

**Ministry of Mines**  
**National Mineral Exploration and Development Trust**  
**Minutes of the 81<sup>st</sup> Technical-cum-Cost Committee-1 (TCC-1) Meeting held on**  
**25<sup>th</sup>-26<sup>th</sup> September, 2025 and 29<sup>th</sup> September, 2025 through video conferencing**

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The 81<sup>st</sup> Meeting of the Technical-cum-Cost Committee-I (TCC-1) of the National Mineral Exploration and Development Trust (NMEDT) was held via video conferencing under the chairmanship of Dr. S. Ravi, Deputy Director General (DDG), Geological Survey of India Training Institute (GSITI) and Chairman, TCC-1, NMEDT, on 25<sup>th</sup>-26<sup>th</sup> September, 2025 and 29<sup>th</sup> September, 2025.

Members of TCC-1, NMEDT and representatives from—DMG Maharashtra, DMG Karnataka, DMG Odisha, DGM Chhattisgarh, DMG Kerala, GSI, NGRI, MECL, TGMDC, OMC, Critical Mineral Trackers, Earthenviro Lab Pvt. Ltd., IMPCON, MMPL Pvt. Ltd, Gems Project Pvt. Ltd., GeoExpOre, Geo Marine Solutions Pvt. Ltd, Bhushilp Mines and Minerals Private Ltd., Gemcokati Exploration Pvt Ltd, Kartikay Exploration and Mining Services Pvt. Ltd. And Geovale Services Pvt. Ltd., have attended the meeting through their respective VC modes.

The list of participants is enclosed in Annexure-1.

Shri C. Parthasarathi, Director, GSI and Member Secretary, TCC-1, NMEDT, welcomed Dr. S. Ravi, Dy.DG, GSI and Chairman, TCC-1, NMEDT, Members of the TCC-1 and participants representing various Notified Exploration Agencies (NEAs) and Notified Private Exploration Agencies (NPEAs).

Dr. S. Ravi, Chairman of TCC-1, NMEDT, extended a warm welcome to all members of TCC-1 and participants representing various NEAs and NPEAs and conducted the proceedings as per circulated agenda.

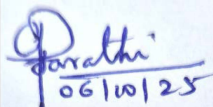
**Agenda 81.1: Technical evaluation of new project proposals**

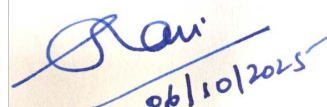
**Agenda 81.1.1. Preliminary Exploration (G3) of Dolomitic Limestone/ Limestone in Jaharitola (3.37 Sq Km), Mundatola (4.33 Sq Km) Blocks Phase-II, Gangpur Group, Sundargarh District, Odisha**

**[Implementing Agency: Mineral Exploration and Consultancy Ltd.]**

- a. MECL informed the committee that the project “Preliminary Exploration (G-3 Level) for Limestone in Jaharitola (3.34 sq. km) and Mundatola (4.34 sq. km) Blocks, Sundargarh District, Odisha” was approved in the 37<sup>th</sup> EC, NMEDT meeting on 23<sup>rd</sup> September 2024. Approval was issued vide letter No. F. No. 23/501/2024-NMEDT/446 dated 23.10.2024, with a designated duration of 12 months.
- b. The project outcomes were reviewed during the 75<sup>th</sup> meeting of the TCC-I, NMEDT. The analytical results of bedrock samples demonstrated by MECL during the review is given below.

	CaO%	MgO%	SiO <sub>2</sub> %	Fe <sub>2</sub> O <sub>3</sub> %	Al <sub>2</sub> O <sub>3</sub> %	SO <sub>3</sub> %	P <sub>2</sub> O <sub>5</sub> %	K <sub>2</sub> O%	Na <sub>2</sub> O%	LOI%
Min.	0.39	0.73	1.37	1.01	0.33	0.01	0.01	0.10	0.01	1.56
Max.	31.78	18.57	81.61	7.48	17.70	0.05	0.12	8.88	4.46	45.63
Avg.	19.72	12.30	26.29	2.97	7.34	0.02	0.05	3.03	0.40	27.62

  
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- c. In the same review, MECL also informed the committee that outcrops in the area is very less and the few exposures in the block is of dolomitic in nature. And finally asked permission for the pre-closure of the item.
- d. Upon review during the 75<sup>th</sup> TCC-1 meeting, considering the poor CaO percentage and lack of limestone in the block, the committee recommended for the pre-closure of the project. Besides, the committee also suggested MECL to submit surrender the project with revised cost.
- e. Accordingly, MECL revised the cost and submitted GR with the limited findings.
- f. Finally, in the 43<sup>rd</sup> Executive Committee (EC) meeting the item was discussed to obtain approval of the EC for the pre-closure of the item. Upon review, the EC advised MECL to continue the project and estimate resources for dolomite (if favourable) after obtaining permission from NMEDT.
- g. Accordingly, the MECL presented the item entitled ***“Preliminary Exploration (G3) of Dolomitic Limestone/ Limestone in Jaharitola (3.37 Sq Km), Mundatola (4.33 Sq Km) Blocks Phase-II, Gangpur Group, Sundargarh District, Odisha”*** for review in the current TCC-1 meeting.
- h. The committee reviewed the chemical analysis of the bedrock samples demonstrated by MECL again and found that the values of main constituents like MgO, SiO<sub>2</sub> and insolubles do not meet the stipulated specifications (threshold values) for dolomite in Jaharitola and Mundatola blocks. IBM specified values of MgO, SiO<sub>2</sub> and total insolubles are to be 15 % (Min), 6% (Max) and 12 % (Max) respectively.
- i. Out of the 40 samples, for which analysis were demonstrated, only 6 samples have CaO values between 29.5-31.8%, few samples have Al<sub>2</sub>O<sub>3</sub> values between 3-4% and most of the samples have significantly higher SiO<sub>2</sub> values.
- j. Considering all these aspects, the committee concluded that the rocks in Jaharitola and Mundatola blocks neither qualify in limestone nor dolomite. MECL is also advised to present the actual data to EC for review.

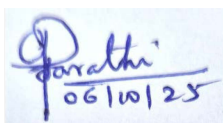
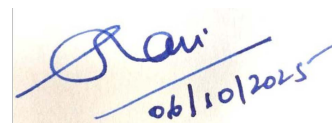
#### **Recommendations of TCC-1:**

***The committee did not approve the proposal and recommended MECL to present the actual chemical analysis of the bedrock samples collected from the blocks to EC for review.***

#### **Agenda 81.1.2. Reconnaissance Survey (G4) for Graphite and associated minerals in Ampali area (80.85 Sq. Km), Balangir District, Odisha**

**[Implementing Agency: Mineral Exploration and Consultancy Ltd.]**

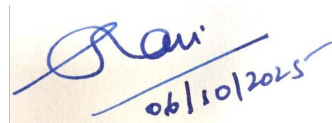
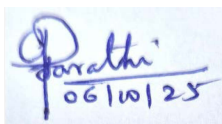
- a. The proposed block falls in SOI TS No. 64P/03 and exposes rocks of Eastern Ghats. The litho-assemblage in the proposed area in the area consist of granite gneiss, khondalite, charnockites and migmatites. The younger rock types in the area are represented by sandstone of Lower-Gondwana (Talchir).
- b. GSI comments indicated that the proposed area has already been extensively explored at the G4 level and advised proceeding with G3 level exploration only.
- c. MECL informed that mapping (GSI) was not conducted at the 1:12,500 scale; only regional-level data is available, with limited graphite values reported.
- d. DMG, Odisha informed that the block has been allocated to MECL under Cluster No. 52 for exploration, and the scale of exploration is to be decided by the committee.

- e. As many as nine pockets or lenses of graphite has been reported in the proposed area. The assay values of 03 graphite samples collected by MECL from pit walls ranges between 8.74% to 16.23% fixed carbon content.
- f. The committee recommended a phased approach for exploration:
  - Phase 1: Systematic mapping, petrographic studies, and proper sampling (channel, pitting, trenching)
  - Phase 2: Geophysical survey
  - Phase 3: Drilling, based on outcomes of earlier phases
- g. The committee inquired whether the known graphite lenses could be explored at the G3 stage. The agency responded that with available data the confidence level is low and hence G4 stage survey is proposed.
- h. MECL also informed that 20 NGCM SS sample data points fall within the proposed Ampali area. Total REE values range from 704 ppm to 2325 ppm, with an average of 1162 ppm. Total LREE values range from 614 ppm to 2177 ppm (average: 1060 ppm), and total HREE values range from 77 ppm to 148 ppm (average: 102 ppm). The western part of the block shows encouraging REE values and may be further investigated for secondary REE enrichment and potential primary sources.
- i. After reviewing the chemical data presented by MECL, the committee opined that The number of samples for REE analysis will be reviewed only after the syenite body is confirmed through mapping in the area.

**Recommendations of TCC-1:**

***The committee recommended the proposal entitled “Reconnaissance Survey (G-4) for Graphite and associated minerals in Ampali Area, Balangir District, Odisha” for approval of EC, NMEDT with an estimated cost of ₹133.94 lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure - 2A & 2B. The item will be reviewed after 03, 05 and 09 months.***



Annexure 2A							
Estimated cost for Reconnaissance Survey (G-4) for Graphite and associated minerals in Ampali Area, Balangir District, Odisha. [Block area- 80.85 sq. km; Nos. of Scout Borehole- 5; Borehole depth range: 50-60 m; Schedule timeline- 10 months, Review after: 3, 5 and 9 months] (Total Drilling: 500 m)							
S. No.	Item of Work	Unit	Rates as per NMEDT SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item -SI No.	Rates as per SoC	Qty.	Amount (Rs)	
PHASE I work							
A	GEOLOGICAL WORK						
1	Geological Mapping (1:12,500)						
i	Charges for one Geologist- Field	day	1.2	11,000	180	1,980,000	For all three phases of work
ii	Charges for one Geologist - HQ	day	1.2	9,000	45	405,000	
iii	2 labours/ party (As per rates of Central Labour Commissioner)	day	5.7	541	360	194,760	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
iv	Sampling -1 Samplers Labour charge not included	day	1.5.2	5,100	31	158,100	
v	4 labours/ party (As per rates of Central Labour Commissioner)	day	5.7	541	124	67,084	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher

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<b>Sub Total- A</b>						<b>2,804,944</b>	
<b>B</b>	<b>TRENCHING AND PITTING IN PHASE-I</b>						
i	Trenching: 15 trenches	Cu. M.	2.1.1	3330	200	666,000	For Graphite, Dimension of trenches can be modified as needed
ii	Orientation Pitting: 05 pits	Cu. M.	2.1.2	3800	15	57,000	For REE
<b>Sub Total- B</b>						<b>723,000</b>	
<b>C</b>	<b>GEOPHYSICAL SURVEY IN PHASE-II</b>						
i	Self Potential (8-20 L km)	per Line Km	3.3a	29600	40	1,184,000	100 m traverse interval and 10 m station interval;
<b>Sub Total- C</b>						<b>1,184,000</b>	
<b>D</b>	<b>SCOUT DRILLING IN PHASE-III</b>						
i	Drilling upto 300m (Hard Rock) (1 rig )	m	2.2.1.4a	11,500	300	3,450,000	5 Scout Boreholes in Phase-III
ii	Land / Crop Compansation	per BH	5.6	20,000	5	100,000	Amount will be reimbursed as per actuals or max. Rs. 20000 per BH with certification from local authorities
iii	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	5	10,000	
iv	Transportation of Drill Rig & Truck associated per drill	Km	2.2.8	36	1,050	37,800	Certification in this regard is required to be provided
v	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	2	100,000	

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vi	Drilling Camp Setting Cost	Nos	2.2.9a	250,000	1	250,000	
vii	Drilling Camp Winding up Cost	Nos	2.2.9b	250,000	1	250,000	
viii	Approach Road Making (Flat Terrain)	Km	2.2.10a	22,020	5	110,100	Road Making will be considered as per the requirement and Road Making Charges will be reimbursed later
ix	Core Preservation: One complete borehole plus mineralised cores of all the remaining Bhs	m	5.3	1,590	100	159,000	This amount will be reimbursed after successful delivery of the cores to concerned libraries/ authorities
	<b>Sub Total- D</b>					<b>4,466,900</b>	
<b>E</b>	<b>BOREHOLE COLLAR SURVEY IN PHASE-III</b>						
i	Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes by DGPS and boundary coordinates	Per Point of observation	1.6.2	19,200	5	96,000	5 Scout Boreholes in Phase-III
	<b>Sub Total- E</b>					<b>96,000</b>	
<b>F</b>	<b>LABORATORY STUDIES</b>						
<b>1</b>	<b>Chemical Analysis</b>						
<b>i</b>	<b>Primary &amp; Check samples for Graphite</b>						
	a. Primary Samples for Proximate Analysis of Graphite: Fixed Carbon (FC), Ash (A), Moisture (M) and Volatile Matter (VM)	Nos	4.1.16	3,000	200	600,000	Phase-I Bedrock: 25, Trench Samples: 75, Phase-III Borehole Samples: 100

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	b-External(10%) Check samples from NABL Lab for Proximate Analysis of Graphite: Fixed Carbon (FC), Ash (A), Moisture (M) and Volatile Matter (VM)	Nos	4.1.16	3,000	20	60,000	
	c- Analysis for 34 elements (REE, RM, Basemetals, HFSE elements) by ICPMS method	Nos	4.1.14	7,731	25	193,275	Phase-I
	d- External (10%) Check samples from NABL Lab by ICPMS method for 34 elements (REE, RM, Basemetals, HFSE elements)	Nos	4.1.14	7,731	3	23,193	
<b>2</b>	<b>Physical &amp; Petrological Studies</b>						
i	Heavy Mineral Separation by Gravity and Magnetic	Nos	4.3.6b	13,820	8	110,560	Phase-I Stream Sediment Samples: 2, Orientation Pit Samples: 6
ii	XRD analysis for identification of mineral phase	Nos	4.1.15a	4,000	5	20,000	Phase-I
iii	Preparation of thin section	Nos	4.3.1	2,353	25	58,825	
iv	Complete petrographic study report	Nos	4.3.4	4,232	25	105,800	
v	Preparation of polished section	Nos	4.3.2	1,549	5	7,745	
vi	Complete mineragraphic study report	Nos	4.3.4	4,232	5	21,160	
vii	Digital Photographs	Nos	4.3.7	280	10	2,800	
viii	Density studies	Nos	4.8.1	1,605	2	3,210	for Graphite
ix	Raman Spectroscopy	Hrs		3,345	4	13,381	05 samples. Price not available in SoC, NMEDT. This rate is based on the last analysis rate

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							carried out at GSI Lab. However escalation will be considered during execution. Will be reimbursed as per actual cost through outsourcing.
x	EPMA studies	Hrs	4.4.1	8,540	10	85,400	
	<b>Sub Total- F</b>					<b>1,305,349</b>	
<b>D</b>	<b>Total A to F</b>					<b>10,580,193</b>	
<b>E</b>	<b>Geological Report Preparation</b>		<b>5.2</b>	For the projects having cost exceeding Rs. 50 lakhs and less than Rs. 150 lakhs - A minimum of Rs. 2.5 lakhs or 5% of the value of work whichever is more		<b>529,010</b>	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMEDT.
<b>F</b>	<b>Peer review Charges</b>		<b>As per EC decision</b>			<b>30,000</b>	
<b>G</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>	2% of the Cost or Rs. 5 Lakhs whichever is lower		<b>211,604</b>	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

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							meeting while clearing the proposal.
H	Total Estimated Cost without GST					11,350,807	
I	Provision for GST (18% of I)					2,043,145	GST will be reimburse as per actual and as per notified prescribed rate
J	Total Estimated Cost with GST					13,393,952	or Say Rs. 133.94 Lakh
K	Rs. In Lakhs					133.94	
Note:							
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						

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Annexure 2B																	
Estimated time schedule for Reconnaissance Survey (G-4) for Graphite and associated minerals in Ampali Area, Balangir District, Odisha.																	
Sl.	Particulars	Months	1	2	3	PHASE-I REVIEW	4	5	PHASE-II REVIEW	6	7	8	9	PHASE-III REVIEW	10		
1	Camp Setting/ mobilization	Months															
2	Geologist days (Mapping, Sampling, Orientation Pitting)	days															
3	Geophysicist days	days															
4	Trenching	days															
5	Drilling	m															
6	Sampling days	days															
7	Camp winding	Months															
8	Laboratory Studies	days															
9	Geologist days, HQ	days															
10	Report Writing with Peer Review	days															

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**Agenda 81.1.3. Reconnaissance Survey (G4) for REE in Rangapuram area (Area: 83.00 Sq Km), NTR & Eluru districts, Andhra Pradesh**

**[Implementing Agency: Mineral Exploration and Consultancy Ltd.]**

- The proposed block falls in SOI TS No. 65D/09 and 65D/13. The proposed area has exposures of a litho assemblage comprising three distinct tectonic domains with contrasting structural styles and metamorphic imprints viz. Charnockite and Khondalite Group of Archaean age, Penninsular Gneissic Complex (PGC- II) of Archaean to Palaeo-Proterozoic age.
- MECL submitted the proposal based on the outcomes of NGCM works by GSI carried out during the FS 2020-21.
- The area overlaps by 80% with GSI's approved exploration item for FS 2026-27.
- The committee dropped the proposal and advised NMEDT to share GSI's shape files with MECL to delineate the remaining area for potential assessment.

**Recommendations of TCC-1:**

***The committee did not approve the proposal.***

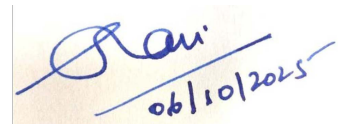
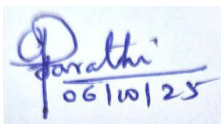
**Agenda 81.1.4. Preliminary Exploration (G3) for Manganese in Kawalewada – Sakkardara Block, Bhandara District, Maharashtra**

**[Implementing Agency: DGM, Maharashtra]**

- The proposed block falls in Survey of India TS No. 55 O/14 and exposes lithounits of Sausar Belt. It hosts manganese ore horizons within the Mansar Formation.
- GSI has carried out geological exploration in the area, identifying manganiferous horizons as detached lenticular bands along the contact between biotite gneiss and muscovite schist. Gonditic manganese ore was also observed in trenches and old pits, representing the eastern extension of the ore horizon from the Chikhala MOIL Mine.
- DGM, Maharashtra informed that they conducted traverses along the east-west direction within the specified area and confirmed the association of manganese bearing gondite within the Mansar Formation, particularly near old pits.
- The analysis of seven samples collected from the proposed area gives positive potential (Mn > 10%) of Manganese. These seven samples have yielded MnO from 20.3 to 40.6%.
- The item was earlier reviewed in 76th TCC-1 meeting and the committee had suggested to have comments from Manganese Ore (India) Ltd.
- MOIL has informed there is no overlap.
- The committee reviewed the proposal and suggested that the proposal may be approved and exploration will be conducted in two phases across Block-A and Block-B. Geophysical surveys and drilling will be carried out at 400 m spacing.

