

**Ministry of Mines**  
**National Mineral Exploration and Development Trust**  
**Minutes of the 6th Joint Meeting of Technical-cum-Cost Committees held on**  
**6<sup>th</sup> February, 2026 through video conferencing mode**

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The 6<sup>th</sup> Joint meeting of Technical Cum-Cost Committees (TCC-I & TCC-II) of National Mineral Exploration and Development Trust (NMEDT) was held on 6<sup>th</sup> February, 2026 in VC mode to review DPR of one Regional Mineral Targeting project, Costing of one RMT project as per revised SoC-2025. Review of four ongoing Regional Mineral Targeting (RMT) projects was also done. The final agenda of the meeting was to allocate 6 number of blocks carved out by Geological Survey of India from Siwana Ring Complex, Rajasthan for exploration through NMEDT fund by Notified Private Exploration Agencies (NPEAs). The meeting was combined chaired by Dr. S. Ravi, Dy. Director General, Geological Survey of India (GSI) and Chairman, TCC-I and Shri Pradeep Singh, Dy. Director General, Geological Survey of India (GSI) and Chairman, TCC-II.

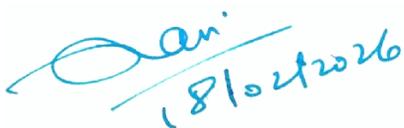
The list of participants is provided in Annexure-IV.

Dr. S. Ravi, Chairman, TCC-I, extended a warm welcome to all members and apprised them of the purpose of the meeting. Shri Pradeep Singh, Chairman, TCC-II, also welcomed the participants.

**Agenda 6.1 Technical Evaluation of New RMT (Regional Mineral Targeting)**  
**Project Proposal**

**Agenda 6.1.1 Regional Mineral Targeting (RMT) in parts of Lalitpur and Jhansi districts of Uttar Pradesh and Shivpuri and Tikamgarh districts of Madhya Pradesh**  
**[Implementing Agency: Geovale Services Pvt. Ltd.]**

- a. The proposed block forms a part of Bundelkhand Craton and which has a very large long evolutionary history and the available geochemical data is suggestive of arc affinity granites dominating the area.
- b. The agency apprised the Committee that incidences of gold, molybdenite, and base metals had been reported from several parts of the BGC.
- c. The agency detailed the available geochemical data and emphasized the need for predictive mineral system analysis in the area.
- d. The agency suggested that the proposed RMT area likely includes interplay of different tectonic settings, viz., continental arc, thickened crust with post subduction magmas and Mesoarchean Bundelkhand Gneissic Complex and each of these tectonic domains may host unique mineral systems.
- e. The agency also informed the committee that the broad objective of present proposal is to assess the possibility of mineralization related to thickened crust in the north and east (like rare metals and REE). Assessment of mineralization potential of reported syenite and lamprophyre magma system would also be done.
- f. The committee reviewed the proposal and suggested that before taking the predictive modelling into the consideration, geophysical proxy map for shallow, intermediate and deep levels are to be prepared separately. The existing geological maps needs to be reinterpreted in for understanding the mineral system elements.
- g. On enquiry by the Committee, the agency informed that about 10% of the area (~100 sq. km) falls under forest cover, which is sparsely distributed.

  
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- h. The proposed block falls in states of both Uttar Pradesh and Madhya Pradesh. However, the state of Madhya Pradesh has larger area in the proposed block, hence the project will be monitored by GSI, MP and bills would be certified by GSI, SU: Madhya Pradesh.

**Recommendations of Joint TCC:**

***The committee recommended the proposal titled “Regional Mineral Targeting in Parts of Lalitpur and Jhansi Districts of Uttar Pradesh and Shivpuri and Tikamgarh Districts of Madhya Pradesh” for approval of PSC, NMEDT with an estimated cost of ₹722.02 lakhs (including GST) within time schedule of 24 months for carrying out the proposed work and submission of report as per Annexure – 1A & 1B. The item will be reviewed after 6<sup>th</sup>, 12<sup>th</sup> and 18<sup>th</sup> months.***

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## Regional Mineral Targeting in Parts of Lalitpur and Jhansi Districts of Uttar Pradesh and Shivpuri and Tikamgarh Districts of Madhya Pradesh

Name of the Exploration Agency - Geovale Services Pvt. Ltd.

Total Area - 1000 sq. km; Core drilling: Total 2000m; 10 BH (Tentative); Completion Time -24 Months, Review: 6 months, 12 months &amp; 18 months

S.N	Item of work	Unit	Rates as per NMET SoC	Rates as per SOC	Quantum	Total Amount (Rs)	Remarks
			SoC-Item -SI No.				
<b>A</b>	<b>Geological Work</b>						
<b>1</b>	<b>HQ Activities</b>						
a	Data integration and interpretation (Head Quarter work)	1 geologist/day	1.2.1a (a)	10,500.00	120	12,60,000.00	
b	AI/ML (400 sq. km)	Per 100 sq. km (₹5,00,000 for 100 sq km; increases by ₹800/sq km for each additional 1 sq. km.)	8a	5,00,000.00	400	7,40,000.00	TCC approved 20,00,000/- 500000 * 4. However, as per SoC, it is corrected as 7,40,000/- (As per discussion with DG, NMEDT). To be confirmed by TCC
c	Cost of interpretation in terms of Geophysicist mandays (HQ)	day	3.18	10,500.00	45	4,72,500.00	Re-gridding of 1000 sq. km area GP data like magnetic, aeromagnetic (?), gravity and other available existing GP data. New derivative maps to be prepared
	<b>Sub-Total 1</b>					24,72,500.00	
	<b>Total Phase I</b>					<b>24,72,500.00</b>	
	<b>Phase II</b>						
<b>2</b>	<b>Geological Mapping &amp; sampling</b>	1000 sq km					

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a	Geologists (HQ) days (1 No)	1 geologist/ day	1.2.1a (a)	10,500.00	50	5,25,000.00	
b	Geologist field-days	1 geologist/ day	1.2.1(b)	14,500.00	120	17,40,000.00	
c	Labour (Field days)	per labour day	5.8	541.00	240	1,29,840.00	Amount will be reimburse as per the notified rates by the Central Labour Commission or respective State Govt. whichever is higher
	<b>Sub-Total 2</b>					<b>23,94,840.00</b>	
<b>3</b>	<b>Pitting</b>	per cu.m	2.1.2	4,725.00	300	14,17,500.00	No of samples 150
	<b>Sub-Total 3</b>					<b>14,17,500.00</b>	
<b>4</b>	<b>Laboratory Studies</b>						
	<b>Geochemical Analysis for regional and detail survey</b>						400 BRS; 200 SS: 200 Soil samples and 150 pitting samples
a	XRF (major oxides)	per sample	4.1.17a	4,200.00	100	4,20,000.00	
b	Check samples for XRF	per sample	4.1.17a	4,200.00	10	42,000.00	
c	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS. + Addl. Elements (Cu, Pb, Zn, W)	per sample	4.1.15	9,084.00	950	86,29,800.00	(Rate of REE + Rs. 421 extra for 4 addl. Elements each)
d	Check samples: Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS. + Addl. Elements (Cu, Pb, Zn, W)	per sample	4.1.15	9,084.00	95	8,62,980.00	
e	Analysis for gold by fire assay technique	per sample	4.1.5a	3,500.00	100	3,50,000.00	
f	Check samples: Analysis for gold by fire assay technique	per sample	4.1.5a	3,500.00	10	35,000.00	
g	EPMA	per hour	4.4.1	10,500.00	25	2,62,500.00	
h	XRD (clay mineral alteration)	per sample	4.5.2	4,000.00	100	4,00,000.00	
i	Heavy mineral separation by liquid	per sample	4.3.6a	2,890.00	200	5,78,000.00	

