

**Ministry of Mines**  
**National Mineral Exploration & Development Trust**  
**Minutes of 31<sup>st</sup> meeting of Technical-cum-Cost Committee - II (TCC - II)**  
**held on 16<sup>th</sup> and 17<sup>th</sup> June, 2026**

The 31<sup>st</sup> meeting of Technical-cum-Cost Committee-II (TCC-II) of National Mineral Exploration and Development Trust (NMEDT) was convened through video conferencing on 16<sup>th</sup> and 17<sup>th</sup> June 2026. The meeting was chaired by Shri Pradeep Singh, ADG (PSS), GSI and Chairman, TCC-II, NMEDT and Dr. S Ravi, DDG & HOD, GSITI and Chairman, TCC-I, NMEDT.

Members of TCC-II, NMEDT and representatives from M/s MMPL Private Limited, M/s Vardan Environet LLP, FCI Aravali Gypsum and Minerals India Limited (FAGMIL), M/s. United Exploration India Private Limited, M/s Bhushilp Mines and Minerals Private Limited, M/s Geo Marine Solutions Private Limited, M/s. GeoExpOre Private Limited, Central Mine Planning & Design Institute Limited (CMPDIL), M/s Mining Tech Consultancy Services Limited (MTCS), Jharkhand Exploration and Mining Corporation Limited (JEMCL), M/s Engeotech Consultant, Mineral Exploration and Consultancy Limited (MECL), M/s Ocean Drilling and Exploration Private Limited, M/s Midwest Limited, M/s. Gemcokati Exploration Private Limited, M/s GMMCO Technology Services Limited, etc. have attended the meeting through video conferencing mode. The list of participants is at **Annexure-1**.

Shri Pradeep Singh, ADG (PSS), GSI and Chairman, TCC-II, NMEDT warmly welcomed all TCC-II members and every participant representing from State DGMs/DMGs, Notified Exploration Agencies (NEAs) and Notified Private Exploration Agencies (NPEAs). Dr. S. Ravi, DDG & HOD, GSITI and Chairman TCC-I, NMEDT, presided over the meeting on 17<sup>th</sup> June, 2026.

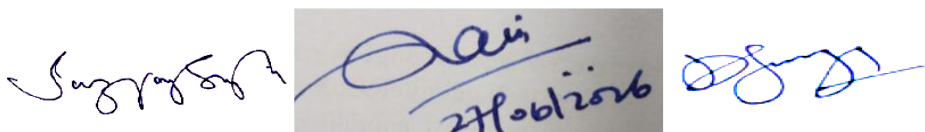
**31.1 Technical Evaluation of New Project Proposals**

**Agenda 31.1.1 Preliminary Exploration (G3) of Limestone in Kebang South Block, Siang District, Arunachal Pradesh**

**[Implementing Agency: M/s. MMPL Private Limited]**

**Area: 5.87 sq. km**

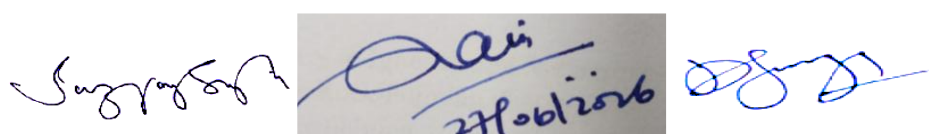
- a) The proposed block of 5.87 sq. km area for preliminary exploration (G3), falls in Survey of India Toposheet no. 82P/4, in parts of Siang district, Arunachal Pradesh. The proposal was accorded in-principle approval in the 24<sup>th</sup> TCC-II meeting and in 28<sup>th</sup> TCC-II held on 7<sup>th</sup> and 8<sup>th</sup> May, 2026, Committee deferred the project proposal as the proposed area of 14.84 sq. km. was too large for G3 stage of exploration for limestone. Further, The Committee advised the agency to prepare two separate blocks with an area of around 5-6 sq. km each covering exposed part of limestone of Buxa Formation and submit the DPRs at the G3 level accordingly.

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b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	Currently no exploration / reconnaissance projects related to Limestone and associated Minerals and any other mineral/commodity is being carried out by GSI in the proposed area. The proposed NMEDT block partly overlaps with the already explored block of F.S.1995-96 (Sitaram and Bendre) P-II stage of investigation for limestone.
2	MECL	The block proposed is not overlapping with explored block and ongoing blocks.
3	DGM	No previous or ongoing reconnaissance/exploration work, departmental exploration, or existing mining/quarry lease has been reported within the proposed area. DGM, Arunachal Pradesh informed that there is currently no limestone production in the State. However, significant quantities of limestone-based cement will be required for ongoing and upcoming hydropower and infrastructure projects. Developers, including NHPC Limited and the Etalin Hydropower Project, have projected limestone requirements exceeding 61 lakh MT. Therefore, exploration and development of local limestone resources is essential to meet future demand and avoid delays and high transportation costs
4	NMEDT	There are no completed or ongoing NMEDT-funded projects in the proposed block.

c) The agency informed that, in pursuance of recommendation by TCC-II in 28th meeting, the proposed block of 5.87 sq. km. area has been carved out from the original proposed block of 14.84 sq. km. for G3 stage of exploration. During the present meeting, the Agency informed that the proposed area falls within carbonate-bearing sequences of the Buxa Formation and Miri Formation. Earlier investigations by Vikram Rai and J.K. Srivastava (1992-93) reported the occurrence of dolomitic limestone in the Siang-Yamne valley. Subsequently, Jamwal and Nagasashidhar (1992-93) identified marble/limestone bands ranging from 3-40 m in thickness, including three prominent bands with widths of approximately 1500 m, 1500 m, and 300 m, extending over a strike length of 4-5 km. Further, Sitaram and Bendre (1995-96) reported limestone occurrences with CaO content exceeding 40% and MgO content below 6%. They estimated limestone resources of about 7.07

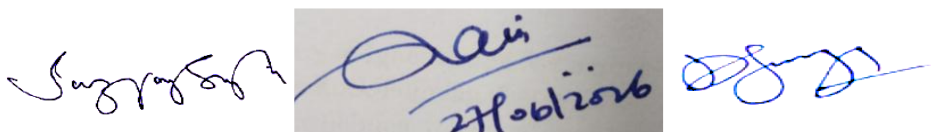
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million tonnes at Pangin, 37 million tonnes at Lokpeng, and 1.49 million tonnes at Kabu.

- d) Considering the above facts the committee agreed to recommend the proposal for approval of PSC. The Committee advised that the project should be executed in a phased manner. In the initial Phase-I, detailed geological mapping on a 1:4,000 scale, topographical survey and sampling activities shall be carried out, followed by the requisite chemical analysis of the collected samples. Further activities, including drilling of 5 boreholes (BHs), shall be taken up based on the outcomes and review of the Phase-I work completed under the project.

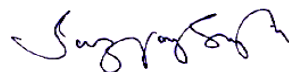
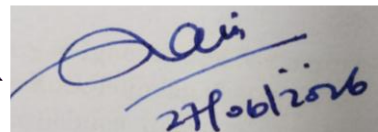

#### **Recommendations of TCC-II**

***The Committee recommended the proposal for approval of PSC for “Preliminary Exploration (G3) of Limestone in Kebang South Block, Siang District, Arunachal Pradesh” with an estimated cost of ₹181.28/- lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of geological report as per Annexure – 2A & 2B. The item will be reviewed after 3, 6 and 9 months.***

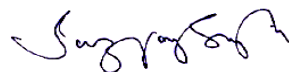
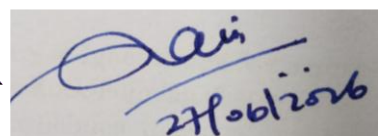

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**Cost Estimate for Preliminary exploration (G3) of Limestone in Kebang South Block, Siang District, Arunachal Pradesh**  
**Area: 5.87 sq. km, BHs: 5, Drilling - 500 m; Timeline- 12 months, Review: After 3, 6 and 9 Months**

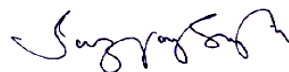
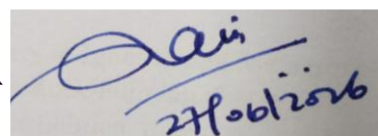

S. No.	Item of Work *	Unit *	Rates as per NMEDT SoC		Estimated Cost of the Proposal			Remarks
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	Total Amount multiplying 2X (Rs) (a*b)	
<b>A</b>	<b>Geological Mapping Other Geological Work &amp; Surveying</b>							
i	Detailed Geological mapping, (1:4000 scale)	per sq. Km	1.1	28,600	5.87	1,67,882	1,67,882	
ii	Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.2.1 a	14,500	100	14,50,000	29,00,000	
iii	Labours Charges; Base rate	day	5.8	556	200	1,11,200	2,22,400	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
iv	Charges for Geologist per day (HQ)	day	1.2.1a(a)	10,500	30	3,15,000	3,15,000	
v	Charges for one Sampler per day (1 Party)	one sampler per day	1.2.1a(b)	7,850	35	2,74,750	5,49,500	
vi	Labours (4 Nos)	day	5.8	556	140	77,840	1,55,680	
					<b>Sub Total- A</b>	<b>23,96,672</b>	<b>43,10,462</b>	
<b>B</b>	<b>Survey work</b>							

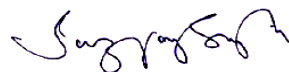
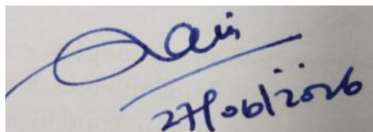

i	DGPS Survey for BH fixation & RL determination and lease boundary demarcation	Per Point of observation	1.3.2	24,000	9	2,16,000	4,32,000	4 cardinal points + 5 BH points
ii	Charges of one qualified surveyor with Total Station for carrying out topographical survey in different RF and surface contouring at different interval, fixation of borehole and determination of co- ordinates & Reduced Level (RL) of the boreholes with total station etc.	one surveyor per day	1.3.1	10,500	60	6,30,000	12,60,000	
iii	Labours Charges for survey work;	day	5.8	556	240	1,33,440	2,66,880	
<b>Sub-Total B</b>						<b>9,79,440</b>	<b>19,58,880</b>	
<b>D</b>	<b>DRILLING IN HOUSE (after review)</b>							
i	Systematic Drilling up to 300m (soft Rock)	m	2.2.1.1c	5,500	500	27,50,000	55,00,000	
ii	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	30,000	5	1,50,000	3,00,000	
iii	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7	2,000	5	10,000	20,000	
iv	Miscellaneous Charges (Transportation of Drilling Rig, Accommodation for Drill Camp, Camp setting and winding, construction of Approach road)	Lumpsum	2.2.9			11,00,000	11,00,000	
v	Drill Core Preservation	per m	5.3	1,590	250	3,97,500	3,97,500	
<b>Sub-Total D</b>						<b>44,07,500</b>	<b>73,17,500</b>	
<b>E</b>	<b>LABORATORY STUDIES</b>							
	<b>Chemical Analysis</b>							
i	Major oxides (WD XRF)- (oxides+ traces -24 elements)	per sample	4.1.17a	4,200	250	10,50,000	10,50,000	

ii	Major oxides (WD XRF)- (oxides+ traces -24 elements) (10% external)	per sample	4.1.17a	4,200	25	1,05,000	1,05,000	
2	<b>Physical &amp; Petrological Studies</b>							
i	Preparation of thin section	Nos	4.3.1	500	10	5,000	5,000	
ii	Study of thin section	Nos	4.3.4	2,800	10	28,000	28,000	
iii	Bulk Density	Nos	4.8.3	2,500	5	12,500	12,500	
<b>Sub-Total E</b>						<b>12,00,500</b>	<b>12,00,500</b>	
<b>Total A to F</b>						<b>89,84,112</b>	<b>1,47,87,342</b>	
<b>G</b>	<b>Geological Report Preparation</b>	<b>As per EC</b>	<b>5.2</b>	<b>5.2 (i/ii/iii/iv)</b>			<b>2,50,000</b>	Reimbursement will be made after submission of the final Geological Report in soft copy to NMEDT
<b>H</b>	<b>Peer review Charges</b>		<b>As per EC decision</b>				<b>30,000</b>	
<b>I</b>	<b>Preparation of Exploration Proposal (5 Hard copies with a soft copy)</b>	<b>Soft copy</b>	<b>5.1</b>	<b>2% of the Cost or Rs. 5 Lakhs whichever is lower</b>			<b>2,95,747</b>	Reimbursement after submission of 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>J</b>	<b>Total Estimated Cost without GST</b>						<b>1,53,63,089</b>	
<b>K</b>	<b>Provision for GST (18%)</b>						<b>27,65,355.99</b>	GST will be reimbursed as per actual and as per notified prescribed rate
<b>L</b>	<b>Total Estimated Cost with GST</b>						<b>1,81,28,445</b>	
				<b>or Say Rs. In Lakhs</b>			<b>181.28</b>	

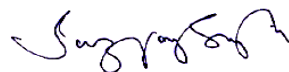
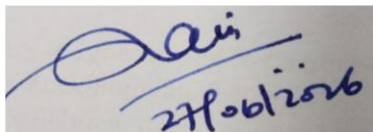





<b>Note:</b>	
<b>1</b>	<b>Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.</b>
<b>2</b>	<b>In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.</b>
<b>3</b>	<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.</b>
<b>4</b>	<b>Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.</b>
<b>5</b>	<b>Any item of work not mentioned above shall be added as per SoC.</b>
<b>6</b>	<b>All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.</b>

**Timeline: Preliminary exploration (G3) of Limestone in Kebang South Block, Siang District, Arunachal Pradesh**

S. No.	Item of work	Months																	
		1	2	3	REVIEW	4	5	6	REVIEW	7	8	9	REVIEW	10	11	12			
1	Camp Setup	█				REVIEW					REVIEW					REVIEW			
2	Detailed Mapping (1:4000)	█	█																
3	Bed Rock Sampling	█	█	█															
4	Chemical analysis of surface samples			█															
5	Systematic drilling (800X800m)				█		█												
6	Core sampling and its preparation						█	█	█										
7	Chemical analysis of Core Samples							█	█			█							
8	Processing of Analytical data			█			█	█	█			█	█						
9	Peer review																█		
10	Final submission																	█	█

**Agenda 31.1.2 Preliminary Exploration (G3) for Graphite in Bhopali East Block, Betul District, Madhya Pradesh**

**ID: ME/DD/G3/MP/26-27/023**

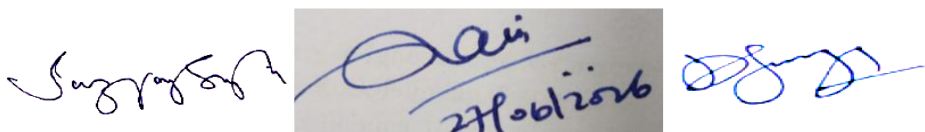
**[Implementing Agency: M/s. MMPL Private Limited]**

**Area: 1.4 sq. km.**

- a) The proposed block of 1.4 sq. km area for preliminary exploration (G3), falls in Survey of India Toposheet no. 55J/4, in parts of Betul district, Madhya Pradesh.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	Two G-4 stage investigation has already been carried out around the proposed block area, Investigation for graphite in Tikari, Gauthana, Chiklar and surrounding areas, Betul district, M.P. (Stage-G4, FS: 2012-13) and Reconnaissance survey for graphite in Golighat-Junawani-Borgaon and Rathipur-Chikhli-Bhopali areas in Betul belt, Betul District, Madhya Pradesh (Stage-G4, FS: 2017-18). Overlap with FS 2017-18.
2	AMD	AMD has carried out reconnaissance exploration (G-4 stage) in and around the proposed block for uranium. No surface radioactive zone was delineated. There is no ongoing exploration / reconnaissance project.
3	MECL	The block proposed is not overlapping with explored block and ongoing blocks.
4	DGM	Not available
5	NMEDT	There are no completed or ongoing NMEDT-funded projects in the proposed block.