**Recommendations of TCC-1:**

***The committee recommended the proposal entitled “Preliminary Exploration (G3) for Manganese in Kawalewada-Sakkardara Block, Bhandara District, Maharashtra” for approval of EC, NMEDT with an estimated cost of ₹265.85 lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure - 3A & 3B. The item will be reviewed after 04 and 08 months.***



## Annexure 3A

**Estimate Cost for Preliminary Exploration (G3) for Manganese in Kawlewada-Sakkardara Block, Bhandara District, Maharashtra**  
**[Area 4.05 sq. km, No.of BH:16, Borehole depth range- ~60 m each; Total Drilling: 1000 m; Schedule timeline- 12 months; Review: After 4 and 8 Months]**

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)	
A	Geological Mapping Other Geological Work & Surveying						
	Geological mapping, (1:4000 scale) with Topographic Survey & Trenching , drilling work						
i	a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.2(b)	₹ 11,000.00	150	₹ 1,650,000.00	
ii	b. Labours Charges; Base rate	day	5.7	₹ 541.00	300	₹ 162,300.00	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
	c. Charges for Geologist per day (HQ)	day	1.2 (a)	₹ 9,000.00	45	₹ 405,000.00	
	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	₹ 5,100.00	32	₹ 163,200.00	
	e. Labours (4 Nos)	day	5.7	₹ 541.00	128	₹ 69,248.00	
	Sub Total- A					₹ 2,449,748.00	
B	Ground Geophysical Survey (outsourced)						
1	Gravity Magnetic Method - detailed	Per station	3.1b	₹ 4,500.00	335	₹ 1,507,500.00	

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	<b>Sub Total- B</b>					<b>1,507,500</b>	
<b>C</b>	<b>Survey work</b>						
a	Charges of one surveyor per day (without labour) (Geological Mapping)	Per Point of observation	1.6.1a	₹ 8,300.00	50	₹ 415,000.00	
c	Labours Charges for survey work; (Geological Mapping)	day	5.7	₹ 541.00	200	₹ 108,200.00	
	Fixation of BH and determination of coordinates by DGPS survey	Per Point of observation	1.6.2	₹ 19,200.00	24	₹ 460,800.00	16 BH and 8 cardinal points ( to be checked)
	<b>Sub-Total C</b>					₹ <b>984,000.00</b>	
<b>D</b>	<b>Trenching/Pitting</b>						
	a) Excavation of Trenches	per cu.m	2.1.1	₹ 3,330.00	120	₹ 399,600.00	
	<b>Sub-Total D</b>					₹ <b>399,600.00</b>	
<b>E</b>	<b>DRILLING (after review) (in-house)</b>						
1	Drilling up to 300m (Hard Rock)	m	2.2.1.4a	₹ 11,500.00	1000	₹ 11,500,000.00	Approx. 60 m depth (for 16 BH)
2	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	₹ 20,000.00	4	₹ 80,000.00	
3	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	₹ 2,000.00	16	₹ 32,000.00	
4	Transportation of Drill Rig & Truck associated per drill (2 rigs)	Km	2.2.8	₹ 36.00	1440	₹ 51,840.00	Umred to Sakkardara
5	Monthly Accommodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	₹ 50,000.00	6	₹ 300,000.00	

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6	Drilling Camp Setting Cost	Nos	2.2.9a	₹ 250,000.00	1	₹ 250,000.00	
7	Drilling Camp Winding up Cost	Nos	2.2.9b	₹ 250,000.00	1	₹ 250,000.00	
8	Road Making (Flat Terrain)	Km	2.2.10a	₹ 22,020.00	16	₹ 352,320.00	
9	Drill Core Preservation	per m	5.3	₹ 1,590.00	500	₹ 795,000.00	1 complete BH plus mineralised zone
	<b>Sub Total E</b>					<b>13,611,160</b>	
<b>F</b>	<b>LABORATORY STUDIES</b>						
1	<b>Chemical Analysis</b>						
i)	<b>Surface / Bedrock samples (10% External)</b>						
	a. Quantitative analysis (Mn, MnO, Fe <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , and Acid insoluble) (XRF)	Nos	4.1.1	₹ 8,157.00	70	₹ 570,990.00	In house analysis
	b. Quantitative analysis - Check Samples (Mn, MnO, Fe <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , and Acid insoluble)	Nos	4.1.1	₹ 8,157.00	7	₹ 57,099.00	
ii)	<b>Trench Samples from Trench</b>						
	a. Quantitative analysis (Mn, MnO, Fe <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , and Acid insoluble)	Nos	4.1.2	₹ 8,157.00	30	₹ 244,710.00	In house analysis
	b. Quantitative analysis - check samples (Mn, MnO, Fe <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , and Acid insoluble)	Nos	4.1.2	₹ 8,157.00	3	₹ 24,471.00	
v)	<b>BH Core samples</b>						
	a. Quantitative analysis (Mn, MnO, Fe <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> , and Acid insoluble)	Nos	4.1.2	₹ 8,157.00	130	₹ 1,060,410.00	In house analysis

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vi)	<b>BH Core Check samples (10%External)</b>						
	a. Quantitative analysis (Mn, MnO, Fe2O3, SiO2, P2O5, and Acid insoluble)	Nos	4.1.2	₹ 8,157.00	13	₹ 106,041.00	
2	<b><u>Physical &amp; Petrological Studies</u></b>						
i	Preparation of thin section	Nos	4.3.1	₹ 2,352.00	10	₹ 23,520.00	
ii	Study of thin section	Nos	4.3.4	₹ 4,232.00	10	₹ 42,320.00	
iii	Preparation of polish section	Nos	4.3.2	₹ 1,549.00	10	₹ 15,490.00	
iv	study of polished section	Nos	4.3.4	₹ 4,232.00	10	₹ 42,320.00	
v	Digital Photographs	Nos	4.3.7	₹ 280.00	10	₹ 2,800.00	
vii	Bulk Density	Nos	4.8.3	₹ 1,568.00	16	₹ -	In house
	<b>Sub Total F:</b>					₹ <b>2,190,171.00</b>	
<b>G</b>	<b>Total A to F</b>					₹ <b>21,142,179.00</b>	
<b>H</b>	<b>Total Outsourced Components (Ground GP Survey)</b>					₹ 1,507,500.00	
<b>I</b>	<b>Tendering Cost</b>		<b>2.3</b>			₹30,150.00	
<b>J</b>	<b>Operational Charges</b>		<b>6</b>	<b>i</b>		₹150,750.00	
<b>K</b>	<b>TOTAL (A+B+C+D+E+F+I+J)</b>					₹ <b>21,323,079.00</b>	
	<b>Geological Report Preparation</b>	<b>5 Hard copies with a soft copy</b>	<b>5.2</b>	<b>ii</b>		₹ <b>750,000.00</b>	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMEDT.

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L	Peer review Charges		As per EC decision			₹ 30,000.00	
M	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is less		₹426,461.58	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.
N	Total Estimated Cost without GST					₹22,529,540.58	
	Provision for GST (18% of J)					₹4,055,317.30	GST will be reimburse as per actual and as per notified prescribed rate
	Total Estimated Cost with GST					₹26,584,857.88	
					Rs. In Lakhs	₹ 265.85	
<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 Certificateregarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency						

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Annexure 3B																
Time Schedule/ Action Plan for Preliminary Exploration (G3) for Manganese in Kawlewada-Sakkardara Block, Bhandara District, Maharashtra																
S. No.	Particulars		1	2	3	4	Review	5	6	7	8	Review	9	10	11	12
1	Camp Setting	Months/Days														
2	Geological Mapping & Sampling	days														
3	Geophysical survey	L.km														
4	Geophysicist party days (HQ) for data interpretation & Report	Days														
5	Pitting/Trenching	cu.m														
6	Surface Drilling (1 rigs)	m														
7	Survey Party days	days														
8	Geologist Man days	days														
9	Sampler Man days	days														
10	Camp Winding	months														
11	Laboratory Studies	Nos.														
12	Report Writing with Peer Review	months														

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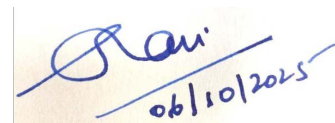
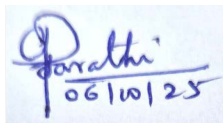
**Agenda 81.1.5. Reconnaissance Survey (G4) for Ni, Cr & PGE in Charoti area, Palghar District, Maharashtra**

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

- a. The proposed area falls in parts of Survey of India Toposheet Nos. 47 A/13 & 47 E/1 forms a part of the western Deccan lava pile, which has been divided into eight formations viz. Salher, Lower Ratangad, Upper Ratangad, Indrayani, Karla, Diveghat, Purandargad and Mahabaleshwar.
- b. GSI in their comment has stated that no mineral exploration has been carried out in the proposed area.
- c. The agency informed the committee that the proposal is a spin-off of GSI's Specialized Thematic Mapping (STM) of Deccan lava sequence and associated intrusive exposed in Ashgad-Charoti Naka area.
- d. Out of 59 bedrock samples (BRS) collected from these olivine-rich basaltic flows, 26 samples (nearly half) contain more than 10% MgO. These samples also show good values of nickel (135–890 ppm) and chromium (280–1896 ppm). The Mg-rich basaltic flows, sills, and dykes demonstrate a strong positive correlation with nickel and chromium concentrations.
- e. The proposal was initially reviewed in 79<sup>th</sup> TCC-I meeting, wherein, the agency was suggested to visit field and collect samples for PGE, Ni, and Cr analysis. The agency, thereafter collected ten samples and got them analysed.
- f. The analytical values received, thereon, indicated values for Ni (90-600 ppm), Cr (60-1203 ppm), Co (24-49 ppm), Nb (520-740 ppm), Sr (142-589 ppm), Cu (36-333 ppm), V (116-241 ppm), Ba (71-237 ppm), Zr (62-119 ppm), Zn (80-111 ppm), Ga (18-30 ppm), Ge (28-41 ppm).
- g. The committee reviewed the analytical results and opined that MgO content confirms the picritic nature of the basalt but Values are not encouraging for Ni, Co, PGE, and Cr.
- h. CMT presented the petrographic report of GSI pertaining to the area substantiating picritic nature of the basalt. Upon review of the same, the committee found that the study does not show sulphides and PGE phases in the rock.
- i. The committee discussed the proposal in detail and approved it in a phased manner. Phase-I will focus on detailed study of the area to petrographically establish the flows, characterize them, and identify any mineral phases indicative of PGE. Subsequent phases will include pitting, trenching, and drilling.
- j. The committee also suggested that drill core samples, particularly from the picritic portion, will be analyzed primarily for Ni, C, and PGE.

**Recommendations of TCC-1:**

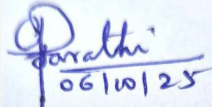
***The committee recommended the proposal entitled “Reconnaissance survey (G4) for Ni, Cr and PGE in Charoti Area, Palghar District, Maharashtra” for approval of EC, NMEDT with an estimated cost of ₹138.36 lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure - 4A & 4B. The item will be reviewed after 04 and 08 months.***



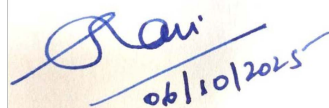
## Estimated Cost for Reconnaissance survey (G4) for Ni, Cr and PGE in Charoti Area, Palghar District, Maharashtra

Total Area - 131 sq.km ; No of Boreholes- 5 Nos. of 60 m each; Total Drilling: 300 m; Completion Time - 10 months; Review after: 4 and 8 months

S.No	Item of Work	Unit	Rates as per NMEDT SoC		Estimated Cost of the Proposal		Remarks
			SoC-Item-SI No.	Rates as per SOC	Quantum	Total Amount(Rs)	
<b>A</b>	<b>Geological Work</b>						
1	Geological Mapping(1:12,500) & sampling – Geologist field-days		1.2	11000	150	1650000	man days
2	Geologists(HQ)days, pre & post field interpretation 35 +45 days	One Geologist Per Day	1.2	9000	45	405000	man days
3	Pitting-50 Nos. each one size 1*1*1m (1 Cu.m each)	Per Cu.m	2.1.2	3800	50	190000	cu.m (as per requirement)
5	sampler	60 days	1.5.2	5100	40	204000	man days
6	Labour(4 labour) attached to sampler	4 labours	5.7	541	160	86560	labour days
7	Labour (240 Field days) per team:2 workers : 240*2 for two geologist teams	Per Team of 2 Geologists (2*2=4) Labour/Field workers	5.7	541	300	162300	labour days
	<b>Sub-Total -A</b>					<b>2697860</b>	
<b>B</b>	<b>Core Drilling</b>						
1	Core drilling : 5 Bore Holes( each 60m depth) 6*50	Per meter	2.2.1.4a	11,500	300	3,450,000	
2	Construction of BH pillar(12"*12"*30")	Per pillar	2.2.7a	2000	5	10,000	
3	**Mob drilling machine & inner BH shifting	lumpsum	2.2.9a	250000	1	250,000	



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4	demob drilling machine & inner BH shifting	lumpsum	2.2.9b	250000	1	250,000	
5	Camp Setting	Per month	2.2.9	50,000	2	100,000	
6	Approach Road	Per Kilometer	2.2.10a	22,020	20	440,400	20 km approx.
7	Compensation for 5 Bhs	Per Point	5.6	20,000	5	100,000	
8	Drill core preservation in GI boxes	Per meter	5.3	1590	150	238,500	excluding soil/WZ (1 complete BH + 90 m)
	<b>Sub total-B</b>					<b>4,838,900</b>	
<b>C</b>	<b>Laboratory Studies</b>						
1	For PGE (ICP-MS Ni-S Fire Assay Technique)	Per sample	4.1.5d	11800	100	1180000	50 core samples + remaining 50 BRS and core samples
	Check samples			11800	10	118000	
2	Pit Sample: ICP-MS 50 No's Zr,Hf,Rb , Sr , Ni , Co ( 34 Elements) including REE	Per Sample(34 elements)	4.1.14	7731	50	386550	Pit, Core
	Check samples			7731	5	38655	
3	BRS 100 samples for 34 elementsincluding REE (ICPMS)	Per sample	4.1.14	7731	100	773100	
4	Core drilling Samples- 10*6= 50 (including REE) Total depth 50m each, samples will be collected at every 5m interval. ICP-MS	Per sample(34 Elements)	4.1.14	7731	50	386550	
	Check samples			7731	5	38655	
5	Preparation of standard thin section	Per sample	4.3.1	2353	50	117650	
6	Complete petrographic/ore microscopic/mineragraphic studies	Per sample	4.3.4	4232	50	211600	
7	EPMA	Per Hour	4.4.1	8540	20	170800	
	<b>Sub-total-C</b>					<b>3421560</b>	

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	TOTAL (A+B+C)					10,958,320	
F	Preparation of Exploration Proposal		5.1	2% of approved project cost or 5 lakh whichever is lower	1	219,166	2% of the Project cost.
	(5 Hard copies with a soft copy)						
G	Geological Report		5.2	A Minimum of ₹2.5 lakh or 5% of the work whichever is more and ₹ 3000/- per each additional copy.		547,916	5% of the Project Cost.
	(5 Hard copies with a soft copy)						
	Peer Review			30000	1	30,000	
	Project Cost without GST					11,725,402	
	18% GST					2,110,572	
	Total Project Cost					13,835,975	
	Rs. In Lakhs					138.36	
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 Certificateregarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency						

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Annexure 4B														
Time Schedule/ Action Plan for Reconnaissance survey (G4) for Ni, Cr and PGE in Charoti Area, Palghar District, Maharashtra														
Sno	Activity	Unit	Months											
			1	2	3	4	REVIEW	5	6	7	8	REVIEW	9	10
1	Geologist HQ Days	Days												
2	Geologist Days Field	Days												
3	Sampling (Pitting & Trenching)	Days												
4	Laboratory Studies	Days												
5	Core Drilling	Days												
6	Survey Party Days	Days												
8	Post Field Interpretation	Days												
9	Report Compilation & Submission	Days												

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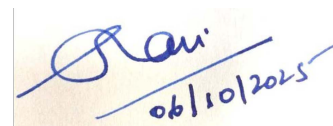
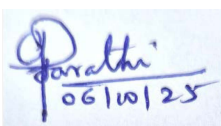
**Agenda 81.1.6. Preliminary Exploration (G3) for Iron Ore in Sitapur Block, Uttar Bastar Kanker District, Chhattisgarh (Area 3.50 Sq. Km)**

**[Implementing Agency: Kartikay Exploration and Mining Services Pvt. Ltd.]**

- a. The proposed area falls in parts of Survey of India TS Nos. 64D/12 and forms a part of the Bengpal Group of Bailadila Iron Ore Belt.
- b. GSI has no overlapping with the proposed area of agency. DGM, Chhattisgarh also informed that there is no overlap with the proposed area.
- c. The project was earlier reviewed in 73rd TCC-I meeting.
- d. The agency visited the field and collected ten samples from the proposed area for chemical analysis.
- e. Out of 10 samples, 9 have yielded Fe values from 42.09% to 59.86%. The committee advised the agency to submit the **accreditation certificate of the laboratory where the analysis was conducted to NMEDT for record.**
- f. The committee reviewed the proposal and the agency was advised to revise the area by restricting it to the iron ore body. The accreditation certificate of the laboratory where the analysis was conducted must be submitted.
- g. The agency informed the committee that the area falls under the 10A(2)(b) category. DGM, Chhattisgarh confirmed that there are no existing ML or PL grants in the area. A previous PL was granted but later rejected, and the area is currently free from any exploration licenses.
- h. The committee noted that GSI had previously reported BIF-hosted gold in the proposed area and suggested that the agency target gold exploration alongside iron.

**Recommendations of TCC-1:**

***The committee recommended the proposal entitled "Preliminary Exploration (G3) for Iron Ore in Sitapur Block, District- Uttar Bastar Kanker, Chhattisgarh" for approval of EC, NMEDT with an estimated cost of ₹178.92 lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure - 5A & 5B. The item will be reviewed after 04 and 08 months.***



## Annexure 5A

**Estimate Cost for Preliminary Exploration (G3) for Iron Ore in Sitapur Block, District- Uttar Bastar Kanker, Chhattisgarh**  
**Area: 2.4 sq. km., Total BH nos.: 5 Nos. , Total Drilling Meterage: 500m, Timeline: 12 months; Review after: 4 and 8 months**

S.No.	Item of Work	Unit	Rates as per NMEDT SoC 2020-21		Estimated Cost			Remarks
			SoC-Item -Sl. No.	Rates as per SoC	Qty.	LWE multiple	Amount(Rs)	
<b>A</b>	<b>GEOLOGICAL WORK (1:4000) (including Topographical Survey)</b>							
i	Charges for One Geologist for Field	Per day	1.5.1a	11,000	150	1.25	2,062,500	
ii	Charges for One Geologist for HQ	Per day	1.5.1a	9,000	30	1	270,000	
iii	2 labours / party (Rs 541/day/labour) (As per rates of Central Labour Commissioner)	day	5.7	541	300	1.25	202,875	As per rates prescribed by Central Labour Commission rates or respective state Govt., whichever is higher
iv	Sampling party days-1 Sampler (Labour charge not included)	day	1.5.2	5,100	36	1.25	229,500	
v	4 labours/ Party (Sampling)	day	1.5.2	541	144	1.25	97,380	
vi	Charges of one qualified surveyor with Total Station for carrying out topographical survey in different RF and surface contouring at different interval, fixation of borehole and determination of co- ordinates & Reduced Level (RL) of the boreholes with total station etc	Charges for one Surveyor per day	1.6.1a	8,300	30	1.25	311,250	
	<b>SubTotal-A</b>						<b>3,173,505.00</b>	
<b>B</b>	<b>PITTING/TRENCHING</b>							
i	Trenching	Cu m	2.1.1	3,330	50	1.25	208,125	Depth 1m
	<b>SubTotal-B</b>						<b>208,125</b>	

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<b>C</b>	<b>DRILLING</b>							
i	Drilling upto 300m (Very hard Rock )(2 rigs) HQ Size	m	2.2.1.5a	12,650	500	1.25	7,906,250	
ii	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	5	1.25	12,500	
iii	Borehole plugging by Cement	Meters	2.2.7b	200	500	1.25	125,000	
iv	Approach Road Making (Flat Terrain)	Km	2.2.10b	22,020	4	1.25	110,100	As per actuals
v	Transportation of DrillRig& Truck associated per drill (To & from Headquarter/Previous drill site)	Km	2.2.8	36	520	1	18,720	
vi	Monthly Accommodation Charges for drilling Camp	month	2.2.9	50,000	2	1	100,000	
vii	Drilling Camp Setting Cost	Per drill	2.2.9a	250,000	1	1	250,000	
viii	Drilling Camp Winding Cost	Per drill	2.2.9b	250,000	1	1	250,000	
ix	Approach Road Making(Flat Terrain)	Km	2.2.10a	22,020	5	1	110,100	Road Making will be considered as per the requirement. As per actuals
x	Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates& Reduced Level (RL) of the boreholesby DGPS.	Nos	1.6.2	19,200	10	1	192,000	Boreholes +Boundary Corner Points
xi	Drill Core Preservation: One complete borehole plus mineralised cores of all the BHs of the Block/ Prospect to be preserved in GI Core boxes and subsequently transported to the notified Core Repository.	m	5.3	1,590	200	1	318,000	Considering 100m iron ore mineralisation zone to be encountered in each boreholes.
	<b>SubTotal-C</b>						<b>9,392,670</b>	
<b>D</b>	<b>LABORATORYSTUDIES</b>							
	<b>ChemicalAnalysis</b>							
	<b>(Surface Samples + Core Samples+CheckSamples)</b>							