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j	Sampler man-days	one sampler per day	1.2.1b	7,850.00	158	12,40,300.00	
j	Labor(4 workers per sampler)	per labor day	5.8	541.00	632	3,41,912.00	Amount will be reimbursed as per the notified rates by the Central Labour Commission or respective State Govt. whichever is higher
<b>Sub-Total 4</b>						<b>1,31,62,492.00</b>	
<b>5</b>	<b>Petrological studies</b>						
a	Thin section preparation	per sample	4.3.2	800.00	200	1,60,000.00	
b	Complete petrographic /ore microscopic study/minergraphic report of rock sample ( along with 5 nos. digital photo micrographs)	per sample	4.3.4	2,800.00	300	8,40,000.00	including 100 SS binocular study
d	Fluid Inclusion Studies	per sample	4.3.8	10,200.00	25	2,55,000.00	
e	Isotopic Studies	per sample	4.6.2	26,000.00	25	6,50,000.00	
<b>Sub-Total 5</b>						<b>19,05,000.00</b>	
<b>Total Phase II</b>						<b>1,88,79,832.00</b>	
<b>Phase III</b>							
<b>6</b>	<b>Geophysical Survey</b>						
a	Electromagnetic survey (per sounding)	per line km	3.7a	21,197.00	250	52,99,250.00	Subject to surface manifestation. Will be taken after review of 2nd phase
b	Drone Magnetic Survey	Per Line Km	7a	8,000.00	250	20,00,000.00	25 L km
c	Expert Charges for Geophysicist (HQ)	Geophysicist per day	3.18	10,500.00	40	4,20,000.00	
<b>Sub-Total 6</b>						<b>77,19,250.00</b>	
<b>Total Phase III</b>						<b>77,19,250.00</b>	
<b>Phase IV (Trenching &amp; Drilling)</b>							
6	Trenching Excavation of Trenches upto 2.0 m depth	per cu. M	2.1.1	4,125.00	100	4,12,500.00	
<b>7</b>	<b>Geological Work (Drilling In-house)</b>						

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a	Core drilling (2000 m)	per meter	2.2.1.1d	10,000.00	2000	2,00,00,000.00	Quantum and no. of BH would be decided after review of the 3rd phase
b	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	30,000.00	10	3,00,000.00	
c	Concrete pillar construction (12"x12"x30")	per BH	2.2.7a	2,000.00	10	20,000.00	
d	Drill Core Preservation	per meter	5.3	1,590.00	400	6,36,000.00	(1 complete BH + Mineralised zone)
e	Miscellaneous Charges (Transportation of Drilling Rig, Accommodation, Camp setting, Approach road, etc.)	lumpsum	2.2.9	Miscellaneous Charges (Transportation of Drilling Rig, Accommodation, Camp setting, Approach road, Drill core preservation etc.)	For Drilling cost more than 2 Crore : 10% of the Drilling with a maximum ceiling of ₹ 25 lakh.	20,00,000	
	Geologist field-days	1 geologist/day	1.2.1(b)	14500	60	8,70,000	For core logging, sampling and trenching
	Labour (Field days)	per labor day	5.8	541	120	64,920	
	<b>Sub-Total 6</b>					<b>2,43,03,420.00</b>	
<b>7</b>	<b>Laboratory Studies</b>						
	<b>Geochemical Analysis (BH samples)</b>						(2500BHS)
a	XRF (major oxides)	per sample	4.1.17a	4,200.00	50	2,10,000.00	
b	Check samples for XRF	per sample	4.1.17a	4,200.00	5	21,000.00	
c	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element	per sample	4.1.15	9,084.00	500	45,42,000.00	400 core samples + 100 Trench samples ( Rate of REE + Rs 421 extra for 4 addl. Elements each)

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	(U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS. + Addl. Elements (Cu, Pb, Zn, W)						
	Check samples: Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS. + Addl. Elements (Cu, Pb, Zn, W)	per sample	4.1.15	9,084.00	50	4,54,200.00	(Rate of REE + Rs. 421 extra for 4 addl. Elements each)
d	Analysis for gold by fire assay technique	per sample	4.1.5a	3,500.00	100	3,50,000.00	
e	Check samples for Gold fire assay	per sample	4.1.5a	3,500.00	10	35,000.00	
f	XRD	per hour	4.5.2	4,000.00	35	1,40,000.00	
g	EPMA	per hour	4.4.1	10,500.00	20	2,10,000.00	
h	Sampler man-days	one sampler per day	1.2.1b	7,850.00	89	6,98,650.00	
i	Labor (4 workers per sampler)	per labor day	5.7	541.00	356	1,92,596.00	Amount will be reimburse as per the notified rates by the Central Labour Commission or respective State Govt. whichever is higher
	<b>Sub-Total 7</b>					<b>68,53,446.00</b>	
<b>8</b>	<b>Petrological studies (BH Samples)</b>						
a	Thin section preparation	per sample	4.3.2	800.00	50	40,000.00	
b	Microscopic study/Mineragraphic study	per sample	4.3.4	2800.00	50	1,40,000.00	
	<b>Sub-Total 8</b>					<b>1,80,000.00</b>	
	<b>Total Phase IV</b>					<b>3,13,36,866.00</b>	
	<b>Total (Phase I+ Phase II+ Phase III+ Phase IV)</b>					<b>6,04,08,448.00</b>	
	<b>Sub</b>						
<b>9</b>	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	Lumpsum	5.1	2% of the cost subject to a maximum of 5 lakhs	1	-	This amount 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 TCCNMET in its meeting while clearing the proposal.

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10	Final report preparation		5.2 (iii)	Total cost of the project exceeding ₹150 lakh ₹7.5 lakh	1	7,50,000.00	Final report submission, peer review and project conclusion
11	Report Peer Review	Lump sum	As per EC	30,000.00	1	30,000.00	
<b>Project Cost without GST</b>				<b>Project Cost without GST</b>		<b>6,11,88,448.00</b>	
<b>18% GST</b>				<b>18% GST</b>		<b>1,10,13,920.64</b>	GST will be reimbursed as per actual and as per the applicable notified rate
				<b>Total Project Cost</b>		<b>7,22,02,368.64</b>	
				<b>Total Project Cost (in lakh)</b>		<b>722.02</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	<b>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.</b>						
3	<b>If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 6 of NMET SoC. In case of execution of the project by NEA/NPEA on its own, a Certificate regarding non outsourcing of any component/project is required.</b>						
4	<b>Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.</b>						
5	<b>Any item of work not mentioned above shall be added as per SoC.</b>						
6	<b>All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency</b>						

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**Time Schedule/ Action Plan for Regional Mineral Targeting in Parts of Lalitpur and Jhansi Districts of Uttar Pradesh and Shivpuri and Tikamgarh Districts of Madhya Pradesh**

S. No.			1	2	3	4	5	6		7	8	9	10	11	12		13	14	15	16	17	18		19	20	21	22	23	24		
1	Camp Setting	Months/ Days	█						Review							Review															
2	Geological Mapping & Sampling	days		█	█	█	█	█		█	█	█	█	█																	
3	Geophysical survey	L.km								█	█	█	█	█	█			█	█												
4	Geophysicist party days (HQ) for data interpretation & Report	Days								█	█	█	█	█	█																
5	Trenching	cu.m																													
6	Drilling (4 rigs)	m																	█	█	█	█	█	█	█	█	█				
7	Camp Winding	months															█												█	█	
8	Laboratory Studies	Nos.			█	█	█	█			█	█	█	█	█		█		█	█	█	█	█	█	█	█	█	█	█		
9	Report Writing with Peer Review	months													█		█									█	█	█	█	█	█

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**Agenda 6.2 Costing of New RMT (Regional Mineral Targeting) Project Proposal  
as per Revised SoC (2025)**

**Agenda 6.2.1 Regional Mineral Targeting (RMT) in parts of AMGC and associated  
granites West Khasi Hill and East Garo Hill Districts, Meghalaya.**

**[Implementing Agency: MMPL Pvt. Ltd.]**

- a. The Executive Committee of NMEDT, in its 43rd meeting held on 14.08.2025, approved the RMT in Meghalaya to M/s MMPL Pvt. Ltd. for a 24-month period.
- b. The quantum of work had been finalized in the 1st Joint TCC meeting and tentative costing was approved for initiation of work. The recommendations were for purpose of initiating the project. The final costing was to be done after the revised SoC of NMEDT is issued. The tentative costing of the project was Rs. 1781.90 lakh.
- c. The project costing has now been revised as per the revised SoC of NMEDT (2025).

