3	Nos	10	₹ 2,500	₹ 25,000	
<b>6.3</b>	<b>Trench/Pit Samples- (Outsource)</b>						
a.	Trench samples by ICPMS	4.1.15	Nos	10	₹ 7,400		
	External Check 10%	4.1.15	Nos	1	₹ 7,400	₹ 7,400	
b.	Trench samples by XRF (Major Oxides)	4.1.17a	Nos	100	₹ 4,200	₹ 4,20,000	
	External Check 10%	4.1.17a	Nos	10	₹ 4,200	₹ 42,000	
	<b>Sub Total:- 6</b>					<b>₹ 14,97,428</b>	
<b>7</b>	<b>Petrological studies</b>						
a.	Preparation of thin section	4.3.1	Nos	10	₹ 500	₹ 5,000	
b.	Study of thin section for petrography	4.3.4	Nos	10	₹ 2,800	₹ 28,000	
c.	Preparation of polished section	4.3.2	Nos	10	₹ 800	₹ 8,000	
d.	Study of polished section for mineragraphy	4.3.4	Nos	10	₹ 2,800	₹ 28,000	
	<b>Sub Total: -7</b>					<b>₹ 69,000</b>	
	<b>Total (Sno.1 to 7)</b>					<b>₹ 2,14,31,624</b>	
<b>8</b>	<b>Preparation of Exploration Proposal</b>	<b>5.1</b>		2% of approved project cost		<b>₹ 4,28,632</b>	<b>2% of approved project cost or 5 lakh whichever is lower</b>
<b>9</b>	<b>Geological Report Preparation</b>	<b>5.2(iii)</b>		<b>Total cost of the project exceeding 150 Lakh ₹7.50</b>		<b>₹ 7,50,000</b>	<b>Total cost of the project exceeding 150 Lakh ₹7.50</b>

10	Technical Supervision charge	6	₹ 15,00,000	In case of outsourcing of work, the technical supervision cost shall be 10% of the sum of all outsource work components with a maximum ceiling of 20 lakh.
11	Peer Review charge	As per EC	₹ 30,000	
<b>Grand Total</b>				₹ 2,41,40,256
	Add GST @ 18%		18%	₹ 43,45,246
<b>Grand Total Including GST</b>				₹ 2,84,85,503
			<b>Rs in Lakh</b>	₹ 284.86

**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 NMEDT SoC and Item no. 6 of NMEDT 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

Annexure 2B

**Time Schedule/ Action Plan for Reconnaissance Survey (G4) for copper and associated mineralization in Salwari-Narsinghpuri-Pachlagi Area, Sikar District, Rajasthan**

S.N.	Activities	Months										
		1	2	3	4	5	REVIEW	6	7	8	9	
1	Pre-field Study											
2	Geological Mapping											
3	Pitting/Trenching											
4	Topographic Survey											
5	Drilling & Logging											
6	Sampling											
7	Laboratory Study											
8	Petrographic Study											
9	Report Writing											
10	Peer Review & Report Submission											

## **19.2 Review of Ongoing Procurement Projects & Timeline Extension**

**Agenda 19.2.1 Financial assistance from NMEDT funds to procure machinery/ laboratory equipment/ instruments etc. aimed at enhancing the exploration activities.**

**[Implementing Agency: DGM Jammu and Kashmir]**

- a) DMG Jammu & Kashmir informed that the project was approved in the 29th EC Meeting held on 31<sup>st</sup> March 2023. The sanction order was issued on 31<sup>st</sup> May 2023 with timeline of 12 months up to 30<sup>th</sup> May 2024 and approved cost was ₹ 1,44,56,000/-
- b) Subsequently, the proposal was discussed in the 11<sup>th</sup> TCC-II meeting held on 23<sup>rd</sup>, 24<sup>th</sup> & 25<sup>th</sup> July 2025, with an additional session on 30<sup>th</sup> July 2025, and was approved by the 1st PSC of NMEDT held on 09th October 2025 for an additional allocation of ₹14,18,240/- towards the total procurement cost, along with an extension of the timeline up to 31st October 2025.
- c) DMG, Jammu & Kashmir informed that ₹57,82,400/- was released by NMEDT as 1st instalment, against which ₹43,83,000/- has been utilised until 18 July 2025. Utilisation certificates were submitted to NMEDT on 18th July 2025.
- d) DMG, Jammu & Kashmir requested to release the 2<sup>nd</sup> instalment of the procurement project and timeline extension for 7 months till 31<sup>st</sup> May 2026.
- e) The TCC-II agreed to the release of the second instalment for the procurement project and approved an extension of the timeline by seven months, up to 31<sup>st</sup> May 2026. Subsequently, the Committee advised submission of a justification for the timeline extension to NMEDT.

***Recommendation TCC-II***

***The Committee examined the proposal and recommended approval of the PSC for a timeline extension of seven months, up to 31st May 2026, in view of the revised tendering process required for completion of the said procurement.***

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

**Agenda 19.3.1 Reconnaissance survey (G4) for copper and associated minerals in Kochipur Area District - Sidhi, Madhya Pradesh.**

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

- a) CMPDI informed that the project was recommended in 68<sup>th</sup> TCC meeting held on 28<sup>th</sup>, 29<sup>th</sup>, and 30<sup>th</sup> August 2024, and approved in 37<sup>th</sup> EC meeting held on 23<sup>rd</sup> September 2024 with timeline of 10 months (up to 21.08.2025) with approved cost of ₹ 125.13 lakh. Sanction Order was issued on 22<sup>nd</sup> October 2024. The project was reviewed in 9<sup>th</sup> TCC-II meeting held on 29<sup>th</sup> & 30<sup>th</sup> May 2025. Further, in 12<sup>th</sup> meeting of TCC-II timeline extension of 4.5 months up to 31<sup>st</sup> December 2025 was recommended and approved in 1<sup>st</sup> PSC meeting held on 9<sup>th</sup> October 2025.
- b) CMPDI informed that geological mapping on 1:12,500 scale of 90sq km have been completed. The agency requested for approval of additional sample analyses. The details as given in tabulated below:-



S.No.	Type of analysis	Sanctioned Quantity	Executed Quantity	Excess Quantity	Rate (in Rs.)	Excess Amount (in Rs)
1	Proximate Analysis for Graphite Trench samples	25	40	15	3000.00	45000.00
2	Preparation of thin Section	10	11	1	2353.00	2353.00
3	Complete Petrographic Study	10	11	1	4232.00	4232.00
					<b>Total</b>	<b>51585.00</b>

c) The committee asked the agency to give justification and revise the cost sheet. Revised cost sheet to be attached. Further, the agency requested for timeline extension of two (02) months, up to 28<sup>th</sup> February 2026, for peer review of the GR, followed by presentation before the TCC, approval thereof, and subsequent submission of the GR.