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1	a) Primary samples for major oxides (i.e. Fe, Mn, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , P, S & LOI)	Nos	4.1.15a	4,200	250		1,050,000	200 samples from boreholes and 50 trench samples.
2	b) External Check sample (10% of Primary samples) (i.e. Fe, Mn, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , P, S & LOI)	Nos	4.1.15a	4,200	25		105,000	
3	c) Analysis for Gold by Fire assay	Nos	4.1.5a	2,380	10		23,800	
4	d) Check samples Analysis for Gold by Fire assay	Nos	4.1.5a	2,380	1		2,380	
5	Preparation of thin section	Nos	4.3.1	2,353	10		23,530	
6	Preparation of polished thin section of rock/ wafer	Nos	4.3.2	1,549	10		15,490	
7	Complete petrographic study report	Nos	4.3.4	4,232	10		42,320	
8	Digital Photographs	Nos	4.3.7	280	10		2,800	
9	XRD analysis for identification of minerals	Nos	4.5.1	4,000	5		20,000	
10	Determination of Fine:Lump ratio in Iron Ore	Per cu.m	4.9	6,523	10		65,230	
11	Bulk Density Determination	Nos	4.1	3,540	5		17,700	
<b>SubTotal-D</b>							<b>1,368,250</b>	
<b>Total of A to D</b>							<b>14,142,550</b>	
<b>E</b>	<b>Geological Report Preparation</b>	<b>Cost per 5 Hardcopies of report along with soft copies</b>	<b>5.2</b>				<b>707,128</b>	Exceeding ₹50 lakh but less than 150 lakh: A minimum of ₹2.5 lakh or 5% of the work whichever is more and ₹3000/- per each additional copy.
<b>F</b>	<b>Peer review Charges</b>						<b>30,000</b>	
<b>G</b>	<b>Preparation of Exploration Proposal (5 Hard copies with a soft copy)</b>		<b>5.1</b>				<b>282,851</b>	2% of the Cost or Rs. 5.0 Lakhs whichever is lower
<b>H</b>	<b>Total Estimated Cost without GST</b>						<b>15,162,529</b>	

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I	Provision for GST(18%of H)		2,729,255	GST will be reimburse as per actual and as per notified prescribed rate
K	Total Estimated Cost with GSTRs.		17,891,784	Rs.0.76 Lakhs
L	Rs. In Lakhs		178.92	
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			

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## Preliminary Exploration (G3) for Iron Ore in Sitapur Block, District- Uttar Bastar Kanker, Chhattisgarh

Item of Works	1	2	3	4	REVIEW	5	6	7	8	REVIEW	9	10	11	12
Base Camp Setting														
Geological Mapping														
Topographical Survey, DGPS														
Trenching/Pitting														
Laboratory studies														
Core Drilling														
Analytical Work														
GR Preparation with Peer Review														

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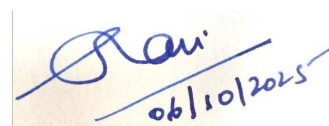
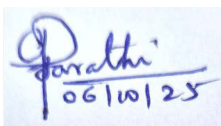
**Agenda 81.1.7. Preliminary Exploration (G3) for Graphite and associated minerals in Jarapa Block, Rayagada District, Odisha**

**[Implementing Agency: Earthenviro Lab Private Ltd.]**

- a. The proposed area falls in parts of Survey of India TS Nos. 65M/7 and forms a part of Eastern Ghats Super Group of rocks of Archaean age comprising litho units like khondalite suite of rocks, charnockite, quartzo-feldspathic gneiss and pegmatite overlain by recent soil and alluvium.
- b. GSI comments state that substantial amount of khondalite is present in the proposed block, hence it is feasible to take up graphite exploration in the block.
- c. The agency informed that State DGM has carried out G4 stage investigation in the area and identified strata-bound graphite mineralization hosted within quartz-garnet-sillimanite-graphite schist/gneiss. A total of seven graphite bodies have been delineated.
- d. The agency informed that DGM have analysed 9 samples for FC. The samples have yielded 5.86 to 22.11% of FC with average FC % being 14.91.
- e. The item was reviewed in 79<sup>th</sup> TCC-I meeting and subsequently, the agency visited field and collected samples for chemical analysis.
- f. The agency has collected four samples which have yielded 6.79 to 21.79 % FC with average of 15.1% of FC.
- g. DMG, Odisha informed that the area has already been explored at G4 stage and graphite bands were identified along the *nala* section. If any agency undertakes detailed investigation, the block should be delineated by excluding safety zones around the existing perennial *nala*.
- h. The committee reviewed the proposal and recommended approving the item for exploration in a phased manner:
  - Phase 1: Systematic mapping and proper sampling (channel, pitting, trenching)
  - Phase 2: Geophysical survey
  - Phase 3: Drilling, based on outcomes of earlier phases

**Recommendations of TCC-1:**

***The committee recommended the proposal entitled “Preliminary Exploration (G3) for Graphite and associated minerals in Jarapa Block, District: Rayagada, Odisha” for approval of EC, NMEDT with an estimated cost of ₹295.33 lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure - 6A & 6B. The item will be reviewed after 03, 06 and 09 months.***



Annexure 6A							
Estimated Cost for Preliminary Exploration (G3) for Graphite and associated minerals in Jarapa Block, District: Rayagada,Odisha. [Block area- 3.5sq. km; Nos. of Boreholes-17 Nos.; Borehole depth range: average 60 m (30 m vertical depth) ; Total Drilling: 1200 m; Schedule timeline- 12 months, Review after: 3, 6 and 9 months]							
S. No.	Job Description	Unit	Rates as per NMEDT SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item -SI	Rates as per SoC	Qty.	Total Amount (Rs)	
Phase I							
A	Geological Mapping, Other Geological work & Topographical Survey (1:4000scale)						
i	Geologist: In field	Man days	1.2	11000	150	1650000	
ii	Geologist: at HQ	Man days	1.2	9000	45	405000	
iii	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Man days	5.7	541	300	162300	As per Labour Commission
iv	Charges for one sampler per day (for sample preparation)	Man days	1.5.2	5100	81	413100	
v	Labour charges (4 Nos for sample preparation)	Man days	5.7	541	324	175284	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
vi	Surveyor (for mapping & contouring)	Man days	1.6.1a	8300	30	249000	Survey at 2m contour interval, Scale 1:2000
vii	Labour charges (4 labours)	Man days	5.7	541	120	64920	
viii	Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS (including	Per point of Observation	1.6.2	19200	21	403200	17 BH + 4 Boundary Point

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	charges for labours deployed for the work)						
	<b>Sub Total A</b>					<b>3522804</b>	
<b>B</b>	<b>Pitting/Trenching ( Out sourced)</b>						
i	Pitting(25 Nos)	per cu m	2.1.2	3800	50	190000	1.0m*1.0m*2.0m
ii	Trenching (1m x 2m x10m): 10 trenches	per cu m	2.1.1	3330	200	666000	
	<b>Sub Total B</b>					<b>856000</b>	
<b>C</b>	<b>Drilling (Outsourced)</b>						
i	Drilling(NQ size) - Diamond core drilling, 37 Nos	per m	2.2.1.4a	11500	1200	13800000	17 BH (approx. depth 70 m)
ii	Bore hole Plugging	per m	2.2.7a	200	1200	240000	
iii	Drill Core Preservation	per m	5.3	1590	400	636000	1 complete BH and mineralised zone
	<b>Sub Total C</b>					<b>14676000</b>	
<b>D</b>	<b>Geophysical Survey- Outsourced</b>						
i	IP, Self Potential, Resistivity and Magnetic	8-10 line km	3.4b	1,448,693	1.5	2173040	total 13-15 km
	<b>Sub Total D</b>					<b>2173040</b>	
<b>E</b>	<b>Laboratory Studies</b>						
1	a. Primary Samples for Proximate Analysis of Graphite: Fixed Carbon (FC), Ash (A), Moisture (M) and Volatile Matter (VM)	No.	4.1.16	3000	550	1650000	BRS-25, PTS-25, TRS-100, BH-400
	b-External(10%) Check samples from NABL Lab for Proximate Analysis of Graphite: Fixed Carbon (FC), Ash (A), Moisture (M) and Volatile Matter (VM)	No.	4.1.16	3000	55	165000	

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2	Whole Rock Analysis (SiO <sub>2</sub> , Fe <sub>2</sub> O <sub>3</sub> , MnO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , MgO, CaO, BaO, K <sub>2</sub> O, P <sub>2</sub> O <sub>5</sub> , TiO <sub>2</sub> , V <sub>2</sub> O <sub>5</sub> , LOI, S, V) (XRF)		4.1.15 a	4200	10	42000	
3	REE analysis of 14 elements by ICPMS	No.	4.1.13	5380	35	188300	
4	XRD Studies		4.5.1	4000	20	80000	
5	<b>Physical &amp; Petrological Studies</b>						
i	Preparation of polished thin section	No.	4.3.2	1,549	10	15490	
ii	Complete petrographic study report	No.	4.3.4	4232	10	42320	
iii	Digital Photographs	No.	4.3.7	280	10	2800	
iv	Determination of insitu bulk density	Per Sample	4.10	3540	5	17700	
v	Raman Spectroscopy			3345	5	16725	Cost not available in SoC, NMEDT. This rate is based on the last analysis rate carried out by MECL at GSI Lab. Will be reimbursed as per actual cost through outsourcing.
	<b>Sub Total E</b>					<b>2220335</b>	
	<b>Total A+B+C+D+E</b>					<b>23448179</b>	
	<b>Total outsourced component</b>					<b>16213040</b>	
F	<b>Tendering Cost</b>		<b>2.3</b>			<b>324261</b>	
G	<b>Operational Charges</b>		<b>6</b>	<b>1</b>		<b>1185652</b>	
	<b>Total Cost</b>					<b>23772439</b>	
H	Geological Report Preparation	1	5.2(ii)			750000	A minimum of 7.5 lakh or 3% of the work whichever is more

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I	Peer Review by External Expert	1	As per EC decision	30000		30000	
J	Preparation of Exploration Proposal	1	5.1			475449	2% of the approved project cost or 5 lakh whichever is lower
K	<b>Project Cost without GST</b>					<b>25027888</b>	
L	<b>GST - 18%</b>					<b>4505020</b>	
M	<b>Total Project Cost(With GST)</b>					<b>29532908</b>	
N	<b>Rs. In Lakhs</b>					<b>295.33</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 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.</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 Preliminary Exploration (G3) for Graphite and associated minerals in Jarapa Block, District:  
Rayagada, Odisha.**

S.No	Activity Plan	1	2	3		4	5	6		7	8	9		10	11	12
1	Topographical Survey				REVIEW-1				REVIEW-2				REVIEW-3			
2	Lithological Mapping(1:4000 scale) and Sampling															
3	Pitting															
4	Sample Preparation for chemical analysis															
First Review by TCC on progress and outcome																
5	Geophysical Survey															
Second Review by TCC on progress and outcome																
6	Exploratory Drilling, Borehole collar survey															
7	Logging, Sampling, Bulk Density determination															
8	Chemical Analysis															
9	Mineragraphic, XRD, Trace Element Study and other studies															
Final Review by TCC on progress and outcome																
10	Data Synthesis and draft report preparation															
11	Peer Review															
12	Final Report Preparation and Submission															

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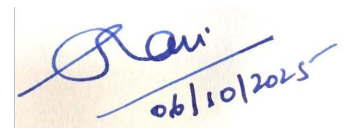
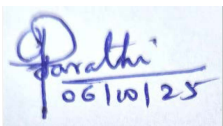
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**Agenda 81.1.8. Reconnaissance Survey (G4) for Aluminium Laterites and associated Critical Minerals around Nakhare area, Ratnagiri District, Maharashtra [Implementing Agency: Bhushilp Mines and Minerals Private Limited]**

- a. The proposed block falls in Survey of India Toposheet No. 47H/05 and belongs to Sahyadri Group in the Western Ghats as well as the rocks of the Dharwar Supergroup of rocks.
- b. The block lies near areas known for Aluminous laterite/bauxite and associated critical minerals, including Ghodepawadi, Nanar, Kumbhawade, Kalambewadi, Katta-Kalvi, Padve, and Paliye, with some blocks already put up for auction.
- c. GSI has conducted STM work in the area and confirmed the presence of laterite. NGCM data indicates  $\text{Al}_2\text{O}_3$  content ranging from 17.30% to 25.03%, V from 261 ppm to 813 ppm, and  $\text{Fe}_2\text{O}_3$  from 12.76% to 28.08%.
- d. Exploration in the areas near to the proposed area reported significantly higher  $\text{Al}_2\text{O}_3$  values in several blocks: Paliye (42.30%–55.50%), Nakere (41.18%–50.75%), Kombe (40.50%–44.00%), Chavanwadi (40.32%–43.84%), Nivali (44.01%–45.44%), and Ansure (43.36%).
- e. The proposal was reviewed in 78<sup>th</sup>, 79<sup>th</sup> and 80<sup>th</sup> TCC-I meetings and subsequently, the agency has visited field and collected four samples for analysis.
- f. The samples have yielded 33.67 to 50.19% of  $\text{Al}_2\text{O}_3$  with three of samples having  $\text{Al}_2\text{O}_3$  values more than 48%. The samples have also yielded Vanadium (2390-3120 ppm), Gallium (170-270 ppm) and Chromium (710-1130 ppm). Samples have also given encouraging values of  $\text{TiO}_2$  which is upto 5%.
- g. The committee reviewed the proposal and chemical results and approved the proposal for reconnaissance survey.

**Recommendations of TCC-1:**

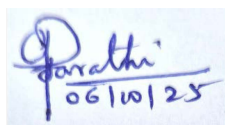
*The committee recommended the proposal entitled “Reconnaissance Survey (G4) for Aluminous laterite and associated critical minerals in Nakhare area, Ratnagiri District, Maharashtra” for approval of EC, NMEDT with an estimated cost of ₹104.92 lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure - 7A & 7B. The item will be reviewed after 04 and 08 months.*



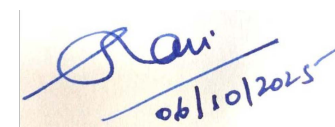
## Annexure 7A

**Estimated Cost for Reconnaissance Survey (G4) for Aluminous laterite and associated critical minerals in Nakhare area, Ratnagiri District, Maharashtra**  
**[Block area-76 sq.km; Total Drilling: 150 m (5 Nos. of BH); Timeline Schedule-10 months; Review after: 4 and 8 months]**

S.No.	Item of Work	Unit	SoC-Item-SI No.	Rates as per NMEDT SoC 2020-21	Estimated Cost of the Proposal		Remarks
					Qty.	Amount (Rs)	
A	GEOLOGICAL WORK						
i	Charges for one Geologist for <b>Geological Mapping</b> - Field (1:12,500 scale mapping)	Per day	1.5.1a	11,000	120	1,320,000	
ii	Charges for one Geologist per-HQ	Per day	1.5.1a	9,000	30	270,000	
iii	2 labours / party (Rs 541/day/labour) (As per rates of Central Labour Commissioner)	Per day	5.7	541	240	129,840	
	SubTotal-A					1,719,840.00	
B	Pitting/Trenching						
i	Pitting (1m x 1m x 2m) x 25	Cu m	2.1.2	3800	50	190,000	Depth 2m
ii	BRS by channelling along the vertical profile	Cu m	2.1.1	0	50	0	50 BRS samples to be collected (The BRS samples are quantified here)
	Sub Total-B					190,000	
C	Drilling						
1	Drilling up to 301 -600 m (medium Hard rock)	m	2.2.1.3b	10,908	150	1636200	
2	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	5	100000	As per actuals
3	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	5	20000	



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4	Transportation of Drill Rig & Truck associated per drill (2 rig)	Km	2.2.8	36	2000	72000	Nagpur to Ratnagiri
5	Monthly Accommodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	3	150000	To be accomodated in the Barsu item of same agency
6	Drilling Camp Setting Cost	Nos	2.2.9a	250000	1	250000	
7	Drilling Camp Winding up Cost	Nos	2.2.9a	250000	1	250000	
8	Road Making (Flat Terrain)	Km	2.2.10a	22,020	5	110100	As per actuals
9	Drill Core Preservation	per m	5.3	1,590	150	238500	
10.a	Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	62	316200	
10.b	Labours (4 Nos)	day	5.7	541	248	134168	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
<b>SubTotal - C</b>						<b>3277168</b>	
<b>D</b>	<b>LABORATORY STUDIES</b>						
i	Major oxides and Trace Element analysis (XRF)	Per Sample	4.1.15a	4200	225	945,000	BH Sample: 125, Pit sample: 50, BRS sample: 50
	10 % external samples	Per Sample	4.1.15a	4200	22	92,400	
ii	Analysis for associated trace element (ICPMS- 34 element package including V, Ga, Co ,Ni, Cr)	Per Sample	4.1.14	7731	225	1,739,475	
iii	Check Samples ( 10% External)	Per Sample	4.1.14	7,731	22	170,082	
<b>Petrographic studies</b>							
iv	Preparation of thin sections	Per Sample	4.3.1	2353	10	23,530	

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v	Study of thin sections	Per Sample	4.3.4	4232	10	42,320	
vi	XRD	Per Sample	4.5.1	4000	10	40,000	
vii	Ore Microscopic Study	Per Sample	4.3.4	4232	10	42,320	
	SubTotal-D					3,095,127.00	
E	Sub Total (A+B+C+D)					8,282,135.00	
F	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hardcopies with a soft copy	5.1	2% of approved project cost or 5 lakh whichever is lower	1	165642.7	EA has to submit the Hard Copies and the soft copy of the final proposal along with Maps and Plan a suggested by the TCC-NMEDT in its meeting while Clearing the proposal.
G	Geological Report Preparation		5.2.IV	For the projects having cost exceeding Rs.50 lakhs and less than Rs.150 lakhs- A minimum of Rs.2.5 lakhs or 5% of the value of work Whichever is more		414106.75	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMEDT.
H	Peer review Charges		As per EC decision	30000	1	30,000	
I	Total Estimated Cost without GST					8,891,884.45	
J	Provision for GST (18%of I)					1,600,539.20	GST will be reimburse as per actual and as per Notified prescribed rate
K	Total Estimated Cost with GST					10,492,423.65	
	Rs. In Lakhs					104.92	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.						

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3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of 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.