**Recommendations of Joint TCC:**

***The cost of the project is revised as per revised SoC of NMEDT (2025). The cost of the project is revised from Rs. 1781.90 lakh to Rs. 1124.44 lakh as per Annexure 2.***

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Estimated cost for Regional Mineral Targeting in parts of AMGC and associated granites for identification of prospecting blocks in West Khasi Hills, South West Khasi Hills, East Khasi Hills, East Garo Hills and South Garo Hills in Meghalaya and a small part in Kamrup district of Assam  
Total area 2174.95 sq km, Period of Completion: 24 months, Drilling 2000m, Review: Quarterly/ after completion of Each Phase

S. No.	Item of Work *	Unit *	Rates as per NMEDT		Estimated Cost of the		Estimated cost after applying Multiplication factor	Remarks
			SoC- Item No.	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)		
<b>A. HQ work</b>								
a	Cost of interpretation in terms of geologist mandays (HQ)	day	1.2.1a (a)	₹ 10,500.00	120	₹ 12,60,000.00	₹ 12,60,000.00	Involvement of 2 geologist
b	Cost of interpretation in terms of Geophysicist mandays (HQ)	day	3.18	₹ 10,500.00	30	₹ 3,15,000.00	₹ 3,15,000.00	Involvement of 1 geophysicist
<b>Sub Total- A</b>						<b>₹ 15,75,000.00</b>	<b>₹ 15,75,000.00</b>	
<b>Sub Total Phase I</b>							<b>₹ 15,75,000.00</b>	
<b>Generation of Review Report after completion of Phase I</b>								
<b>Phase-II Traverse Mapping on 1: 25,000/1:50000 Scale</b>								
<b>Timeline: 8 months , Review : after completion of Phase II, Review Report</b>								
<b>B</b>	<b>Traverse Mapping Other Geological Work &amp; Surveying</b>							
ii	b. Charges for Geologist per day (Field) for Traverse mapping & trenching work (@ selective places), (without labour)	day	1.2.1a (b)	₹ 14,500.00	150	₹ 21,75,000.00	₹ 32,62,500.00	Field Reconnaitory survey and Geological mapping (1:25,000/50,000 scale) with revisit of previous work
iii	c. Labours Charges; Base rate	day	5.8	₹ 541.00	300	₹ 1,62,300.00	₹ 2,43,450.00	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.

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iv	d. Charges for Geologist per day (HQ)	day	1.2.1a (a)	₹ 10,500.00	45	₹ 4,72,500.00	₹ 4,72,500.00	
<b>Sub Total- B</b>						<b>₹ 28,09,800.00</b>	<b>₹ 39,78,450.00</b>	
<b>C</b>	<b>Trenching/Pitting</b>							
a	Trenching	per cu.m	2.1.1	₹ 4,125.00	300	₹ 12,37,500.00	₹ 18,56,250.00	150 trench (2cu.m)
b	Pitting	per cu.m	2.1.2	₹ 4,725.00	100	₹ 4,72,500.00	₹ 7,08,750.00	50 pit (2cu.m) (for secondary REE enrichment study)
<b>Sub Total C</b>						<b>₹ 17,10,000.00</b>	<b>₹ 25,65,000.00</b>	
<b>D</b>	<b>Laboratory Studies</b>							
1	<b>Chemical Analysis</b>							
i)	<b>Geochemical Sampling-Surface samples (Bedrock/ Channel/ Soil/ Stream sediment)</b>							BRS 200
a	Analysis of major oxides by XRF	Nos	4.1.17a	₹ 4,200.00	200	₹ 8,40,000.00	₹ 8,40,000.00	
b	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS	Nos	4.1.15	₹ 7,400.00	100	₹ 7,40,000.00	₹ 7,40,000.00	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS (sequential technique)
c	Analysis for Au by fire assay technique	Nos	4.1.5a	₹ 3,500.00	20	₹ 70,000.00	₹ 70,000.00	For Gold
d	PGE (six elements)	Nos	4.1.6	₹ 13,600.00	20	₹ 2,72,000.00	₹ 2,72,000.00	For PGE (ICP-MS Ni-S Fire assay technique)
e	FeO analysis by wet chemical method For Magnetite samples	Nos	4.1.4	₹ 6,760.00	40	₹ 2,70,400.00	₹ 2,70,400.00	Analysis of chrome - ore sample by wet chemical method (12 determinations)
ii)	<b>Surface Check samples (10% External)</b>							
a	Analysis of major oxides by XRF	Nos	4.1.17a	₹ 4,200.00	20	₹ 84,000.00	₹ 84,000.00	Major oxides (WD XRF)- (oxides+ traces -24 elements)

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b	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS	Nos	4.1.15	₹ 7,400.00	10	₹ 74,000.00	₹ 74,000.00	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS (sequential technique)
c	Analysis for Au by fire assay technique	Nos	4.1.5a	₹ 3,500.00	2	₹ 7,000.00	₹ 7,000.00	
d	PGE (six elements)	Nos	4.1.6	₹ 13,600.00	2	₹ 27,200.00	₹ 27,200.00	
e	FeO analysis by wet chemical method For Magnetite samples	Nos	4.1.4	₹ 6,760.00	4	₹ 27,040.00	₹ 27,040.00	
iii)	<b>PIT &amp; Trench Samples</b>						₹ 0.00	
a	Analysis of major oxides by XRF	Nos	4.1.17a	₹ 4,200.00	150	₹ 6,30,000.00	₹ 6,30,000.00	100 Trench& 50 Pit samplesFor rock characterization
b	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS	Nos	4.1.15	₹ 7,400.00	150	₹ 11,10,000.00	₹ 11,10,000.00	For Rare metal & rare earth elements
c	Analysis for Au by fire assay technique	Nos	4.1.5a	₹ 3,500.00	20	₹ 70,000.00	₹ 70,000.00	
d	PGE (six elements)	Nos	4.1.6	₹ 13,600.00	20	₹ 2,72,000.00	₹ 2,72,000.00	
e	FeO analysis by wet chemical method For Magnetite samples	Nos	4.1.4	₹ 6,760.00	40	₹ 2,70,400.00	₹ 2,70,400.00	
iv)	<b>Check samples (10% External)</b>						₹ 0.00	
a	Analysis of major oxides by XRF	Nos	4.1.17a	₹ 4,200.00	15	₹ 63,000.00	₹ 63,000.00	For rock characterization
b	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS	Nos	4.1.15	₹ 7,400.00	15	₹ 1,11,000.00	₹ 1,11,000.00	For Rare metal & rare earth elements

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c	Analysis for Au by fire assay technique	Nos	4.1.5a	₹ 3,500.00	2	₹ 7,000.00	₹ 7,000.00	
d	PGE (six elements)	Nos	4.1.6	₹ 13,600.00	2	₹ 27,200.00	₹ 27,200.00	
e	FeO analysis by wet chemical method For Magnetite samples	Nos	4.1.4	₹ 6,760.00	4	₹ 27,040.00	₹ 27,040.00	For Gold
<b>2</b>	<b>Physical &amp; Petrological Studies</b>						₹ 0.00	
iii	Preparation of thin polish section	Nos	4.3.2	₹ 800.00	100	₹ 80,000.00	₹ 80,000.00	Preparation of polished thin section of rock/ wafer
iv	study of polished section	Nos	4.3.4	₹ 2,800.00	100	₹ 2,80,000.00	₹ 2,80,000.00	
v	Digital Photographs	Nos					₹ 0.00	
viii	XRD	Nos	4.5.2	₹ 4,000.00	20	₹ 80,000.00	₹ 80,000.00	
<b>Sub Total D</b>						<b>₹ 54,39,280.00</b>	<b>₹ 54,39,280.00</b>	
<b>Sub total Phase II</b>						<b>₹ 99,59,080.00</b>	<b>₹ 1,19,82,730.00</b>	
<b>Submission of Review Report after completion of Phase II</b>								
<b>Phase-III</b>								
<b>Timeline: 6months, Review : after completion of Phase III, Review Report</b>								
<b>F</b>	<b>Ground Geophysical Survey- In- House</b>							
1	Gravity - magnetic method	per station	3.1b	₹ 4,500.00	800	₹ 36,00,000.00	₹ 54,00,000.00	(500 x 500 grid); 200 Sq. Km.
i)	IP cum-resistivity, SP, magnetic (100 line Km)	8-10 Line Km	3.4.b	₹ 14,48,693.00	10	₹ 1,44,86,930.00	₹ 2,17,30,395.00	Over most potential target areas
ii)	Cost of interpretation in terms of Geophysicist mandays (HQ)	day	3.18	₹ 10,500.00	45	₹ 4,72,500.00	₹ 4,72,500.00	
iii)	Geologist: Field	Mandays	1.2.1a	₹ 14,500.00	90	₹ 13,05,000.00	₹ 19,57,500.00	
iv)	Labour charges (for sample collection, packaging, carrying)	Mandays	5.8	₹ 541.00	180	₹ 97,380.00	₹ 1,46,070.00	2 labour per Geologist; Amount will be reimbursed as per the notified rates by the Central Labour Commission or respective State Govt. whichever is higher.
v)	Geologist: HQ- For Preparation of Interim Progress Report	Mandays	1.2.1a	₹ 10,500.00	30	₹ 3,15,000.00	₹ 3,15,000.00	