- c) In the present meeting, the Agency informed that, during FS 2017–18, GSI carried out G4 stage exploration for graphite in the Betul belt, covering the Bhopali area and its surroundings. In the Rathipur–Chikhli–Bhopali areas, falling within parts of Toposheet No. 55J/4, three graphite-bearing bands were identified. The proposed project area covers the GSI-recommended Graphite Band-I, i.e., a graphite schist band with phyllite, phyllitic quartzite, and micaceous quartzite intercalations is exposed southeast of Bhopali near Baba Mandir, trending N75°E–S75°W. The band thickness varies from 4-12 m, thinning towards the northeast, with prominent micaceous quartzite parting up to 8 m in the southwest. A total of 22 groove BRS samples were collected from the southwestern part show fixed carbon (FC) values ranging from 0.29% to 12.39%, with higher FC values of 7–10.6% near the southern gneiss contact. Based on analytical results, a graphite-bearing zone of approximately 5 m ( $\pm 2$  m) width with an average FC content of 7.17% has been inferred. Although the strike continuity could not be confirmed due to steep terrain and scree cover, geological observations suggest a possible strike extension of

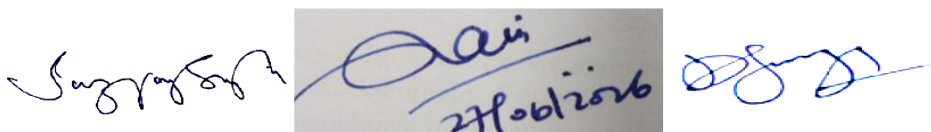
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about 1.2 km with intercalations of phyllite/phyllitic quartzite/micaceous quartzite.

- d) Considering the above the Committee agreed to recommend the proposal for approval of PSC. The Committee advised that the project should be executed in a phased manner. In the initial Phase-I, detailed geological mapping on a 1:4,000 scale, topographical survey, geophysical survey (SP) and sampling activities shall be carried out, followed by the requisite chemical analysis of the collected samples. The Drilling quantum may be revised during the first review based on the findings of geological mapping, geophysical survey (SP) and analytical results.

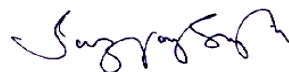
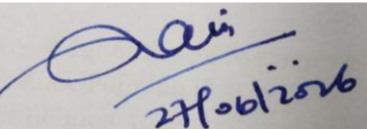

#### **Recommendations of TCC-II**

***The Committee recommended the proposal for approval of PSC for “Preliminary exploration (G3) of Graphite in Bhopali East Block, Betul District, Madhya Pradesh” with an estimated cost of ₹233.94/- lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of geological report as per Annexure – 3A & 3B. The item will be reviewed after 4 and 8 months.***

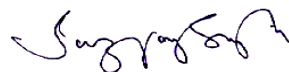
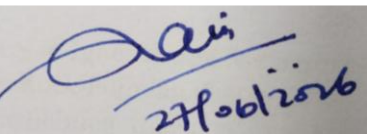

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**Cost Estimate for Preliminary Exploration (G3) of Graphite in Bhopali East Block, Betul District, Madhya Pradesh**  
**Area: 1.4 sq. km, Period of Completion: 12 months, BH:10, Drilling -1000 m, Review: 4 months and 8 months**

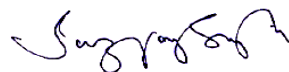
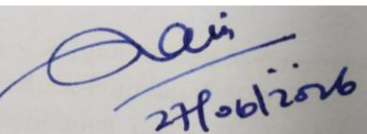

S. No.	Item of Work	Unit	Rates as per NMEDT SoC		Estimated Cost of the Proposal		Remarks
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	
<b>A</b>	<b>Geological Mapping Other Geological Work &amp; Surveying</b>						
1	Geological mapping (1:4000)	per sq. km	1.1	18,300	1.4	25620.00	
2	a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.2.1a(b)	14,500	120	1740000.00	
3	b. Labours Charges; Base rate	Day	5.8	556	240	133440.00	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
4	c. Charges for Geologist per day (HQ)	Per day	1.2.1a(a)	10,500	30	315000.00	
5	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.2.1b	7,850	55	431750.00	
6	e. Labours (4 Nos)	day	5.8	556	220	122320.00	
	<b>Sub Total- A</b>					<b>2768130.00</b>	
<b>B</b>	<b>Ground Geophysical Survey</b>						
1	Self-Potential (8-20 line km)	Line Km	3.3a	62,140	10	621400.00	
	<b>Sub Total- B</b>					<b>621400.00</b>	
<b>C</b>	<b>Survey work</b>						
1	DGPS Survey for BH fixation & RL determination, boundary determination	Per Point of observation	1.3.2	24,000	14	336000.00	10 BH and 4 cardinal points

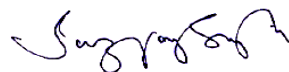
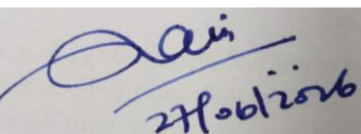

2	Charges for one qualified surveyor (Topographic survey, surface contouring at specific interval)- outsource	one surveyor per day	1.3.1	10,500	30	315000.00	
3	Labours Charges for survey work;	day	5.8	556	120	66720.00	
<b>Sub-Total C</b>						<b>717720.00</b>	
<b>D</b>	<b>Drilling (after review)</b>						
1	Drilling up to 400m (Hard Rock)	m	2.2.1.1d	10,000	1,000	10000000.00	Drilling quantum will be revised at first review based on geological mapping and sampling results.
2	Land / Crop Compensation (in case the BH falls in agricultural Land)	per borehole	5.6	30000	10	300000.00	As per actuals with maximum ceiling of Rs. 30,000
3	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7	2000	10	20000.00	
4	Borehole plugging by cement	Lum sum per borehole	2.2.8	10000	10	100000.00	
5	Drill Core preservation	per m	5.3	1,590	400	636000.00	One full borehole and mineralized zones for remaining boreholes
6	Miscellaneous Charges (Transportation of Drilling Rig, Accommodation for Drill Camp, Camp setting and winding, construction of Approach Road)	Drilling cost	2.2.9			1500000.00	
<b>Sub Total D</b>						<b>12556000.00</b>	
<b>E</b>	<b>LABORATORY STUDIES</b>						
a	<b>Chemical Analysis</b>						
	<b>Surface samples (Bedrock/Channel)</b>						
1	Major oxides (WD XRF)- (oxides+ traces - 24 elements)	Per Sample	4.1.17a	4200.00	10	42000.00	
2	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS (sequential technique)	Per Sample	4.1.15	7400.00	50	370000.00	
3	Proximate analysis for Graphite	per sample	4.1.18	3614.00	110	397540.00	

	<b>Surface Check samples (10% External)</b>						
1	Major oxides (WD XRF)- (oxides+ traces - 24 elements)	per Sample	4.1.17a	4200.00	1	4200.00	
2	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS (sequential technique)	per Sample	4.1.15	7400.00	5	37000.00	
3	Proximate analysis for Graphite	per sample	4.1.18	3614.00	11	39754.00	
	<b>BH Core samples</b>						
1	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS (sequential technique)	per sample	4.1.15	7400.00	20	148000.00	
2	Proximate analysis for Graphite	per sample	4.1.18	3614.00	200	722800.00	
	<b>BH Core samples (10% External Check sample)</b>					0.00	
1	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS (sequential technique)	per sample	4.1.15	7400.00	2	14800.00	
2	Proximate analysis for Graphite	per sample	4.1.18	3614.00	20	72280.00	
	<b>Sub Total E</b>					<b>1848374.00</b>	
<b>F</b>	<b>Physical &amp; Petrological Studies</b>						
1	Preparation of thin section	Nos	4.3.1	500	5	2500.00	
2	Preparation of polish section	Nos	4.3.2	800	5	4000.00	
3	Complete petrographic /ore microscopic study/mineragraphic report of rocks sample (along with 5 nos. digital photo micrographs)	Nos	4.3.4	2,800	10	28000.00	

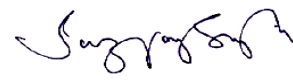
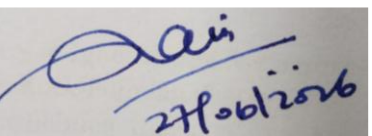





4	RAMAN spectroscopy study per hour	per hour	4.5.1	2,700	5	13500.00	
5	Bulk density analysis	Nos	4.8.3	2,500	3	7500.00	
6	EPMA studies	per hour	4.4.1	10500	10	105000.00	
	Administrative Charges for getting Forest Permission		5.7			-	
<b>Sub Total F</b>						<b>160500.00</b>	
<b>G</b>	<b>Total A to F</b>					<b>18672124.00</b>	
<b>H</b>	<b>Geological Report Preparation</b>	<b>As per EC</b>	<b>5.2</b>	<b>5.2 (i/ii/iii/iv)</b>		<b>750000.00</b>	Reimbursement will be made after submission of the final Geological Report in soft copy to NMEDT
<b>I</b>	<b>Peer review Charges</b>		<b>As per EC decision</b>			<b>30000.00</b>	
<b>J</b>	<b>Preparation of Exploration Proposal</b>	<b>As per EC</b>	<b>5.1</b>	2% or 5 lakh whichever is lower		<b>373442.48</b>	Reimbursement after submission of the soft copy of the final proposal along with Maps and Plan as suggested by the TCC-NMEDT in its meeting while clearing the proposal.
<b>K</b>	<b>Total Estimated Cost without GST</b>					<b>19825566.48</b>	
<b>L</b>	<b>Provision for GST (18%)</b>					<b>3568601.97</b>	GST will be reimbursed as per actual and as per notified prescribed rate
<b>M</b>	<b>Total Estimated Cost with GST</b>					<b>23394168.45</b>	
<b>Note:</b>				<b>or Say Rs. In Lakhs</b>		<b>233.94</b>	
<b>1</b>	<b>Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.</b>						
<b>2</b>	<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>						
<b>3</b>	<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.</b>						
<b>4</b>	<b>Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.</b>						
<b>5</b>	<b>Any item of work not mentioned above shall be added as per SoC.</b>						
<b>6</b>	<b>All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.</b>						

Timeline: Preliminary exploration (G3) of Graphite in Bhopali East Block, Betul District, Madhya Pradesh

S.No.	Nature of Work	M1	M2	M3	M4		M5	M6	M7	M8		M9	M10	M11	M12		
1	Camp Set up					Review					Review						
2	Geological mapping (1:4000 scale, DM) (1.4 sq km)																
3	Topographic survey																
4	Geophysical survey (SP survey)																
5	Chemical analysis of surface samples																
6	Petrological studies																
7	Mineral Physics studies/Geotechnical/Laboratory studies																
8	DGPS survey for fixation of borehole and cardinal points																
9	Drilling (1000 m)																
10	Chemical analysis of subsurface samples																
11	Geological report preparation/Peer Review/Submission																

**Agenda 31.1.3 Preliminary Exploration (G3) for Iron in Sandalpur Block, Gwalior District, Madhya Pradesh.**

**ID: ME/DD/G3/MP/26-27/027**

**[Implementing Agency: M/s. MMPL Private Limited]**

**Area: 6.0 sq. km**

- a) The proposed block of 6.0 sq. km area for preliminary exploration (G3), falls in Survey of India Toposheet no. 54J/4, in parts of Gwalior district, Madhya Pradesh.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	The proposed block overlaps with the GSI project titled "Reconnaissance Survey for Iron Ore Mineralization in the Santau, Kansar, and Mangor areas, parts of T.S. No. 54J/4, Gwalior District, Madhya Pradesh (G4: FS 2022-23)." In addition, two projects, namely "Preliminary Exploration for Iron Ore in the Maheshwara-Mangor Block, Gwalior District, Madhya Pradesh (FS 2025-26)" and "Preliminary Exploration for Iron Ore in the Santau Block, Gwalior District, Madhya Pradesh (FS 2025-26)," are situated to the west of the proposed block.
2	AMD	AMD has carried out reconnaissance exploration (G4 stage) for uranium in and around the proposed block. No significant surface radioactive zone was delineated. AMD does not have baseline / exploration data on the commodity mentioned.
3	MECL	The proposed block has no overlapping with the ongoing or completed blocks of MECL.
4	State DGM	No major or minor mineral lease/ quarry lease is found to be operating in the area. As per previous exploration works, the area is considered to have potential for occurrence of iron ore. At present, no exploration work is being carried out in the proposed area.
5	NMEDT	Overlap with GSI 2025-26 project (Co-ordination and monitoring with CSIR-NGRI for the execution of Deep Seismic Reflection Survey (DSRS) and Magnetotelluric (MT) survey along Churu, Rajasthan to Tikamgarh, M.P., Northern Transect). No NMEDT funded NPEA block present in the vicinity of the proposed block.