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Annexure 7B																
Time Schedule/ Action Plan for Reconnaissance Survey (G4) for Aluminous laterite and associated critical minerals in Nakhare area, Ratnagiri District, Maharashtra																
Sl.No.	Description	Months/Days	1	2	3	4	REVIEW	5	6	7	8	REVIEW	9	10	11	12
1	Camp setting	days														
2	Geological mapping	days														
3	Sampling days	days														
4	Laboratory Studies	months														
5	Report Writing with Review	months														

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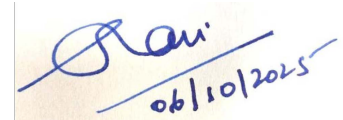
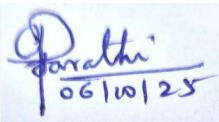
**Agenda 81.1.9. Reconnaissance Survey (G4) for Critical Minerals associated with aluminous laterite in Dhaulvali-Barsu area, Ratnagiri District, Maharashtra**

**[Implementing Agency: Bhushilp Mines and Minerals Private Limited.]**

- a. The proposed area mainly covered by the Lateritic capping with the Deccan basalt in the valley part and falls in Survey of India Toposheet No 47H/06 and covers around 100 Sq.km in around villages of Dhaulvali, Solgaon, Barsu, Sogamwadi of Ratnagiri District of Maharashtra.
- b. GSI's exploration in southern blocks adjacent to the proposed area reported high  $Al_2O_3$  content: Paliye (42.30%–55.50%), Nakere (41.18%–50.75%), Kombe (40.50%–44.00%), Chavanwadi (40.32%–43.84%), Nivali (44.01%–45.44%), and Ansure (43.36%).
- c. The strong geological continuity with the proposed Dhaulvali-Barsu block to the north, the presence of critical minerals in the lateritic capping warrants further investigation.
- d. The proposal was earlier reviewed in 78<sup>th</sup>, 79<sup>th</sup> and 80<sup>th</sup> TCC-I meetings and subsequently, the agency has visited field and collected four samples for analysis.
- e. The samples have yielded 25.56 to 52.09% of  $Al_2O_3$  with two of samples having  $Al_2O_3$  values more than 50%. The samples have also yielded Vanadium (2280-3200 ppm), Gallium (180-270 ppm) and Chromium (670-1970 ppm). Samples have also given encouraging values of  $TiO_2$  which is upto 3.5%.
- f. The committee reviewed the proposal and chemical results and approved the proposal for reconnaissance survey.

**Recommendations of TCC-1:**

*The committee recommended the proposal entitled "Reconnaissance Survey (G4) for aluminous laterite and associated critical minerals in Dhaulvali-Barsu area, Ratnagiri District, Maharashtra" for approval of EC, NMEDT with an estimated cost of ₹94.16 lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexures - 8A & 8B. The item will be reviewed after 04 and 08 months.*



## Annexure 8A

**Estimated Cost for Reconnaissance Survey (G-4) for aluminous laterite and associated critical minerals in Dhaulvali-Barsu area, Ratnagiri District, Maharashtra Area: 60 Sq Km, Total Drilling: 150 m (5 No.s of BH); Time Schedule 10 months; Review after: 4 and 8 months**

S.No.	Item of Work	Unit	SoC-Item-SI No.	Rates as per SoC 2020-21	Estimated Cost of the Proposal		Remarks
					Qty.	Amount (Rs)	
<b>A</b>	<b>GEOLOGICAL WORK</b>						
i	Charges for two Geologist for <b>Geological Mapping</b> - Field (Geological Mapping on 1:12,500 scale)	Per day	1.5.1a	11,000	110	1,210,000	
ii	Charges for one Geologist per-HQ	Per day	1.5.1a	9,000	30	270,000	
iii	2 labours / party (Rs 541/day/labour) (As per rates of Central Labour Commissioner)	day	5.7	541	220	119,020	
					<b>SubTotal-A</b>	<b>1,599,020.00</b>	
<b>B</b>	<b>Pitting/Trenching</b>						
i	Pitting (1m x 1m x 2m) x 25	Cu m	2.1.2	3800	50	190,000	Depth 2m
ii	BRS by channeling along the vertical profile	Cu m	2.1.1	0	50	0	50 BRS samples to be collected (The BRS samples are quantified here)
					<b>SubTotal-B</b>	<b>190,000.00</b>	
<b>C</b>	<b>Drilling</b>						
1	Drilling up to 301 -600 m (medium Hard rock)	m	2.2.1.3b	10,908	150	1636200	
2	Land / Crop Compensation (in case	per BH	5.6	20,000	5	100000	As per actuals

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	the BH falls in agricultural Land)						
3	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	5	10000	
4	Transportation of Drill Rig & Truck associated per drill (2 rig)	Km	2.2.8	36	0	0	The same drill rig to be deployed in the nearby Nakhare block is to be considered for this block.
5	Monthly Accommodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	0	0	
6	Drilling Camp Setting Cost	Nos	2.2.9a	250000	0	0	
7	Drilling Camp Winding up Cost	Nos	2.2.9a	250000	0	0	
8	Road Making (Flat Terrain)	Km	2.2.10a	22,020	5	110100	As per actuals
9	Drill Core Preservation	per m	5.3	1,590	150	238500	
10.a	Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	62	316200	
10.b	Labours (4 Nos)	day	5.7	541	248	134168	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
	<b>SubTotal - C</b>					<b>2545168</b>	
<b>D</b>	<b>LABORATORY STUDIES</b>						
i	Major oxides and Trace Element analysis (XRF)	Per Sample	4.1.15a	4200	225	945,000	BH Sample: 125, Pit sample: 50, BRS sample: 50
	10 % external samples	Per Sample	4.1.15a	4200	22	92,400	
ii	Analysis for associated trace element (ICPMS-34 element package)	Per Sample	4.1.14	7731	225	1,739,475	

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	including V, Ga, Co ,Ni, Cr)						
iii	Check Samples ( 10% External)	Per Sample	4.1.14	7,731	22	170,082	
	<b>Petrographic studies</b>						
iv	Preparation of thin sections	Per Sample	4.3.1	2353	10	23,530	
v	Study of thin sections	Per Sample	4.3.4	4232	10	42,320	
vi	XRD	Per Sample	4.5.1	4000	10	40,000	
vii	Ore Microscopic Study	Per Sample	4.3.4	4232	10	42,320	
					<b>SubTotal-D</b>	<b>3,095,127.00</b>	
<b>E</b>	<b>Sub Total (A+B+C+D)</b>					<b>7,429,315.00</b>	
	<b>Miscellaneous Charges</b>						
<b>F</b>	<b>Preparation of Exploration Proposal (5 Hard copies with a soft copy)</b>	<b>5 Hardcopies with a soft copy</b>	<b>5.1</b>	2% of approved project cost or 5 lakh whichever is lower	1	148586.3	EA has to submit the Hard Copies and the soft copy of the final proposal along with Maps and Plan a suggested by the TCC-NMEDT in its meeting while Clearing the proposal.
<b>G</b>	<b>Geological Report Preparation</b>		<b>5.2.IV</b>	For the projects having cost exceeding Rs.50 lakhs and less than Rs.150 lakhs- A minimum of Rs.2.5 lakhs or 5% of the value of work Whichever is more		371466	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMEDT.
<b>H</b>	<b>Peer review Charges</b>		<b>As per EC decision</b>	30000	1	30,000	
<b>I</b>	<b>Total Estimated Cost without GST</b>					<b>7,979,367.05</b>	

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J	Provision for GST (18%of I)	1,436,286.07	GST will be reimburse as per actual and as per Notified prescribed rate
K	Total Estimated Cost with GST	9,415,653.12	
	Rs. In Lakhs	94.16	
	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.		

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Annexure 8B																
Time Schedule/ Action Plan for Reconnaissance Survey (G-4) for aluminous laterite and associated critical minerals in Dhaulvali-Barsu area, Ratnagiri District, Maharashtra																
Sl.No.	Description	Months/Days	1	2	3	4	REVIEW	5	6	7	8	REVIEW	9	10	11	12
1	Camp setting	days														
2	Geological mapping	days														
3	Sampling days	days														
4	Laboratory Studies	months														
5	Report Writing with Review	months														

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**Agenda 81.1.10. Preliminary Exploration (G3) for Gold in Kanivihalli Block, Davangere District, Karnataka**

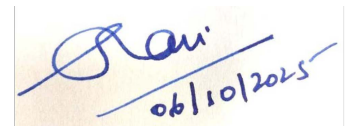
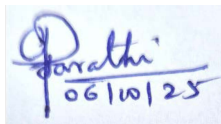
**[Implementing Agency: Geovale Services Pvt. Ltd.]**

- a. The proposed area falls in Survey of India TS No. 57B/01 and belongs to the metallogenic corridor of the Chitradurga Schist Belt, comprising ferruginous cherts, Fe–Mn phyllites, metabasalts, felsic volcanics, and pyroclastics.
- b. The agency informed the committee that Kanivihalli Gold Prospect Block (30 sq km) was allotted to agency by DMG, Karnataka in the 7th Technical Committee (Exploration) meeting.
- c. GSI in their comments have stated that based on the past baseline and exploration data, the area is potential for taking up gold exploration.
- d. The agency also apprised the committee that gold reported from adjacent Uppanyakanahalli and Bagali Block (GSI, 2016-17), in the area NW of proposed block.
- e. The agency has carried out field work in the proposed block, and informed the committee that Gold fire assay result of Gossan zone shows 45 ppb gold.
- f. The agency also informed that a total of 14 BR samples were analysed using ICP-MS, with six of them additionally subjected to gold fire assay. The analytical results have yielded gold values from 6 to 42 ppb. Co concentrations also ranged from 1.9 to 1400 ppm. Cu and Zn concentrations have values of 4.8-400 ppm and 5.9-700 ppm.
- g. The committee reviewed the proposal and suggested that exploration has to be executed in phased manner.
- h. The committee suggested that the GM block should be covered through systematic traverse mapping, along with intensive surface sampling at regular intervals (preferably every 200 m across potential zones), utilizing GSI's existing LSM at 1:12,500 scale. This is intended to delineate potential areas for detailed mapping.
- i. Phase I work will be followed by geophysical surveys, trenching followed by scout drilling. In III phase, detailed mapping (1:2000 scale), topographical survey and systematic drilling will be carried out.

**Recommendations of TCC-1:**

***The committee recommended the proposal entitled “Preliminary Exploration (G3) for Gold in Kanivihalli Block, Davangere District, Karnataka” for approval of EC, NMEDT with an estimated cost of ₹591.51 lakhs (including GST) within time schedule of 15 months for carrying out the proposed work and submission of report as per Annexures - 9A & 9B. The item will be reviewed after 04, 08 and 12 months.***

**Note: The approval of project is subject to re-notification/re-accreditation of the agency**



## Annexure 9A

**Estimated Cost for Preliminary Exploration (G3) for Gold in Kanivihalli Block, Davangere District, Karnataka,  
Area 30 sq. km, No. of BH:20, Total drilling: 2500m; Schedule timeline- 15 months; Review: After 4, 8 and 12 months**

S. No.	Item of Work *	Unit *	Rates as per NMEDT SoC 2020-21	Estimate d Cost of the Proposal			Remarks
			SoC-Item No. *				
	PHASE-1 (including updation of existing Geological map, Pitting, Trenching and Bedrock Sampling in grid pattern in identified mineralised zones)						
A	Geological Mapping Other Geological Work						
	Traverse Mapping (1:12,500 scale), Sampling, Pitting/Trenching						
i	Charges for Geologist per day (Field) for geological mapping	day	1.2	11,000.00	60.00	660,000	including sampling
ii	Labours Charges; Base rate	day	5.7	541.00	120.00	64,920	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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iii	Charges for Geologist per day (HQ)	day	1.2	9,000.00	45.00	405,000	For entire project (including 3 phases)
	<b>Trenching/Pitting</b>						
iv	Pit up to 2.0 m depth	per cu.m	2.1.2	3,800.00	-	-	25 pits (2*2*2), 50 samples
v	Trenching	per cu.m	2.1.3	3,800.00	100.00	380,000	
vi	Bed rock sampling			-	100.00	-	
	<b>Sub Total- A</b>					<b>1,509,920</b>	
<b>B</b>	<b>LABORATORY STUDIES</b>						
1	<b>Chemical Analysis</b>						
	<b>Geochemical Sampling- Surface samples (Bedrock/Channel /Soil/Stream sediment)</b>						
i	Au by Fire Assay	Nos	4.1.5a	2,380.00	200.00	476,000	100 Trench samples+ 100 BRS
ii	XRF / Whole Rock Analysis	Nos	4.1.15a	4,200.00	-	-	
iii	ICPMS (34 elements package)	Nos	4.1.14	7,731.00	50.00	386,550	
iv	Determination of mercury in rock or soil samples (by Cold Vapour Technique)	Nos	4.1.10	1,060.00	10.00	10,600	
	<b>Surface Check samples (10% External)</b>						

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i	Au by Fire Assay	Nos	4.1.5a	2,380.00	20	47,600	
ii	XRF / Whole Rock Analysis	Nos	4.1.15a	4,200.00	-	-	
	ICPMS (34 elements package)	Nos	4.1.14	7,731.00	5.00	38,655	
vi	Sampler Man days		1.5.2	5100	35	178500	
vii	Labour Man days		5.7	541	136	73576	
<b>2</b>	<b>Physical &amp; Petrological Studies</b>					-	
i	Preparation of standard polish section	Nos	4.3.1	2,353	10	23,530	
ii	study of polished section	Nos	4.3.4	4,232	10	42,320	
iii	Digital Photographs	Nos	4.3.7	280	10	2,800	
iv	SEM Studies	per hour	4.4.2	2,940	10	29,400	
v	EPMA studies	per hour	5.4.1	8,540	10	85,400	
	<b>Sub Total- B</b>					<b>1,394,931</b>	
	<b>Review</b>						
	<b>PHASE-2 (GP survey in the zones identified in Phase 1 and Trenching)</b>						
<b>C</b>	<b>Ground Geophysical Survey</b>						
i	Ground magnetic	Station	3.2a	1,800.00	-	-	
ii	Resistivity Profiling (Station interval 200m.)	line km	3.6a	58,880.00	20	1,177,600	200m station interval, 500 m line interval

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	IP(Dipole Dipole) (10-20 km)	line km	3.4 a	69,950.00	2	139,900	
iii	Geophysicist party days (Field)	per day	3.18	11,000.00	-	-	2 geophysicts, 2 months
iv	Labours Charges	day	5.7	526.00	-	-	
v	Geophysicist party days (HQ)	per day	3.18	9,000.00	20	180,000	
	<b>Sub Total- C</b>					<b>1,497,500</b>	
<b>D</b>	<b>Trenching/Pitting</b>						
	Trenching	per cu.m	2.1.3	3,800.00	150.00	570,000	Trench samples 100
	Charges for Geologist per day (Field) for geological mapping	day	1.2	11,000.00	45.00	495,000	
	Labours Charges; Base rate	day	5.7	541.00	90.00	48,690	
	<b>Sub Total- D</b>					<b>1,113,690</b>	
<b>E</b>	<b>Scout Drilling (In-house)</b>						
i	Total Drilling 1500 m; 6 BH (250 m avg depth)	m	2.2.1.5a	12,650.00	500	6,325,000	No. of BHs
ii	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH	5.6	20000	5	100,000	<b>As per actuals</b>
iii	Concrete pilar construction (12"x12"x30")	per BH	2.2.7a	2,000	5	10,000	<b>As per actuals</b>

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iv	Transportation of Drill Rig & Truck associated per drill	km	2.2.8	36	8000	288,000	(2 rigs, 2 trucks)-Two way; Kolkata to Harpanahalli 2000; 2*4000 km (to and fro)
v	Monthly Accomodation Charges for drilling Camp	month	2.2.9	50000	2	100,000	
vi	Drilling Camp Setting Cost	Nos	2.2.9a	250000	2	500,000	It will be for both the phases
vii	Drilling Camp Winding up Cost	Nos	2.2.9b	250000	2	500,000	It will be for both the phases
viii	Approach Road making for rugget/hilly terrain	km	2.2.10b	32200	5	161,000	<b>As per actuals</b>
ix	Drill Core Preservation	per meter	5.3.0	1590	250	397,500	
	<b>Sub Total E</b>					<b>8,381,500</b>	
<b>F</b>	<b>LABORATORY STUDIES</b>						
1	<b>Chemical Analysis</b>						
	<b>Geochemical Sampling- BH samples</b>						
i	Au by Fire Assay	Nos	4.1.5a	2,380	250	595,000	150 Trench + 100 BH
ii	XRF / Whole Rock Analysis	Nos	4.1.15a	4,200	25	105,000	Same samples
iii	ICPMS	Nos	4.1.14	7,731	25	193,275	
	<b>Check samples (10% External)</b>						

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i	Au by Fire Assay	Nos	4.1.5a	2,380	25	59,500	
ii	XRF / Whole Rock Analysis	Nos	4.1.15a	4,200	3	10,500	
	ICPMS	Nos	4.1.14	7,731	3	19,328	
vi	Sampler Man days		1.5.2	5,100	41	208,781	
vii	Labour Man days		5.7	526	164	86,133	
<b>2</b>	<b>Physical &amp; Petrological Studies</b>					-	
i	Preparation of standard polish section	Nos	4.3.1	2,353	10	23,530	
ii	study of polished section	Nos	4.3.4	4,232	10	42,320	
iii	Digital Photographs	Nos	4.3.7	280	10	2,800	
iv	SEM Studies	per hour	4.4.2	2,940	10	29,400	
v	EPMA studies	per hour	4.4.1	8,540	10	85,400	
	<b>Sub Total F</b>					<b>1,460,966</b>	
	<b>Review</b>						
	<b>PHASE-3</b>						
<b>G</b>	<b>Detailed Geological Mapping in 1:2,000 (Approx. 3 sq. km.) scale and Topographic Survey over prospective zone</b>						
i	Charges for Geologist per day (Field) for geological mapping	day	1.2	11,000.00	150	1,650,000	
ii	Labours Charges; Base rate	day	5.7	526.00	300	157,800	Amount will be reimbursed as per the notified rates by the Central Labour

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							Commissioner or respective State Govt. whichever is higher.
i	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.6.2	19,200	28	537,600	20 BH points; 8 corner points
ii	Charges of Surveyor (1 party) for topographic survey	one surveyor per day	1.6.1a	8,300	50	415,000	
iii	Labours Charges for survey work;	day	5.7	541.00	200	108,200	
	<b>Sub-Total G</b>					<b>2,868,600</b>	
<b>H</b>	<b>2nd Phase DRILLING (In-house)</b>						
i	Drilling up to depth of 120m/220m 250 m (Very Hard Rock); 800m spacing; 30 BH	m	2.2.1.5a	12,650.00	2000	25,300,000	Will be reviewed after 2 phase of work
ii	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH	5.6	20,000.00	20	400,000	as per actual
iii	Concrete pilar construction (12"x12"x30")	per BH	2.2.7a	2,000	30	60,000	as per actual
iv	Transportation of Drill Rig & Truck associated per drill	km	2.2.8	36	0	-	

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v	Monthly Accomodation Charges for drilling Camp	month	2.2.9	50000	4	200,000	6*2 camps
vi	Drilling Camp Setting Cost	Nos	2.2.9a	250000	0	-	
vii	Drilling Camp Winding up Cost	Nos	2.2.9b	250000	0	-	
viii	Approach Road making for rugget/hilly terrain	km	2.2.10b	32200	5	161,000	as per actual
ix	Drill Core Preservation	per meter	5.3.0	1590	1,000	1,590,000	
	<b>Sub Total H</b>					<b>27,711,000</b>	
<b>I</b>	<b>LABORATORY STUDIES</b>						
<b>1</b>	<b>Chemical Analysis of BH samples</b>						
i	Au by Fire Assay	Nos	4.1.5a	2,380	400	952,000	400 core samples
ii	XRF / Whole Rock Analysis	Nos	4.1.15a	4,200	-	-	
iii	ICPMS	Nos	4.1.14	7,731	50	386,550	
iv	Determination of mercury in rock or soil samples (by Cold Vapour Technique)	Nos	4.1.10	1,060	-	-	
	<b>BH Core samples (10%External)</b>					-	
i	Au by Fire Assay	Nos	4.1.5a	2,380	40	95,200	
ii	XRF / Whole Rock Analysis	Nos	4.1.15a	4,200	-	-	
	ICPMS	Nos	4.1.14	7,731	5	38,655	
vi	Sampler Man days		1.5.2	5,100	61	312,375	
vii	Labour Man days		5.7	541	244	132,004	
	<b>Sub Total I</b>					<b>1,916,784</b>	
<b>J</b>	<b>Physical &amp; Petrological Studies</b>					-	

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i	Preparation of standard polish section	Nos	4.3.1	2,353	20	47,060	
ii	study of polished section	Nos	4.3.4	4,232	20	84,640	
iii	Digital Photographs	Nos	4.3.7	280	20	5,600	
iv	SEM Studies	per hour	4.4.2	2,940	10	29,400	
v	EPMA studies	per hour	5.4.1	8,540	10	85,400	
	<b>Geotechnical Laboratory</b>						
i	Specific gravity of rock sample	per sample	4.8.1	1,605	5	8,025	
iii	Uniaxial compressive strength	per sample	4.8.4	6,160	5	30,800	
vii	Bulk Density	per sample	4.8.3	1,568	5	7,840	
	<b>Sub Total J</b>					<b>298,765</b>	
<b>K</b>	<b>Total A to J</b>					<b>48,153,656</b>	
<b>L</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>	2% of approved project cost or 5 lakh whichever is lower		<b>500,000</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>M</b>	<b>Geological Report Preparation</b>	<b>5 Hard copies with a soft copy</b>	<b>5.2</b>	iv) Detailed exploration with cost of work exceeding ₹ 300 lakh: A minimum of ₹ 9 lakh or 3% of the value of work whichever is more subject to a maximum amount of ₹ 20 lakh and ₹ 10,000/- per each additional copy.		<b>1,444,610</b>	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMEDT.