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vi)	Charges for one sampler per day (for sample preparation)	Mandays	1.2.1b	₹ 7,850.00	38	₹ 2,98,300.00	₹ 4,47,450.00	
vii)	Labour charges (for sample preparation)	Mandays	5.8	₹ 541.00	152	₹ 82,232.00	₹ 1,23,348.00	
viii)	Pitting	per cu m	2.1.2	₹ 4,725.00	100	₹ 4,72,500.00	₹ 7,08,750.00	1.0m x 1.0m x 1.0m
ix)	Trenching	per cu m	2.1.1	₹ 4,125.00	200	₹ 8,25,000.00	₹ 12,37,500.00	
x)	Bed Rock, Channel, pit-trench samples				300			Collection of samples
xi)	BRS / Chip/ Channel Samples/ Trench/ Pit	Per Sample	4.1.15	₹ 7,400.00	250	₹ 18,50,000.00	₹ 18,50,000.00	ICPMS
xii)	Oxide Analysis	Per sample	4.1.17a	₹ 4,200.00	50	₹ 2,10,000.00	₹ 2,10,000.00	
xiii)	Preparation of thin polish section	Nos	4.3.2	₹ 800.00	25	₹ 20,000.00	₹ 20,000.00	
xiv)	Study of polished section	Nos	4.3.4	₹ 2,800.00	25	₹ 70,000.00	₹ 70,000.00	
	Digital photograph	Nos					₹ 0.00	
xvi)	Bulk density analysis	Nos	4.8.3	₹ 2,500.00	3	₹ 7,500.00	₹ 7,500.00	
xvii)	EPMA	per hour	4.4.1	₹ 10,500.00	10	₹ 1,05,000.00	₹ 1,05,000.00	
xviii)	Fluid Inclusion Study	Nos	4.3.8	₹ 10,200.00	5	₹ 51,000.00	₹ 51,000.00	
xivx)	Geochronology (Isotope studies by LA- MC-ICPMS)	Nos	4.6.3	₹ 10,400.00	5	₹ 52,000.00	₹ 52,000.00	
	AI/ML (500 sq km)	Per 100 sq. km (₹5,00,000 for 100 sq km; increases by ₹800/sqkm for each additional 1 sq. km.)	8a	₹ 5,00,000.00	5	₹ 8,20,000.00	₹ 8,20,000.00	This estimate is subjected to revision based on the delineation of the potential mineralised area. Presently it is considered as 500 sq km. TCC approved 20,00,000/- 500000 * 5. However, as per SoC, it is corrected as 8,20,000/- (As per discussion with DG, NMEDT).
	<b>Sub Total</b>					<b>₹ 2,51,40,342.00</b>	<b>₹ 3,57,24,013.00</b>	
<b>Phase- IV Timeline: 6 months (Drilling)</b>								
<b>F</b>	<b>Survey work</b>							

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a	DGPS Survey for BH fixation & RL determination	Per Point of observation of observation	1.3.2	₹ 24,000.00	21	₹ 5,04,000.00	₹ 7,56,000.00	11 Cardinal points & 10 borehole
<b>Sub-Total F</b>						<b>₹ 5,04,000.00</b>	<b>₹ 7,56,000.00</b>	
<b>G</b>	<b>Drilling (after review)</b>							
1	Drilling up to 2000 m ( Hard rock)	m	2.2.1.1d	₹ 10,000.00	2000	₹ 2,00,00,000.00	₹ 3,00,00,000.00	Drilling meterage and no. of boreholes will be decided after review. This is tentative costing
2	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	₹ 30,000.00	10	₹ 3,00,000.00	₹ 4,50,000.00	As per actuals
3	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7	₹ 2,000.00	10	₹ 20,000.00	₹ 30,000.00	
4	Miscellaneous Charges (Transportation of Drilling Rig, Accommodation for Drill Camp, Camp setting and winding, construction of Approach road)	Lumpsum	2.2.9	Miscellaneous charges drilling		₹ 25,00,000.00	₹ 37,50,000.00	For drilling cost more than 2 Cr: 10% of cost with maximum ceiling of 25 lakhs. Also as per SoC, maximum ceiling is Rs. 25,00,000
5								
6								
7								
8								
	Drill Core Preservation		5.3	₹ 1,590.00	500	₹ 26,63,250.00	₹ 26,63,250.00	Drill Core Preservation (The actual quantum to be decided after review).
10	Charges for Geologist per day for execution of drilling activity (without labour)	day	1.2.1a	₹ 14,500.00	120	₹ 17,40,000.00	₹ 26,10,000.00	(The actual quantum to be decided after review)
11	b. Labours Charges; Base rate	day	5.8	₹ 541.00	240	₹ 1,29,840.00	₹ 1,94,760.00	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
12	Charges for Geologist per day (HQ)	day	1.2.1a	₹ 10,500.00	30	₹ 3,15,000.00	₹ 3,15,000.00	

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13	Charges for one Sampler per day (1 Party)	one sampler per day	1.2.1b	₹ 7,850.00	81	₹ 6,35,850.00	₹ 9,53,775.00	
14	Labours (4 Nos)	day	5.8	₹ 541.00	324	₹ 1,75,284.00	₹ 2,62,926.00	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
<b>Sub Total G</b>						<b>₹ 2,84,79,224.00</b>	<b>₹ 4,12,29,711.00</b>	
<b>H</b>	<b>Laboratory Studies</b>							
1	<b>Chemical Analysis</b>							
i)	<b>BH Core samples</b>							
a	Analysis of major oxides by XRF	Nos	4.1.17a	₹ 4,200.00	100	₹ 4,20,000.00	₹ 4,20,000.00	No. of samples may change. To be decided after review
b	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U, Ta, Ge, Be, Hf, Sn, As, Rb, Th) by ICP-MS (sequential technique)	Nos	4.1.15	₹ 7,400.00	250	₹ 18,50,000.00	₹ 18,50,000.00	No. of samples may change. To be decided after review
c	Analysis for Au by fire assay technique	Nos	4.1.5a	₹ 3,500.00	40	₹ 1,40,000.00	₹ 1,40,000.00	No. of samples may change. To be decided after review
d	PGE (five elements)	Nos	4.1.6	₹ 13,600.00	25	₹ 3,40,000.00	₹ 3,40,000.00	No. of samples may change. To be decided after review
e	FeO analysis by wet chemical method For Magnetite samples	Nos	4.1.4	₹ 6,760.00	0	₹ 0.00	₹ 0.00	
ii)	<b>BH Core samples (10%External)</b>							
a	Analysis of major oxides by XRF	Nos	4.1.17a	₹ 4,200.00	10	₹ 42,000.00	₹ 42,000.00	
b	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U, Ta, Ge, Be, Hf, Sn, As, Rb, Th) by	Nos	4.1.15	₹ 7,400.00	25	₹ 1,85,000.00	₹ 1,85,000.00	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U, Ta, Ge, Be, Hf, Sn, As, Rb, Th)