- c) The committee opined that approval of iron ore project required endorsement from the state government. It further suggested to get the

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status of two GSI, G3 exploration projects for Iron Ore in the west of the proposed project and incorporating the available data into the DPR.

**Recommendations of TCC-II**

***The committee deferred the project for discussions in next TCC-II meeting.***

**Agenda 31.1.4 Preliminary Exploration (G3) for Iron in Kudi Kochita Block, Sidhi District, Madhya Pradesh,**

**ID: ME/DD/G3/MP/26-27/038**

**Area: 4.16 Sq. Km.**

**[Implementing Agency: M/s. MMPL Private Limited]**

- a) The proposed block of 4.16 sq. km area for preliminary exploration (G3), falls in Survey of India Toposheet no. 63H/15, in parts of Sidhi district, Madhya Pradesh.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	The proposed block overlaps with the GSI earlier projects titled 1) Report on the investigation for copper in Bahera-Baharia shear zone, Sidhi district, Madhya Pradesh (FS 1978-79) 2) Reconnaissance Survey for search of extent of low-grade iron ore in Mahakoshal belt in Kochita-Bhatha-Pokhra-Bharuhi areas of Sidhi district, Madhya Pradesh. (FS:2017-18) 3) Report on Preliminary exploration of low-grade Iron in Gandhigram block, Sidhi District, Madhya Pradesh (FS:2019-20)
2	MECL	It is observed that nearly 40% of the area of M/s MMPL Private Limited Block overlaps with the MECL block, for which prior consent has already been submitted to the DMG Office, Madhya Pradesh.
3	DGM	No comments available
4	NMEDT	The proposed is present near the NMEDT funded blocks of CMPDI, MECL and MMPL. The proposed block buffer zone overlaps with the MMPL ongoing Amhawa and Bamuri G3 blocks of Iron Ore.

- c) The agency referenced the G4 report of GSI FS 2017-18 where large scale mapping of 100 sq. km on 1:12,500 scale and detailed mapping of 02 sq.km on 1:4000 scale were carried out with collection of total 220 BRS and 100 PTS for search of low -grade iron ore in parts of toposheet no. 63H/15. BRS samples showed Fe<sub>2</sub>O<sub>3</sub>% values in the range of 24.5% to 70.53% and Fe(T) in the range 17%-50.49%. The agency collected 5 BRS samples from field which showed Fe(T)% value in the range 36.36% to 62.83%.
- d) The committee opined that approval of iron ore project required from the state government. The committee deferred the project for discussion in next TCC-II meeting.

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## Recommendations of TCC-II

*The committee deferred the project for discussions in next TCC-II meeting.*

**Agenda 31.1.5 Preliminary Exploration (G3) for Graphite & associated mineralization in Chiklar Block, Betul District, Madhya Pradesh,**

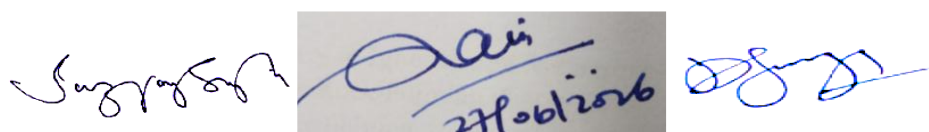
**ID: ME/IND/G3/MP/P/26-27/001**

**[Implementing Agency: M/s Vardan Environet]**

**Area: 1.35 sq. Km**

- a) The proposed 1.35 sq. km. area for preliminary exploration (G-3), falls in Survey of India Toposheet number 55G/13 in parts of Betul District, Madhya Pradesh. This project got in-principle approval in 26th TCC-II meeting. In the 28th TCC-II meeting committee advised the agency to revise the proposed block by excluding the Tiger corridor along with the 1 km buffer zone and to resubmit the modified DPR in the forthcoming TCC-II meeting.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	GSI informed that multiple exploration activities (G-4 and G-2 stages) for graphite and associated minerals have been carried out in the Betul area, including surveys in Tikari-Gauthana-Chiklar and surrounding regions, as well as tungsten reconnaissance. The studies indicate graphite mineralisation extending over ~3.5 km with variable widths and 5-17.3% fixed carbon, hosted in metasedimentary rocks and structurally controlled zones. As the proposed block lies adjacent to the explored area, it is considered prospective for further exploration of graphite and associated minerals
2	State DGM	DGM informed that the proposed area is fully covered under a prospecting proposal by M/s Kartikeya Exploration submitted earlier to NMEDT and is also partially covered (0.280 ha) by an auctioned composite license block. Further, earlier surface sample analysis indicated low graphite content (FC ~0.7%), below the cut-off (2-10%); hence, detailed prospecting is recommended for better assessment.
3	AMD	AMD informed that past G-4/G-3 stage uranium exploration has been carried out in and around the proposed block, which overlaps with previously explored AMD areas. Ongoing work includes radiometric surveys and geological mapping in the Gothana, Chiklar, and Betul areas. Grab samples (n=8) have shown up to 0.015% U <sub>3</sub> O <sub>8</sub> . Considering the uranium potential, analysis of uranium is recommended, and if any, during the



		exploration may be communicated to AMD for gamma ray logging.
4	MECL	The Chiklar area, Betul District, Madhya Pradesh proposed by M/s Vardan Environet Llp is not overlapping with any of the completed/ongoing/proposed blocks of MECL
5	NMEDT	The revised proposed block boundary is 1028 m away from the Tiger corridor.

- c) The agency informed that the block boundary has now been revised and is located at a distance of 1050 m from the Tiger Corridor. The agency referenced the GSI Investigation for graphite in Tikari, Gauthana, Chiklar and surrounding areas, Betul district, Madhya Pradesh, (G4, FS: 2012-13). It was found that the graphite mineralisation was exposed discontinuously in the form of 3 lenticular bands disposed in en-echelon pattern over a strike length of more than 3.5 km trending ENE- WSW to NNE-SSW. The fixed carbon content of the graphite varies between 2% and 21%. Three bands were demarcated i.e. north, central and south blocks. The present proposal covered the northern band which had bifurcated into two parts respectively. The agency carried out field work and collected three samples whose analysis resulted in FC % values (3.29, 3.67 and 15.31) respectively. The agency proposed to carry out drilling in 27 boreholes including first level (13), second level (12) and third level (2) boreholes.
- d) The committee based on observations suggested to carry out work in phase manner. In the first phase geological mapping, topographic survey, geophysical survey and sampling will be undertaken, followed by the corresponding chemical analyses of the collected samples. First level drilling and remaining drill quantum would be revised after the review of above said work.

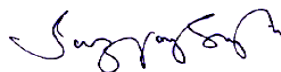
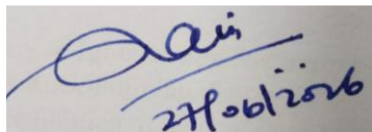

#### Recommendations of TCC-II

**The Committee recommended the proposal for approval of PSC for “Preliminary Exploration (G3) for Graphite and associated mineralization in Chiklar Block, Betul District, Madhya Pradesh” with an estimated cost of ₹364.81/- lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of geological report as per Annexure – 4A & 4B. The item will be reviewed after 5 and 10 months.**

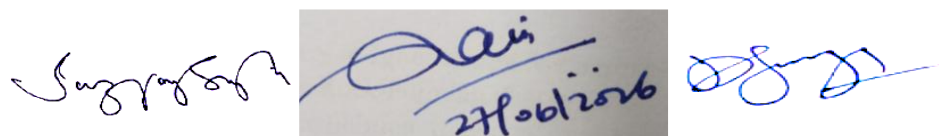
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**Cost Estimate for Preliminary exploration (G-3) for Graphite and associated mineralisation in Chiklar Block, Betul District, Madhya Pradesh,  
Area - 1.35 sq.km. Drilling: 2000 m, Timeline: 12 months, Review after 5 & 10 months.**

Sl. No.	Nature of Components	Unit	SoC Item No	Rate as per NMEDT SoC	Quantum of Component	Cost of Component	Remarks
<b>1</b>	<b>Detailed Geological Mapping Other Geological</b>						
a	Detailed Mapping (1:2000)	per sq. Km	1.1	18300	1.35	24,705.00	
b	Charges for 2 Geologist per day (Field) for Geological mapping & Trenching work, drilling activity (without labour)	Per Day	1.2.1a(b)	14500	120	17,40,000.00	
c	Labours charges; Base rate (for 2 labours per geologists)	Per Day	5.8	556	240	1,33,440.00	
d	Charges for Geologist per day (HQ)	Per Day	1.2.1a(a)	10500	30	3,15,000.00	
Sub Total 1						<b>22,13,145.00</b>	
<b>2</b>	<b>Survey work- Outsource</b>						
a	Charges for one qualified surveyor (Topographic survey, surface contouring at specific interval)-outsource	Per Day	1.3.1	10500	30	3,15,000.00	

b	DGPS Survey for BH fixation and Cardinal Points of block- outsource	Per Point of observation of observation	1.3.2	24000	24	5,76,000.00	20 BHs & 4 Corner Points
Sub Total 2						<b>8,91,000.00</b>	
<b>3</b>	<b>Geophysical survey- Outsource</b>						
a	SP(8-10 L km)	10 L km	3.3a	62140	10	6,21,400.00	
Sub Total 3						<b>6,21,400.00</b>	
<b>4</b>	<b>Diamond Core Drilling &amp; allied work- Outsource</b>						
a	Systematic Drilling of First level BH & Second Level Borehole as per MEMC (Hard rock)	Per m	2.2.1.1 d	10000	2000	2,00,00,000.00	Drilling quantum to be revised after first level (13 BHs with average depth of 70 m) drilling
b	Borehole deviation by multi shot camera	Per Shot	2.2.5	330	333	1,09,890.00	
c	Drillcore Preservation	Per m	5.3	1590	500	7,95,000.00	
d	Land/Crop Compensation	Per borehole	5.6	30000	20	6,00,000.00	As per actuals as certified by local authorities subject to a maximum of 30000 per borehole.
e	Administrative charges for getting forest clearance	As per actual	5.7			-	As per actuals
Sub Total 4						<b>2,15,04,890.00</b>	
<b>5</b>	<b>Charges for Sampling Party</b>						
a	Charges for one Sampler per day	one sampler per day	1.2.1b	7850	48	3,76,800.00	
b	Charges labour engaged in sampling work (4	Per Day	5.8	556	192	1,06,752.00	


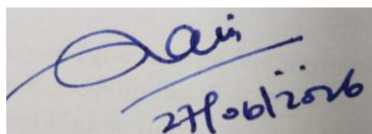


  
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	labour per sampler)						
Sub Total 5						<b>4,83,552.00</b>	
<b>6</b>	<b>Geochemical Study</b>						
a	Proximate Analysis of graphite bearing samples (primary sample)	Per Sample	4.1.18	3614	300	10,84,200.00	
b	Proximate Analysis of graphite bearing samples (check sample)	Per Sample	4.1.18	3614	30	1,08,420.00	
c	Major oxides by WD-XRF (whole rock analysis) (Oxides + traces) (primary samples)	Per Sample	4.1.17a	4200	15	63,000.00	5 BRS + 10 CORE SAMPLE
d	Major oxides by WD- XRF (whole rock analysis) (Oxides + traces) (Check samples)	Per Sample	4.1.17a	4200	2	8,400.00	10% of Primary Samples
e	REE by ICP-MS (14 REE + 9 Trace elements including uranium) (primary sample)	Per Sample	4.1.15	7400	15	1,11,000.00	5 BRS + 10 CORE SAMPLE
f	REE by ICP-MS (14 REE + 9 Trace elements) (check sample)	Per Sample	4.1.15	7400	2	14,800.00	10% of Primary Samples

g	XRD analysis for identification of minerals	Per Sample	4.5.2	4000	10	40,000.00		
h	Bulk Density	Per Sample	4.8.3	2500	10	25,000.00		
Sub Total 6						<b>14,54,820.00</b>		
<b>7</b>	<b>Physical &amp; Petrological/mineragraphic Studies</b>							
a	Preparation of Standard thin section of rock	Per Sample	4.3.1	500	5	2,500.00		
b	Preparation of polished thin section of rock/wafer	Per Sample	4.3.2	800	5	4,000.00		
c	Complete petrographic/ ore microscopic study/ mineragraphic report of rock sample (along with 5 nos. digital photomicrographs)	Per Sample	4.3.4	2800	10	28,000.00		
Sub Total 7						34,500.00		
	Out Source Cost					2,16,22,290.00		
<b>8</b>	Technical Supervision Cost	Lumpsum	6			20,00,000.00		
Sub Total 8						<b>20,00,000.00</b>		
Total (1 to 8)						<b>2,92,03,307.00</b>		
<b>9</b>	<b>Tendering Process Cost</b>	One time in case of outsourced components of project work	5.9			<b>4,32,445.80</b>		

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10	<b>Geological Report Preparation</b>	5 Hard copies with a soft copy	5.2(iii)	750000	1	<b>7,50,000.00</b>		
11	<b>Peer review charges</b>	As per EC decision		30000	1	<b>30,000.00</b>		
12	<b>Preparation of Exploration Proposal</b>	lumpsum	5.1	500000	1	<b>5,00,000.00</b>		
13	<b>Total Cost Without GST</b>						<b>3,09,15,752.80</b>	
14	<b>Provision for GST (18%)</b>						<b>55,64,835.50</b>	
15	<b>Total Cost With GST</b>						<b>3,64,80,588.30</b>	
	<b>In Lakhs</b>						<b>364.81</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.</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>							

**Timeline - Preliminary Exploration (G3) for Graphite and associated mineralization in Chiklar Block, Betul District, Madhya Pradesh**

S.N.	Activities	Months														
		1	2	3	4	5	REVIEW	6	7	8	9	10	REVIEW	11	12	
1	LITERATURE SURVEY	█														
2	DETAILED MAPPING		█	█												
3	PITTING/TRENCHING		█	█	█											
4	GROUND GEOPHYSICAL SURVEY			█	█	█										
5	CORE DRILLING & ASSOCIATED WORKS				█	█	REVIEW	█	█	█	█		REVIEW			
6	SAMPLING				█	█		█	█	█	█					
7	GEOCHEMICAL STUDIES			█	█	█		█	█	█	█	█				
8	PETROGRAPHIC STUDIES									█	█	█				
9	PEER REVIEW													█		
10	REPORT WRITING & SUBMISSION OF FINAL REPORT													█	█	

[Signature] 27/06/2016 [Signature]

**Agenda 31.1.6 Preliminary Exploration (G-3) of Limestone in Mangliyawas-A Block, Tehsil- Jaisalmer, District-Jaisalmer, Rajasthan.**

**ID: ME/DD/G3/RJ/26-27/034**

**[Implementing Agency: FAGMIL]**

**Area: 33 sq. km.**

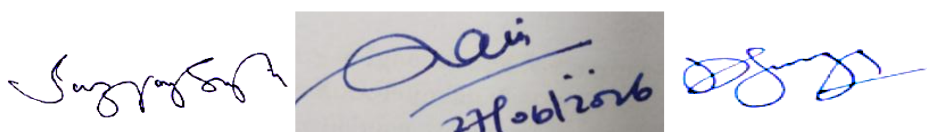
- a) The proposed 33.0 sq. km. area for preliminary exploration (G-3), falls in Survey of India Toposheet number 40J/05 in parts of District-Jaisalmer, Rajasthan.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	The proposed block lies south of the earlier work carried out GSI 1) Reconnaissance survey for Low Silica SMS/Cement Grade Limestone in South Khuiala Block, Jaisalmer District, Rajasthan (Stage: G4, FS 2017-18). 2) General Exploration (G2) for low Silica Sms/ Cement Grade Limestone in Kamiyon ki Beri block, (Stage: G2, FS: 2018-19) 3) General Exploration (G2) for low Silica Sms/ Cement Grade Limestone in Bharmal ki tekri Block, (Stage: G2, FS: 2018-19). No overlap.
2	MECL	There is no ongoing exploration / reconnaissance project.
3	State DGM	Not available.
4	AMD	There is no ongoing exploration / reconnaissance project.
5	NMEDT	The proposed block does not overlap with explored or ongoing blocks.