**Recommendation TCC-II**

- *The committee recommended for approval of the PSC for additional sample analyses amounting to ₹51,585.00. and revised cost ₹ 125.78/- Lakhs. as per Annexure- 3.*
- *Further, the committee also recommended for approval of the PSC for a timeline extension of two (02) months up to 31st February 2026 for peer review of the Geological Report (GR), and subsequent submission of the GR,*




**Estimated cost for Reconnaissance Survey for Copper Ore & associated mineralization (G-4 stage) Kubri- Kochipur, District-Sidhi, Madhya Pradesh (Total Block area 90 sq.km (approx);, Drilling- 400m, BH depth- 100m, No of BH- 4, completion time- 12 months, Review-06 month)**

Sl. No	Item Work	Item no in SoC	Unit	Rates as per SoC of NMEDT	Qty.	Amount (Rs) In Lakh	Additional Amount in Rs.	Remarks
<b>A</b>	<b>GEOLOGICAL WORK- Geological mapping 1: 12,500</b>							
1a	Geological Party days (1 party) Field	1.2	Day	11000	120	1320000		100 days for Geological Mapping & 50 days for Drilling
1b	Geological Party days (1 party)HQ	1.2	Day	9000	40	360000		
1c	2 labours/ party (Rs 522/day/labour), As per rates of Central labour Commission)	5.7	Day	522	240	125280		Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	<b>Sub Total A</b>					<b>1805280</b>		
<b>B</b>	<b>Drilling &amp; Sampling- after Review</b>							
2a	Core drilling (Outsourced)- Hardrock	2.2.1.4a	per meter	11500	400	4600000		460000
2b	Sampling - 1 sampler without Labour	1.5.2	Day	5100	40	204000		
2c	4 labours/ party (Rs 522/day/labour, As per rates of Central labour Commission)	5.7	Day	522	160	83520		

		<b>Sub Total B</b>				<b>4887520</b>		
<b>C</b>	<b>SURVEY WORK</b>							
3a	Survey Party days (1 party) without Labour for contouring of mineralized zone	1.6.1a	Day	8300	0	0		
3b	4 labours/ party (Rs 522/day/labour), As per rates of Central labour Commission	5.7	Day	2088	0	0		
3c	Fixation of block boundary & borehole by DGPS	1.6.2	Per point	19200	4	76800		only BH points
3d	Core Preservation	5.3	per m	1590	150	238500		
	<b>Sub Total C</b>					<b>315300</b>		
<b>D</b>	<b>PITTING- TRENCHING</b>							
4a	Pitting (1mx 1m x1m)- 40 no	2.1.2	Cu m	3800	40	152000		
4b	Trenching (1mx 1m x5m)- 8 no	2.1.1	Cu m	3330	40	133200		
	<b>Sub Total D</b>					<b>285200</b>		
<b>E</b>	<b>Laboratory Studies</b>							
	<i>Chemical Analysis/ ICPS Studies</i>							
<b>I</b>	<b>BRS Samples</b>							
7a	Primary Sample for 5 radicals (Cu, Pb, Co, Cr & Ni)	4.1.7a	Per sample	2506	0	0		
7b	Internal (5%) & External (10%) Check samples of 5 radicals	4.1.7a	Per sample	2506	0	0		
7c	Analysis of Gold by Fire assay	4.1.5a	Per sample	2380	15	35700		
7d	Whole rock analysis of Major Oxides	4.1.15a	Per sample	4200	15	63000		

7e	ICP-MS studies for REE (34 element)- i.e. (Cu, Pb, Co, Cr & Ni &REE)	4.1.14	Per sample	7731	100	773100		
	External 10%	4.1.14	Per sample	7731	10	77310		
7f	Proximate Analysis for Graphite	4.1.16	Per sample	3000	25	75000		
<b>II</b>	<b>Pit/Trench Sample</b>							
7g	ICP-MS studies for REE (34 element)- i.e. (Cu, Pb, Co, Cr & Ni &REE)	4.1.14	Per sample	7731	40	309240		
7h	External (10%) Check samples	4.1.7a	Per sample	7731	4	30924		
7i	Analysis of Gold by Fire assay	4.1.5a	Per sample	2380	12	28560		
7j	Whole rock analysis of Major Oxides	4.1.15a	Per sample	4200	0	0		
7k	Proximate Analysis for Graphite	4.1.16	Per sample	3000	40	120000	<b>45000</b>	Approved qty 25 samples, additional approval required 15 samples
<b>III</b>	<b>Soil/Stream Sediment</b>							
7h	Primary Sample for 5 radicals (Cu, Pb, Zn, Cr & Ni)	4.1.7a	Per sample	2506	0	0		
7i	Internal (5%) & External (10%) Check samples of 5 radicals	4.1.7a	Per sample	2506	0	0		
<b>IV</b>	<b>Borehole Sample</b>							




7g	ICP-MS studies for REE (34 element)- i.e. (Cu, Pb, Co, Cr & Ni &REE)	4.1.14	Per sample	7731	40	309240		
7h	External (10%) Check samples	4.1.7a	Per sample	7731	4	30924		
7i	Analysis of Gold by Fire assay	4.1.5a	Per sample	2380	10	23800		
7k	Proximate Analysis for Graphite	4.1.16	Per sample	3000	25	75000		
	<b>Sub Total E</b>					<b>1951798</b>		
<b>F</b>	<b>Physical &amp; Petrological Studies</b>							
8a	Preparation of thin section	4.3.1	per sample	2353	11	25883	<b>2353</b>	Approved qty 10 samples, additional sample 1
8b	Complete Petrographic studies	4.3.4	per sample	4232	11	46552	<b>4232</b>	Approved qty 10 samples, additional sample 1
8c	Preparation of polished section	4.3.2	per sample	1549	10	15490		
8d	Complete mineragraphic study report	4.3.4	per sample	4232	10	42320		
8e	EPMA	4.4.1	Per hour	8540	5	42700		
	<b>Sub Total F</b>					<b>172945</b>		
<b>G</b>	<b>TOTAL COST (A+B+C+D+E+F+G)</b>					<b>9418043</b>		
<b>H</b>	<b>Miscellaneous Charges</b>							
9a	Tendering Process cost (2% of project cost)	2.3				92000		