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	ICP-MS (sequential technique)							by ICP-MS (sequential technique)
c	Analysis for Au by fire assay technique	Nos	4.1.5a	₹ 3,500.00	4	₹ 14,000.00	₹ 14,000.00	
d	PGE (five elements)	Nos	4.1.6	₹ 13,600.00	3	₹ 40,800.00	₹ 40,800.00	
e	FeO analysis by wet chemical method For Magnetite samples	Nos	4.1.4	₹ 6,760.00	0	₹ 0.00	₹ 0.00	
2	<b>Physical &amp; Petrological Studies</b>						₹ 0.00	
iii	Preparation of thin polish section	Nos	4.3.2	₹ 800.00	20	₹ 16,000.00	₹ 16,000.00	
iv	study of polished section	Nos	4.3.4	₹ 2,800.00	20	₹ 56,000.00	₹ 56,000.00	
vi	Bulk density analysis	Nos	4.8.3	₹ 2,500.00	3	₹ 7,500.00	₹ 7,500.00	
viii	XRD	Nos	4.5.2	₹ 4,000.00	20	₹ 80,000.00	₹ 80,000.00	
ix	EPMA	per hour	4.4.1	₹ 10,500.00	5	₹ 52,500.00	₹ 52,500.00	
	<b>Total H</b>					<b>₹ 32,43,800.00</b>	<b>₹ 32,43,800.00</b>	
I	<b>Total A to H</b>					<b>₹ 6,89,01,446.00</b>	<b>₹ 9,45,11,254.00</b>	
J	Geological Report Preparation	<b>5 Hard copies with a soft copy</b>	5.2		ii	₹ 7,50,000.00	₹ 7,50,000.00	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
K	<b>Peer review Charges</b>		<b>As per EC decision</b>	₹ 30,000.00	1	<b>₹ 30,000.00</b>	<b>₹ 30,000.00</b>	
L	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs.5 Lakhs whichever is less		-	₹ 0.00	The block was given to agency.
M	<b>Total Estimated Cost without GST</b>					<b>₹ 6,96,81,446.00</b>	<b>₹ 9,52,91,254.00</b>	
N	<b>Provision for GST (18% of J)</b>					<b>₹ 1,25,42,660.28</b>	<b>₹ 1,71,52,425.72</b>	GST will be reimburse as per actual and as per notified prescribed rate

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O	Total Estimated Cost with GST			₹	₹	
				8,22,24,106.28	11,24,43,679.72	
	Rs. In Lakhs		Rs. In Lakhs	₹ 822.24	₹ 1,124.44	
<b>Note:</b>						
<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</b>	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.					
<b>3</b>	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.					
<b>4</b>	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.					
<b>5</b>	Any item of work not mentioned above shall be added as per SoC.					
<b>6</b>	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.					
<b>7</b>	The recommendations are for purpose of initiating the project. The final costing will be done after the revised SoC of NMET is issued					

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## Agenda 6.3 Review of ongoing RMT (Regional Mineral Targeting) Projects

### Agenda 6.3.1 Regional Mineral Targeting and integrated mineral system studies to target potential mineralization in Proterozoic rocks of Amgaon Gneissic Complex, Dongargarh Granites, Dongargarh Supergroup, Bijli Rhyolite, Bailadila Group, in parts of Kanker, Rajnandgaon Narayanpur Districts, Chhattisgarh

#### [Implementing Agency: United Exploration India Pvt. Ltd.]

- a. The agency presented the outcomes of Phase-I studies for identification of prospective blocks in the Bastar Craton covering Amgaon Gneissic Complex, Dongargarh Granites, Dongargarh Supergroup, Bijli Rhyolite and Bailadila Group.
- b. The agency apprised the committee that NGCM and NGPM ground data were available only for a limited portion of the block (64D/14, NE corner). Large parts of the area lacked geochemical and ground geophysical coverage. However, high-resolution aeromagnetic and aeroradiometric datasets under NAGMP provided full regional coverage and formed the basis of geophysical interpretation.
- c. Major structural controls identified along N–S to NNE–SSW trends; lineament density and shear/fault corridors and interpreted as key fluid pathways for mineralisation
- d. Aeroradiometric K/Th ratio anomalies indicated potassic hydrothermal alteration zones, mainly in western–southwestern and central structural corridors.
- e. ASTER and SRTM data were used to delineate probable Cu–Au, REE and Li zones; REE-favourable zones were concentrated in western, central and southeastern parts.
- f. The agency informed the committee that AHP-based GIS weighted overlay integrating Analytic Signal, Lineament Density and K/Th ratio was adopted; the consistency ratio (CR = 0.0479) was within acceptable limits
- g. Mineralization potential map classified zones into High, Moderate and Low potential; high-potential zones aligned with major structural corridors. Separate favourability maps were prepared for Au-Cu, REE and Li mineral systems.
- h. The agency further apprised the committee that out of 1560 sq. km, about 900 sq. km was delineated as potential zone for REE, Au-Cu and Li mineral systems for Phase-II detailed investigations. The remaining ~660 sq. km could not be conclusively classified due to lack of NGCM/NGPM coverage and ground datasets.
- i. The committee reviewed the progress of work and appreciated the work carried out till now.
- j. The Committee observed that granites in the western part of the area were not classified and advised the agency to classify them, as granites are the principal host rocks for REE mineralization.

#### Recommendations of Joint TCC:

*The committee suggested the agency to classify the granites present in the western part of the area.*

### Agenda 6.3.2 Regional Mineral Targeting in Madanpur-Rampur-Kankatru areas to identify prospective blocks of REE, Base Metal & other mineralization in Kalahandi District, Odisha

#### [Implementing Agency: Natural Resource Division, Tata Steel Limited]

  
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- a. NRD-TATA presented the progress of work and apprised the committee that legacy datasets from NGDR (geology, NGCM, NGPM), remote sensing (SAR, Optical, ALOS-PALSAR DEM) were integrated in GIS for predictive prospectivity mapping.
- b. Prospectivity analysis used weighted overlay with major weight to REE values (50%), followed by lithology (25%), lineament density (10%), and minor weights to magnetic, gravity and drainage was carried out.
- c. Dominant NE–SW structural trending lineaments with mean lineament length of about ~2.18 km delineated, indicating strong structural control on mineralisation.
- d. T-REE values up to 10,400 ppm in stream sediments (NGCM); higher concentrations in south-central part of the block.
- e. Pocketed magnetic and gravity highs present in south-central sector, which is coinciding with REE anomalies.
- f. Syenite and pegmatoidal syenite intrusions within charnockite and granite gneiss observed along river/nala sections; pegmatite veins and regolith/stream sediments show higher REE compared to BRS. 42 samples analysed; REE up to 2923 ppm (stream sediment) and 915 ppm (pegmatite). Regolith and stream sediments show higher average REE than bedrock syenite/gneiss.
- g. Manganese mineralisation confirmed in Dhrukuti zone (Mn 11.02–14.56%) within khondalite; graphite occurrences known in Lamer-Panga G4 block.
- h. Six prospective zones (~135 sq. km) were initially identified from GIS prospectivity for field validation. After field investigation, six potential mineralised zones (~115 sq. km) were finalised viz., 1 Mn zone: Dhrukuti (~5 sq. km) and 5 REE zones: Danabahal (~10 sq. km), Khaligurha–Dimirgurha (~25 sq. km), Limursingha (~30 sq. km), Salepalli (~35 sq. km), Pokhari Bandha–Sikerkupa (~10 sq. km).
- i. The Committee reviewed the progress of work and opined that, since the area is brownfield, the level of data collation and integration presented was inadequate. The Committee also suggested that the agency prepare residual and time-domain geophysical maps.
- j. The committee suggested the agency to prepare:
  - (1) Residual gravity, (2) 1st VD, and (3) Bouguer gravity of the area with 2km buffer around the assigned area. Digitisation of shallow (4) gravity domains, (5) gravity breaks and (6) gravity lineaments. Suitable buffers based on the degree of lineaments are to be assigned. All six maps are to be used for prospectivity analysis. Similarly, from the Magnetic data (consult NGDR for availability of low altitude aeromagnetic data), prepare six to seven different maps. Here, Residual magnetic (RMI), Analytical signal (AS), 1st VD AS, RTP. The total HREE, TLREE, from NGCM are to be prepared separately for analysis with other data sets. Additionally, prepare manganese, cobalt, Ni, PGE, and other critical anomaly maps from NGCM. From the ASTER data, prepare alteration mineral data using VNIR, SWIR, and TIR for all alteration maps connected to REE, Mn, Graphite, Mn, Co, and other critical minerals. Similarly, utilise satellite data of ISRO/ NRSA. Available primary bedrock sample geochemical map, boreholes, pit/ trench etc., also to be used. Please make use of all these areas for training the data sets to delineate potential zones for REE, Mn, Co and applicable critical minerals. Regular Index Overlay, Fuzzy, etc., and AI/ ML (RF, CNN) may be applied for generating mineral potentiality maps.