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N	Peer review Charges		As per EC decision		30,000	
O	Total Estimated Cost without GST				50,128,266	
P	Provision for GST (18%)				9,023,088	GST will be reimburse as per actual and as per notified prescribed rate
Q	Total Estimated Cost with GST				59,151,354	
R				Rs. In Lakhs	591.51	
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					

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## Time Schedule/ Action Plan for Preliminary Exploration (G3) for Gold in Kanivihalli Block, Davangere District, Karnataka

S. No.		1	2	3	4		5	6	7	8		9	10	11	12		13	14	15
1	Camp Setting					Review					Review					Review			
2	Traverse Mapping, Sampling and Geochemical analysis																		
3	Pitting/Trenching																		
4	Geophysical survey																		
5	Scout Drilling																		
6	Detailed Mapping, sampling and geochemistry																		
7	Systematic Drilling																		
8	Survey Party days																		
9	Resource Estimation																		
10	Report Writing with Peer Review																		

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## **Agenda 81.2: Review of New Procurement Proposal**

### **Agenda 81.2.1. Financial Assistance from NMEDT funds to procure Machinery Laboratory Equipment/instruments etc. aimed at enhancing the exploration activities**

#### **[Implementing Agency: DMG Kerala]**

- a. NMEDT, New Delhi informed that as per the decision of competent authority, procurement proposals must be submitted in accordance with the revised guidelines. The item was not reviewed.
- b. The Chairman advised NMEDT to circulate the guidelines to all agencies and requested DMG, Kerala to resubmit the proposal accordingly.

#### **Recommendations of TCC-1:**

***The committee deferred the proposal and suggested NMEDT to circulate the revised guidelines to all agencies.***

## **Agenda 81.3: Project Evaluation for In-Principle Approval**

### **Agenda 81.3.1. Reconnaissance Survey (G4) of Lithium and REE bearing Minerals in Korba district, Chhattisgarh.**

#### **[Implementing Agency: IMPCON]**

- a. The proposed area falls in Survey of India TS No. 64J/11 and exposes rocks of Chhotanagpur Gneissic Complex of Archaean-Palaeoproterozoic age.
- b. As 60% of the area overlaps with the Geological Survey of India's (GSI) ongoing exploration activities, it is advised to revise and resubmit the proposal, excluding the overlapping portion currently under GSI exploration.
- c. Comments from AMD is also awaited.
- d. The item is not approved.

#### **Recommendations of TCC-1:**

***The committee did not approve the proposal.***

### **Agenda 81.3.2. Reconnaissance Survey (G4) for Beach-Placer in Rushikulya area (Block A, Block B & Block C), Ganjam and parts of Puri districts, Odisha.**

#### **[Implementing Agency: Gemcokati]**

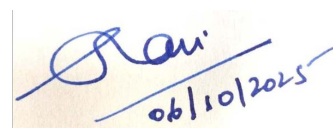
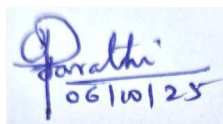
- a. The proposed area falls in Survey of India TS No. 74A/15 and 74E/3 and the proposal is regarding reconnaissance survey of beach placers.
- b. GSI informed that the beach placers in the proposed area contains atomic minerals and AMD is actively involved in the area.
- c. The proposed blocks have already been explored (G2/G1 stage) for BSM by AMD in different phases.
- d. The committee discussed the comments received from GSI and AMD.
- e. The item is not approved.

#### **Recommendations of TCC-1:**

***The committee did not approve the proposal.***

### **Agenda 81.3.3. Reconnaissance Survey (G4) for Scandium, Gold, Gallium, Silver and associated minerals in Serpar-Bhimpuri area, Mohla-Manpur-Ambagarh Chowki and Balod districts, Chhattisgarh (180 Sq. km)**

#### **[Implementing Agency: Gemcokati]**



- a. The proposed area falls in Survey of India TS No. 64D/14 and exposes rocks of Bailadila and Nandgaon Groups of Chhattisgarh Supergroup.
- b. MECL informed that there is no overlapping with the proposed area. The area was mapped by GSI under G4 stage for gold commodity way back in FS 1996-97. DGM Chhattisgarh also informed that there is no overlapping with DMG area.
- c. The committee reviewed the proposal.
- d. The project is proposed based on NGCM values of Scandium (Sc) reaching up to 1200 ppm, along with a few encouraging values for Silver (Ag), Gold (Au), and other elements, as identified by GSI during the Field Season 2017–18.
- e. Geochemical data from the National Geochemical Mapping (NGCM) program, conducted by the Geological Survey of India (FSP 2017–2018), have reported anomalous scandium concentrations of up to 1476 ppm in the soil C horizon derived from basaltic parent rocks present in block area. The regolith samples have also yielded Sc upto 825 ppm.
- f. The committee opined that the source horizon contributing to the Scandium (Sc) values needs to be established.
- g. The proposed area should be revised to exclude the overlapping portion and supported with field data, including lateritic profile studies and sample analyses.
- h. The committee advised the agency to visit field and record the thickness of lateritic horizon at top along with collection of samples.
- i. The item is approved for DPR preparation, subject to submission of the required field data.

**Recommendations of TCC-1:**

***The committee approved the proposal in principle and advised the agency to undertake a field visit, collect samples for analysis, and present the Detailed Project Report (DPR) in the forthcoming TCC meeting.***

**Agenda 81.3.4. Reconnaissance survey (G4) for REE in and around Manikagoda area, Nayagarh District, Odisha**

**[Implementing Agency: Kartikay Exploration and Mining Services Pvt. Ltd.]**

- a. The proposed area falls in Survey of India TS No. 73H/4 and exposes rocks of Khondalite and Charnockite Group of Eastern Ghat Mobile Belt, intrusives and laterite.
- b. The item has more than 70% overlap with the area approved by the Geological Survey of India (GSI) for exploration during the Field Season 2026–27.
- c. The proposal is not considered for DPR. The agency is advised to evaluate the non-overlapping area and substantiate it with supporting field evidence.

**Recommendations of TCC-1:**

***The proposal is not considered for DPR. The agency is advised to evaluate the non-overlapping area and substantiate it with supporting field evidence.***

**Agenda 81.3.5. Reconnaissance survey (G4) for Graphite in and around Ghusuramunda- Malisira area, Bolangir District, Odisha**

**[Implementing Agency: Kartikay Exploration and Mining Services Pvt. Ltd.]**

- a. The proposed block falls in Survey of India Toposheet 64P/3 and forms a part of the rocks of the Eastern Ghat Supergroup represented by quartz-garnet sillimanite graphite schists and gneisses (khondalites), garnetiferous quartzites, calc-granulites, granite gneisses (porphyroblastic and non-porphyroblastic), migmatites, and associated pegmatites and quartz veins.

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- b. GSI informed the committee that the block is overlapping with the GSI's block allocated to GSI by state DGM under Cluster-52 and Cluster-15.
- c. DMG Odisha also apprised the committee that the block is already allocated to GSI under Rule No. 67 for exploration.
- d. MECL also informed the committee that the proposed area is overlapping with the area already allocated to GSI and MECL.
- e. The proposal is not recommended.

**Recommendations of TCC-1:**

***The committee did not approve the proposal.***

**Agenda 81.3.6. Reconnaissance survey (G4) for aluminum laterites and associated Critical Minerals in Umroli block, Ratnagiri District, Maharashtra**

**[Implementing Agency: Kartikay Exploration and Mining Services Pvt. Ltd.]**

- a. The proposed block falls in Survey of India Toposheet 47G/07 and exposes basaltic lava flows of Sahyadri Group of Deccan Trap Supergroup of Upper Cretaceous to Palaeocene age.
- b. GSI informed that the forms part of ongoing M-II RP project.
- c. The agency presented the material and informed that GSI has carried out GCM in TS 47G/7 and 47G/8 and 348 SS were collected.
- d. The committee reviewed the proposal and opined that the available GCM data is not much encouraging, however, some previous works (JNARDDC) has reported availability of critical minerals in the laterite and underlying basalt.
- e. The agency is advised to visit field and collect samples for analysis and present the data so obtained in TCC meeting for review.

**Recommendations of TCC-1:**

***The committee approved the proposal in principle and advised the agency to undertake a field visit, collect samples for analysis, and present the Detailed Project Report (DPR) in the forthcoming TCC meeting.***

**Agenda 81.3.7. Reconnaissance Survey (G4) for REE and RM (Li, Nb, Ta) in Govindpal area, Bastar and Sukma districts, Chhattisgarh**

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

- a. The proposed block falls in Survey of India Toposheet 65F/14 and is part of the Bastar–Malkangiri pegmatite belt, where Proterozoic leucogranites intrude Sukma gneisses and Bengpal metasediments.
- b. DGM Chhattisgarh informed that the block is already approved for auction.
- c. Since the block is under auction process, the proposal is not approved by committee.

**Recommendations of TCC-1:**

***The committee did not approve the proposal.***

**Agenda 81.3.8. Reconnaissance Survey (G4) for REE and RM (Li, Nb, Ta) in Toynar-Modenar area, Dakshin Bastar, Dantewada and Bastar districts, Chhattisgarh**

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

- a. The proposed block falls in Survey of India Toposheet 65F/9 and 65F/13 and is a part of Bastar-Malkangiri Pegmatite belt of Bastar Craton.

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- b. The proposed is located to the north of the T.M. Babu Block, where the occurrence of lepidolite and a few pegmatite swarms has been reported.
- c. The agency apprised the committee that these pegmatites are particularly prospective for lithium mineralization, with additional potential for niobium, tantalum, and associated rare metals.
- d. Comments from GSI, AMD and State DGM is awaited. Their comments should be made available before submission of DPR.
- e. The committee suggested that the area has been extensively explored by the Atomic Minerals Directorate (AMD). Therefore, details of overlapping work should be obtained from AMD.
- f. The agency is also advised to conduct a field visit, compile all available data, confirm the presence of pegmatites, assess the feasibility of further work, collect representative samples, and subsequently submit a Detailed Project Report (DPR).

**Recommendations of TCC-1:**

***The committee approved the proposal in principle and advised the agency to undertake a field visit, collect samples for analysis, and present the Detailed Project Report (DPR) in the forthcoming TCC meeting.***

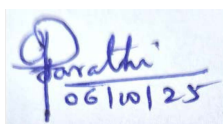
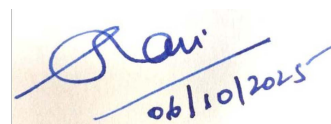
**Agenda 81.3.9. Reconnaissance Survey (G4) for REE and RM (Li, Nb, Ta) in Kankapal-Junapani area, Bastar and Sukma districts, Chhattisgarh**

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

- a. The proposed block falls in Survey of India Toposheet 65F/13 and 65F/14 and is part of Bastar-Malkangiri Pegmatite belt of Bastar Craton.
- b. The proposed is located to the east of the T.M. Babu Block, where the occurrence of lepidolite and a few pegmatite swarms has been reported.
- c. The agency apprised the committee that these pegmatites are particularly prospective for lithium mineralization, with additional potential for niobium, tantalum, and associated rare metals.
- d. The agency also informed that to the south-east of proposed block, AMD has reported lithium-bearing pegmatite veins over a stretch of 1.2 km.
- e. Comments from GSI, AMD and State DGM is awaited. Their comments should be made available before submission of DPR.
- f. The committee suggested that the area has been extensively explored by the Atomic Minerals Directorate (AMD). Therefore, details of overlapping work should be obtained from AMD.
- g. The agency is also advised to conduct a field visit, compile all available data, confirm the presence of pegmatites, assess the feasibility of further work, collect representative samples, and subsequently submit a Detailed Project Report (DPR)

**Recommendations of TCC-1:**

***The committee approved the proposal in principle and advised the agency to undertake a field visit, collect samples for analysis, and present the Detailed Project Report (DPR) in the forthcoming TCC meeting.***

**Agenda 81.3.10. Reconnaissance Survey (G4) for REE and RM (Li, Nb, Ta) in Patelpara & Kawargaon Area, Dakshin Bastar, Dantewada and Bastar districts, Chhattisgarh**

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

- a. The proposed block falls in Survey of India Toposheets 65F/9 and 65F/13 and is part of Bastar-Malkangiri Pegmatite belt of Bastar Craton.
- b. The agency apprised the committee that in the proposed Patelpara–Kawargaon area, various workers have reported occurrences of rare metals. The pegmatites swarms in the proposed area have the geological potential to host lithium, REEs, and other rare metals.
- c. Comments from GSI, AMD and State DGM is awaited. Their comments should be made available before submission of DPR.
- d. The committee suggested that the area has been extensively explored by the Atomic Minerals Directorate (AMD). Therefore, details of overlapping work should be obtained from AMD.
- e. The agency is also advised to conduct a field visit, compile all available data, confirm the presence of pegmatites, assess the feasibility of further work, collect representative samples, and subsequently submit a Detailed Project Report (DPR).

**Recommendations of TCC-1:**

***The committee approved the proposal in principle and advised the agency to undertake a field visit, collect samples for analysis, and present the Detailed Project Report (DPR) in the forthcoming TCC meeting.***

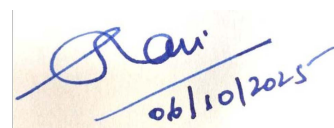
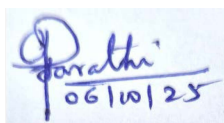
**Agenda 81.3.11. Reconnaissance Survey (G4) for REE and RM (Li, Nb, Ta) in Jogapara-Urapara Area, Bastar and Sukma districts, Chhattisgarh**

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

- a. The proposed block falls in Survey of India Toposheets 65F/9, 65F/10, 65F/13 and 65F/14 and is part of Bastar-Malkangiri Pegmatite belt of Bastar Craton.
- b. The agency apprised the committee that in the proposed Jogapara–Urapara area, occurrences of pegmatites have been identified, which correlates with lithium-bearing pegmatites reported in other nearby areas by earlier workers. The pegmatites swarms in the proposed area have the geological potential to host lithium, REEs, and other rare metals.
- c. Comments from GSI, AMD and State DGM is awaited. Their comments should be made available before submission of DPR.
- d. The committee suggested that the area has been extensively explored by the Atomic Minerals Directorate (AMD). Therefore, details of overlapping work should be obtained from AMD.
- e. The agency is also advised to conduct a field visit, compile all available data, confirm the presence of pegmatites, assess the feasibility of further work, collect representative samples, and subsequently submit a Detailed Project Report (DPR).

**Recommendations of TCC-1:**

***The committee approved the proposal in principle and advised the agency to undertake a field visit, collect samples for analysis, and present the Detailed Project Report (DPR) in the forthcoming TCC meeting.***





**Agenda 81.3.12. Reconnaissance Survey (G4) for Vanadium Titanium and associated minerals in Khejuri- Bhadupani- Rangamatiya area, Mayurbhanj District, Odisha**

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

- a. The proposed block falls in Survey of India Toposheet 73J/7 and exposes the gabbro-anorthosite rocks of Mayurbhanj mafic complex.
- b. GSI informed that the area overlaps with an exploration license block and a GM-CL block also have been submitted.
- c. The committee also observed that the existing map does not show any potential rock for Ti and V.
- d. The area may be revised to exclude the overlapping region. If the presence of potential rock types is established, the agency may resubmit the proposal for in-principle approval.

**Recommendations of TCC-1:**

***The committee deferred the proposal and suggested the agency to revise the proposed area and if the presence of potential rock types is established, the agency may resubmit the proposal for in-principle approval.***

**Agenda 81.3.13. Reconnaissance survey (G4) for REEs and rare metals in Kottapeta-Manjulakonda area, Chittoor and Tirupati districts of Andhra Pradesh**

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

- a. The proposed block falls in Survey of India Toposheet 57O/2 and is part of Eastern Dharwar Craton (EDC), where Peninsular Gneissic Complex (PGC-II) occupies a large part of area.
- b. GSI does not have any overlapping with the proposed area. Comments from AMD, MECL and state DGM to be taken.
- c. The agency apprised the committee that out of 27 SS samples collected during GCM, 9 nos. of samples have TREE values exceeding 1000 ppm, with maximum concentration being 1638.5 ppm.
- d. The agency apprised the committee that the pegmatoidal granites evolved from the partial melting may host rare metals, however no map provided in support of it.
- e. The committee reviewed the proposal and opined that the available data for REE concentration is not encouraging, hence the item is not recommended for approval.

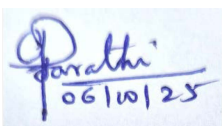
**Recommendations of TCC-1:**

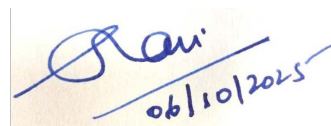
***The committee did not approve the proposal.***

**Agenda 81.3.14. Reconnaissance survey (G4) for REEs and rare metals in Airala area, Chittoor and Tirupati districts of Andhra Pradesh**

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

- a. The proposed block falls in Survey of India Toposheet 57K/15 and 57O/3 and is part of Eastern Dharwar Craton (EDC), where Peninsular Gneissic Complex (PGC-II) occupies a large part of area.
- b. The major part of the area has overlap with approved proposal for G4 stage of exploration of GSI. Comments from AMD, MECL and state DGM to be taken.
- c. The agency apprised the committee that out of 30 SS samples collected during GCM, 8 nos. of samples have TREE values exceeding 1000 ppm, with maximum concentration being 2051 ppm.

  
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- d. The agency apprised the committee that the pegmatoidal granites evolved from the partial melting may host rare metals, however no map provided in support of it.
- e. The committee reviewed the proposal and opined that the available data for REE concentration is not encouraging, hence the item is not recommended for approval.

**Recommendations of TCC-1:**

***The committee did not approve the proposal.***

**Agenda 81.3.15. Reconnaissance Survey (G4) for REEs and rare metals in Thavanampalle-Cherlopalle areas of Chittoor and Tirupati districts of Andhra Pradesh**

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

- a. The proposed block falls in Survey of India Toposheet 57K/03 and 57O/4 and is part of Eastern Dharwar Craton (EDC), where Peninsular Gneissic Complex (PGC-II) occupies a large part of area.
- b. GSI does not have any overlapping with the proposed area. Comments from AMD, MECL and state DGM to be taken.
- c. The agency apprised the committee that out of 36 SS samples collected during GCM, 4 nos. of samples have TREE values exceeding 1000 ppm, with maximum concentration being 1278 ppm.
- d. The agency apprised the committee that the pegmatoidal granites evolved from the partial melting may host rare metals, however no map provided in support of it.
- e. The committee reviewed the proposal and opined that the available data for REE concentration is not encouraging, hence the item is not recommended for approval.