9b	Operation Cost	6.0	i			460000		
9c	Preparation of Exploration Proposal (2% of approved Project cost or 5 lakh whichever is lower)	5.1	lump sum		1	188361		
9d	Geological Report Preparation ( 1.5 lakh or 5% of total work value whichever is more)	5.2		ii	1	470902		
9e	Peer Review Charges			30000	1	30000		
	<b>Total H</b>					<b>1241263</b>		
I	<b>TOTAL COST G+H</b>					<b>10659306</b>	<b>51585</b>	
J	GST (@18%)					<b>1918675</b>	<b>9285</b>	
K	<b>Grand Total</b>					<b>12577981</b>	<b>60870</b>	
L	<b>Rs. In Lacs</b>					<b>125.78</b>	<b>0.61</b>	
<b>Note:</b>								
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.							
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.							
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMEDT SoC and Item no. 6 of NMEDT 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.							

**Agenda 19.3.2 Preliminary exploration for Magnetite and associated minerals in Pipradih Block, District Giridih, State Jharkhand**  
**[Implementing Agency: Central Mine Planning & Design Institute Limited (CMPDI)]**

- a) The project was recommended in 52nd TCC meeting held on 27th and 28th April 2023 and approved in the 38th EC Meeting held on 29th November 2024. The sanction order was issued on 13th December 2024 with timeline of 8 months up to 12.08.2025 and approved cost was ₹147.25 Lakh. Timeline extension of 4.5 months up to 31<sup>st</sup> December 2025 was approved in 1<sup>st</sup> PSC meeting held on 9th October 2025 for GR submission.
- b) The implementing agency informed that geological mapping on 1:4000 scale of 7sq. km along with topographical survey with 2m contour interval have been completed so far. Magnetic survey, Pitting and trenching is underway.
- c) The agency informed the committee about the progress of the project, the work delayed due to local issues in the block. The work got started after rounds of negotiations with locals from 2<sup>nd</sup> week of August 2025. The agency discussed the results of trenches and informed that the trenches Trench-A, Trench-B, Trench-C and Trench-E show total Fe% values in the range 13.17% to 34.03 %.
- d) The agency requested for the initiation of the drilling work. Further, it was briefed by the agency that the work delayed due to local issues in the block.
- e) The agency requested a timeline extension of three months up to 31st March 2026, stating that the work was delayed due to law-and-order issues in the block and was resumed after discussions with the local people.
- f) The agency further requested for approval of additional 1 labour/party day and 5 samples for complete mineragraphic studies. The details as given below: -

Details	Approval Given	Approval Required for	Additional Approval required	Additional Cost in Rs.
2 Labours/party day	120	240	120	₹ 59280.00
Complete Mineragraphic studies(samples)	Nil	5	5	₹ 21160.00
			<b>Total</b>	<b>₹ 80,440.00</b>

- g) The TCC-II Committee during deliberation observed that out of identified mineralised locales, zone A & B have indicated moderate Fe values. The Committee suggested to test its continuation at sub-surface four BHs may be drilled at 30 m vertical depth at designated BH spacing as per MEMC rules. Total drilling quantum may be around 200 m. further the committee asked the agency to submit the revised cost sheet.

**Recommendation TCC-II**

- *The Committee recommended the proposal for approval of the PSC for a timeline extension of three months up to 31st March 2026. along with recommendation of an additional one labourer per party day and five number of samples for complete mineragraphic studies, amounting to ₹80,440/- and revised cost ₹ 148.27/-Lakhs as per Annexure 4.*
- *The TCC-II Committee during deliberation observed that out of identified mineralised locales, zone A & B have indicated moderate Fe values. The Committee suggested to test its continuation at sub-surface four (04) BHs may*

*be drilled at 30 m vertical depth at designated BH spacing as per MEMC rules.  
Total drilling quantum may be around 200 m.*

*Jayaram*

*OSM*

Project Cost Estimate for Preliminary Exploration (G3) for Magnetite and associated minerals in Pipradih area, Giridih District, Jharkhand							Annexure- 4
Sl. No	Item Work	Item no in Soc	Unit	Rates as per Soc of NMEDT	Qty.	Amount (Rs)	Remarks
<b>1 - Outsource Component</b>							
<b>A</b>	<b>DRILLING</b>						
i	Core Drilling	2.2.1.4a	m	11500	400	4600000	
ii	Approach Road Making	2.2.10b	Per Km	22020	2	44040	Road Making will be considered as per the requirement and Road Making Charges will be reimbursed for max. 2 km.
iii	Borehole Pilliaring	2.2.7a	Per Bh	2000	8	16000	
iv	Land Crop Compensation	5.6	Per Bh	20000	8	160000	Amount will be reimburse as per actuals or max. Rs. 20000 per BH with certification from local authorities
<b>TOTAL - A</b>							<b>4820040</b>
<b>B</b>	<b>Laboratory Studies</b>						
I	<i>Chemical Analysis/ ICPS Studies</i>						
a	<i>BRS Samples</i>						

i	Primary Sample for XRF	4.1.15a	per sample	4200	250	1050000	
ii	Internal (5%) & External (10%) Check samples of 5 radicals	4.1.7a	per sample	2506	38	95228	
<b>Sub Total (a)</b>						<b>1145228</b>	
<b>b</b>	<b>Physical &amp; Petrological Studies</b>						
i	Preparation of thin section	4.3.1	per sample	2353	5	11765	
ii	Complete Petrographic studies	4.3.4	per sample	4232	5	21160	
iia	Complete Minerographic studies	4.3.4	per sample	4232	5	21160	Additional approval Required
iii	Preparation of polished section	4.3.2	per sample	1549	5	7745	
vii	Specific Gravity Determination	4.8.1	per sample	1605	5	8025	
<b>Sub Total (b)</b>						<b>69855</b>	
<b>TOTAL - B</b>						<b>1215083</b>	
<b>TOTAL-1 OUTSOURCED COMPONENT (A+B)</b>							<b>6035123</b>
<b>2. In-House Component</b>							
<b>A</b>	<b>GEOLOGICAL WORK</b>						
i	Geological Party days (1 party) Field	1.2 b	Day	11000	120	1320000	
ii	Geological Party days (1 party)HQ	1.2 a	Day	9000	60	540000	