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**Recommendations of Joint TCC:**

*The Committee reviewed the progress of work and suggested that the agency prepare residual and time-domain geophysical maps.*

**Agenda 6.3.3 Regional Mineral Targeting for Manganese, Graphite, Tungsten, Cobalt, REE and associated critical minerals in parts of Alluri Sitharama Raju District, Andhra Pradesh**

**[Implementing Agency: Critical Mineral Trackers]**

- a. The agency presented Phase-I outcomes for RMT in toposheets 65K/1 & 65K/5 (~1450 sq km) covering Gudem–Chintapalli area, targeting Mn, Graphite, W, REE, Ga, V and associated critical minerals.
- b. Geological framework of the Eastern Ghats Mobile Belt (Khondalite, Charnockite and Migmatite suites) and known mineral potential of the belt were outlined.
- c. Phase-I work included collation/integration of legacy GSI data, ASTER-based alteration mapping (laterite, kaolinite/clay, ferric iron), hillshade/lineament analysis, geophysical and geochemical data review, and preliminary field checks (Jan 2026).
- d. Remote sensing outputs delineated laterite and clay zones with potential for Al–Ga–V–Ti enrichment; ferric-iron anomalies and structural trends were identified.
- e. Preliminary field observations confirmed litho-units (khondalite, charnockite/pyroxene-granulite, leptynite) and laterite cappings.
- f. Committee noted that Phase-I is largely interpretative/screening and emphasized the need for validation.
- g. The Committee reviewed the progress and opined that alteration trends should have been superposed on the geological map to obtain a more comprehensive understanding of the area.
- h. For a large part of the area, NGPM data could not be generated due to prevailing ground conditions; therefore, the GP component may be increased in Phase-II.

**Recommendations of Joint TCC:**

*The committee reviewed the progress of work and suggested the agency to consult aerogeophysical data, if ground geophysical data is not available.*

**Agenda 6.3.4 Regional Mineral Targeting for graphite, niobium, REE and associated mineralisation in Vellikod-Azhikod areas, near Achankovil shear zone, Southern Granulite Terrain, Kerala and Tamil Nadu States**

**[Implementing Agency: Geomarine Solutions Private Limited]**

- a. The agency presented the progress of work and apprised the committee that the present RMT aims to identify potential mineral systems for REE, Nb, Graphite, phlogopite and chrysoberyl in the Southern Granulite Terrain near the Achankovil Shear Zone.
- b. Legacy datasets (NGDR, GSI, DMG, published literature) and multi-sensor satellite data (ASTER, LANDSAT-9, SENTINEL-2A) were compiled and integrated in GIS.
- c. The agency highlighted a major data gap in high-resolution geophysical datasets, limiting subsurface target delineation.
- d. The agency highlighted the key findings of 1<sup>st</sup> phase of work and apprised the committee that syenite show strong LREE enrichment (bedrock up to ~8,154 ppm; trenches up to

  
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~11,655 ppm). Pegmatites (Kallar–Bonacaud) host columbite–monazite yielded  $\Sigma$ REE up to ~12,771 ppm.

- e. The committee was apprised that Graphite mineralization is structurally controlled along shear zones, fold closures and pegmatite–host rock contacts in the Kerala Khondalite Belt. Nedumangad–Neyyattinkara–Parassala belt is identified as a highly prospective corridor for deep-seated crystalline graphite.
- f. The agency informed that Gem-bearing pegmatite swarms intrude khondalite along NW–SE, N–S and WNW–ESE fracture systems; potential for both primary pegmatite and secondary placer occurrences along major drainage systems.
- g. Shoshonitic (K-rich) granites and hypersolvus syenites are identified as favourable hosts for Cu–Au mineralization, with mantle-derived magmatic signatures.
- h. Aeromagnetic data show contrasting magnetic domains with structurally controlled anomalies; faults trend NW–SE and NE–SW, guiding mineralisation. ASTER alteration mapping delineated fault-controlled hydrothermal alteration corridors favourable for REE, graphite and base metal mineralisation.
- i. The agency informed the committee that, REE potential in syenite–pegmatite systems is highly promising and warrants priority follow-up. Graphite prospects in the Achankovil shear zone corridor may host deeper, economically viable crystalline graphite analogous to Madagascar shear-controlled deposits.
- j. The agency also informed that Gemstone potential in pegmatites and palaeochannel gravels requires systematic mapping and targeted trenching.
- k. Subsurface potential remains under-evaluated due to lack of modern ground geophysics and geochemical data.
- l. Phase-I findings were noted by committee and priority commodities for next phase was suggested to be REE & Gemstones (pegmatites), followed by Graphite.
- m. The agency requested to acquire high-resolution ground and UAV-based geophysical data (Mag, EM, Radiometric) to firm up targets before drilling.
- n. The Committee reviewed the progress and informed that NGPM data would be made available; however, the agency was advised to come for review again before initiation of Phase-III.

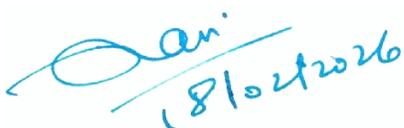
**Recommendations of Joint TCC:**

***The committee reviewed the progress of work and suggested the agency to come again for review before initiation of Phase III work.***

**Agenda 6.4 Allotment of blocks of Siwana Ring Complex, Rajasthan**

The committee was apprised that the Siwana Ring Complex (SRC) lies within the Barmer and Balotra districts of Rajasthan, covering an area of approximately 750 sq. km. Each exploration block carved out by GSI is of about 2 sq. km in size (Table 1). Three of the proposed blocks are situated in the northern part of the Siwana Ring Complex, while three of the blocks are located in southern part of Siwana Ring Complex.

The current blocks require minimum of G3 stage (Preliminary) of exploration and are carved out based on the outcomes of G4 stage (Reconnaissance Survey) exploration work carried out by GSI.

  
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In addition to earlier exploratory findings, aeromagnetic studies clearly delineate the regional continuity of magnetically susceptible litho-units within the SRC, even in soil-covered terrain. Further, the spectrometric potassium and thorium maps of the area too indicate that the proposed blocks possess favourable potential for rare earth element (REE) mineralization within the exposed portions of the complex.

Sl. No.	Block No.	Area (sq. km.)
1.	NB-16	2.0
2.	NB-17	2.0
3.	NB-18	2.0
4.	SB-1	2.0
5.	SB-2	2.0
6.	SB-3	2.0

After thorough and extended deliberations on multiple aspects, members of both committees unanimously agreed to classify the participating agencies based on the following parameters:

- i. Core competency of the agency.
- ii. Human resources, including available manpower, and the number of projects currently in progress or in the pipeline for approval (at the PSC stage).
- iii. Notification and accreditation status of the agency.
- iv. Track record of projects executed under NMEDT, including adherence to timelines and quality of execution.
- v. Consideration was also given to the newly notified NPEA, with sufficient human resources.

In view of the above the allocation of blocks is as given below (Table 2):

Sl. No.	Block No.	Agency
1.	NB-16	Hindmetal Exploration Services Private Limited
2.	NB-17	Hindmetal Exploration Services Private Limited
3.	NB-18	Natural Resources Division-TATA
4.	SB-1	Geomarine Solutions Pvt. Ltd.
5.	SB-2	Mining Tech & Consultancy Services (MTCS)
6.	SB-3	Mining Tech & Consultancy Services (MTCS)

The committee also opined that beneficiation study to be given to any one agency and 1 sample may be submitted to IMMT and 1 may be submitted to IBM. After discussion, it was decided that the beneficiation study would be carried out by NRD-TATA in block NB-18.