- c) The committee opined that the proposed area of 33 sq. km area is considerably large for G3 level of investigation. Also, endorsement from state government was required for approval of Limestone project.
- d) The committee advised the agency to reduce the area (8 - 10 sq. km). Based on this observation committee deferred the project to next TCC-II meeting.

**Recommendations of TCC-II**

***The committee deferred the project proposal to next TCC-II meeting subject to modification of the proposed area.***



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**Agenda 31.1.7 Reconnaissance survey (G4) for Graphite in Lakshampur-Sikabarhi- Barha Kachapai, Rayagada District, Odisha.**

**ID: ME/DD/G4/OD/26-27/044**

**[Implementing Agency: M/s United Exploration India Pvt. Ltd.]**

**Area: 29 sq. km.**

- a) The proposed 29.0 sq. km. area for reconnaissance survey (G-4), falls in Survey of India Toposheet number 65M/11 in parts of Rayagada District, Odisha.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	The proposed block has no overlapping in any of the GSI blocks in which preliminary assessment for graphite and manganese was carried out.
2	MECL	There is no ongoing exploration / reconnaissance project.
3	DGM	DMG Odisha informed that the proposed area was explored by DoMG at the G-4 level during F.S. 2013-15 through geological mapping, trial excavation, and sampling. Occurrences of graphite have been identified in the northern and western parts of the Barha 1 Kachapai area, with F.C. values ranging from 27.48% to 45.43%. The Sikabarhi deposit is considered promising, with graphite mineralization extending over more than 600 m in length and 5 to 12 m in width. In certain zones, the graphite bands contain small pockets of high-grade flaky graphite. A reconnaissance resource of approximately 8,375 tonnes of graphite, with F.C. content ranging from 8.41% to 20.70%, has been reported. Therefore, the block may be considered for further exploration.
4	AMD	There is no ongoing exploration / reconnaissance project.
5	NMEDT	The proposed block does not overlap with explored or ongoing blocks.

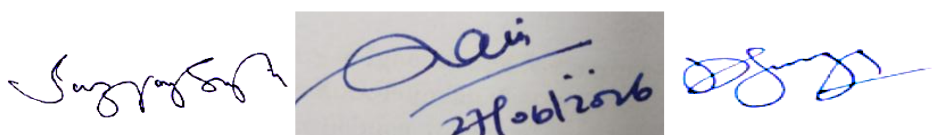
- c) The agency informed the committee that during the 27th TCC-II meeting committee opined that the proposed G3 block covered a large area and had significant data gaps, making it unsuitable for G3-level exploration. It also noted that the Geological report (GR) of DMG, Odisha of FS: 2013-15 was unavailable. Accordingly, it was recommended that the project should be modified at the G4 stage by merging both blocks into a single block, focusing on calc-granulite lithology with known graphite occurrences over an area of 25-30 sq. km and that the DPR be submitted in the upcoming TCC-II meeting.

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- d) In the present meeting, UEIPL informed that, the proposed area has been modified for G4 stage exploration as per the recommendations given by the TCC-II during its 27th meeting. The area has been identified based on work carried out by the Directorate of Mines & Geology (DMG), Odisha, within the proposed area. Proximate analysis of graphite samples from different areas shows variation of Fixed Carbon (FC) content from 7.86% to 46.25%. The analytical results indicate that the Lakshmipur, Sikabarhi and Barha Kachapai block hold significant potential for economic graphite mineralization.
- e) Considering the above, the Committee agreed to recommend the proposal for approval of PSC. The Committee advised that the project be implemented in a phased manner. In the initial Phase-I, geological mapping, geophysical survey and sampling will be undertaken, followed by the corresponding chemical analyses of the collected samples. Commencement of subsequent activities including drilling, shall be decided on the basis of outcome and evaluation of the Phase-I work undertaken under the project.

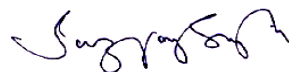
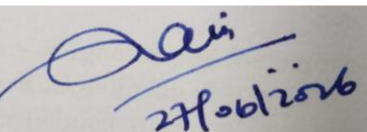

#### **Recommendations of TCC-II**

***The committee recommended the proposal for approval of PSC for "Reconnaissance survey (G4) for Graphite in Lakshmipur- Sikabarhi- Barha Kachapai Area, Rayagada District, Odisha" with an estimated cost of ₹125.95/- lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of geological report as per Annexure – 5A & 5B. The item will be reviewed after 4 and 8 months.***

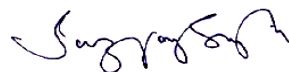
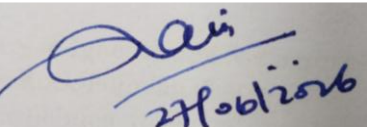

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**Cost Estimate for Reconnaissance survey (G4) for Graphite around Lakshmpur, Sikabarhi and Barha Kachapai Area, Rayagada District, Odisha**  
**Total area: 29 sq. km, Period of Completion: 10 months, Drilling-450 m, Review: 4 months and 8 months**

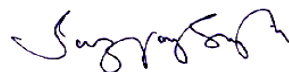
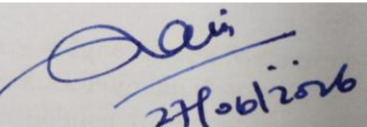

S. No.	Item of Work	Unit	Rates as per NMEDT SoC		Estimated Cost of the Proposal		Remarks
			SoC-Item -Sl. No.	Rates as per SoC	Qty.	Amount (Rs)	
<b>A</b>	<b>GEOLOGICAL WORK</b>						
<b>1</b>	<b>Large scale Geological Mapping (1:12500)</b>	per sq.km	1.1	18300	29	530700	
i	Charges for Geologist- Field	day	1.2.1a(b)	14500	60	870000	
ii	Charges for one Geologist - HQ	day	1.2.1a(a)	10500	20	210000	
iii	Labours Charges; Base rate	day	5.8	556	120	66720	
<b>2</b>	<b>Geophysical Survey</b>						
	Self-Potential (8–20 line km)	Line Km	3.3a	62140	20	1242800	
<b>3</b>	<b>Trenching</b>						
	Trenching	cu. m	2.1.1	4125	50	206250	
<b>4</b>	<b>Samples Preparation</b>						
i	Charges for one Sampler per day	one sampler per day	1.2.1b	7850	19	149150	
	Labours Charges; Base rate	day	5.8	556	76	42256	
<b>5</b>	<b>LABORATORY STUDIES</b>						
<b>1</b>	<b>Chemical Analysis</b>						
i	<b>Primary &amp; Check samples for Graphite</b>						
	Proximate analysis of Graphite	per sample	4.1.18	3614	100	361400	
	Proximate analysis of Graphite External(10%) Check samples	per sample	4.1.18	3614	10	36140	
	Major oxides (WD XRF)- (oxides+ traces -24 elements)	per sample	4.1.17a	4200	20	84000	
	Major oxides (WD XRF)- (oxides+ traces -24 elements) External (10%) Check samples	per sample	4.1.17a	4200	2	8400	
ii	<b>ICPMS for Trace elements</b>						

	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS (sequential technique)	per sample	4.1.15	7400	20	148000	
	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS (sequential technique) External (10%) Check samples	per sample	4.1.15	7400	2	14800	
<b>2</b>	<b>Physical &amp; Petrological Studies</b>						
i	Preparation of polished thin section of rock/ wafer	Nos	4.3.2	800	10	8000	
ii	Complete petrographic study report	Nos	4.3.4	2800	10	28000	
	<b>Sub Total A</b>					<b>4006616</b>	
<b>B</b>	<b>DRILLING(Inhouse)</b>						
i	Drilling upto 300m (Hard Rock) (1 rig) - HQ	m	2.2.1.1d	10000	450	4500000	
ii	Land / Crop Compensation	per BH	5.6	30000	10	300000	
iii	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7	2000	10	20000	
iv	Miscellaneous Charges ( Transportation of Drilling Rig, Accommodation for Drill Camp, Camp setting and winding, construction of Approach )	Lump sum	2.2.9			1125000	
v	Drill Core preservation	m	5.3	1590	150	238500	Core Preservation: One complete borehole plus mineralised cores of all the remaining Bhs
	<b>Sub Total- B</b>					<b>6183500</b>	
<b>C</b>	<b>Total (A+B)</b>					<b>10190116</b>	

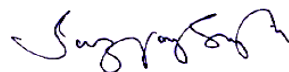
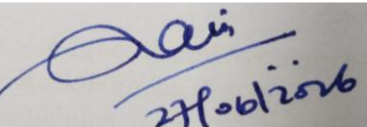





D	Geological Report Preparation		5.2. ii	Total cost exceeding ₹50 lakh but less than 150 lakh: ₹2.5 lakh		250000	
E	Peer review Charges		As per EC decision			30000	
F	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	as per EC	5.1	2% of the Cost or Rs. 5 Lakhs whichever is lower		203802.32	
G	<b>Total Estimated Cost without GST</b>					<b>10673918.32</b>	
H	<b>Provision for GST (18%)</b>					<b>1921305.298</b>	
I	<b>Total Estimated Cost with GST</b>					<b>12595223.62</b>	
J	<b>Cost in Lakhs</b>					<b>125.95</b>	
Note							
1.	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2.	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.						
3.	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMEDT SoC and Item no. 6 of NMEDT SoC.						
4.	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5.	Any item of work not mentioned above shall be added as per SoC.						
6.	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.						

## Time Schedule: Reconnaissance survey (G4) for Graphite in Lakshmipur- Sikabarhi- Barha Kachapai Area, Rayagada District, Odisha

Sl. No.	Particulars	Month-1	Month-2	Month-3	Month-4	Review	Month-5	Month-6	Month-7	Month-8	Review	Month-9	Month-10		
1	Camp Setting/ mobilization														
2	Geological Mapping														
4	Geophysical survey														
5	Pitting/ Trenching														
7	Drilling														
8	Sample Preparation														
9	Petrographic study														
10	Laboratory Studies														
11	Report Preparation														

**Agenda 31.1.8 Preliminary Exploration (G3) for Cement Grade Limestone around Shambhunath Ji Ka Kheda, Thakarda Tahsil Rawatbhata District Chittorgarh, Rajasthan.**

**ID: ME/DD/G3/RJ/26-27/037**

**[Implementing Agency: M/s United Exploration India Pvt. Ltd.]**

**Area: 20 sq. km.**

- a) The proposed block of 20 sq. km area for preliminary exploration (G3), falls in Survey of India Toposheet nos. 45P/5 & 45O/8, in parts of Chittorgarh district, Rajasthan.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	At present no exploration for Cement grade Limestone and any other mineral/commodity is being carried out in the area. GSI has carried out project titled Reconnaissance survey for cement grade limestone in area east of Palanpur, Chittorgarh District, Rajasthan (G-4), FS 2022-23 in the west of the proposed block. The present block has been proposed based on the exploration work carried out by the Directorate of Mines & Geology (DMG), Rajasthan. Based on the available analytical values, the area shows promising potential for cement-grade limestone mineralization. DMG has mapped pinkish dolomitic limestone along with red to grey limestone in the area. The grey limestone bands have reported CaO 44.10%, MgO 2.76%, and SiO <sub>2</sub> 13.06%, indicating suitability for cement-grade limestone, although the surface exposure is limited.
2	MECL	No overlapping with the ongoing or completed blocks of MECL.
3	DGM	Comments not available
4	AMD	There is no ongoing exploration / reconnaissance project.
5	NMEDT	There is no overlapping with the NMEDT Funded projects as per NGDR Portal

- c) The agency referenced A preliminary geological study carried out by Purohit and Swami of the Department of Mines and Geology (DMG), Rajasthan during 1994-95 established the presence of limestone belonging to the Lower Bhandar Group of the Vindhyan Supergroup in the proposed area. The investigation comprised a Regional Mineral Survey (RMS) covering 100 sq. km at a scale of 1:50,000, regional geological mapping over 15 sq. km at a scale of 1:10,000, and detailed geological mapping over 2 sq. km at a scale of 1:2,000. The study identified occurrences of pinkish dolomitic limestone and

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red to grey limestone. The grey limestone, containing about 44.10% CaO, 2.76% MgO, and 13.06% SiO<sub>2</sub>, was found to be of cement-grade quality, although its exposure is limited.

- d) The Committee noted that an area of 20 sq. km. is considerably large for geological mapping and exploration at the G3 stage. Therefore, the agency was advised to demarcate a reduced area of approximately 8-10 sq. km. for the proposal. Further, the committee opined that endorsement from the State Government may be required for limestone exploration.