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iii	2 labours/ party (Rs 494/day/labour),	5.7	Day	494	120	59280	Amount will be reimbursed as per the notified rates by the Central Labour Commission or respective State Govt., whichever is higher
IV	2 labours/ party (Rs 494/day/labour),	5.7	Day	494	120	59280	Additional approval Required as total Geological Party days are 120 & labours per party day is 240 labours
<b>Sub Total A</b>						<b>1978560</b>	-9046295
<b>B</b>	<b>GEOPHYSICAL STUDIES</b>						
i	Magnetic Survey	3.2a		72000	30	2160000	Magnetic Survey considering 40 points in a line km, Rate is Rs. 1800 per station, Thus, the Rate of 1 Line km is Rs.72, 000/-
<b>Sub Total B</b>						<b>2160000</b>	
<b>C</b>	<b>SAMPLING</b>						
i	Sampling - 1 sampler without Labour	1.5.2	Day	5100	32	163200	
ii	4 labours/ party (Rs 494/day/labour,	5.7	Day	494	128	63232	Amount will be reimbursed as per the notified rates by the Central Labour Commission or respective State Govt., whichever is higher
<b>Sub Total C</b>						<b>226432</b>	
<b>D</b>	<b>SURVEY WORK</b>						

i	Survey Party days (1 party) without Labour for contouring of mineralized zone	1.6.1a	Day	8300	30	249000	
ii	4 labours/ party (Rs 494/day/labour), As per rates of Central labour Commission	5.7	Day	494	120	59280	Amount will be reimbursed as per the notified rates by the Central Labour Commission or respective State Govt., whichever is higher
iii	DGPS Survey of Boreholes	1.6.2	per point	19200	12	230400	
<b>Sub Total D</b>						<b>538680</b>	
<b>D</b>	<b>Trenching</b>						
i	Trenching	2.1.1	Cu. m	3330	50	166500	
<b>Sub Total D</b>						<b>166500</b>	
<b>TOTAL- 2 IN-HOUSE COMPONENT (A to D)</b>						<b>5070172</b>	
<b>Total Cost of Outsourced and In-House Component (1 + 2)</b>						<b>11105295</b>	
<b>3. Miscellaneous Charges</b>							

i	Preparation of Exploration Proposal	5.1	2% of approved Project cost subject to Maximum of 5 Lakh whichever is lower	5 Nos. Hard Copies along with soft copy	222106	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-NMEDT in its meeting while clearing the proposal.
ii	Peer review		10000	1	10000	
iii	Tendering Process cost for Outsourced component	2.3	2% of cost or 5 lakh whichever is lower	1	96401	will be reimbursed when copy of the signed agreement/tender for outsource component will be submitted.
iv	Operational charges for outsourced component	Point 3 (i)of SoC and item 6.0 (i)			576047	will be reimbursed as per point 3 of NMEDT-SoC after recalculation when actual cost of outsourcing component will be provided. The copy of contract agreement for outsourced component and work completion report are also required to reimburse the operational charge.




v	Geological Report preparation	5.2		For the projects exceeding Rs. 50 Lakhs but less than 150 Lakhs: A Minimum of Rs. 2.5 lakhs or 5% of the work whichever is more	5 Nos. Hard Copies along with soft copy	555265	EA has to submit the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMEDT.
<b>TOTAL - 3 Miscellaneous Charges</b>						<b>1459818</b>	
<b>4 - Total Cost of the project without GST (1 + 2 + 3 )</b>						<b>12565113</b>	Additional amount Rs 80440/-
	Provision for GST (@18%)					2261720	Additional GST Rs 14479
<b>5- Total Cost of the project with GST</b>						<b>14826834</b> <i>or say Rs.</i> <b>₹ 148.27/-</b>	Additional Amount Rs 94919 <i>Lakhs</i>
<p><b>Note -</b></p> <ol style="list-style-type: none"> <li><i>If any part, mentioned in the in-house component is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMEDT SoC and Item no. 6 of NMEDT SoC.</i></li> <li><i>For in-house component of the project, a Certificate from the NEA regarding non outsourcing of any component/project is required.</i></li> <li><i>In no case, the sum of outsourced cost and operational charges should exceed the cost as per SoC rates of the total outsourced component(s).</i></li> </ol>							

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**Agenda 19.3.3 Reconnaissance survey for Nickel, Cobalt and PGE in Botad area, Botad District, Gujarat.**

**[Implementing Agency: M/s Critical Mineral Trackers (CMT)]**

- a) The project was recommended in 6<sup>th</sup> TCC meeting held on 27<sup>th</sup> and 28<sup>th</sup> February, 2025 and 6<sup>th</sup> March 2025 and approved in the 41<sup>st</sup> EC Meeting held on 11th March 2025. The sanction order was issued on 23rd March 2025 with timeline of 10 months up to 22nd January 2026 and approved cost was ₹128.25 Lakh. The TCC-II opined that drilling in the proposed block will be subject to positive outcomes of Geological Mapping, analysis for PGE should be done only if Nickel (Ni) value exceeds 0.2% & if PGM grains found Electron Probe Microanalysis.
- b) The project work was reviewed in 13<sup>th</sup> meeting of TCC-II held on 22<sup>nd</sup>, 23<sup>rd</sup>, 24<sup>th</sup> September 2025. In the 13<sup>th</sup> meeting, the committee reviewed the chemical analytical results and opined that the analytical results are not so encouraging (Ni values are not promising, Co & PGE content are also negligible). So, the committee recommended the project for approval of PSC for pre closure of the project and submission of the Geological report.
- c) In 2nd meeting of PSC held on 4th November 2025, PSC referred the proposal back to TCC-2 with instruction to inform PSC at its next meeting about the detailed values of Ni, Co and PGE as well as the expenditure incurred by the agency.
- d) CMT informed that Geological map on 1:25000 scale has been finalised. Also, pitting work has been completed along with sample collection and chemical analysis. In pit samples, Ni values ranges from 425.2ppm to 1116.3ppm, Nb value ranges from 251ppm to 39850ppm (a nugget value), Cr value ranges from 515ppm to 1218ppm, Co value ranges from 12ppm to 95ppm. Also, in Bed Rock Samples values of Co ranges from 2.9ppm to 80.3ppm, Cr value ranges from 12.4ppm to 1411.6ppm, Ni value ranges from 23.6ppm to 1105.1ppm and Nb value ranges from 4.4ppm to 1214.6ppm. As suggested by the TCC, the samples analysed for Ni with more than 2000ppm had to send for PGE analysis. However, no sample with Ni values greater than 0.2% observed therefore PGE analysis was not done.
- e) The Committee noted that no significant Ni, Cr, or PGE values were observed from surface geological studies and advised pre-closure of the project and submission of the Geological Report (GR) and committee also advised the agency to submit the details of expenditure incurred to NMEDT.
- f) Further, the committee instructed agency to present revised cost sheet in the upcoming TCC -II meeting.