**Recommendations of TCC-1:**

***The committee did not approve the proposal.***

**Agenda 81.3.16. Reconnaissance survey (G4) for REEs and rare metals in Diguvamasapalle area of Chittoor and Tirupati districts of Andhra Pradesh**

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

- a. The proposed block falls in Survey of India Toposheet 57O/4 and is part of Eastern Dharwar Craton (EDC), where Peninsular Gneissic Complex (PGC-II) occupies a large part of area.
- b. GSI does not have any overlapping with the proposed area. Comments from AMD, MECL and state DGM to be taken.
- c. The agency apprised the committee that out of 36 SS samples collected during GCM, 4 nos. of samples have TREE values exceeding 1000 ppm, with maximum concentration being 1278 ppm.
- d. The agency apprised the committee that the pegmatoidal granites evolved from the partial melting may host rare metals, however no map provided in support of it.
- e. The committee reviewed the proposal and opined that the available data for REE concentration is not encouraging, hence the item is not recommended for approval.

**Recommendations of TCC-1:**

***The committee did not approve the proposal.***

**Agenda 81.3.17. Reconnaissance survey (G4) for REEs and rare metals in Bangareddipalle area of Chittoor District of Andhra Pradesh**

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

- a. The proposed block falls in Survey of India Toposheet 57O/3, 57O/4, 57O/7 and 57O/8 and is part of Eastern Dharwar Craton (EDC), where Peninsular Gneissic Complex (PGC-II) occupies a large part of area.
- b. GSI does not have any overlapping with the proposed area. Comments from AMD, MECL and state DGM to be taken.
- c. The agency apprised the committee that out of 25 SS samples collected during GCM, 9 nos. of samples have TREE values exceeding 1000 ppm, with maximum concentration being 1680.9 ppm.
- d. The committee reviewed the proposal and opined that the available data for REE concentration is not encouraging, hence the item is not recommended for approval.

**Recommendations of TCC-1:**

***The committee did not approve the proposal.***

**Agenda 81.3.18. Reconnaissance survey for REEs and rare metals in Ammavarikuppam-Vanganur areas of Chittoor District of Andhra Pradesh and Thiruvallur district of Tamil Nadu**

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

- a. The proposed block falls in Survey of India Toposheet 57O/8 and is part of Eastern Dharwar Craton (EDC), where Peninsular Gneissic Complex (PGC-II) occupies a large part of area.
- b. GSI does not have any overlapping with the proposed area. Comments from AMD, MECL and state DGM to be taken.
- c. The agency apprised the committee that out of 25 SS samples collected during GCM, 5 nos. of samples have TREE values exceeding 1000 ppm, with maximum concentration being 1663.7 ppm.
- d. The committee reviewed the proposal and opined that the available data for REE concentration is not encouraging, hence the item is not recommended for approval.

**Recommendations of TCC-1:**

***The committee did not approve the proposal.***

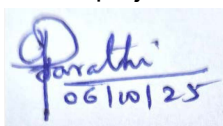
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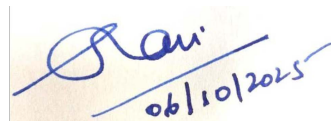
**\* The committee observed that since all the projects proposed by MMPL (listed from 81.3.13 to 81.3.18), pertain to the same commodity and geological setup (i.e. migmatites) and have not shown encouraging results and hence the agency is advised to focus on any one single item (except proposal listed at 81.3.14) where NGCM values exceed 1500 ppm for further exploration and decision on other blocks may be taken up based on the outcomes.**

**Agenda 81.3.19. Reconnaissance Survey (G4) for Critical minerals in Ranmangli block, Kuhi taluka, Nagpur District, Maharashtra**

**[Implementing Agency: Bhushilp Mines and Minerals Private Limited.]**

- a. The proposed block falls in Survey of India Toposheet 55P/05.
- b. The block was presented earlier and the agency was advised to modify it by excluding the area overlapping with GSI's block. The block has since been revised accordingly.
- c. DGM Maharashtra and GSI informed that the revised area has no overlapping with their projects.

  
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- d. The committee reviewed the proposal and observed that the proposed area is predominantly composed of gneisses, with limited greenstone occurrences, which are generally more favourable for mineralization.
- e. The committee also opined that the NGCM values for Co, Pb, Zn, Cu, and Ni are not encouraging.
- f. The agency is advised to consult all available baseline data, including NAGMP data, conduct a field check, and present supporting geochemical values.
- g. The item is not recommended for DPR at this stage

**Recommendations of TCC-1:**

***The committee did not approve the proposal.***

**Agenda 81.3.20. Preliminary Exploration (G3 Stage) for Bauxite and Associated Critical Minerals around Jharkarwadi Block, Sindhudurg District, Maharashtra  
[Implementing Agency: Bhushilp Mines and Minerals Private Limited.]**

- a. The proposed block falls in Survey of India Toposheet 44H/07.
- b. The block falls within the GSI's G4 block explored during the Field Seasons 2022–23 and 2023–24. The proposal is an upgradation of GSI's G4 block.
- c. GSI in their comments stated that from the proposed area, 6 BRS samples show  $\text{Al}_2\text{O}_3$  values from 40 to 51%. The samples show  $\text{SiO}_2$  value varying from 1.26 to 6.36%, Ga from 38 to 73ppm, V from 404 to 959ppm. 2 PT samples showed  $\text{Al}_2\text{O}_3$  values ranging from 48.72 to 51.69%,  $\text{Fe}_2\text{O}_3$  from 12.18 to 17.86%, Ga from 62 to 67 ppm and V from 230 to 439ppm.
- d. The agency presented the data of previous work and the committee observed that LOI content is unusually high and requires verification through analysis at a NABL-accredited laboratory.
- e. The agency is advised to conduct a ground assessment to evaluate forest cover, settlements, and other cultural or environmental features that may impact mining activities, and to collect a few representative samples for analysis.
- f. The item is recommended for submission of a Detailed Project Report (DPR).
- g. Comments from the Directorate of Mining and Geology (DMG) are awaited.

**Recommendations of TCC-1:**

***The committee approved the proposal in principle and advised the agency to undertake a field visit, collect samples for analysis, and present the Detailed Project Report (DPR) in the forthcoming TCC meeting.***

**Agenda 81.3.21. Preliminary Exploration (G3 Stage) for Bauxite and Associated Critical Minerals Around North of Pendhri Block, Sindhudurg District, Maharashtra**

**[Implementing Agency: Bhushilp Mines and Minerals Private Limited]**

- a. The proposed block falls in Survey of India Toposheet 44H/11.
- b. The block falls within the GSI's G4 block explored during the Field Seasons 2022–23 and 2023–24. The proposal is an upgradation of GSI's G4 block.
- c. GSI in their comments stated that from the proposed area, 8 BRS samples show  $\text{Al}_2\text{O}_3$  values from 27.07 to 54.65%. The samples show  $\text{SiO}_2$  value varying from 2.57 to 7.78%, Ga from 51 to 77ppm, V from 479 to 900 ppm. 10 PT samples showed  $\text{Al}_2\text{O}_3$  values ranging from 32.55 to 37.93%,  $\text{Fe}_2\text{O}_3$  from 33.14 to 41.15%, Ga from 0 to 63 ppm and V from 687 ppm to 903ppm.

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- d. The agency presented the data of previous work and the committee observed that LOI content is unusually high and requires verification through analysis at a NABL-accredited laboratory.
- e. The agency is advised to conduct a ground assessment to evaluate forest cover, settlements, and other cultural or environmental features that may impact mining activities, and to collect a few representative samples for analysis.
- f. The item is recommended for submission of a Detailed Project Report (DPR).
- g. Comments from the Directorate of Mining and Geology (DMG) are awaited.

**Recommendations of TCC-1:**

***The committee approved the proposal in principle and advised the agency to undertake a field visit, collect samples for analysis, and present the Detailed Project Report (DPR) in the forthcoming TCC meeting.***

**Agenda 81.3.22. Preliminary Exploration (G3 Stage) for Bauxite and Associated Critical Minerals Around Somlewadi Block, Sindhudurg District, Maharashtra  
[Implementing Agency: Bhushilp Mines and Minerals Private Limited]**

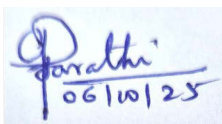
- a. The proposed block falls in Survey of India Toposheet 44H/11.
- b. The block falls within the GSI's G4 block explored during the Field Seasons 2022–23 and 2023–24. The proposal is an upgradation of GSI's G4 block.
- c. GSI in their comments stated that from the proposed area, 12 BRS samples show Al<sub>2</sub>O<sub>3</sub> values from 32 to 54.97%. The samples show SiO<sub>2</sub> value varies from 1.19 to 8.87%. Ga 56 to 83 ppm and V 215 to 919 ppm.
- d. The agency presented the data of previous work and the committee observed that LOI content is unusually high and requires verification through analysis at a NABL-accredited laboratory.
- e. The agency is advised to conduct a ground assessment to evaluate forest cover, settlements, and other cultural or environmental features that may impact mining activities, and to collect a few representative samples for analysis.
- f. The item is recommended for submission of a Detailed Project Report (DPR).
- g. Comments from the Directorate of Mining and Geology (DMG) are awaited.

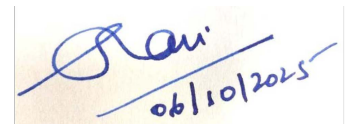
**Recommendations of TCC-1:**

***The committee approved the proposal in principle and advised the agency to undertake a field visit, collect samples for analysis, and present the Detailed Project Report (DPR) in the forthcoming TCC meeting.***

**Agenda 81.3.23. Reconnaissance Survey (G4) for Gold Prospect in Sasvihalli Block, Davangere District, Karnataka  
[Implementing Agency: Geovale Services Pvt. Ltd.]**

- a. The proposed block falls in Survey of India Toposheet 57B/01 and 57B/02 and is an integral part of the Chitradurga schist belt.
- b. GSI in their comment stated that there is a minor overlap with ongoing exploration item for Cu commodity.
- c. The committee reviewed the proposal and opined that as the agency has already been allotted the adjacent Kanivehalli Block, it is advised to collect samples from the current area and identify potential rock types to assess its suitability for further exploration.

  
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**Recommendations of TCC-1:**

***The committee deferred the proposal.***

**Agenda 81.3.24. Preliminary Exploration (G3) for Graphite and associated Minerals in Tandipur Block, Raygada District, Odisha**

**[Implementing Agency: Earthenviro Lab Private Ltd.]**

- a. The proposed area falls in parts of Survey of India TS Nos. 65M/7 and forms a part of Eastern Ghats Super Group of rocks of Archaean age comprising litho units like khondalite suite of rocks, charnockite, quartzo-feldspathic gneiss and pegmatite overlain by recent soil and alluvium.
- b. GSI in comments stated that the .kml file and coordinate in proposal is not matching, hence overlapping could not be confirmed. The .kml file provided by agency falls within GSI's G4 explored block.
- c. The proposal is upgradation of G4 level exploration of DGM Odisha. Total 7 Graphitic bodies have been explored in the area out of which one is in Tandipur Block. The FC content, in the samples collected by DGM, varies from 2.67 to 22.11%.
- d. The agency has also visited the area and identified 1 graphitic band of 10-15 m width in the proposed area. Two samples collected by agency from proposed block have yielded 7.1-7.5 % FC content.
- e. The committee recommended submission of DPR, however, the coordinates need to be revalidated with GSI, and a ground assessment should be conducted to evaluate factors such as forest cover, local issues, and cultural features that may impact exploration.

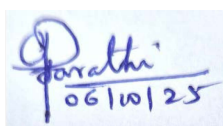
**Recommendations of TCC-1:**

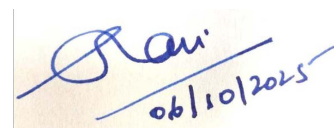
***The committee approved the proposal in principle and advised the agency to undertake a field visit, to evaluate factors such as forest cover, local issues, and cultural features that may impact exploration, and present the Detailed Project Report (DPR) in the forthcoming TCC meeting.***

**Agenda 81.3.25. Preliminary Exploration (G3) for Graphite in Anchalbadi Block, Raygada District, Odisha**

**[Implementing Agency: Earthenviro Lab Private Ltd.]**

- a. The proposed area falls in parts of Survey of India TS Nos. 65M/7 and forms a part of Eastern Ghats Super Group of rocks of Archaean age comprising litho units like khondalite suite of rocks, charnockite, quartzo-feldspathic gneiss and pegmatite overlain by recent soil and alluvium.
- b. GSI in comments stated that the .kml file and coordinate in proposal is not matching, hence overlapping could not be confirmed. The .kml file provided by agency falls within GSI's G4 explored block.
- c. The proposal is upgradation of G4 level exploration of DGM Odisha. Total 7 Graphitic bodies have been explored in the area out of which two is in Anchalbadi Block. The FC content, in the samples collected by DGM, varies from 2.67 to 22.11%.
- d. The agency has also visited the area and identified 2 graphitic bands of in the proposed area. Two samples collected by agency from proposed block have yielded 2.31-7.24 % FC content.
- e. The committee recommended submission of DPR, however, the coordinates need to be revalidated with GSI, and a ground assessment should be conducted to evaluate

  
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factors such as forest cover, local issues, and cultural features that may impact exploration

**Recommendations of TCC-1:**

***The committee approved the proposal in principle and advised the agency to undertake a field visit, to evaluate factors such as forest cover, local issues, and cultural features that may impact exploration, and present the Detailed Project Report (DPR) in the forthcoming TCC meeting.***

**Note: The committee approved the proposals at serial no. 81.3.24 and 81.3.25. However, the agency is advised to submit the DPR as a single item titled: 'Preliminary Exploration for Graphite in Anchalbadi and Tandipur Blocks, Rayagada District, Odisha**

**Agenda 81.3.26. Reconnaissance Survey (G4) for REE in Bandhpari area, Kalahandi District, Odisha**

**[Implementing Agency: Eartnenviro Lab Private Ltd.]**

- a. The proposed area falls in parts of Survey of India TS Nos. 65M/5 and forms a part of Eastern Ghats Super Group of rocks of Archaean age comprising litho units like khondalite suite of rocks, charnockite, quartzo-feldspathic gneiss and pegmatite.
- b. AMD stated in their comment that the area lacks potential for REE exploration.
- c. GSI also informed in their comment that the proposed area is overlapping with an Exploration License block submitted by GSI.
- d. The committee did not approve the proposal.

**Recommendations of TCC-1:**

***The committee did not approve the proposal.***

**Agenda 81.3.27. Reconnaissance Survey (G4) for Manganese and Graphite in Banipali area, Bolangir District, Odisha**

**[Implementing Agency: Eartnenviro Lab Private Ltd.]**

- a. The proposed area falls in parts of Survey of India TS Nos. 64P/5 and exposes the rocks of Pre-Cambrian age belonging to the meta-sedimentary sequence represented by Khondalite Suite, Migmatized granite, and Anorthosite intrusive.
- b. GSI informed that the block has already been explored, and two G2 blocks have been handed over to the State Government for auction.
- c. The committee did not approve the proposal.

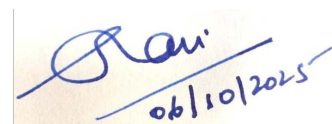
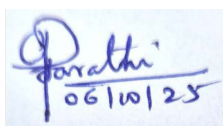
**Recommendations of TCC-1:**

***The committee did not approve the proposal.***

**Agenda 81.3.28. Reconnaissance Survey (G4) for REE and associated Minerals in Mangalampetta area, Chittoor District, Andhra Pradesh**

**[Implementing Agency: Eartnenviro Lab Private Ltd.]**

- a. The proposed area falls in parts of Survey of India TS Nos. 57O/2 and Biotite Gneiss and Migmatite Gneiss are the principal lithology in the area.
- b. GSI has commented that no exploration work has been carried out in the proposed area. GSI also informed that the TREE (Total Rare Earth Elements) concentrations in proposed area is ranging from 217 to 1611 ppm, as reported in geochemical stream sediment samples. The values of Ni, Co, PGE and any other mineral/commodity in NGCM for the proposed area are not encouraging.





- c. The committee reviewed the proposal and observed that the displayed NGCM values for REEs and Neodymium (Nd) are not encouraging. The agency is advised to visit the area, study the potential lithology, and carry out limited sampling and analysis to better assess the prospectivity. It is also noted that the host rock is also not favouring any REE mineralization.
- d. The committee advised that The agency may seek in-principle approval if the analysis results are found to be encouraging.

**Recommendations of TCC-1:**

***The committee deferred the proposal and advised the agency to carry out limited sampling and analysis to better assess the prospectivity and may seek in-principle approval again, if the analytical values are found to be encouraging.***

**Agenda 81.3.29. Reconnaissance Survey (G4) for REE and associated Minerals in Hatamuniguda area, Rayagada District, Odisha  
[Implementing Agency: Eartnenviro Lab Private Ltd.]**

- a. The proposed area falls in parts of Survey of India TS Nos. 57O/2.
- b. The area constitutes a part of Eastern Ghat Super Group of rocks comprising of khondalite, pyroxene granulites, charnockite, granite gneiss and vein quartz. The Migmatite and khondalite Group constitutes of quartz-garnet-sillimanite-graphite-schist, granite gneiss and Charnockite.
- c. GSI in comments stated that the .kml file and coordinate in proposal is not matching, hence overlapping could not be confirmed. The .kml file provided by agency overlaps (~50%) with GSI's G4 explored block.
- d. AMD and MECL does not have any overlap with the proposed area.
- e. DMG Odisha informed that about 2/3<sup>rd</sup> of proposed area is already covered. North, East and Northwest part of the proposed area is already explored and identified with Beryl bearing pegmatites one of which is gem quality that too has been mined out.
- f. The committee reviewed the proposal and observed that the values displayed by the agency are not encouraging for exploration. Only 3 SS samples are showing TREE content above 1000 ppm and only one of them have value over 2000 ppm.
- g. The committee did not approve the proposal.

**Recommendations of TCC-1:**

***The committee did not approve the proposal.***

**Agenda 81.3.30. Reconnaissance Survey (G4) for REE and associated minerals in Bhursipali area, Sambalpur District, Odisha  
[Implementing Agency: Eartnenviro Lab Private Ltd.]**

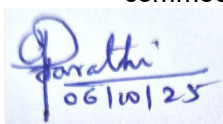
- a. The agency did not present the proposal.

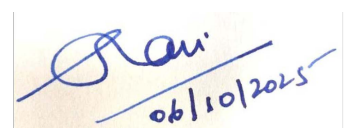
**Recommendations of TCC-1:**

***The proposal could not be reviewed as the agency did not present the proposal.***

**Agenda 81.3.31. Reconnaissance Survey (G4) for REE and associated minerals in Kuravpalli area, Annamayya District, Andhra Pradesh  
[Implementing Agency: Eartnenviro Lab Private Ltd.]**

- a. The proposed area falls in parts of Survey of India TS Nos. 57K/14. The lithounits exposed in the area comprises of Grey Biotite Gneiss, Migmatite Gneiss and Grey granite gneiss.
- b. The area is completely overlapping with G4 level explored block of GSI for same commodity, i.e., REE.

  
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- c. The committee did not approve the proposal.

**Recommendations of TCC-1:**

***The committee did not approve the proposal.***

**Agenda 81.3.32. Reconnaissance Survey (G4) for REE and associated minerals in Banigaon area, Kalahandi District, Odisha**

**[Implementing Agency: Eartnenviro Lab Private Ltd.]**

- The proposed area falls in parts of Survey of India TS Nos. 65M/6 and forms a part of Eastern Ghats Super Group of rocks of Archaean age comprising litho units like khondalite suite of rocks, charnockite, quartzo-feldspathic gneiss and pegmatite.
- GSI in their comment stated that the area is overlapping with already explored G4 block. It is also stated that part of the proposed area is also overlapping with auctionable block submitted to state DMG by GSI.
- The committee, however, observed, that GSI has not detailed about the commodity for which G4 exploration has been completed.
- Comments from AMD and state DMG is also sought.
- The committee suggested that the proposal is to be reviewed again after obtaining clarity from GSI regarding the year of exploration and the commodity associated with the auctionable block.