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## Additional Agenda 6.5 Cost Revision of approved project

**Agenda 6.5.1 Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 1 block (2.00 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan**

**[Implementing Agency: Hindmetal Exploration Services Private Limited]**

- a. The agency sought Drone survey for topography to acquire the data cost and time effectively. Agency. The agency also sought permission to do high resolution (100-50m line spacing) ground magnetic and radiometric survey which will help to resolve the different magnetic domains associated with mineralized horizon.
- b. The committee discussed the issue and agreed upon inclusion of Drone Survey in place of DGPS survey and the cost may be modified accordingly.
- c. Regarding additional geophysical survey, the committee opined that the Geophysical Survey is given as a tool to fix the bore hole points and meterage, which has already been approved. Hence, the committee did not agree upon the inclusion of GP survey.

### **Recommendations of Joint TCC:**

***The project is recommended to PSC, NMEDT for revision of cost from Rs. 621.44 lakh to Rs. 621.60 lakh with a change in amount of Rs. 0.16 lakh (~0.03 % escalation) as per Annexure 3.***

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Estimated cost for Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 1 block (2.00 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan.  
 Block area- 2.0 sq. km; Nos. of Boreholes-24 Nos.; Borehole depth range: 125m each; Total Drilling: 3000 m; Schedule timeline- 12 months  
 (Phase 1 to be completed in 4 months and Phase 2 be completed in 8 months). Review after: 3rd, 6th and 9th months

S. No.	Job Description	Unit	Rates as per NMEDT SoC (2025-26)		Estimated Cost of the Proposal		Unit	Rates as per NMEDT SoC (2025-26)		Estimated Cost of the Proposal		Remarks
			SoC-Item -SI	Rates as per SoC (2025-26)	Qty.	Total Amount (Rs)		SoC-Item -SI	Rates as per SoC (2025-26)	Qty.	Total Amount (Rs)	
<b>Phase I</b>												
<b>A</b>	<b>Geo Physical Survey (Phase 1) (Reinterpretation of existing ground and airborne database, characterize the GP signals with the rock types and host lithology by overlay analysis)</b>											
i	Geophysicist: at HQ	Mandays	1.2.1a	10500	30	315000	Mandays	1.2.1a	10500	30	315000	
	<b>Sub Total A</b>					<b>315000</b>					<b>315000</b>	
<b>B</b>	<b>Geological Mapping (DM) (1:2000) with contouring (1st Phase)</b>											
i	Detailed Mapping (1:2000 scale with contouring)	per sq. km.	1.1	18300	2	36600	per sq. km.	1.1	18300	2	36600	
	<b>Sub Total B</b>					<b>36600</b>					<b>36600</b>	
<b>C</b>	<b>Pitting/Trenching</b>											
i	Trenching	per cu m	2.1.1	4125	50	206250	per cu m	2.1.1	4125	50	206250	
	BRS and Trench Samples (Channel Samples: 100 samples)				100					100		Quantification of surface samples (To be collected in 1st phase)
	<b>Sub Total C</b>					<b>206250</b>					<b>206250</b>	
<b>D</b>	<b>Other Charges related to Phase I work</b>											

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i	Geologist: In field (for surface sampling, trenching, logging of trenches, core logging, sampling of cores)	Mandays	1.2.1a	14500	90	1305000	Mandays	1.2.1a	14500	90	1305000	
ii	Geologist: at HQ	Mandays	1.2.1a	10500	30	315000	Mandays	1.2.1a	10500	30	315000	
iii	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Mandays	5.8	541	180	97380	Mandays	5.8	541	180	97380	As per Labour Commission
iv	Charges for one sampler per day (for sample preparation)	Mandays	1.2.1b	7850	55	431750	Mandays	1.2.1b	7850	55	431750	
v	Labour charges (4 Nos for sample preparation)	Mandays	5.8	541	220	119020	Mandays	5.8	541	220	119020	As per Labour Commission
vi	Surveyor (for geological mapping)	Mandays	1.3.1	10500	30	315000	Mandays	1.3.1	10500	20	210000	Scale 1:2000
vii	Labour charges (4 labours)	Mandays	5.8	541	120	64920	Mandays	5.8	541	80	43280	
viii	Drone Topographic Survey (1:2000 scale)						per sq. km.	7b	70000	2	140000	
ix	Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS (including charges for labours deployed for the work)	Per point of Observation	1.3.2	24000	28	672000	Per point of Observation	1.3.2	24000	28	672000	24 BH + 4 Cardinal points
	<b>Sub Total D</b>					<b>3320070</b>					<b>3333430</b>	
<b>E</b>	<b>Drilling (1st Phase) (Outsourced)</b>											
i	Drilling (Hard rock) (HQ size)	per m	2.2.1.1d	10000	800	8000000	per m	2.2.1.1d	10000	800	8000000	5 BH (125 to 150 m depth)

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												each/may vary) Grid to be prepared on 200*400 m for 2 sq. km area. 1st phase BH (5 Nos.) to be planned from this grid and these 5 BH (of 1st phase) to be distributed uniformly to represent the whole area. 250 samples to be collected from 5 BH (50 samples per BH)
ii	Land Compensation	Per Borehole	5.6	30000	5	150000	Per Borehole	5.6	30000	5	150000	As per actuals as certified by local authorities subject to a maximum of 30,000 per bore hole
iii	Concrete Pillar Construction	Per Borehole	2.2.7	2000	5	10000	Per Borehole	2.2.7	2000	5	10000	
iv	Borehole Plugging by cement	borehole	2.2.8	10000	5	50000	Lumpsum per borehole	2.2.8	10000	5	50000	
	<b>Sub Total E</b>					<b>8210000</b>					<b>8210000</b>	
<b>F</b>	<b>Laboratory Studies</b>											
i	HR-ICP MS (REE & Trace)	Per sample	4.1.16f	7400	350	2590000	Per sample	4.1.16f	7400	350	2590000	(250 Core samples + 100 Surface samples)

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ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.16f	7400	35	259000	Per sample	4.1.16f	7400	35	259000	
iii	Major oxides (WD XRF)- (oxides+ traces -24 elements)	Per sample	4.1.17a	4200	50	210000	Per sample	4.1.17a	4200	50	210000	
iv	Major oxides (WD XRF)- (oxides+ traces -24 elements) 10% check samples	Per sample	4.1.17a	4200	5	21000	Per sample	4.1.17a	4200	5	21000	
v	XRD analysis for identification of minerals (Random)	Per sample	4.5.2	4000	10	40000	Per sample	4.5.2	4000	10	40000	
<b>Physical &amp; Petrological Studies</b>												
vi	Preparation of polished thin section of rock	Per sample	4.3.2	800	10	8000	Per sample	4.3.2	800	10	8000	
vii	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo micrographs)	Per sample	4.3.4	2800	10	28000	Per sample	4.3.4	2800	10	28000	
viii	EPMA	Per hour	4.4.1	10500	10	105000	Per hour	4.4.1	10500	10	105000	
<b>Sub Total F</b>						<b>3261000</b>						
<b>Total A+B+C+D+E+F</b>						<b>15348920</b>						

**Phase II**

<b>G GP Investigation (2nd Phase) (Before Drilling)</b>												
i	Magnetic Survey (10-30 line km)	Per station	3.2a (i)	1800	250	450000	Per station	3.2a (i)	1800	250	450000	5 Lkm. 2.5 Lkm per sq.km of area with a line spacing of 200 m. Station interval is 20 m. 25 station per profile line.