**Recommendation TCC-II**

***The committee opined that the project, has no significant Ni, Cr, or PGE values were observed from surface geological studies. the project may be closed.***

**Agenda 19.3.5 Preliminary exploration (G3) for PGE, Gold and Basemetal in Timkitola block, Balaghat District, Madhya Pradesh.**

**[Implementing Agency: Gemcokati Exp. Pvt. Ltd.]**

- a) The project was recommended in 13<sup>th</sup> TCC meeting held on 22<sup>nd</sup>, 23<sup>rd</sup>, 24<sup>th</sup> September 2025 and approved in the 2<sup>nd</sup> PSC Meeting held on 4<sup>th</sup> November 2025. The project was approved in 2<sup>nd</sup> PSC meeting subject to recheck of the drilling plan by the TCC.



- b) The committee opined that drilling in 6 boreholes (3 x 90m Vertical + 3 x 150m inclined) with total 720m depth will be decided after first review of detail mapping and Geophysical survey work. Review will be done after 5 months & 10 months.
- c) The committee rechecked the drilling plan and kept the review after 5 months both in cost sheet as well as in the timeline table of the project.

## **Recommendation TCC-II**

- *In the 13<sup>th</sup> TCC-II meeting, the committee recommended the proposal for approval of PSC for “Preliminary exploration (G3) for PGE, Gold and Basemetal in Timkitola block, Balaghat District, Madhya Pradesh” with an estimated cost of ₹ 212.61 Lakh (including GST) within the time schedule of 12 months and submission of the report as per Annexures 5A & 5B after rechecking the drilling plan. The item will be reviewed after 5 months & 10 months.*
- *The Committee opined that drilling in 6 boreholes (3 x 90m Vertical + 3 x 150m inclined) with total 720m depth will be decided after first review of detail mapping and Geophysical survey work. Review will be done after 5 months & 10 months.*

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**Estimated cost for Preliminary exploration (G3) for PGE, Gold and Basemetal in Timkitola block, Balaghat District, Madhya Pradesh**  
**[6 sq. km. district- balaghat, madhya pradesh, review after 5 & 10 months, project duration:12 months**  
**Implementing Agency: Gemcokati Private Limited**

S. No.	Item of Work *	Unit *	Rates as per NMEDT SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC- Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	
<b>A</b>	<b>Geological, Geophysical Work &amp; Surveying</b>						
1	Geological Trenching, drilling work	Sq Km			<b>6</b>		
2	Charges for Geologist per day (Field) for trenching work and drilling work	day	1.3b	11000	160	17,60,000	
3	Labours Charges; Base rate	day	5.7	541	320	1,73,120	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
4	Charges for Geologist per day (HQ)	day	1.3a	9000	45	4,05,000	
5	Charges for Geophysicist per day (HQ)	day	1.3a	9000	0	-	
6	Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5100	25	1,27,500	
7	Labours (4 Nos)	day	5.7	541	100	54,100	
<b>Sub Total A</b>						<b>25,19,720</b>	
<b>B</b>	<b>Ground Geophysical Survey</b>						Ground Geophysical survey In house




1	IP. Induced Polarization (I.P) cum Resistivity S.P and Magnetic (10 Line Km)	8-10 Line Km	3.4b	14,48,693	1	14,48,693	
2	Charges for Geophysicist per day (Field) for geophysical survey	day	1.3b	11,000	0	-	
3	Labours Charges employed during geophysical survey; Base rate	day	5.7	541	0	-	
<b>Sub Total- B</b>						<b>14,48,693</b>	
<b>C</b>	<b>Survey work</b>						
1	Charges of Surveyor (1 party) for survey, layout work & Block boundary demarcation	one surveyor per day	1.6.1a	8300	60	4,98,000	Layout of geophysical profile RL determination of BHs (1:2000)
2	Labours Charges for survey work;	day	5.7	541	240	1,29,840	
3	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.6.2	19200	10	1,92,000	(Corner points 4 & Drill points 6)
<b>Sub-Total C</b>						<b>8,19,840</b>	
<b>D</b>	<b>Trenching</b>						
1	a) Excavation of Trench	per cu.m	2.1.2	3,800	150	5,70,000	6 trenches of 25m each (25m X1m X 1m)
<b>Sub-Total D</b>						<b>5,70,000</b>	
<b>E</b>	<b>DRILLING (field components)</b>						
1	Drilling up to 300m (Hard Rock)	m	2.2.1.4a	11,500	720	82,80,000	6 BHs (3X90m Vertical + 3X150m inclined)
2	Borehole deviation Survey by Multishot Camera	m	2.2.6	330	720	2,37,600	
3	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	-	-	
4	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	10	20,000	(Corner points 4 + BHS 6)
5	Borehole plugging by cement	per borehole	2.2.7b	200	720	1,44,000	

6	Road Making (Rugged hilly terrain)	Km	2.2.10a	32,200	5	1,61,000	
7	Transportation of Drill Rig & Truck associated per drill (2 rigs)	Km	2.2.8	36	1,200	43,200	To and for 2 Rigs (Chandrapur to Balaghat)
8	Monthly Accommodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	4	2,00,000	
9	Drilling Camp Setting Cost	Nos	2.2.9a	2,50,000	1	2,50,000	
10	Drilling Camp Winding up Cost	Nos	2.2.9b	2,50,000	1	2,50,000	
11	Drill Core Preservation	per m	5.3	1,590	100	1,59,000	
<b>Sub Total E</b>						<b>97,44,800</b>	
<b>F</b>	<b>LABORATORY STUDIES</b>						
1	<b>Chemical Analysis</b>						
i	Estimation of <b>major oxides</b> by XRF/whole rock analysis for primary samples	per sample	4.1.15a	4,200	20	84,000	Core samples 20
ii	Estimation of <b>major oxides</b> by XRF/whole rock analysis for Check samples	per sample	4.1.15a	4,200	2	8,400	
iii	Au by Fire Assay - Primary samples	per sample	4.1.5a	2,380	25	59,500	Core samples 25
iv	Au by Fire Assay - Check samples	per sample	4.1.5a	2,380	3	7,140	Core samples 3
v	trace elements through IPC-OES for Primary samples (Ni, Cr, Co, REE, Cu/ 34 Elements)	per sample	4.1.14	7,371	100	7,37,100	Core samples 60 + BRS and Trench 40
vi	trace elements through IPC-OES for External check samples (Ni, Cr, Co, REE, Cu/ 34 Elements)		4.1.14	7,371	10	73,710	
vii	PGE by Fire Assay		4.1.5d	11,800	25	2,95,000	For samples where Ni, Cr, Co values are high
viii	For PGE by Fire Assay- Check samples		4.1.5d	11,800	3	35,400	
ix	Density	per sample	4.8.3	1,568	6	9,408	1 from each boreholes