**Recommendations of TCC-1:**

***The committee deferred the proposal and suggested that the proposal is to be reviewed again after obtaining clarity from GSI regarding the year of exploration and the commodity associated with the auctionable block.***

**Agenda 81.3.33. Preliminary Exploration (G3) of Graphite and associated minerals in Ranikata Block, Kalahandi District, Odisha**

**[Implementing Agency: Eartnenviro Lab Private Ltd.]**

- The proposed area falls in parts of Survey of India TS Nos. 65M/1.
- GSI in their comment stated that the part of the proposed area is overlapping with already explored G3 block and the remaining part of proposed block does not have potentiality for Graphite as concluded in their G4 work.

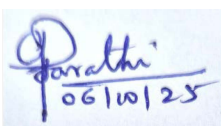
**Recommendations of TCC-1:**

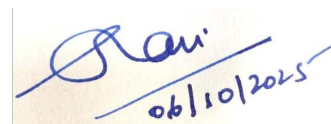
***The committee did not approve the proposal.***

**Agenda 81.3.34. Reconnaissance Survey (G4) for Zirconium, RM/REE and associated mineralization in Kerakona-Manjhatoli area, Jashpur District, Chhattisgarh**

**[Implementing Agency: Gems Project Pvt. Ltd.]**

- The proposed area falls in parts of Survey of India TS Nos. 65M/1.
- MECL has informed that the proposed block partially overlaps with a block they have already submitted to the Directorate of Geology and Mining (DGM), Chhattisgarh, and consent is currently awaited. Meanwhile, Gems Project Pvt. Ltd. has also indicated that they submitted a proposal for the same area in August.
- As this is an administrative matter, comments were sought from DGM, Chhattisgarh.
- DGM, Chhattisgarh has conveyed that the Jashpur area is presently not conducive to any geological activities due to local issues. As a result, some previously approved projects have already been surrendered.

  
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- e. Considering the current situation, the committee decided to keep the all the proposals of Jashpur area in abeyance for one to two months to avoid any potential conflict or disruption.

**Recommendations of TCC-1:**

***The committee deferred the proposal and decided to keep the all the proposals of Jashpur area in abeyance for one to two months to avoid any potential conflict or disruption.***

**Agenda 81.4: Review of Ongoing Projects/ Completed Project & Timeline Extension**

**Agenda 81.4.1. Preliminary Exploration (G3, Phase-I) for Ni, Co, PGE and associated minerals in J.C. Pura Mafic-Ultramafic Schist Belt near Rampura and Gollarahatti Block, Hassan District, Karnataka (Block area: 2 sq. km.)**

**[Implementing Agency: GeoExpOre]**

- GeoExpore 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 17<sup>th</sup> April, 2023 with timeline of 10 months (up to 16.02.2024) and approved cost was INR 82,87,108/-. Timeline extension was given upto 31.05.2024 during 35<sup>th</sup> EC meeting.
- The agency apprised that they have requested for surrender of project during 64<sup>th</sup> TCC meeting, but EC during its 35<sup>th</sup> meeting suggested that another attempt can be made to start exploration by sorting out the issue with local people after elections.
- The agency apprised the committee that it is unable to execute the project due to persistent local issues, despite multiple consultative meetings with various authorities, including the Panchayat, Tehsil, and District administration.
- The committee advised the agency to submit a detailed note to NMEDT outlining all efforts made to execute the project and to seek permission for surrendering the block.
- DMG, Karnataka should be appraised of the situation and submit a written statement on the issue.
- A revised cost sheet should also be submitted.

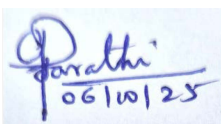
**Recommendations of TCC-1:**

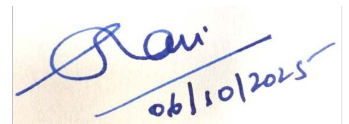
***The committee suggested the agency to submit a detailed formal note to NMEDT outlining all efforts made to execute the project and seek permission for surrender of project. Revised cost sheet may be submitted in upcoming TCC meeting.***

**Agenda 81.4.2. Preliminary Exploration (G3) for Iron Ore in Khandadhar Sub Block - E (8.797 sq.km), Sundargarh District, Odisha.**

**[Implementing Agency: OMC]**

- OMC informed that the project was approved in the 32nd EC Meeting held on 6<sup>th</sup> December, 2023. The sanction order was issued on 12<sup>th</sup> December, 2023 with timeline of 12 months (upto 11.12.2024) and approved cost was INR 7,99,38,943/-.
- Time line extension for the project upto 30<sup>th</sup> June, 2025 was recommended by 75th TCC-I meeting for pursuing the matter with Forest department for Forest Clearance (FC) was recommended.
- During 79<sup>th</sup> TCC-I meeting, the committee accorded duration of 3 months for obtaining the forest clearance.
- The agency informed that FC has not been updated yet.
- OMC informed the committee that they plan to apply directly to the DCF as per the new guidelines and are confident of obtaining Forest Clearance (FC) promptly.

  
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- f. The committee accepted the request and granted a timeline extension up to 30<sup>th</sup> November 2025, subject to condition that OMC submit the Forest Clearance (FC) application within a week and shares a copy with NMEDT for record.

**Recommendations of TCC-1:**

***The committee recommended timeline extension upto 30<sup>th</sup> November, 2025 and instructed the agency to submit the Forest Clearance (FC) application within a week and shares a copy with NMEDT for record.***

**Agenda 81.4.3. Khandadhar Sub Block - A (4.03 sq.km), Sundargarh District, Odisha.**

**[Implementing Agency: OMC]**

- OMC informed that the project was approved in 11<sup>th</sup> TCC meeting held on 7<sup>th</sup> February, 2019. The sanction order was issued on 12<sup>th</sup> February, 2019 with timeline of 14 months (11.04.2020) and approved cost was INR 4,13,81,000/-.
- During 79<sup>th</sup> TCC-I meeting, the committee accorded time upto 30.09.2025 for obtaining the forest clearance.
- The agency informed that FC has not been updated yet.
- OMC informed the committee that they plan to apply directly to the DCF as per the new guidelines and are confident of obtaining Forest Clearance (FC) promptly.
- The committee accepted the request and granted a timeline extension up to 30<sup>th</sup> November 2025, subject to condition that OMC submit the Forest Clearance (FC) application within a week and shares a copy with NMEDT for record.

**Recommendations of TCC-1:**

***The committee recommended timeline extension upto 30<sup>th</sup> November, 2025 and instructed the agency to submit the Forest Clearance (FC) application within a week and shares a copy with NMEDT for record.***

**Agenda 81.4.4. Khandadhar Sub Block - C (2.93 sq.km), Sundargarh District, Odisha.**

**[Implementing Agency: OMC]**

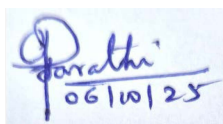
- OMC informed that the project was approved in 10<sup>th</sup> TCC meeting held on 30<sup>th</sup> October, 2018. The sanction order was issued on 31<sup>st</sup> October, 2018 with timeline of 14 months (30.12.2019) and approved cost was INR 2,56,06,415/-.
- During 79<sup>th</sup> TCC-I meeting, the committee accorded time upto 30.09.2025 for obtaining the forest clearance.
- The agency informed that FC has not been updated yet.
- OMC informed the committee that they plan to apply directly to the DCF as per the new guidelines and are confident of obtaining Forest Clearance (FC) promptly.
- The committee accepted the request and granted a timeline extension up to 30<sup>th</sup> November 2025, subject to condition that OMC submit the Forest Clearance (FC) application within a week and shares a copy with NMEDT for record.

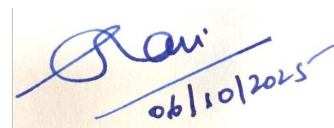
**Recommendations of TCC-1:**

***The committee recommended timeline extension upto 30<sup>th</sup> November, 2025 and instructed the agency to submit the Forest Clearance (FC) application within a week and shares a copy with NMEDT for record.***

**Agenda 81.4.5. Reconnaissance Survey (G4) for Graphite in and around Khairmal area (83.34 Sq. Km), Bolangir, District, Odisha.**

**[Implementing Agency: OMC]**

  
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- a. The OMC informed that the project was approved in the 37th EC Meeting held on 23th September, 2024. The sanction order was issued on 23rd October, 2024 with timeline of 10 months (up to 22.08.2025) and approved cost was INR 85,26,720/-.
- b. The agency informed that LSM on 1:12,500 scale has been completed and 10 samples of bedrock collected for analysis.
- c. The agency apprised the committee that other components of quantum could not be executed due to local issue/agitation.
- d. The mapping and limited channel sampling indicates four zones of graphite.
- e. The committee reviewed the progress and noted that there has been minimal advancement since the last review.
- f. The agency sought timeline extension for completion of project.
- g. The committee approved timeline up to 31<sup>st</sup> December, 2025 and suggested the agency to deploy proper manpower and accomplish all the assigned target and come for review of GR.

**Recommendations of TCC-1:**

***The committee recommended timeline extension of 4.5 months upto 31.12.2025 for approval of EC, NMEDT for completion of project.***

**Agenda 81.4.6. Reconnaissance survey (G4) for Graphite in Dhourakhman area (60.0 Sq. Km), District: Bolangir, Odisha.**

**[Implementing Agency: OMC]**

- a. The OMC informed that the project was approved in the 38th EC Meeting held on 29th November, 2024. The sanction order was issued on 13<sup>th</sup> December, 2024 with timeline of 10 months (up to 12.10.2025) and approved cost was INR 89,11,129/-.
- b. The agency presented the progress of work. Only 40 sq. km of Geological Mapping, on 1:12,500 scale, out of assigned target of 60 sq.km. has been completed with collection of few bedrock (BRS) samples.
- c. The agency apprised the committee that the work could not be completed due to local resistance/agitation.
- d. The committee reviewed the progress and noted that there has been minimal advancement in the project.
- e. The agency sought timeline extension for completion of project.
- f. Upon review the committee observed that the uncovered area lies in the reserved forests and found with no settlements for local agitations.
- g. The committee approved timeline up to 31<sup>st</sup> December, 2025 and suggested the agency to deploy proper manpower and accomplish all the assigned target and come for review of GR.

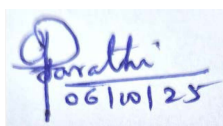
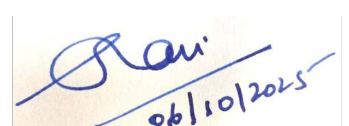
**Recommendations of TCC-1:**

***The committee approved timeline extension of 2.5 months upto 31.12.2025 for completion of project.***

**Agenda 81.4.7. Reconnaissance Exploration for Manganese around the Kandhal area of Rairakhol Tehsil, Sambalpur District, Odisha.**

**[Implementing Agency: DMG Odisha]**

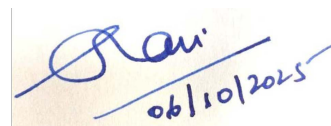
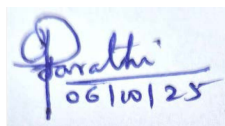
- a. DMG, Odisha informed that the project was approved in the 38th EC Meeting held on 29th November, 2024. The sanction order was issued on 13<sup>th</sup> December, 2024 with timeline of 10 months (up to 12.10.2025) and approved cost was INR 73,94,658/-.

- b. The agency informed that LSM on 1:12,500 scale has been completed for assigned target of 50 sq.km. Pitting, trenching of assigned 40 cu.m. each has also been completed. The drilling could not be initiated due to accessibility issue in the Forest area.
- c. The agency has brought GR for review.
- d. Three discontinuous in-situ manganese bodies have been delineated within migmatized khondalite. These mineralised bodies are structurally controlled.
- e. The manganese ore mineralization in the study area is primarily observed as: banded, lenticular bodies and boulder outcrops.
- f. The analysed samples have yielded maximum of 48% MnO.
- g. The agency sought timeline extension for submission of GR.
- h. The committee reviewed the item and agreed for submission of GR for peer review. Peer reviewer compliance will be discussed in Nov.2025 TCC-1 review. Timeline extension upto 15.12.2025 is approved for submission of final GR.
- i. The committee also advised the agency to present revised cost sheet. The revised cost sheet was evaluated.

**Recommendations of TCC-1:**

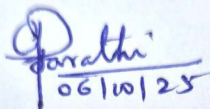
***The committee approved timeline extension of 2 months upto 15.12.2025 for completion of project. The item is recommended to EC for ratification of cost from Rs. 74.11 lakh to Rs. 30.08 lakh with a change in amount of (-) Rs 44.08 lakhs (~59.41 % de-escalation) as per Annexure 10.***



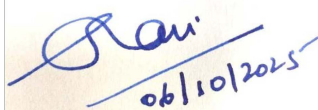
## Annexure 10

## Estimated Cost for Reconnaissance (G-4) for Manganese around Kandhal area of Rairakhol Taehsil of Sambalpur District, Odisha

Sl. No.	Item of Work	Unit	Approved Cost				Revised Cost			Remarks
			SoC item Sl. No.	Rate as per SoC (in Rs)	Quantum of Work	Total Amount (Rs.)	Rate as per SoC (in Rs)	Quantum of Work	Total Amount (Rs.)	
1	GEOLOGICAL WORK									
i)	Charges for One Geologist - Field	per day	1.3	11,000	140	1540000.00	11,000	100	1100000.00	
ii)	Charges for One Geologist - HQ	per day	1.3	9,000	30	270000.00	9,000	30	270000.00	
iii)	Labours (2 Nos.) Base rate- As per rates of state labour commission	per day	5.7	522	280	146160.00	522	200	104400.00	
iv)	Channel sample 52 m (7 channels)	per day	5.7	522	26	13572.00	522	26	13572.00	
v)	Charges for one Sampler	per day	1.5.2	5,100	17	86700.00	5,100	12	61200.00	
vi)	Labours (4 Nos.) Base rate- As per rates of state labour commission Rs.	day	5.7	522	68	35496.00	522	48	25056.00	(Amount will be reimbursed as per notified rates by central labour Commission rates or respective State



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										Govt. Whichever is higher)
<b>Sub Total- A</b>						<b>2091928.00</b>			<b>1574228.00</b>	
<b>2</b>	<b>Survey (Outsourcing)</b>									
i)	Survey Party days (One Surveyor Charges)	day	1.6.1a	8,300	0	0	8,300	0	0	
ii)	Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes by DGPS	Per Point of observation	1.6.2	19,200	4	76800	19,200	0	0	
iii)	Labours (4 Nos) Base Rate- As per rates of state labour commission Rs. 450*4=1800/-	day	5.7	1,800	0	0	1,800	0	0	
<b>Sub Total- B</b>						<b>76800.00</b>			<b>0</b>	
<b>3</b>	<b>DRILLING (Outsourcing)</b>									
i)	Core Drilling	per m	2.2.1.4	11,500	200	2300000	11,500	0	0	
ii)	Construction of concrete pillar(12"x12"x30")	Per Bore hole	2.2.7a	2,000	0	0	2,000	0	0	
iii)	Monthly Accommodation charges for drilling camp (up to 2 rigs)	Per Month	2.2.9	50,000	0	0	50,000	0	0	
iv)	Camp setting	Per drill	2.2.9a	250,000	0	0	250,000	0	0	
v)	Camp winding	Per drill	2.2.9b	250,000	0	0	250,000	0	0	
vi)	Approach road making	Per km	2.2.10b	32,200	0	0	32,200	0	0	

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v)	Drill core preservation	Per m	5.3	1,590	80	127200	1,590	0	0	
	<b>Sub Total- C</b>					<b>2427200.00</b>			<b>0</b>	
<b>4</b>	<b>PITTING</b>									
i)	Pitting	Cu.m	2.1.2	3,800	40	152000.00	3,800	40	152000.00	
ii)	Trenching	Cu.m	2.1.1	3,330	40	133200.00	3,330	40	133200.00	
	<b>Sub Total-D</b>					<b>285200.00</b>			<b>285200.00</b>	
<b>5</b>	<b>LABORATORY STUDIES</b>									
<b>1</b>	<b>Chemical Analysis</b>									
i)	XRF analysis of major oxide for 5 radicals (MnO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> , Fe <sub>2</sub> O <sub>3</sub> , and LOI)	Per Sample	4.1.15a	4,200	125	525000.00	4,200	86	361200.00	
ii)	Check samples Internal for 5 radicals (MnO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> , Fe <sub>2</sub> O <sub>3</sub> , and LOI)	Per Sample	4.1.15a	4,200	13	54600.00	4,200	8	33600.00	
<b>2</b>	<b>Physical Analysis</b>									
i)	X-RD Studies	Per Sample	4.5.1	4,000	5	20000.00	4,000	5	20000.00	
ii)	Preparation of thin section	Per Sample	4.3.1	2,353	10	23530.00	2,353	10	23530.00	
iii)	Petrographic studies	Per Sample	4.3.4	4,232	10	42320.00	4,232	10	42320.00	
iv)	Preparation of polished section	Per Sample	4.3.2	1,549	5	7745.00	1,549	5	7745.00	
v)	Bulk density	Per Sample	4.1	3,540	2	7080.00	3,540	2	7080.00	
	<b>Sub Total-E</b>					<b>680275.00</b>			<b>495475.00</b>	

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<b>Total A+B+C+D+E</b>						<b>5561403.00</b>			<b>2354903.00</b>	
	Total Outsourced cost					2504000.00			<b>0.00</b>	
F	Tender Preparation, publishing & finalisation	One time	2.3			50080.00			<b>0.00</b>	
G	Operational Charge		6.0	i		250400.00			<b>0.00</b>	
H	Geological Report Preparation	One no.(5 hard copies,) along with soft copy	5.2			278070.15			<b>117745.15</b>	
I	Peer Review		As per EC decision			30000.00			30000.00	
J	Proposal preparation		5.1			111228.06			47098.06	
	Sub Total (F + G + H +I)					719778.21			194843.21	
	TOTAL (A+B+C+D+E+ F + G + H +I+J)					6281181.21			2549746.21	
	GST (18%)					<b>1130612.62</b>			<b>458954.32</b>	
<b>TOTAL AMOUNT</b>						<b>7411793.83</b>			<b>3008700.53</b>	De- escalation amount is Rs. 4403093.3
						<b>Rs. 74.11 Lakhs</b>			<b>Rs. 30.08 Lakhs</b>	De- escalation amount: Rs. 44.03 Lakhs (~ - 59.41%)
<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.									

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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

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**Agenda 81.4.8. Preliminary Exploration (G3) for Copper and Associated minerals in Govindpur Block, Chandrapur district, Maharashtra.**

**[Implementing Agency: Kartikay Exploration and Mining Services Pvt. Ltd.]**

- a. The agency informed that the project was approved in the 36<sup>th</sup> EC Meeting held on 29<sup>th</sup> July, 2024. The sanction order was issued on 21<sup>st</sup> August, 2024 with timeline of 8 months (up to 20.04.2025) and approved cost was INR 1,26,07,813/-. Timeline extension upto 20.07.2025 was approved in 76<sup>th</sup> TCC-I meeting. Timeline extension upto 31.10.2025 was also recommended for approval of EC during 80<sup>th</sup> meeting of TCC-I.
- b. The agency informed that peer reviewer has been allotted for the review of GR.
- c. The agency also apprised the committee that One borehole was drilled to check the geophysical anomaly but no ore zones demarcated.
- d. The committee suggested the agency to come for review after compliance of peer reviewer's comments. The committee also suggested the agency that the report has to be concluded with appropriate suggestion.
- e. The agency was instructed to submit a revised cost sheet during the review of the Geological Report (GR).