#### Recommendations of TCC-II

*The committee deferred the project proposal to next TCC-II meeting subject to modification of the proposed area.*

#### Agenda 31.1.9 Preliminary exploration (G3) for establishing zones of Copper and associated mineralization in Dongargaon Near Asola Medha, Chandrapur District, Maharashtra.

ID: ME/DD/G3/MH/26-27/022

[Implementing Agency: M/s Bhushilp Mines and Minerals Pvt. Ltd.]

Area: 0.83 sq. km

- a) The proposed preliminary exploration (G3) of 0.83 sq. km. area, falls in Survey of India Toposheet number 56G/5 in parts of Chandrapur district, Maharashtra.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	Overlaps with GSI FS 2023-24 project titled Reconnaissance survey for basemetal and associated mineralization in Palasgaon-Wadhona area, Chandrapur District, Maharashtra. No mineral exploration programme is under execution in FS. 2026-27 by GSI in the proposed area. The quartz reef cropping out to the north in the Awalgaon-Wadona block was explored by GSI in FS 2025-26 in the G-3 stage exploration for Cu and associated mineralization (report under finalization) and it didn't intersect any significant mineralization up to the second level of drilling.
2	MECL	No overlapping with the ongoing or completed blocks of MECL.
3	AMD	There is no ongoing exploration / reconnaissance project.
4	State DGM	No comments available
5	NMEDT	There is no overlapping with the NMEDT Funded projects

- c) The agency referenced the GSI work during 2022-24, a reconnaissance survey conducted by the Geological Survey of India (GSI) in the Awalgaon-Palasmaon area, Chandrapur district, delineated multiple mineralised quartz veins with significant base metal and associated gold values. Significant

copper values had been recorded from the Dongargaon, Awalgaon, Kharkhara, and particularly the Kargata quartz reefs, suggesting a structurally controlled hydrothermal mineralisation system. The analytical results from the Dongargaon quartz vein indicated Cu values up to 0.22% and Au up to 244 ppb.

- d) The committee noted that an area of 0.83 sq. km. is considerably small for geological mapping and exploration at the G3 stage. Therefore, the agency was advised to modify the area exceeding 1 sq. km. for the proposal.

**Recommendations of TCC-II**

***The Committee deferred consideration of the proposal to the next TCC-II meeting and advised the agency to submit a revised proposal with an area exceeding 1 sq. km for the G3 stage of exploration.***

**Agenda 31.1.10 Preliminary Exploration (G3) for Vanadium, Scandium, Gallium and associated minerals in and around Satoli Block, Bidar district, Karnataka.**

**ID: ME/IND/G3/KA/P/26-27/009**

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

**Area: 9 sq. km**

- a) The proposed preliminary exploration (G3) of 9.00 sq. km. area, falls in Survey of India Toposheet number 56G/5 in parts of Bidar district, Karnataka. The committee gave the in-principle approval to the project in 27th TCC-II meeting.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	In the proposed block, no exploration/reconnaissance projects are ongoing. The block lies in eastern part of the Sindol Tanda block area (25 sq. km) where GSI in FS 2024-25 has carried out work on critical mineral assessment programme for Vanadium and associated critical minerals in lateritic rocks.
2	MECL	The proposed block has no overlapping with the ongoing or completed blocks of MECL.
3	DGM	The proposed block does not overlap with explored or ongoing blocks.
4	AMD	There is no ongoing exploration / reconnaissance project.
5	NMEDT	As per the NGDR portal, the proposed block does not overlap with explored or ongoing blocks.

- c) The agency referenced the project under Critical Mineral Assessment programme (CMAP) exploration work carried out by GSI (FS 2024-25) in the Sindol Tanda block, Bidar, for the potential for V-Sc mineralization in lateritized Deccan Trap basalts based on consistent geological and

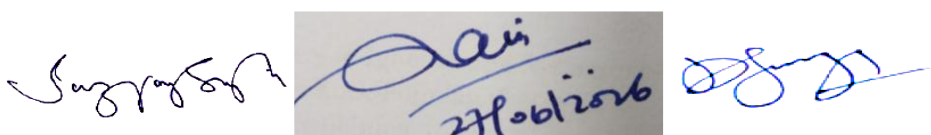
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geochemical evidence. Bedrock samples show  $V_2O_5$  (159–2212 ppm; avg ~1319 ppm), Sc (6–87 ppm; avg. ~54 ppm), Ga (17–52 ppm), and  $\Sigma REE$  (35–382 ppm), while profile/trench samples record higher  $V_2O_5$  (1467–2087 ppm; avg ~1623 ppm) and Sc (57–76 ppm; avg ~64 ppm). Borehole data (KBST-1, KBST-3) indicate a continuous supergene system with vanadium enrichment up to 1057 ppm near surface, Sc up to 79 ppm (avg ~42 ppm), and  $\Sigma REE$  up to 503 ppm. These elevated values, particularly in ferruginous duricrust horizons, confirm Fe–Ti–V–Sc oxide mineralization potential and justify further exploration. The agency informed that, the integrated geological, geochemical, and subsurface investigations in this area, including bedrock (BRS), trench, profile, and borehole sampling revealed a systematic enrichment of Fe-Ti-V-Sc oxides within lateritic horizons.

- d) Considering the above, the committee agreed to recommend the proposal for approval of PSC.


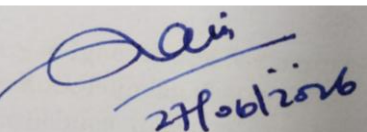

#### **Recommendations of TCC-II**

***The Committee recommended the proposal for approval of PSC for Preliminary Exploration (G3) for Vanadium, Scandium, Gallium and associated minerals in and around Satoli Block, Bidar district, Karnataka with an estimated cost of ₹ 466.27 /- lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of geological report as per Annexure – 6A & 6B. The item will be reviewed after 3,6 and 9 months.***

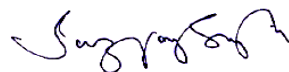
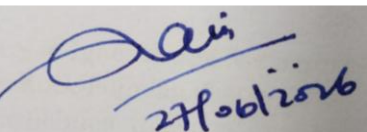

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**Cost estimate for Preliminary exploration (G3) for Vanadium, Scandium, Gallium and associated minerals in and around Satoli Block, Bidar district, Karnataka, Area: 9 sq. km, Boreholes: 54, BH depth range :36 m, (Total Meterage:1944m) Schedule timeline: 12 months, Reviews after 3, 6 and 9 months**

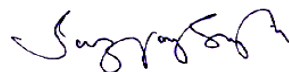
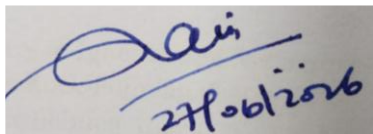

Sl. No.	Item of work*	Unit	Rates as per NMEDT SoC		Estimated cost of the proposal		Remarks
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	
<b>A</b>	<b>Geological mapping (LSM/DM) Other geological work and surveying</b>						
1	Geological mapping (1:4000 scale)	per sq. km	1.1	18300	9	164700	
	<b>Other Geological work/activities</b>						
2	a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1..2.1a(b)	14,500	150	21,75,000	
3	b. Labours Charges; Base rate	day	5.8	556	300	1,66,800	
4	c. Charges for Geologist per day (HQ)	day	1..2.1a(a)	10,500	30	3,15,000	
5	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.2.1b	7,850	271	21,27,350	
6	e. Labours (4 Nos)	day	5.8	556	1084	6,02,704	
					<b>Sub. Total-A</b>	<b>55,51,554</b>	
<b>B</b>	<b>Drone based survey</b>						
1	Drone topographic survey	per sq.km	7b	70,000	9	630000	

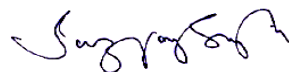
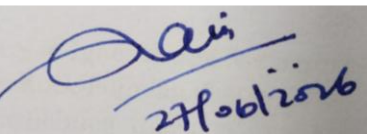

					<b>Sub. Total-B</b>	<b>630000</b>	
<b>C</b>	<b>Survey work</b>						
1	DGPS Survey and for BH fixation & RL determination	Per Point of observation	1.3.2	24000	62	1488000	54BH+8 boundary points
					<b>Sub. Total-c</b>	<b>1488000</b>	
<b>D</b>	<b>Drilling (In house)</b>						
1	Drilling up to 36m / bedrock	Per m	2.2.1.1.c	5500	1944	10692000	First phase 16 BH @ 800m grid; second phase 38 BH @ 400m infilling
2	Land / crop compensation if the drilling is in agricultural land	per borehole	5.6	30,000	54	1620000	As per actuals as certified by local authorities subject to a maximum of 30,000 per borehole
3	Drill core preservation	per m	5.3	1590	972	1545480	Entire horizon consisting laterite, laterite with clay, saprolite have higher than threshold value
5	Miscellaneous charges (Transportation of Drilling Rig, Accommodation of Drill camp, Camp setting and Winding, construction of approach Road)		2.2.9	15% of drilling cost		1603800	Max ceiling of 20 lakhs
					<b>Sub. Total-D</b>	<b>15461280</b>	
					<b>Sub. Total A-D</b>	<b>2,31,30,834</b>	
<b>E</b>	<b>LABORATORY STUDIES</b>						
	<b>Chemical Analysis</b>						
i)	<b>Primary Core Sample + Major oxides (WD XRF)- (oxides+</b>	per sample	4.1.17a	4,200	250	1050000	1m sub sampling interval

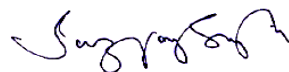
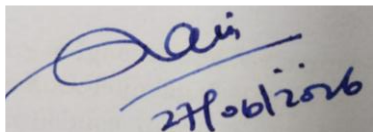

	traces -24 elements) of <b>first phase drilling</b>						
	External (10% Check Sample)	per sample	4.1.17a	4,200	25	105000	
ii)	<b>Primary Core Sample plus Check Sample</b> -Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U, Ta, Ge, Be, Hf, Sn, As, Rb, Th) by ICP-MS (sequential technique) of <b>first phase drilling</b>	per sample	4.1.15	7,400	500	3700000	1m sub sampling interval
	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U, Ta, Ge, Be, Hf, Sn, As, Rb, Th) by ICP-MS (sequential technique) External (10% Check Sample)	per sample	4.1.15	7,400	50	370000	
	<b>Primary Core Sample plus Check Sample</b> - Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U, Ta, Ge, Be, Hf, Sn, As, Rb, Th) by ICP-MS (sequential technique) <b>second phase drilling</b>	per sample	4.1.15	7,400	1,200	8880000	no. of samples to be revised after first phase of drilling
	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U, Ta, Ge, Be, Hf, Sn, As, Rb, Th) by ICP-MS (sequential technique) <b>second phase</b>	per sample	4.1.15	7,400	120	888000	

	<b>drilling</b> External (10% Check Sample)						
					<b>Sub. Total-E</b>	<b>14993000</b>	
<b>F</b>	<b>Physical &amp; Petrological Studies</b>	per sample					
i)	Preparaion of thin section	per sample	4.3.1	500	10	5000	
ii)	Study of thin section with digital photographs	per sample	4.3.4	2800	10	28000	
iii)	Bulk Density	per sample	4.8.1	2,500	15	37500	
iv)	XRD analysis for identification of minerals (Random)	per sample	4.5.2	4000	10	40000	
					<b>Sub. Total-F</b>	<b>110500</b>	
					<b>Total A to F</b>	<b>3,82,34,334</b>	
<b>G</b>	<b>Geological Report Preparation</b>	<b>soft copy</b>	<b>5.2</b>	Total cost exceeding Rs. 150 lakhs		<b>7,50,000.00</b>	
<b>H</b>	<b>Peer review Charges</b>					<b>30,000</b>	
<b>I</b>	<b>Preparation of Exploration Proposal ( soft copy)</b>	<b>soft copy</b>	<b>5.1</b>	2% of the Cost or Rs. 5.0 Lakhs whichever is less		<b>5,00,000</b>	
<b>J</b>	<b>Total Estimated Cost without GST</b>					<b>3,95,14,334.00</b>	
<b>K</b>	<b>Provision for GST (18%)</b>					<b>71,12,580.12</b>	
<b>L</b>	<b>Total Estimated Cost with GST</b>					<b>4,66,26,914.12</b>	
<b>M</b>	<b>Total Estimated Cost with GST</b>				<b>or Say Rs. In Lakhs</b>	<b>466.27</b>	
<b>Note:</b>							
<b>1</b>	<b>Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.</b>						


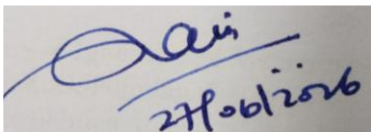





2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing Govt. of India rules/guidelines on procurement.	
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMEDT SoC and Item no. 6 of NMEDT SoC.	
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.	

**Timeline- Preliminary exploration (G3) for Vanadium, Scandium, Gallium and associated minerals in and around Satoli Block, Bidar district, Karnataka**

S. No.	Months	1	2	3	Review	4	5	6	Review	7	8	9	Review	10	11	12			
1	Camp Setting																		
2	Geological Mapping, Sampling & Topographic survey (Drone)																		
3	Drilling (1 rig)																		
4	Chemical Analysis (core Sample)																		
5	Physical & Petrological Studies																		
6	Camp Winding																		
7	Report Writing with Peer Review																		

**Agenda 31.1.11 Preliminary exploration (G3) For REE and associated minerals in and around Kemuniya block, Bhilwara District, Rajasthan.**

**ID: ME/DD/G3/RJ/26-27/026**

**[Implementing Agency: M/s GEOEXPLORE PVT. LTD]**

**Area: 4.30 sq. km.**

- a) The proposed block of 4.30 sq. km area for preliminary exploration (G3), falls in Survey of India Toposheet no. 45K/3, in parts of Bhilwara district, Rajasthan.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	The proposed Kemuniya Block (G3 stage) for Rare Earth Elements (REE) and associated minerals, put forward by GeoExpOre Private Limited, is entirely based on bedrock samples (BRS) collected by GSI during Large-Scale Mapping (LSM) in FS 2018-19. Within the proposed Kemuniya block, GSI collected total 34 BRS. REE values in these samples are varying from 27.48 ppm to 3434.93 ppm with an average of 956.36 ppm. Out of these 34 samples, 09 samples contain more than 1500 ppm total REE, with 06 of them clustered in the SE corner of the proposed area
2	AMD	There is no ongoing exploration / reconnaissance project.
3	MECL	No overlapping with the ongoing or completed blocks of MECL.
4	State DGM	The proposal area does not conflict with any mineral concessions and litigations other than 257.8363 hectares part of proposed area conflicting with Aravalli status as per FSI report, which is sub-judice at Hon`ble Supreme Court.
5	NMEDT	There is no overlapping with the latest NMEDT Funded projects.