2	<b>Physical &amp; Petrological Studies</b>						
i	Preparation of thin section	Nos	4.3.1	2,353	25	58,825	Trench and Core Samples
ii	Study of thin section	Nos	4.3.4	4,232	25	1,05,800	
iii	Preparation of polish section	Nos	4.3.2	1,549	25	38,725	
iv	study of polished section	Nos	4.3.4	4,232	25	1,05,800	
v	Digital Photographs	Nos	4.3.7	280	25	7,000	
vi	EPMA studies	per hour	4.4.1	8,540	20	1,70,800	
<b>Sub Total F</b>						<b>17,96,608</b>	
<b>G</b>	<b>Total A to F</b>					<b>1,68,99,661</b>	
<b>H</b>	<b>Geological Report Preparation</b>	<b>5 Hard copies with a soft copy</b>	<b>5.2(iii)</b>	<b>5% of the work</b>		<b>7,50,000</b>	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMEDT.
<b>I</b>	<b>Peer review Charges</b>		<b>As per EC decision</b>			<b>30,000</b>	
<b>J</b>	<b>Preparation of Exploration Proposal (5 Hard copies with a soft copy)</b>	<b>5 Hard copies with a soft copy</b>	<b>5.1</b>	<b>2% of the Cost or Rs. 5 Lakhs whichever is less</b>		<b>3,37,993</b>	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-NMEDT in its meeting while clearing the proposal.
<b>K</b>	<b>Total Estimated Cost without GST</b>					<b>1,80,17,654</b>	
<b>L</b>	<b>Provision for GST (18% of J)</b>					<b>32,43,178</b>	GST will be reimbursed as per actual and as per notified prescribed rate
<b>M</b>	<b>Total Estimated Cost with GST</b>					<b>2,12,60,832</b>	
				<b>or Say Rs. In Lakhs</b>		<b>212.61</b>	
<b>Note:</b>							
1	<b>Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.</b>						

2	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 NMEDT SoC and Item no. 6 of NMEDT 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

Sugyan Singh



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## Annexure -5B

**PRELIMINARY EXPLORATION FOR PGE, GOLD, BASEMETALS & REE IN TIMKITOLA BLOCK (G3) [6 SQ. KM. DISTRICT- BALAGHAT, MADHYA PRADESH, REVIEW AFTER - 5 MONTHS & 10 MONTHS, PROJECT DURATION - 12 MONTHS.**

Sugyan Singh



**Agenda 19.3.6 Preliminary Exploration (G3) for Graphite in Patimal Block, District-Balangir, Odisha.**

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

- a) The project was recommended in 67<sup>th</sup> TCC meeting held on 24th, 25th & 26th July, 2024 and approved in the 37<sup>st</sup> EC Meeting held on 23<sup>rd</sup> September, 2024. The sanction order was issued on 22<sup>nd</sup> October 2024 with timeline of 12 months up to 21<sup>st</sup> October 2025 and approved cost was ₹207.65Lakh. The project was reviewed in 80<sup>th</sup> meeting of TCC-I held on 28<sup>th</sup>, 29<sup>th</sup> August, 2025 and 1<sup>st</sup> September, 2025.
- b) MECL informed that a total of 38-line kms were surveyed against the approved 30-line kms, with traverse lines at 100 m intervals and 10 m station intervals. The survey results show alternating positive and negative SP values forming linear patterns in the central part, which suggest structural control (faults/fractures) that indicate a favourable location for graphite occurrences. Five such potential locations have been identified as for further ground validation. Further, it was informed that trenching, drilling, sampling & sample analysis are yet to be done. It was briefed by MECL that due to local agitation, work could commence only in March 2025 after a delay of four months. By the time the initial activities were completed, the monsoon had arrived. Since almost the entire block is under agriculture, further work can only be taken up after the harvest, i.e., from end of December 2025.
- c) The agency requested for timeline extension of 8 months up to 20<sup>th</sup> June 2026.
- d) The committee asked the agency to submit a detailed justification for the delay in the project work. Recommendation for timeline extension of 8 months up to 20<sup>th</sup> June 2026, was agreed by the committee.

**Recommendation TCC-II**

***The Committee review the proposal and recommended approval of the PSC for a timeline extension of eight months, up to 20th June 2026, for submission of the final Geological Report (GR). The timeline extension due to local agitation, as a result of which the work could commence only in March 2025, leading to a delay of four months.***

**Agenda 19.3.7 Reconnaissance Survey (G-4) for REE, Glauconite and Associated minerals in Devpur Area (138.52 sq. km), Kachchh District, Gujarat.**

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

- a) The project was recommended in 6<sup>th</sup> TCC meeting held on 27<sup>th</sup> and 28<sup>th</sup> February, 2025 & 6<sup>th</sup> March 2025 and approved in the 41<sup>st</sup> EC Meeting held on 11<sup>th</sup> March 2025. The sanction order was issued on 19<sup>th</sup> March 2025 with timeline of 10 months up to 18<sup>th</sup> January 2026 and approved cost was ₹284.16 Lakh. 1<sup>st</sup> review was done in 12<sup>th</sup> meeting of TCC-II held on 22<sup>nd</sup>, 25<sup>th</sup>, 26<sup>th</sup> & 27<sup>th</sup> August, 2025 and committee advised for continuation of work as per approved quantum of work. The committee recommended the scout drilling for 500m (50mx10 BH) for Glauconite, 300m (30mx10 BH) for REE and Auger drilling for 490m (7mx70 BH).
- b) MECL informed that geological mapping on 1:12,500 scale of 138.52 sq. km. area has been done along with collection of BRS samples (for REE) and pitting. Chemical analysis for 150 samples including 50 BRS, 19 Pit & 81 Auger drill samples have been done. Gritty Ferruginous Sandstone in the eastern part of the block shows relatively higher value of  $\Sigma$ REE+Y (up to 0.14%  $\Sigma$ REE+Y), the Pit samples from Pit No-4 and Pit No-5 dug in the eastern part shows higher value of  $\Sigma$ REE+Y (up to 0.26%  $\Sigma$ REE+Y). The 10 Nos of BRS samples which shows  $\Sigma$ REE+Y >0.05% are having Y values 42.29