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												25*5= 125 stations per sq. km. Total 250 stations
	<b>Sub Total G</b>					<b>450000</b>						<b>450000</b>
<b>H</b>	<b>Geological Work (Mainly Core Logging)</b>											
<b>i</b>	Geologist: In field (For Core Logging and sampling)	Mandays	1.2.1a	14500	90	1305000	Mandays	1.2.1a	14500	90	1305000	
<b>ii</b>	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Mandays	5.8	541	180	97380	Mandays	5.8	541	180	97380	As per Labour Commission
<b>ii</b>	Geologist: at HQ	Mandays	1.2.1a	10500	30	315000	Mandays	1.2.1a	10500	30	315000	
<b>iii</b>	Charges for one sampler per day (for sample preparation)	Mandays	1.2.1b	7850	138	1083300	Mandays	1.2.1b	7850	138	1083300	
<b>iv</b>	Labour charges (4 Nos for sample preparation)	Mandays	5.8	541	552	298632	Mandays	5.8	541	552	298632	
	<b>Sub Total H</b>					<b>3099312</b>						<b>3099312</b>
<b>I</b>	<b>Drilling (II nd Phase) (Outsourced)</b>											
<b>i</b>	Drilling (Hard rock) (HQ size)	per m	2.2.1.1d	10000	2200	22000000	per m	2.2.1.1d	10000	2200	22000000	Approx 19 BH (as per 200*400 m grid)
<b>ii</b>	Land Compensation	Per Borehole	5.6	30000	19	570000	Per Borehole	5.6	30000	19	570000	
<b>iii</b>	Concrete Pillar Construction	Per Borehole	2.2.7	2000	19	38000	Per Borehole	2.2.7	2000	19	38000	
<b>iv</b>	Borehole Plugging	Lumpsum per borehole	2.2.8	10000	19	190000	Lumpsum per borehole	2.2.8	10000	19	190000	
	<b>Sub Total I</b>					<b>22798000</b>						<b>22798000</b>
	<b>Total Drilling cost of Phase I + Phase II (outsourced components)</b>					<b>30000000</b>		<b>(1500 m core to be preserved; 1 complete BH)</b>			<b>30000000</b>	Total cost of 3000 m drilling of both phase. 1

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													and remaining from mineralised zones)
<b>J</b>	<b>Laboratory Studies</b>												
<b>i</b>	HR-ICP MS (REE & Trace)	Per sample	4.1.16f	7400	1000	7400000	Per sample	4.1.16f	7400	1000	7400000	(1000 Core samples, 50 samples from each BH)	
<b>ii</b>	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.16f	7400	100	740000	Per sample	4.1.16f	7400	100	740000		
	<b>Physical &amp; Petrological Studies</b>												
<b>iii</b>	Preparation of polished thin section of rock	Per sample	4.3.2	800	10	8000	Per sample	4.3.2	800	10	8000		
<b>iv</b>	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo micrographs)	Per sample	4.3.4	2800	10	28000	Per sample	4.3.4	2800	10	28000		
<b>v</b>	Specific Gravity	Per sample	4.8.1	2500	5	12500	Per sample	4.8.1	2500	5	12500		
	<b>Sub Total J</b>					<b>8188500</b>						<b>8188500</b>	
	<b>Total A+B+C+D+E+F+G+H+I+J</b>					<b>49884732</b>						<b>49898092</b>	
	<b>Total outsourced component (if any)</b>					<b>30000000</b>						<b>30000000</b>	
<b>K</b>	<b>In case of outsourcing of work, the Technical Supervision cost shall be 10% of the sum of all the outsourced work components with a maximum ceiling of ₹ 20 lakh</b>					<b>2000000</b>						<b>2000000</b>	

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<b>L</b>	<b>Total Cost</b>				<b>51884732</b>					<b>51898092</b>	
<b>M</b>	<b>Geological Report Preparation</b>		5.2 (iii)	Total cost of the project exceeding ₹150 lakh	<b>750000</b>		5.2 (iii)	Total cost of the project exceeding ₹150 lakh	<b>750000</b>		As per SoC
<b>N</b>	<b>Peer Review by External Expert</b>		As per EC decision	30000	<b>30000</b>		As per EC decision	30000	<b>30000</b>		
<b>O</b>	<b>Project Cost without GST</b>				<b>52664732</b>				<b>52678092</b>		
<b>P</b>	<b>GST - 18%</b>				<b>9479652</b>				<b>9482057</b>		
<b>Q</b>	<b>Total Project Cost (With GST)</b>				<b>62144384</b>				<b>62160149</b>		
	<b>Rs. In Lacs</b>				<b>621.44</b>				<b>621.60</b>		<b>0.03% escalation</b>

**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 6 of NMET SoC. In case of execution of the project by NEA/NPEA on its own, a Certificate regarding non outsourcing of any component/project is required.**
- 4 **Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.**
- 5 **Any item of work not mentioned above shall be added as per SoC.**
- 6 **All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency**

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**List of participants attended 6<sup>th</sup> Joint Meeting of Technical-cum-cost Committees (TCC-I & TCC-II) of NMEDT held on 6<sup>th</sup> February, 2026 through hybrid mode**

S.no	Name	Designation	Email ID	Contact No	Organization
1	Dr. S. Ravi	Dy. Director General, GSITI, Hyderabad	s.ravi1@gsi.gov.in	9441138834	Chairman, TCC-1
2	Shri. Pradeep Singh	Dy. Director General, GSI, Kolkata	ddg.it@gsi.gov.in	9810233957	Chairman, TCC -II
3	Shri. I.R. Kirmani	ADG (Retd.), GSI	irkirmani@yahoo.com	9414014723	Member TCC-1
4	Shri. M. Mohan	Dy. Director General (Retd.), GSI	mariappan.mohan@gmail.com	9423686547	Member TCC-1
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6	Dr. S. K. Kulshrestha	DDG-RMH-III, NER, GSI, Shillong	s.kulshrestha@gsi.gov.in	9413330658	Member TCC-1
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9	Shri. S.K. Adhikari	Chief Mining Geologist, IBM, Nagpur	skadhikari@ibm.gov.in	7588690545	Member TCC-1
10	Shri. P.K. Maharana	DGM (Finance), NALCO, Bhubaneswar	pmaharana@rediffmail.com	8500669500	Member TCC-1
11	Shri. Ravi Kumar Gupta	General Manager (Finance) HCL, Kolkata	ravi_g@hindustancopper.com	9433274328	Member TCC-1
12	Smt. Vandana	Cost Accounts Officer, RSAS, Bangalore, GSI	vandana@gsi.in	8660939235	Member TCC-1
13	Shri. S Dhanendran	Director, GSI & Member Secretary, TCC-I, NMEDT, GSI TI Hyderabad	s.dhanendran@gsi.gov.in	9944882204	Member Secretary TCC-1
14	Shri. Sanjay Singh	Director, GSI, Western Region, Jaipur	sanjay.singh3@gsi.gov.in	9928860884	Member Secretary TCC-II
15	Shri. B S Jodha	Dy. Director General (Retired), GSI	jodha1961@gmail.com	9414023478	Member TCC-II
16	Shri. Sunil Kumar Vashisth	GM (Retired), Hindustan Zinc Limited, Udaipur	sunilhzl@gmail.com	9829059236	Member TCC-II
17	Shri. Dilip Kanungo	Chief Ore Dressing officer, IBM	codo@ibm.gov.in	8237047897 9405147897	Member TCC-II
18	Shri. D.S.Jeere	Director, GSI, RSAS Bengaluru.	dattatreya.jeere@gsi.gov.in	-	Member TCC-II

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19	Shri M.K.Patel	Dy. Director General (Retired), GSI	patelmk27@gmail.com	9040011231	Member TCC-II
20	Dr. M. K. Mukherjee	Associate Professor IIT (ISM) Dhanbad	mrinal@iitism.ac.in	9431711148	Member TCC-II
21	Dr. T.S.Sunil Kumar	Addl. Director (Retired), AMD	ts.sunilkumar@gmail.co m	9502560153	Member TCC-II
22	Shri. Alok Kumar	Deputy Secretary (IFD), Ministry of Mines	alok.kumar@nic.in	-	Member TCC-II
23	Shri. Anoop Kumar	CAO, GSI, CHQ Kolkata, GSI	anoop.kumar2@gsi.gov.in	-	Member TCC-II
24	Shri Sudeep Manish Toppo	Director	sudeep.toppo@gsi.gov.in	9065146048	GSI
25	Representatives from M/s Geovale Services Pvt. Ltd.				
26	Representatives from M/s MMPL Pvt. Ltd.				
27	Representatives from M/s NRD-TATA				
28	Representatives from M/s United Exploration India Pvt. Ltd.				
29	Representatives from M/s Critical Mineral Trackers				
30	Representatives from M/s Geomarine Solutions Pvt. Ltd.				
31	Ms. Bishakha	Sr. Geologist	nmet-mines@gov.in	8126541605	NMEDT
32	Smt. Palak Kapoor	Sr. Geologist	nmet-mines@gov.in		NMEDT

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