- c) The committee observed that there is an overlap of the proposed block area with the Aravalli status as per FSI report, which is sub-judice at Hon`ble Supreme Court of India. In view of this comment from DGM Rajasthan the committee did not recommend the proposal.

**Recommendations of TCC-II**

***The Committee did not recommend the proposal, as approximately 257.84 hectares of the proposed block area overlap with the Aravalli area identified in the FSI report, the matter being sub judice before the Hon`ble Supreme Court of India, as reported by DGM Rajasthan.***

### 31.2 Review of Ongoing Procurement Projects & Timeline Extension

**Agenda 31.2.1 Financial assistance from NMEDT funds to procure machinery/ laboratory equipment/instruments etc. aimed at enhancing the exploration activities.**

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

- On recommendation of 68th TCC, this procurement proposal was approved in 37th EC meeting held on 23rd September, 2024.
- Details of the approved procurement.

S. No.	Item Description	Qty.	Amount (₹) (in lakhs)
1	ICP-MS Facility including Microwave Digestion Unit & Water Purifier System	1 unit	160.00
2	Rock Cutting Polishing and Mounting Unit Both for Thin Section & Polished Section.	1 unit	39.12
3	Transmitted and Reflected Light Polarizing Research Microscope with Camera, Image Analyses Software & Workstation.	1 unit	19.12
		<b>Total</b>	<b>218.24</b>
		<b>GST</b>	<b>38.92</b>
		<b>Grand Total (including GST)</b>	<b>257.16</b>

**(Rupees Two crore fifty seven lakh sixteen thousand only)**

- The agency informed that, the purchase cost of 'Rock Cutting Polishing and Mounting Unit both for Thin Section & Polished Section' has exceeded the sanctioned amount by ₹ 44,000/- (excluding GST), however, the purchase cost of other 2 items (i. ICP-MS Facility including Microwave Digestion Unit & Water Purifier System and ii. Transmitted and Reflected Light Polarizing Research Microscope with Camera, Image Analyses Software & Workstation) are within the sanctioned amount. So, the agency requested reappropriation of excess cost of Rock Cutting Polishing and Mounting Unit both for Thin Section & Polished Section to be allowed with any of the other 2 items. After reappropriation, total purchase cost of all the 3 items will be within the total sanctioned amount for procurement of these 3 items.
- The current status of the procurement is as follows:

Sl. No.	Item Description	Current Status	Sanctioned Amount (Lakh Rs.)	Purchase Value (Lakh Rs.)
1	ICP-MS Facility including Microwave Digestion Unit & Water Purifier System	Supply order placed via GEMC on 24.03.2025; Installation Completed; Delivery: 10.09.2025	160.00	150.80
2	Rock Cutting Polishing and Mounting Unit both	Supply order placed via GEM on 29.08.2025; Delivery Completed &	39.12	39.56

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	for Thin Section & Polished Section	Installation under progress; Delivery: 27.12.2025		
3	Transmitted and Reflected Light Polarizing Research Microscope with Camera, Image Analyses Software & Workstation	Supply order placed via GEM on 27.11.2025; Installation Completed; Delivery: 27.03.2026	19.12	17.00
		Sub Total	218.24	207.36
		GST @18%	38.92	37.33
		Total	257.16	244.69

- e) The Committee agreed for reappropriation of excess cost of Rock Cutting Polishing and Mounting Unit both for Thin Section & Polished Section.

### Recommendations of TCC-II

**The Committee agreed for reappropriation of excess cost of ₹ 44,000/- (excluding GST) of Rock Cutting Polishing and Mounting Unit both for Thin Section & Polished Section.**

### 31.3 Review of Ongoing Projects/ Completed Project & Timeline Extension

#### Agenda 31.3.1 Reconnaissance Survey (G4) for Rare Earth Elements and Rare Metals in the Meghawas–Nagana area, Barmer District, Rajasthan.

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

- The project was approved in 42nd EC meeting held on 2nd June, 2025 with approved cost of ₹ 30,47,319/- (including GST) within timeline of 5 months up to 30th November, 2025. During the review of the project in 16th TCC-II meeting held on 3rd & 6th November, 2025 the Agency requested for timeline extension of 3 months for completion of the project up to 28th February, 2026. Subsequently, the Committee approved timeline extension of 3 months up to 28th February, 2026. The TCC-II in 23rd meeting agreed for the timeline extension up to 30th April 2026 and in 28th meeting agreed for timeline extension up to 30th June 2026 for allotment of peer reviewer and GR submission.
- The agency informed the committee that the final Geological Report (GR) has undergone peer review, and all corrections/modifications suggested by the peer reviewer had been duly incorporated in the report.
- In view of the above the Committee agreed for submission of final Geological Report (GR) within the stipulated timeline for project completion.

### Recommendations of TCC-II

**The Committee agreed for submission of final Geological Report (GR) within the stipulated timeline for project completion.**

#### Agenda 31.3.2 Reconnaissance (G4) for Gold in Jojobera-Ulihurang Block, Arki, Block, Khunti District, Jharkhand.

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

- a) The project was recommended in 3rd meeting of TCC-II, NMEDT, held in 5th and 6th December, 2024 and approved in 39th EC meeting held in 24th January, 2025 at an approved cost of ₹113.00 Lakh (including GST) for the time schedule of 10 months up to 23rd December, 2025. The project was reviewed in 22nd meeting of TCC-II held on 4th and 5th February, 2026, wherein the Committee recommended revised project cost from ₹113.32 lakh to ₹25.99 lakh due to pre-closure of the project and timeline extension for 2 months up to 30th April 2026. The Committee observed discrepancies between the data presented during the project progress presentation and the figures reflected in the revised cost sheet. The agency was asked to clarify the inconsistencies and furnish a detailed justification addressing the discrepancies in the revised project costing.
- b) In the present meeting, the agency requested for peer review of the final geological report (GR) and requested timeline extension up to 31st July, 2026.
- c) The committee agreed to the peer review of the final Geological Report (GR) and advised the agency to seek allotment of a Peer Reviewer from NMEDT.
- d) The agency may submit the GR after completion of the peer review process, and no further review of the final GR by TCC will be required after the peer review. The Committee also recommended timeline extension up to 31st July, 2026.

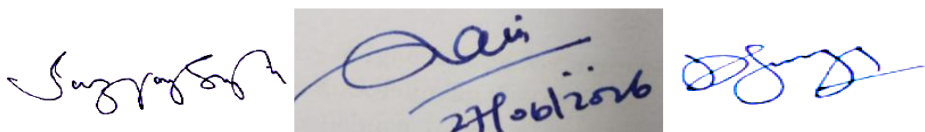
**Recommendations of TCC-II**

***The Committee agreed for peer review of final Geological Report (GR) and recommended the proposal for approval of PSC for timeline up to 31st July, 2026.***

**Agenda 31.3.3 Reconnaissance survey (G4) for Gold in Hurungdah-Tamar Ranchi-Arki-Khunti-Kuchai area, Saraikela-Kharsawan District, Jharkhand.**

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

- a) The project was recommended in 6th TCC-II meeting held on 27th and 28th February and 6th March, 2025 and approved in 41st EC held on 11th March, 2025 at an approved cost of ₹ 215.52 Lakh (including GST). The sanction order was issued on 19th March, 2025 with the time schedule of 10 months up to 18th January, 2026.
- b) The project was reviewed in 22nd meeting of TCC-II held on 4th and 5th February, 2026, wherein the Committee recommended revised project cost from ₹215.52 lakh to ₹13.54 lakh due to pre-closure of the project and timeline extension for 2 months up to 30th April 2026.
- c) In the present meeting, the Agency requested for peer review of the final geological report (GR) and requested timeline extension up to 31st July, 2026.
- d) The Committee agreed to the peer review of the final Geological Report (GR) and advised the Agency to seek allotment of a Peer Reviewer from NMEDT. The Agency may submit the GR after completion of the peer review process, and no further review of the final GR by TCC will be required after the peer review. The committee also recommended timeline extension up



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to 31st July, 2026.

### **Recommendations of TCC-II**

***The Committee agreed for peer review of final Geological Report (GR) and recommended the proposal for approval of PSC for timeline extension up to 31st July, 2026.***

### **Agenda 31.3.4 Preliminary exploration (G3) for Magnetite and associated minerals in Pipradih Area, District: Giridih, State, Jharkhand.**

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

- a) The project was recommended in 52nd TCC meeting held on 27th and 28th April, 2023 and approved in the 38th EC Meeting held on 29th November, 2024. The sanction order was issued on 13th December, 2024 with timeline of 8 months up to 12th August, 2025 at an approved cost of ₹147.25 Lakh (including GST). Further, timeline extension of 4.5 months up to 31st December, 2025 was approved in 1st PSC meeting held on 9th October, 2025 for GR submission.
- b) The project was reviewed in 19th meeting of TCC-II held on 16th & 17th December, 2025, wherein the Committee recommended revised project cost of ₹148.27 lakhs and timeline extension for 3 months up to 31st March, 2026 which was subsequently, approved in 4th meeting of PSC held on 13th January, 2026. In 25th TCC-II meeting the committee recommended the proposal for approval of PSC for "timeline extension of 4 month up to 31st July 2026 for submission of the GR".
- c) In the present meeting, the agency informed that geological mapping of 7 sq. km. area on 1:4000 scale has been completed along with magnetic survey in 27.2 L km, excavation of 42 cu. m pit/trench and drilling of 243m in 4 boreholes. Chemical analysis of borehole core samples is under progress. Further, the agency requested approval for 43m of additional drilling in addition to 200m of drilling quantum recommended in 19th meeting of TCC-II.
- d) The Committee opined that the further course of action shall be decided based on the outcome and review of analytical results of the core samples from all 4 boreholes.

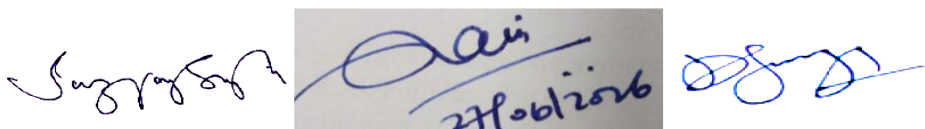
### **Recommendations of TCC-II**

***The Committee opined that the further course of action shall be decided based on the outcome and review of analytical results of the core samples from all 4 boreholes.***

### **Agenda 31.3.5 Reconnaissance Survey (G4) for Limestone in and around Amanganj Gunnor-Pawai Area, Panna District, Madhya Pradesh.**

**[Implementing Agency: M/s Engeotech Consultant]**

- a) The project was recommended in 7th TCC-II meeting held on 24th - 25th March, 2025 and approved in the 42nd EC meeting held on 2nd June, 2025. The sanction order was issued on 1st July, 2025 with timeline of 10 months up to 30th April, 2026, at an approved cost of ₹86.22/- Lakh (including GST). The project was reviewed during 22nd meeting of TCC-II held on 4th and 5th February, 2026 where in the committee agreed for commencement



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of drilling in BH nos. 1, 2 and 5 and advised that the further drilling will be decided after review. The project was reviewed again during 24th meeting of TCC-II held on 2nd and 3rd March, 2026, wherein the committee recommended a revised cost ₹ 44.96 Lakh against the approved cost of ₹ 86.22 Lakh due to closure of further work based on non- intersection of limestone band in two drilled boreholes BH-2 and BH-5.

- b) During its review in 27th TCC-II meeting held on 13th and 23rd April, 2026 the committee recommended timeline extension of 2 months up to 30th June, 2026 for peer review and final submission of geological report (GR). Subsequently it was approved in 8th PSC meeting held on 30th April, 2026.
- c) In the present meeting, the Agency informed that the entire approved quantum of work has been completed. Further, the peer review of the final Geological Report (GR) has been carried out, and all corrections/modifications suggested by the peer reviewer have been incorporated in the GR.
- d) The Committee agreed for submission of final geological report (GR) within stipulated timeline for project completion.

#### **Recommendations of TCC-II**

***The Committee agreed for submission of final geological report (GR) within stipulated timeline for project completion.***

#### **Agenda 31.3.6 Preliminary Exploration (G3) in Jhalauthar Phosphorite block for Rock Phosphate, in Bada Malehra Taluka, Chhatarpur District, Madhya Pradesh.**

**[Implementing Agency: M/s Engeotech Consultant]**

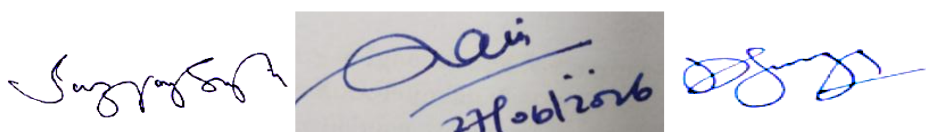
- a) The project was recommended by 67th TCC held on 24th, 25th and 26th July, 2024 and approved in 37th EC meeting held on 23rd September, 2024. The Sanction Order was issued on 30th October, 2024 with timeline of 12 months up to 29th October, 2025 at an approved cost of ₹172.01 Lakh (including GST). The committee recommends the proposal for the approval of EC for extension of timeline for 8 months up to 28 June 2026 for report submission in 11th TCC-II meeting. During its review in 20th TCC-II meeting held on 2nd and 5th January, 2026 the committee recommended the agency to undertake three boreholes in the first phase, one at Badi Jhalauthar (NBH-4) and two at Choti Jhalauthar (NBH-1 and NBH-5).
- b) In the present meeting, the agency informed that mapping and sampling work have been completed in the project. The agency further informed that it has applied for forest permission in Parivesh portal for drilling and application is pending at DFO. At present, the issuance of NPV for the current proposal is under progress. So, the agency requested a timeline extension up to 31st May 2027 for completion of project.
- c) The Committee agreed for timeline extension up to 31st May 2027 due to forest issue.