ppm to 587.58 ppm with average 216.27 ppm. The Y value in Pit samples where higher value of REE observed, enriched up to 0.12% of Y. Glauconitic horizon is not present near the surface. As observed, K<sub>2</sub>O% is encouraging in 8 nos. of samples up to 4.66 % of K<sub>2</sub>O. XRD and petrographic study under progress to understand the contributor of K<sub>2</sub>O%. The agency proposed 3 nos. of scout boreholes with 100m depth to intersected potential Ferruginous band of Katrol Formation as observed in adjacent Nokhaniya Block. Cumulative drilling meterage will be 300 m.

- c) The agency requested approval for collection of an additional 25 BRS samples each from ferruginous and limonitic units, along with a timeline extension of three months, up to 31st March 2026, for submission of the final Geological Report (GR), against the original timeline of 18th January 2026.
- d) The Committee agreed to the commencement of drilling in three boreholes, comprising one borehole of 100 m depth (for stratigraphic study) and two boreholes of 50 m depth each for REE related scout drilling. The Committee also agreed to recommend a timeline extension of three months, up to 31st March 2026, for submission of the final Geological Report (GR).

#### **Recommendation TCC-II**

*The Committee recommended the proposal for approval of the PSC for a “timeline extension of three months, up to 31st March 2026, for submission of the final Geological Report (GR).” The Committee also agreed to the commencement of drilling in three boreholes, comprising one borehole of 100 m depth and two boreholes of 50 m depth each for REE related scout drilling.*

#### **Agenda 19.3.8 Preliminary Exploration (G-3 Stage) for Magnetite and associated Vanadium mineralization in Khursipar Block, District: Gondia, Maharashtra.**

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

- a) 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 11<sup>th</sup> March 2025 for ₹273.10 Lakh with timeline of 12 months up to 18<sup>th</sup> March 2026. The project was reviewed in 16<sup>th</sup> TCC-II held on 3<sup>rd</sup> & 6<sup>th</sup> November 2025.
- b) MECL informed that as the drilling area falls under forest land, they have applied for forest clearance. All in-house drill rigs are currently deployed in NMEDT and other approved projects during the productive season and immediate mobilization of in-house rigs not feasible upon grant of forest clearance. So, the agency requested for approval of outsourced drilling in this project.
- c) The committee opined that doing this may cause financial complexity for already approved project. The Committee did not agree to the proposal for outsourcing of drilling for this project.”

#### **Recommendation TCC-II**

*The Committee did not agree for outsourcing of drilling.*

#### **Agenda 19.3.9 Reconnaissance Survey (G-4 Stage) for Limestone in and around Nanhwara Kymore Area, Katni District, Madhya Pradesh.**

**[Implementing Agency: M/s EngeoTech Pvt. Ltd.]**



- a) The project was recommended in 3<sup>rd</sup> meeting of TCC-II held on 5th and 6th December, 2024 and approved in 39<sup>th</sup> EC meeting held on 24<sup>th</sup> January 2025 for ₹70.15 Lakh with timeline of 10 months up to 9<sup>th</sup> December 2025. The project was reviewed in 9<sup>th</sup> meeting of TCC-II held on 29<sup>th</sup> & 30<sup>th</sup> May 2025. Additional drilling of 180m was approved in 43<sup>rd</sup> EC meeting held on 14<sup>th</sup> August 2025 with a revised cost of ₹103.59 Lakh.
- b) The agency informed that geological mapping on 1:12,500 scale of 22.52 sq. km. area have been completed along with survey work. Drilling, chemical analysis and petrological studies are in progress. The agency requested to shift the borehole locations due to local issues in project area. It informed the committee that out of 9 boreholes drilling has been completed in 3 boreholes (PBH-1, PBH-2, PBH-4) and borehole PBH-5 is running. Further, the agency requested for timeline extension on 6 months up to 8<sup>th</sup> June 2026 for submission of Geological report. the delay due to in local agitation and rainy season.
- c) The committee observed that the borehole PBH-3 proposed shifted location came close to the block boundary which is not in line with MEMC norms for drilling and suggested to drop the borehole PBH-3. The committee agreed for recommendation of timeline extension on 6 months up to 8<sup>th</sup> June 2026.
- d) The committee asked the agency to submit the revised cost sheet in upcoming TCC-II meeting.

#### **Recommendation TCC-II**

***The Committee recommended the proposal for approval of PSC for dropping one borehole (PBH-3) and for granting a timeline extension of six months, up to 8th June 2026 for submission of Geological report, in view of delays caused by local agitation and the rainy season.***

#### **Agenda 19.3.10 Reconnaissance Survey (G-4) for Phosphorite in Bijawar-Imiliya Area (95.67 sq.km.), Chhattarpur district, Madhya Pradesh.**

**[Implementing Agency: Madhya Pradesh State Mining Corporation Limited (MPSMCL)]**

- a) The project was recommended in 57<sup>th</sup> meeting of TCC held on 26th& 27th September, 2023 held and approved in 32<sup>th</sup> EC meeting held on 6<sup>th</sup> December 2023. Sanction order was issued on 12<sup>th</sup> December 2023 with approved cost of ₹126.86 Lakh with timeline of 12 months up to 11<sup>th</sup> December 2024. Timeline extension of 6 months up to 11<sup>th</sup> June 2025 was approved in 41<sup>st</sup> EC meeting held on 11<sup>th</sup> March 2025.
- b) The agency informed that geological mapping on 1:12,500 scale of 95.67 sq. km. area have been completed along with chemical analysis of 78 samples of trenching/pitting and chemical analysis of 20 BRS samples. Analytical results show P<sub>2</sub>O<sub>5</sub> values ranging from 0.1% to 1.48%.
- c) Further, the agency requested a timeline extension of 08 months, up to 10<sup>th</sup> February 2026. The request was made due to delays arising from local agitation and administrative issues in the block. The agency also informed that the analysis results of the pit and trench samples of the Bijawar Imiliya Phosphorite Block were awaited and subsequently received in November 2025, which accordingly influenced the overall project timeline.