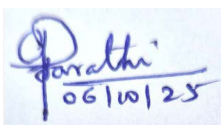
**Recommendations of TCC-1:**

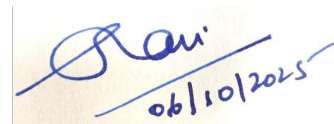
***The committee suggested the agency to come for review after compliance of peer reviewer's comments along with revised cost sheet in upcoming TCC.***

**Agenda 81.4.9. Deepseated mineral prognosis by geophysical techniques: Lithospheric structure and relationship with Kimberlite clusters of Kalyandurg-Timmasamudram-Chigicherla, Anantapur district, Andhra Pradesh.**

**[Implementing Agency: GSI and CSIR-NGRI]**

- a. The agency informed that the project was approved in the 25<sup>th</sup> EC Meeting held on 29<sup>th</sup> June, 2022. The sanction order was issued on 17<sup>th</sup> February, 2023 with timeline of 24 months and approved cost was INR 2,59,97,784/-.
- b. GSI and CSIR-NGRI presented the progress of work. While MT Survey has been carried out by CSIR-NGRI, the Gravity-Magnetic survey of the area was completed by has been done by GSI. Geological and Geochemical studies have jointly carried out by GSI and NGRI.
- c. Final report including the geological component is submitted to GSI on 24-09-2025 and the report is under review.
- d. MT surveys (BBMT/LMT) were carried out by NGRI along 03 profile lines and delineated 10 conductive zones along the three profile lines.
- e. The zones-1,2,3 are associated with Closepet Granite and PGC-I; Zone-4 and 5 over Ramagiri schist belt (North), Zone-2 & 3 is in the vicinity of Timmasamudram Kimberlite pipes / delineated deep roots associated with the pipes. Zone-4 & 5 needs further geological work. The zone-6 and 7 are over Ramagiri schist belt (South) and close to old gold mines (abandoned) and based on GM interpretation needs further work. The Zone-8,9,10 are over granite gneiss and Ramagiri schist belt. Based on GM interpretation, Zone-9 and 10 needs further geological follow up work for gold mineralisation point of view.
- f. AMT studies effectively delineated the TK-4 pipe, providing valuable insights into the weathered pipe and the surrounding host rock. The upper crustal vertical conductive features along the KTC profile, clearly mapped beneath the Timmasamudram cluster, may represent magma channels or pathways responsible for the formation of kimberlite pipes in the study region.

  
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- g. The committee reviewed the progress of work and observed that number of kimberlite pipes have been established by the study. The committee suggested that GSI has to follow up the work further with ground evaluation.
- h. The agency sought extension of timeline upto 30.11.2025 for final submission of GR.

**Recommendations of TCC-1:**

***The committee recommended timeline extension upto 30.11.2025 for finalisation and submission of GR for approval of EC.***

**Agenda 81.4.10. Preliminary Exploration (G3) of Bauxite, Titanium and Associated Minerals in Harhapat Bauxite Block, Gumla, Jharkhand.**

**[Implementing Agency: JEMCL]**

- a. The agenda was erroneously included in 81<sup>st</sup> TCC-I agenda. The project is of Jharkhand state and is under the purview of TCC-II.

**Recommendations of TCC-1:**

**The committee advise the agency to submit the project to TCC-2 of NMEDT for review.**

**Agenda 81.4.11. Reconnaissance Survey (G4)) For REE Prospects in Nellikudur Block in Parts of Warangal Rural and Mahabubabad Districts, Telangana.**

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

- a. The agenda was erroneously repeated. The agenda already listed at 81.4.13 with correct title.

**Recommendations of TCC-1:**

***The agenda was inadvertently repeated and hence not been reviewed.***

**Agenda 81.4.12. Preliminary Exploration (G-3 Stage) for aluminous laterite and associated critical minerals in Govindagudde & Sudigudde block, Udupi District, Karnataka.**

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

- a. CMT informed that the project was approved in the 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 7th March, 2025 with timeline of 06 months (up to 06.09.2025) and approved cost was INR 44,24,191/-. Timeline was extended upto 31.10.2025 during 79<sup>th</sup> TCC-I meeting.
- b. The agency informed that the FC permission has not been given yet and so further timeline extension is sought.
- c. The agency was advised to follow up with the Department of Environment and Forests (DoEF) as per the revised guidelines and obtain approval before seeking any further timeline extension.

**Recommendations of TCC-1:**

***The committee instructed the agency to follow up with the Department of Environment and Forests (DoEF) as per the revised guidelines and obtain approval for work. Timeline extension was not approved by committee at this stage.***

**Agenda 81.4.13. Reconnaissance survey (G4) for REE and associated minerals in Nellikudur area Mahabubabad and Warrangal districts, Telangana.**

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

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- a. The agenda was not discussed in 81<sup>st</sup> TCC –I meeting and the agency was suggested to come for review in upcoming TCC meeting.

**Recommendations of TCC-1:**

***The agenda was not discussed in 81st TCC –I meeting and the agency was suggested to come for review in upcoming TCC meeting.***

**Agenda 81.4.14. Preliminary exploration (G3) for Aluminous Laterite and Associated Critical Elements (V, Ga, & REE) in Mundalli Block, Uttara Kannada District, Karnataka.**

**[Implementing Agency: Geomarine Solutions]**

- a. The agenda was not discussed in 81<sup>st</sup> TCC –I meeting and the agency was suggested to come for review in upcoming TCC meeting.

**Recommendations of TCC-1:**

***The agenda was not discussed in 81st TCC –I meeting and the agency was suggested to come for review in upcoming TCC meeting.***

**Agenda 81.4.15. Preliminary Exploration for Limestone in Ponar Block, Adilabad, Telangana**

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

- MMPL informed that the project was approved in the 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 07th March, 2025 with timeline of 08 months (up to 09.10.2025) and approved cost was INR 1,04,08,196/-.
- The agency presented the progress of work and apprised the committee that GR has been prepared and requested for peer review of same.
- The agency apprised the committee that 44.63 MT of resource of Cement (Blendable/beneficiable) grade cement has been estimated.
- Timeline extension was sought by agency for submission of GR.
- The committee reviewed the project and suggested the agency to submit the report for peer review.
- Timeline extension upto 30.11.2025 has been approved.

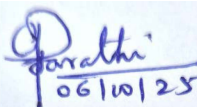
**Recommendations of TCC-1:**

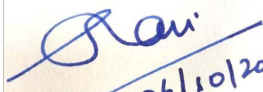
***The committee recommended that GR may be submitted for peer review. Timeline extension upto 30.11.2025 (2 months) is also approved for GR submission.***

**Agenda 81.4.16. Preliminary Exploration for Limestone in Mangrur Block, Adilabad, Telangana**

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

- MMPL informed that the project was approved in the 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 07th March, 2025 with timeline of 08 months (up to 09.10.2025) and approved cost was INR 69,73,540/-.
- The agency presented the progress of work and apprised the committee that GR has been prepared and requested for peer review of same.
- The agency apprised the committee that the resources has been estimated under four categories, namely, blast furnace, cement (P), cement (B) and unclassified.
- 17.47 MT, 35.17 MT, 11.39 MT and 97.14 MT of resource of has been estimated under blast furnace, cement (P), cement (B) and unclassified categories respectively.
- Timeline extension was sought by agency for submission of GR.

  
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- f. The committee reviewed the project and suggested the agency to submit the report for peer review.
- g. Timeline extension upto 30.11.2025 has been approved.

**Recommendations of TCC-1:**

***The committee recommended that GR may be submitted for peer review. Timeline extension upto 30.11.2025 (2 months) is also approved for GR submission.***

**Agenda 81.4.17. Reconnaissance Survey for Graphite in Dumburuneli Area, Rayagada, Odisha.**

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

- a. MMPL informed that the project was approved in the 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 05th March, 2025 with timeline of 10 months (up to 04.01.2026) and approved cost was INR 1,37,69,756/-.
- b. The progress of work was reviewed in 79<sup>th</sup> TCC-I meeting.
- c. The agency apprised the committee that due to standing crops, the local people are asking for compensation and they will allow only after harvesting of crop in December.
- d. The agency sought extension of timeline.
- e. The committee suggested the agency to try to achieve quantum of work first and then come for review in November, 2025. The decision of timeline extension will be taken after reviewing the work in November, 2025.

**Recommendations of TCC-1:**

***The committee did not recommend timeline extension at this stage of work.***

**Agenda 81.4.18. Preliminary Exploration (G-3) for Limestone in Dhunki-Chilai Block, Yavatmal District, Maharashtra.**

**[Implementing Agency: Mineral Exploration and Consultancy Ltd.]**

- a. MECL informed that the project was approved in the 40<sup>th</sup> EC Meeting held on 21<sup>st</sup> February, 2025. The Sanction Order was issued on 5<sup>th</sup> March, 2025 with timeline of 8 months (up to 04.11.2025) and approved cost was INR 97,95,299/-.
- b. The agency sought timeline extension for GR submission.
- c. The committee advised MECL to appraise the committee regarding timeline extension in the forthcoming TCC-1 meeting.

**Recommendations of TCC-1:**

***The committee did not approve timeline extension at this stage.***

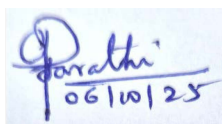
**Agenda 81.4.19. Preliminary Exploration (G-3) for Limestone in Akapur Block (6.52 sq. km), Yavatmal District, Maharashtra.**

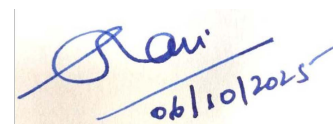
**[Implementing Agency: Mineral Exploration and Consultancy Ltd.]**

- a. MECL informed that the project was approved in the 38<sup>th</sup> EC Meeting held on 29<sup>th</sup> November, 2024. The Sanction Order was issued on 12<sup>th</sup> December, 2024 with timeline of 10 months (up to 11.10.2025) and approved cost was INR 97,21,099/-.
- b. The agency informed the committee that the GR has been prepared and is to be peer reviewed.

**Recommendations of TCC-1:**

***The committee advised the agency to submit the GR for peer review at earliest.***

  
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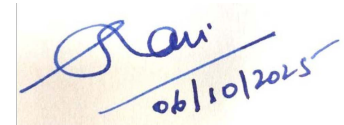
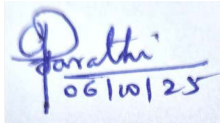
**Agenda 81.4.20. Reconnaissance Survey (G-4) for Manganese Ore in Dhavalapur Block (15.00 sq km), District- Nagpur, Maharashtra.**

**[Implementing Agency: Mineral Exploration and Consultancy Ltd.]**

- a. MECL informed that the project was approved in the 35th EC Meeting held on 16th May, 2024. The Sanction Order was issued on 10th June, 2024 with timeline of 12 months (up to 09.06.2025) and approved cost was INR 2,31,59,625/-. Timeline extension upto 30.09.2025 was recommended to EC during 79th TCC-I meeting.
- b. The agency informed that the GR is peer reviewed and apprised the committee regarding compliance of comments. The agency also informed that the peer reviewer has suggested the change in title as the report has been downgraded and resources has been calculated as per G4 stage survey.
- c. The agency also informed that only geological mapping could be completed with completion of few samples, hence cost sheet needs to be revised.
- d. The committee suggested that GR is to be submitted with proper justification for not able to establish the resource and downgrading of report.
- e. The committee also opined that the title of the project may be retained as approved by NMEDT i.e., "Preliminary Exploration (G-3) for Manganese Ore in Dhavalapur area (15.00 sq km), Nagpur district, Maharashtra".
- f. The revised cost sheet was discussed.

**Recommendations of TCC-1:**

***The committee approved the submission of GR and suggested that the report may be titled as per the title of proposal approved by NMEDT. The item is recommended to EC for ratification of cost from Rs. 231.60 lakh to Rs. 17.63 lakh with a change in amount of (-) Rs 213.97 lakhs (~92.39 % de-escalation) as per Annexure 11.***



**Revised cost sheet for Preliminary Exploration (G3) for Manganese ore in Dhavalapur block, District: Nagpur, Maharashtra.**  
**[Block area- 2.00 sq. km; Schedule timeline- 12 months]**

S. No.	Item of Work	Unit	Rates as per NMEDT SoC 2020-21		Estimated Cost of the Proposal		Revised Cost of the Proposal		Remarks
			SoC-Item -SI No.	Rates as per SoC					
					Qty.	Amount (Rs)	Revised qtm	Revised cost	
A	GEOLOGICAL WORK								
1	Borehole logging, sampling & Report writing								
i	Charges for one Geologist-Field	day	1.2	11,000	150	1,650,000	70	770,000	
ii	Charges for one Geologist per- HQ	day	1.2	9,000	30	270,000	30	270,000	
iii	2 labours/ party (As per rates of Central Labour Commissioner)	day	5.7	522	300	156,600	140	73,080	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
iv	Trench and Core Sampling -1 Samplers Labour charge not included	day	1.5.2	5,100	37	188,700	3	15,300	
v	4 labours/ party for smpling (As per rates of Central Labour Commissioner)	day	5.7	522	148	77,256	12	6,264	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher

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<b>2</b>	<b>Survey (on 1:2000 Scale)</b>								
i	Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes by DGPS and boundary coordinates	Per Point of observation	1.6.2	19,200	24	460,800	-	-	14 BHs and 10 boundary coordinates one base station
ii	Charges of Surveyor	one surveyor per day	1.6.1a	8,300	30	249,000	-	-	
iii	Labours Charges for survey work; Base rate - Rs.504	day	5.7	522	120	62,640	-	-	Amount will be reimburse as per the notified rates for unskilled labor by the Central Labour Commissioner or respective State Govt. whichever is higher
	<b>Sub Total- A</b>					<b>3,114,996</b>		<b>1,134,644</b>	
<b>B</b>	<b>PITTING AND TRENCHING</b>								
i	Trenching (1m x 2mx 10 m) x 7 trenches	Cu m	2.1.1	3330	140	466,200	-	-	
	<b>Sub Total- B</b>					<b>466,200</b>		-	
<b>C</b>	<b>DRILLING</b>								
i	Drilling upto 300m (Hard Rock) (1 rigs )	m	2.2.1.4a	11,500	1,000	11,500,000	-	-	
ii	Borehole deviation Survey	m	2.2.6	330	1,000	330,000	-	-	
iii	Land / Crop Compansation	per BH	5.6	20,000	14	280,000	-	-	Amount will be reimburse as per actuals or max. Rs. 20000 per BH with

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									certification from local authorities
iv	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	14	28,000	-	-	
v	Transportation of Drill Rig & Truck associated per drill	Km	2.2.8	36	300	10,800	-	-	Certification in this regard is required to be provided
vi	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	4	200,000	-	-	
vii	Drilling Camp Setting Cost	Nos	2.2.9a	250,000	1	250,000	-	-	
viii	Drilling Camp Winding up Cost	Nos	2.2.9b	250,000	1	250,000	-	-	
ix	Approach Road Making (Hilly Terrain)	Km	2.2.10b	32,200	5	161,000	-	-	Road Making will be considered as per the requirement and Road Making Charges will be reimbursed later
x	Core Preservation: One complete borehole plus mineralised cores of all the remaining Bhs	m	5.3	1,590	300	477,000	-	-	This amount will be reimbursed after successful delivery of the cores to concerned libraries/authorities
	<b>Sub Total- C</b>					<b>13,486,800</b>		-	
<b>D</b>	<b>LABORATORY STUDIES</b>								
<b>1</b>	<b>Chemical Analysis</b>								
<b>i</b>	<b>Primary &amp; Check samples</b>								
	a. Primary Samples for 6 radical (Mn, SiO <sub>2</sub> , P <sub>2</sub> O <sub>5</sub> ,	Nos	4.1.15a	4,200	270	1,134,000	23	96,600	Trench-70, BH-200

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	Fe2O3, MnO2 and Insolubles )								
	c-External(10%) Check samples from NABL Lab for 6 radical (Mn, SiO2, P2O5, Fe2O3, MnO2 and Insolubles )	Nos	4.1.15a	4,200	27	113,400	-	-	
<b>2</b>	<b>Physical &amp; Petrological Stusies</b>							-	
i	Preparation of thin section	Nos	4.3.1	2,353	10	23,530	5	11,765	
ii	Complete petrographic study report	Nos	4.3.4	4,232	10	42,320	5	21,160	
iii	Preparation of polished section	Nos	4.3.2	1,549	10	15,490	4	6,196	
iv	Complete mineragraphic study report	Nos	4.3.4	4,232	10	42,320	4	16,928	
v	Digital Photographs	Nos	4.3.7	280	10	2,800	3	840	
vi	Bulk density	Nos	4.1	3,540	10	35,400	-	-	
	<b>Sub Total- D</b>					<b>1,409,260</b>		<b>153,489</b>	
<b>E</b>	<b>Total A to D</b>					<b>18,477,256</b>		<b>1,288,133</b>	

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F	Geological Report Preparation		5.2	For the projects having cost exceeding Rs. 150 lakhs but less than Rs. 300 lakhs - A minimum of Rs. 7.5 lakhs or 3% of the value of work whichever is more		750,000		150,000	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMEDT.
G	Peer review Charges		As per EC decision			30,000		30,000	
H	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs.5 Lakhs whichever is lower		369,545		25,763	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.
I	Total Estimated Cost without GST					19,626,801		1,493,896	
J	Provision for GST (18% of I)					3,532,824		268,901	GST will be reimburse as per actual and as per notified prescribed rate

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K	Total Estimated Cost with GST	23,159,625	1,762,797	De- escalation amount is Rs. 21396828/-
	Rs. (in lakhs)	231.60	17.63	De- escalation amount: Rs. 213.97 Lakhs (~ - 92.39%)
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			

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**Agenda 81.4.21. Preliminary Exploration Survey (G3) for Iron-ore in Gidhali-Chiklakasa block, Balod District, Chhattisgarh.**

**[Implementing Agency: Bhushilp Mines and Minerals Pvt. Ltd.]**

- a. The agency informed that the project was approved in the 43<sup>rd</sup> EC Meeting held on 14.08.2025. The Sanction Order was issued on 4<sup>th</sup> September, 2025 with timeline of 12 months (up to 03.09.2026) and approved cost was INR 1,96,09,403/-.
- b. The item was not reviewed as the project is recently approved and the work is yet to commenced.

**Recommendations of TCC-1:**

***The committee did not review the project as the work has not been initiated yet.***

**Agenda 81.4.22. Preliminary Exploration (G-3) For Limestone in Kodangal Block, Vikarabad District, Telangana State.**

**[Implementing Agency: TGMDC]**

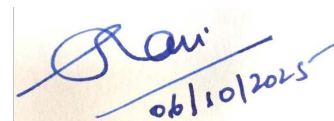
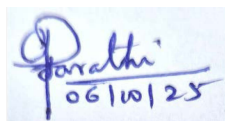
- a. TGMDC informed that the project was approved in the 40<sup>th</sup> EC Meeting held on 21<sup>st</sup> February, 2025. The Sanction Order was issued on 5<sup>th</sup> March, 2025 with timeline of 08 months (up to 04.11.2025) and approved cost was INR 1,61,52,464/-.
- b. TGMDC presented the final report entitled "Preliminary Exploration (G-3 stage) of the Kondangal Limestone Block, Kodangal Mandal, Vikarabad district, Telangana" along with compliances of peer reviewer's comments.
- c. Resources of limestone in Kodangal Block were estimated by considering two cut off levels. i.e Grade-1: CaO>42% and SiO<sub>2</sub><16% and Grade-2: CaO>38% and SiO<sub>2</sub><20%.
- d. Resources are estimated by three methods.
- e. A total of 167.81 mt, 166.65 mt and 169.23 mt of limestone resources are estimated by Surface Volume Method; Section Volume Prismoidal method and Thiessen (Veronov) Polygonal method respectively.
- f. Upon review, the committee suggested TGMDC not to include details of the past blocks explored by RSI in the report.
- g. Further, the committee advised the agency to mention the average grades of SiO<sub>2</sub>, CaO and MgO under each method of resource estimation and also mention which method of estimation is accurate for the block.
- h. The report is approved for final submission.

**Recommendations of TCC-1:**

***The committee approved the final submission of GR.***

**Agenda 81.5: Cost Evaluation of New Projects Proposals**

**Cost evaluation has been done and comments are included in the respective agenda.**



**List of participants attended 81<sup>st</sup> Meeting of Technical-cum-cost Committee (TCC-I) of NMEDT held on 25<sup>th</sup>-26<sup>th</sup> September, 2025, and 29<sup>th</sup> September, 2025 through video conferencing mode**

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45	Representative from DGM Chhattisgarh				
46	Representative from DMG Kerala				
47	Representative from GSI				
48	Representative from MECL				
49	Representative from TGMDC				
50	Representative from OMC				
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