#### **Recommendations of TCC-II**

***The Committee recommended the proposal for approval of PSC for timeline extension up to 31st May 2027 for project completion due to forest issues.***

#### **Agenda 31.3.7 Preliminary Exploration (G3) for REE mineralization in Nauser Bamni Dhani Dandali block District- Barmer, Rajasthan.**

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



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- a) The project was recommended in 2nd meeting of TCC-II held on 22nd and 23rd October, 2024 and approved in 38th EC meeting held on 29th November, 2024. The Sanction Order was issued on 13th December, 2024 with timeline of 14 months up to 12th February, 2026 at an approved cost of ₹610.95 Lakh (including GST). During the project review in 25th TCC-II meeting held on 17th and 18th March, 2026 the Committee advised the agency to undertake resource estimation and accordingly conclude the project and submit the Geological report.
- b) The Agency informed that the peer review of the final Geological Report (GR) has been carried out, and all corrections/modifications suggested by the peer reviewer have been incorporated in the GR. The Agency requested timeline extension up to 30th June, 2026 for submission of final GR.
- c) The Committee agreed for timeline extension up to 30th June, 2026 for submission of final GR.

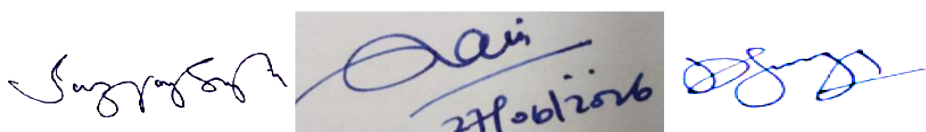
### **Recommendations of TCC-II**

***The Committee recommended the proposal for approval of PSC for timeline extension up to 30th June, 2026 for submission of final GR.***

### **Agenda 31.3.8 Reconnaissance Survey (G4) for REE & associated minerals in and around Langmipi Laching Thing Area District: West Karbi Anglong, Assam.**

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

- a) The project was recommended in 1st TCC-II held on 26th and 27th September, 2024 and approved in the 38th EC meeting held on 29th November, 2024. The sanction order was issued on 13th December, 2024 for a scheduled timeline of 15 months up to 12th March, 2026 at an approved cost of ₹ 457.16 /- Lakhs (Including GST). During the project review in 25th TCC-II meeting held on 17th and 18th March, 2026 the committee opined that the project shall be reviewed only after receipt of the complete analytical results.
- b) The agency informed that geological mapping of 124.68 sq. km. area on a 1:12,500 scale has been completed, along with 90 cu. m. of pitting, collection of 50 Bed Rock Samples (BRS), 65 pit/soil samples, and 58 stream sediment samples. The chemical analysis of the collected samples is under progress. Further, the agency sought permission for commencement of drilling activities under the project. The agency requested for timeline extension up to 12 September 2026.
- c) The agency in its justification informed the committee that the project experienced delays due to the late receipt of the No Objection Certificate (NoC) from KAAC, which postponed the commencement of field activities. Further delays were caused by adverse monsoonal conditions, rugged hilly terrain, dense forest cover, and limited road connectivity, all of which restricted access to the area, hampered movement of personnel and equipment, and affected the timely execution of exploration works.
- d) The committee opined that the elevated REE values are isolated occurrences and do not indicate any defined zone, lack of particular trend, pattern and no conducive control was observed. Therefore, the committee did not agree to the commencement of drilling activities based on isolated values in the



project and advised the agency to complete the remaining approved quantum of work, excluding drilling activities.

- e) Due to exclusion of drilling activities in the project, the committee based on the above discussions asked the agency for cost revision after completion of the remaining approved quantum of work in the project.

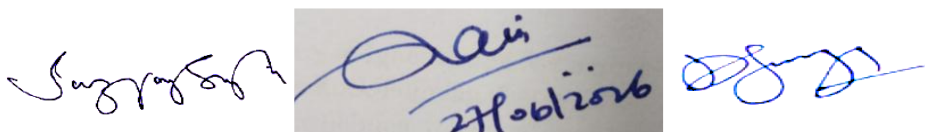
#### **Recommendations of TCC-II**

- a) ***The Committee recommended the proposal for approval of PSC for timeline extension up to 12 September 2026 for completion of project and submission of Geological report.***
- b) ***The Committee did not agree to the commencement of drilling activities in the project as the elevated REE values were isolated occurrences and did not indicate any defined zone. The committee advised the agency to complete the remaining approved quantum of work, excluding drilling activities.***

#### **Agenda 31.3.9 Preliminary Exploration (G3) for Magnetite and associated Vanadium mineralization in Khursipar Block, Gondia District, Maharashtra.**

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

- a) The project was recommended in 74th meeting of TCC-I held on 20th and 21st February, 2025 and approved in 41st EC meeting held on 11th March, 2025 for ₹273.10 Lakh with timeline of 12 months up to 18th March, 2026. The project was reviewed in 16th TCC-II held on 3rd & 6th November where the committee agreed for commencement of drilling in 7 boreholes and trenching and in the 19th TCC-II meeting 16th & 17th December, 2025 the committee did not agree for outsourcing of drilling.
- b) Further, during the project review in 21st TCC-II meeting held on 19th and 22nd January, 2026, the Committee recommended a revised cost from ₹273.10 lakh to ₹270.40 lakh due to outsourcing of the drilling work and timeline extension of 3 months up to 17th June, 2026 for completion of the project which was subsequently approved in 5th meeting of PSC held on 9th February, 2026.
- c) The agency informed that geological mapping of 2.82 sq. km. area on a 1:2000 scale has been completed, along with topographical survey and collection of 75 surface samples. Further, the agency requested timeline extension up to 16th December, 2026 for completion of drilling, chemical analysis and submission of final geological report (GR) including the Peer Review process. The agency its justification informed the committee that project was delayed due to non-availability of in-house drilling rigs, the requirement of Gram Sabha approval, resistance from local stakeholders and villagers, and associated procedural and socio-administrative delays, which prevented timely commencement of drilling activities despite mobilization of resources and availability of statutory permissions.
- d) The agency further informed that the north band has been extended by an additional 300m along strike, as confirmed through trenching, and so requested for drilling of 2 boreholes on the southern side of the north band.
- e) The committee agreed for drilling in 7 approved boreholes and one borehole out of two requested and timeline extension up to 16th December, 2026



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## Recommendations of TCC-II

***The Committee recommended the proposal for approval of PSC for timeline extension up to 16th December, 2026 for completion of drilling, chemical analysis and submission of final geological report (GR) including the Peer Review process.***

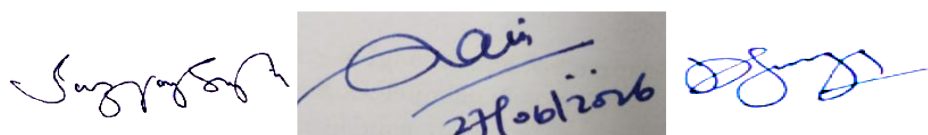
### **Agenda 31.3.10 Reconnaissance Survey (G4) for Phosphorite and associated minerals in Kaphalda Block, Dehradun and Tehri Garhwal Districts, Uttarakhand.**

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

- a) The project was recommended in 5th TCC-II meeting held on 27th, 28th and 29th January, 2025 and subsequently approved in the 40th EC Meeting held on 21st February, 2025. The sanction order was issued on 5th March, 2025 for a scheduled timeline of 12 months up to 4th March, 2026 with an approved cost of ₹318.45/- Lakh (including GST). The project was reviewed during 26th TCC-II meeting held on 1st and 2nd April, 2026 wherein the Committee opined that the project work should be reviewed after receipt of the complete analytical results for taking any further decision.
- b) In the present meeting the agency further informed that geological mapping of 16.68 sq. km are has been done on 1:12,500 scale. Total 121 Nos, Surface + Trench samples were had been analysed for 10 Radicals i.e. P<sub>2</sub>O<sub>5</sub>%, CaO%, MgO%, SiO<sub>2</sub>%, Al<sub>2</sub>O<sub>3</sub>%, Fe<sub>2</sub>O<sub>3</sub>%, K<sub>2</sub>O%, MnO%, LOI%. and 11 Samples have been analyzed with trace elements in ICP-MS. Additionally, 08 samples were taken for XRD analysis while sampling and chemical analysis is under progress. Only one sample BR/99 showed P<sub>2</sub>O<sub>5</sub> = 3.10%, 80% of samples are below 0.25%. ICPMS analysis results were dominated by LREEs. Further, as no significant phosphatic concentration was encountered in the surface samples and the trench sample results were awaited, drilling had not been undertaken. Further, the agency requested timeline extension up to 30th September, 2026 to complete the remaining trenching, including chemical analysis, and to submit the final geological report.
- c) The agency in its justification informed the committee that the project was delayed due to two consecutive cloudburst-induced natural disasters that damaged the only access roads to the block, causing prolonged inaccessibility. The rugged Himalayan terrain, dense forest cover, steep slopes, and absence of alternative routes further aggravated the situation, delaying commencement of field activities and subsequent exploration work.
- d) The committee based on the discussions opined that there was not ample support of available analysis results to recommend starting of borehole drilling. The committee advised pre-closure of the project due to insignificant values of Phosphorite. Further it advised the agency to revise its cost sheet during final review of the chemical analysis results.

## Recommendations of TCC-II

- a) ***The Committee recommended the proposal for approval of PSC for timeline extension up to 30th September, 2026 to complete the remaining trenching, including chemical analysis, and to submit the final geological report.***



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- b) The Committee advised pre-closure of the project due to insignificant values of Phosphorite.**

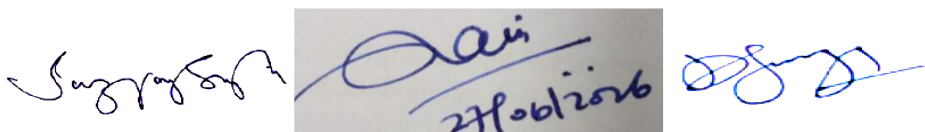
**Agenda 31.3.11 Preliminary Exploration (G3) for Diamond in adjacent area of Angira-B and Angira-A Block, Chhatarpur District, Madhya Pradesh.**

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

- a) The project was recommended in 58th TCC, held on 30th & 31st October, 2023 and approved in 32nd EC meeting held on 6th December, 2023. The sanction order was issued on 12th December, 2023 with timeline of 18 months at an approved cost of ₹ 5,61,53,521/-. During the 1st TCC-II meeting held on 26th and 27th September, 2024, the Committee recommended cross checking of lamproite samples, infill ground magnetic and TDM survey followed by geochemical soil sampling. In the 2nd TCC-II meeting the committee recommended the proposal for additional Magnetic survey and Electromagnetic (TDEM) survey in the block with an estimated total cost of the project at 616.20 Lakh (including GST). During the project review in 15th TCC-II meeting held on 23rd & 24th October, 2025, the committee advised the agency to initially undertake BH-1 and BH-9.
- b) The agency informed the committee that the proposed drilling locations fell within forest land; therefore, statutory forest clearance was mandatory prior to commencement of drilling operations. Accordingly, the forest clearance proposal had been submitted through the PARIVESH Portal on 28.11.2025 (Proposal No. FP/MP/SRY/559964/2025).
- c) Although the approved project timeline expired on 11.06.2025, drilling could not be initiated due to non-receipt of the mandatory forest clearance, despite continuous follow-up by MECL with the concerned Forest Authorities.
- d) Subsequently, the required forest permission was granted by the Divisional Forest Officer, Chhatarpur, vide Letter No. 1941/Tech./2026 dated 10.06.2026. Following receipt of the clearance, arrangements for mobilization of drilling resources were initiated, and drilling was scheduled to commence in the last week of June 2026.
- e) The agency in its justification informed the committee that it had completed all activities permissible prior to drilling, and the project was delayed solely due to the time taken in obtaining mandatory forest clearance for drilling within forest land. Despite timely submission of the forest clearance proposal and continuous follow-up with the concerned authorities, drilling activities could not commence until statutory approval was granted process. The agency further requested for timeline extension up to 28th February 2027 to facilitate completion of the approved drilling programme and submission of the final Geological Report
- f) Considering the above, the Committee agreed to recommend timeline extension up to 28th February, 2027, for completion of the approved drilling programme and submission of the final Geological Report

**Recommendations of TCC-II**

***The Committee recommended the proposal for approval of PSC for timeline extension up to 28th February, 2027 for completion of the approved drilling programme and submission of the final Geological Report***



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**Agenda 31.3.12 Preliminary Exploration (G3) for Diamond in Angira B Block,  
District: Chhatarpur, Madhya Pradesh.**

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

- a) The project was recommended in 53rd TCC, held on 22nd – 25th may, 2023 and approved in 30th EC meeting held on 6th June, 2023. The sanction order was issued on 26th June, 2023 with timeline of 15 months at an approved cost of ₹ 494.12/- Lakhs. Progress of the project was reviewed in 66th TCC meeting during 24th – 25th June, 2024 where the Committee suggested to take up 4 vertical BH (400m). The TCC-II in its 4th meeting recommended for the timeline extension of 8 months up to 25.5.2025.
- b) The agency in its justification informed the committee that the project was delayed due to the time required for obtaining mandatory forest clearance for drilling within forest land and subsequent restrictions on field activities arising from the All-India Tiger Estimation (AITE-2026) programme in the Panna Tiger Reserve area. These statutory and administrative constraints, beyond the control of MECL, delayed the commencement of drilling operations.
- c) The agency informed the committee that following receipt of forest permission, exploration activities commenced on 19.10.2023. During the approved project period, MECL completed detailed geological mapping, ground magnetic and TDEM surveys, and integrated interpretation of geological and geophysical data. Based on the progress reviewed in the 66th TCC Meeting (June 2024), exploratory drilling of four boreholes (400 m) was recommended.
- d) The agency further informed that out of the four approved boreholes, PBH-01 was completed up to a depth of approximately 110 m and intersected kimberlite, indicating the presence of the target mineralized body. Drilling in PBH-04 is currently in progress. Based on the encouraging drilling results obtained so far, continuation of the approved drilling programme is considered essential for systematic delineation and evaluation of the kimberlite body. The agency requested for timeline extension up to 31st January 2027.
- e) Considering above facts, the Committee advised continuation of the drilling activities in the project. Timeline extension up to 31st January, 2027 was recommended for completion of the project.