- d) The committee opined that since the values of  $P_2O_5$  are not so encouraging the project may be closed. The committee agreed for recommendation for timeline extension of 08 months up to 10<sup>th</sup> February 2026 for final submission of Geological Report.
- e) The committee instructed agency to present revised cost sheet in the upcoming TCC -II meeting.

### Recommendation TCC-II

- ***The Committee recommended for approval of the PSC for timeline extension of 08 months, up to 10th February 2026, for submission of the final Geological Report (GR) in view of delays caused by local agitation and administrative issues in the block.***
- ***The committee opined that since the values of  $P_2O_5$  are not so encouraging, the project may be closed.***

#### Agenda 19.4 Project Evaluation for In-Principle Approval

##### **Agenda 19.4.1 Reconnaissance Survey (G4 Stage) in Bagor Area for base metal & associated critical & strategic minerals in Bhilwara District, Rajasthan.**

##### **[Implementing Agency: Critical Mineral Trackers (CMT)]**

- a) The Critical Mineral Trackers informed the committee about the communication of Rajasthan state government via RSMET vide letter no. RSMET/F-205/2025-26/256 that the block has been identified as prospective potential G-4 reconnaissance block in Bhilwara and Bharatpur districts based on AI/ML-assisted mineral studies through NPEA using gravity, magnetic, lineament, lithological and geochemical datasets and the integrated analysis As per communication of state government via RSMET this block has been allocated to the agency.
- b) The agency informed the committee about the range of NGCM Basemetal and critical mineral elements values i.e., Cu (0.16-63) ppm, Pb (11-35) ppm, Zn (41-121) ppm, La (44-464.22) ppm, Ce (89-877) ppm, Co (2-28) ppm, Li (2-38) ppm, Ni (13-94.79) ppm, Va(68-179.35) ppm, W (0.25-2.99) ppm along with two marked structural lineament.
- c) The committee agreed for in-principle-approval of the proposal.

S.N.	Agency	Comment
1	GSI	Informed that the proposed block shows approximately 40% overlap with Ashaholi area in FS 2019-20, Koshithal area in FS 2019-20 and Kaladhunda block in FS 2022-23 an already explored block of GSI under the same G-4 stage, In the submitted proposal of the NPEA block. The block lies adjacent to the Pur-Banera polymetallic belt, which hosts numerous known base-metal prospects. Earlier investigations in the nearby Kaladhunda block recorded elevated copper values. BRS samples returned Cu values between 0.2% and 0.3%, and channel sampling across these BRS locations yielded average copper concentrations of approximately 700 ppm, 430 ppm, 640 ppm, 385 ppm, and 450 ppm, demonstrating favourable base-metal signatures.
2	DMG Rajasthan	Details of CL/ML/QL etc. for either Major or Minor minerals in the proposed block, Aravalli Status (Both 2006 & FSI), Wild life Sanctuary, ESZ, 10A(2) (b) Case, Litigation, other NPEA block (Approved by NMEDT-As described at NMEDT site) 246.5014

		hectares area of this proposal area conflicts with held mining leases of mineral Quartz, Felspar, Mica, Masonary Stone, Bajri.
3	MECL	Informed that the proposed Bagor area does not overlap with current and previous exploration block of MECL.

d) The committee suggested to the agency to exclude the overlap areas already explored by GSI (in G4 stage) in southern part of proposal & submit the DPR after modification.

#### **Recommendation TCC-II**

***The Committee agreed for in-principle-approval of the proposal.***

#### **19.5 Cost Evaluation**

Cost evaluation was done and comments are included in respective agenda.




**Annexure -1**

**List of participants attended 19<sup>th</sup> meeting of Technical-cum-cost Committee (TCC-II) of NMEDT held on 16<sup>th</sup> and 17<sup>th</sup> December 2025 through video conferencing mode**

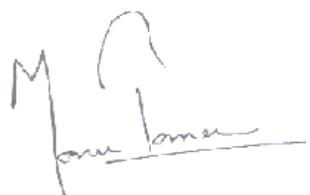
<b>S.no</b>	<b>Name</b>	<b>Designation</b>	<b>Email ID</b>	<b>Contact No</b>	<b>Organization</b>
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**Ministry of Mines**  
**National Mineral Exploration & Development Trust**  
**Minutes of 19<sup>th</sup> meeting of Technical-cum-Cost Committee - II (TCC - II)**  
**held on 16<sup>th</sup> & 17<sup>th</sup> December 2025**

F. No.: 6/4/2015-NMET/

New Delhi, 12th January 2026

**Corrigendum**

With reference to the minutes of 19th TCC-II Meeting held on **16th & 17th December 2025** the following modifications may be noted w.r.t the **Agenda no. 19.3.1 and 19.3.2.**

**Agenda 19.3.1 Reconnaissance survey (G4) for copper and associated minerals in Kochipur Area District - Sidhi, Madhya Pradesh.**

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

**Recommendations of TCC-II**

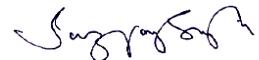
- *The committee recommended for approval of the PSC for additional sample analyses amounting to ₹ 65131.00 (including GST) and revised cost from ₹ 125.13 Lakhs to ₹ 125.78/- Lakhs. as per Annexure- 3.*
- *Further, the committee also recommended for approval of the PSC for a timeline extension of two (02) months up to 28th February 2026 for peer review of the Geological Report (GR), and subsequent submission of the GR,*

**Agenda 19.3.2 Preliminary exploration for Magnetite and associated minerals in Pipradih Block, District Giridih, State Jharkhand**

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

**Recommendation TCC-II**

- *The Committee recommended the proposal for approval of the PSC for a timeline extension of three months up to 31st March 2026. along with recommendation of an additional one labourer per party day and five number of samples for complete mineragraphic studies, amounting to ₹1,01,564.00 (including GST) and revised cost from ₹ 147.25 Lakhs to ₹ 148.27/-Lakhs as per Annexure 4.*
- *The TCC-II Committee during deliberation observed that out of identified mineralized locales, zone A & B have indicated moderate Fe values. The Committee suggested to test its continuation at sub-surface four (04) BHs may be drilled at 30 m vertical depth at designated BH spacing as per MEMC rules. Total drilling quantum may be around 200 m.*



[श्री. संजय सिंह/Sh. Sanjay Singh]

निदेशक एवं सदस्य सचिव/Director & Member Secretary,

टी.सी.सी-II, एनएमईडीटी TCC-II, NMEDT