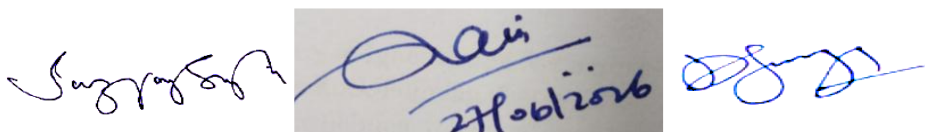
**Recommendations of TCC-II**

***The Committee recommended the proposal for approval of PSC for timeline extension up to 31st January, 2027 for completion of the project.***

**Agenda 31.3.13 Preliminary Exploration (G-3) for Copper and Associated minerals in Singhana - Bodhan Block (3.36 sq. km), Jhunjhunu District, Rajasthan.**

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

- a) MECL informed that the project was recommend in 6th TCC-II held on 27th and 28th February, 2025 & 6th March, 2025 and it was approved in the 41st EC Meeting held on 11th March, 2025. The sanction order was issued on 19th March, 2025 with timeline of 15 months up to 18th June, 2026 at an approved cost of ₹10,54,42,905/-. During the review of the project in 21st



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TCC-II meeting held on 19th and 22nd January, 2026 the committee advised commencement of drilling in 4 boreholes including 3 boreholes in southern zone in 400m spacing and 1 borehole in central zone and Subsequent drilling after review.

- b) In the present meeting the agency informed that drilling work was commenced in the block area on 15th May, 2026 and presently BH no. MSB-01 (46m) is in progress. So far, geological mapping of 3.36 sq. km. area on 1:2000 scale along with topographical survey and geophysical survey has been completed. The agency had completed Phase-I exploration activities between June and November 2025, comprising detailed geological mapping, topographic survey, and ground geophysical surveys (IP, TDEM, and Gravity) over 3.36 sq. km. The geophysical investigations delineated three potential target zones at depths of 150–350 m for exploratory drilling.
- c) The agency in its justification informed the committee that the project was delayed because the proposed drilling locations were situated in agricultural fields with standing crops, preventing timely commencement of drilling activities. The drilling commenced on 15th May 2026. The agency requested timeline extension up to 18th December, 2026 for completion of drilling and associated field work.
- d) Considering the above facts presented by the agency the Committee advised continuation of the drilling activities in the project. Timeline extension up to 18th December, 2026 was recommended for completion of the project. Results of borehole core samples will be reviewed once available.

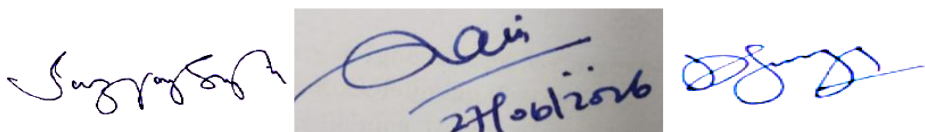
### **Recommendations of TCC-II**

***The Committee recommended the proposal for approval of PSC for timeline extension up to 18th December, 2026 for completion of drilling and associated field work.***

### **Agenda 31.3.14 Preliminary Exploration (G-3) for REE and Associated Minerals in Borana Block, Bhilwara District, Rajasthan.**

**[Implementing Agency: M/s. GEOEXPORE PVT. LTD]**

- a) The project was recommended in 66th TCC meeting held on 24th & 25th June 2024 and approved in 35th EC held on 16th May 2024. The sanction order was issued on 10th June 2024 for scheduled time of 12 months up to 9th June 2025 with an approved cost of ₹1,46,98,108/-. In 4th meeting of TCC-II held on 26th & 27th December 2024, additional 74m drilling and additional chemical analysis was recommended, and the project cost was revised to ₹166.30 Lakh. A revised sanction order was issued on 21st February 2025 in this regard.
- b) Timeline extension of 5 months up to 9th November 2025 was also recommended in 8th meeting of TCC-II held on 28th, 29th April & 2nd May 2025 and approved in 42nd EC meeting held on 2nd June 2025. Further, the project was reviewed in 11th TCC-II meeting held on 23rd, 24th, 25th & 30th July 2025 and 16th TCC-II meeting held on 3rd & 6th November 2025. In 16th TCC-II meeting second timeline extension of 3 months up to 8th February 2026 was recommended and it was approved in 3rd PSC held on



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15th December 2025.

- c) In the 24<sup>th</sup> TCC-II meeting, the committee advised completion of the remaining work followed by peer review of the final geological report. Timeline extension of 3 months up to 7th May 2026 was also recommended for GR submission. and it was approved in 7th PSC held on 8th April 2026.
- d) Subsequently, In the 28<sup>th</sup> TCC-II meeting, agency informed that, final geological report has been sent for Peer Review on 23rd April, 2026, and requested for timeline extension of 2 months up to 6 th July, 2026, for Peer Review and submission of final GR. In the view of above, the committee recommended for timeline extension of 2 months up to 6th July 2026 for GR submission. and it was approved in 9th PSC held on 3rd June 2026.
- e) Further, the agency informed the Committee that the comments of the Peer Reviewer had been received and duly incorporated into the Geological Report. The agency further requested an extension of the project timeline up to 31<sup>st</sup> July 2026 for submission of final Geological Report.

**Recommendation TCC-II**

***The committee recommended the proposal for approval of PSC for Timeline extension up to 31st July 2026 for submission of final Geological Report.***

**31.4 Technical Evaluation for In-Principle Approval**

**Agenda 31.4.1 Preliminary exploration (G3) for Rare Earth Elements and associated Critical minerals in Ramdevji ki Beri east Block, Balotra District, Rajasthan.**

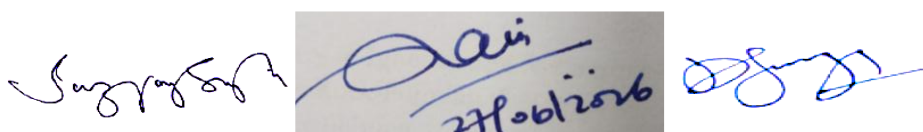
**ID: ME/IN/G3/RJ/P/26-27/065**

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

**Area: 2.04 sq. km**

- a) The proposed preliminary exploration of 2.04 sq. km area falls in Survey of India Toposheet nos. 45C/5 and 45C/6 in parts of Balotra District, Rajasthan.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	At present no G3 stage exploration project is going on in the proposed area. Based on the analytical results obtained from GSI's G4 project titled "Reconnaissance Survey for Rare Earth Elements and Associated Mineralisation around Sainji ki Beri-Meli Area, Northern Part of Siwana Ring Complex, Barmer District, Rajasthan (G4)", the proposed area appears to be geologically favourable for Rare Earth Element (REE) mineralisation. The analytical data indicate significant TREE+Y values ranging from 1216.68 ppm to 8474 ppm in samples collected from the area, based on these encouraging analytical values, the proposed block appears to be prospective for REE and associated mineralisation.



2	MECL	The block is not overlapping with MECL explored block and ongoing blocks.
3	State DGM	This block does not conflict with any mineral concessions, but 2.01 sq. km. area of this proposal block conflicts with Atomic Mineral Block 04, 0.71 sq. km. area of this proposal block conflicts with NPEA block and 0.01 sq. km. area of this proposal block falls in forest.
4	AMD	The proposed block falls within the notified Bhatikhera Block of AMD (map enclosed), wherein REO resource of ~94,000 tonnes over an area of 0.50 sq km has been established. Geological Report (GR) on exploration carried out by AMD in Bhatikhera area, Siwana Ring Complex has been submitted to Government of Rajasthan and Ministry of Mines vide letter dated 20.12.2024. Siwana Ring Complex is under active exploration for U & Critical minerals by AMD. In view of the above, the proposed block is not recommended.
5	NMEDT	Proposed block falls within Siwana Ring complex and shows slight overlap with the Geoexpore project (Yellow) with Proposed block (Red). Overlaps with ongoing FS 2026-27 project Reconnaissance Survey for sub-surface REE & RM mineralisation in and around Kusip-Meli area, Siwana Ring Complex and Reconnaissance Survey for sub-surface REE & RM mineralisation in and around Asotra-Lalana Area, Siwana Ring Complex.

- c) The committee considering the AMD comment did not accord in-principle approval to the project.

#### Recommendations of TCC-II

*The Committee did not agree to accorded in-principle approval to the proposal based on the AMD comments.*

**Agenda 31.4.2 Preliminary exploration (G3) for Vanadium and Barium and associated minerals in Gawai- Maulanajakh block, Champawat district of Uttarakhand.**

**ID: ME/IN/G3/UK/P/26-27/068**

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

**Area: 3.41 sq. km**

- a) The proposed reconnaissance survey (G4) of 3.41 sq. km area falls in Survey of India Toposheet nos. 530/15 in Champawat district of Uttarakhand.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	At present, a G3 stage of investigation is taken up by SU:UK, GSI for FS-2026- 27 in the south eastern part of the proposed block. However, the block under study does not overlaps with the

		proposed exploration block of NPEAs. During Annual programme of GSI, FS 2024-25, a G-4 stage investigation over a 50 sq. km area for Vanadium in Mulakot area Champawat district, Uttarakhand. Thick carbonaceous phyllite bands are present in the southern portions of the field area around Mulakot, Patangaon, Dungra, Chantola areas. The values of Vanadium ranges from 0 ppm to 4260 ppm. The Vanadium concentration ranges between 2000 to 3000 ppm in 11 samples. It varies between 1000 to 2000 ppm in 18 samples.
2	MECL	The block is not overlapping with MECL explored block and ongoing blocks.
3	State DGM	Comments not available
4	AMD	There is no ongoing exploration / reconnaissance project.
5	NMEDT	No NMEDT funded blocks present in and around the proposed block as per NGDR Portal. Shows fully overlapping with Exploration block of GSI_G4_FS_2024-2025 (Reconnaissance survey for Vanadium and allied metals mineralisation in Almora Group of rocks, Chaukhuri Mulakpt areas)

- c) The agency informed that a G4 stage reconnaissance survey for vanadium and associated metal mineralization was conducted by GSI over 50 sq. km. in the Almora Group of rocks, Chaukahuri–Mulakot areas, Uttarakhand, during FS 2024-25. The study identified vanadium and barium mineralization associated with carbonaceous phyllite horizons. Bedrock samples recorded V values of 10-2842 ppm (avg. 537 ppm) and Ba values of 82-7821 ppm (avg. 2014 ppm), while channel samples showed higher values of V (93-4260 ppm; avg. 993 ppm) and Ba (410-28,529 ppm; avg. 4733 ppm). Anomalous Cu, Pb, Zn, and Cr values indicate a polymetallic geochemical signature, possibly related to hydrothermal mineralization.
- d) The Committee observed that the channel length in the referenced previous work was limited to only 1 m; therefore, the channel sample results are inadequate for delineating the actual width and continuity of the potential mineralized zone. The committee observed that the agency has already an ongoing G3 project Chaura-Maunkanda block for Vanadium, Graphite and Barium in the nearby east.
- e) The committee advised the agency to revisit the field and make channel sampling of adequate length to demarcate the proper width of the carbonaceous phyllite. The committee did not agree to accords the in-principle approval to the proposal and advised the agency to come up with new proposal after incorporating the suggestion made by the committee.

### Recommendations of TCC-II

*The committee did not agree to accord the in-principle approval as the channel sample length from the referenced GSI report 2024-25 was inadequate for demarcating the width of carbonaceous phyllite bands. It further advised the agency to come up with new proposal after incorporating the suggestion made by the committee.*

### Agenda 31.4.3 Preliminary Exploration (G3) for REE and associated mineralization in Nimale ki Pahadi, Thapan, Muthli block, Barmer District, Rajasthan.

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

**Area: 1.96 sq. km**

- a) The proposed reconnaissance survey (G4) of 1.96 Sq. Km sq. km area falls in Survey of India Toposheet nos. 45C/6 in parts Barmer District, Rajasthan.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	The proposed block overlaps with two approved G3 stage investigation of FS 2026-27, Muthli and NE of Muthli block.
2	MECL	The block is not overlapping with MECL explored block and ongoing blocks.
3	DGM	Comments not available
4	AMD	There is no ongoing exploration / reconnaissance project.
5	NMEDT	The proposed block near the N18 block in Siwana Ring Complex. No NMEDT funded blocks present in and around the proposed block as per NGDR Portal

- c) The Committee observed a complete overlap of the proposed block with two approved G3 stage investigation of FS 2026-27, Muthli and NE of Muthli block of GSI. In view of this point the committee did not agree for in-principle approval.

### Recommendations of TCC-II

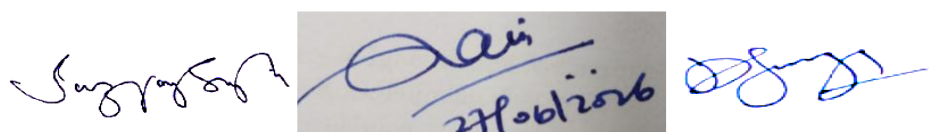
*The committee did not accord in-principle approval to the proposal due to complete overlap based on the GSI comment.*

### Agenda 31.4.4 Reconnaissance Survey (G4) for Ionic – Rare Earth Element (I REE) in Rapur Block, SPSR Nellore & Tirupati Districts, Andhra Pradesh,

**ID: ME/IN/G4/AP/P/26-27/078**

**[Implementing Agency: M/S MIDWEST LIMITED]**

**Area: 100 sq. km**



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- a) The proposed reconnaissance survey (G4) of 100 sq. Km sq. km area falls in Survey of India Toposheet nos. 57 N/8 and 57 N/12 in Nellore & Tirupati Districts, Andhra Pradesh
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	There is no ongoing exploration project for REE within the proposed NPEA area.
2	MECL	No overlapping with the ongoing or completed blocks of MECL.
3	DGM	No departmental exploration carried out. No active projects in the proposed area. Geological and geochemical evidence supports I-REE exploration. No leases or licenses exist in the proposed block
4	AMD	AMD has carried out reconnaissance exploration (G-4 stage) in and around the proposed block for uranium in different phases. Significant surface radioactive zones were delineated along Nagavaripalle Venkataramarajupeta. There is no ongoing exploration / reconnaissance project. AMD does not have baseline / exploration data on the commodity mentioned. In view of known potentiality for uranium in the area, analysis of uranium may be included in the list of elements to be analyzed.
5	NMEDT	No NMEDT funded block in and around the proposed area as per NGDR Portal.

- c) The committee observed the project proposal and work carried out by the agency Midwest Limited has undertaken studies on I-REE deposits and identified the Rapur area as a prospective target due to the occurrence of REE-bearing alkali granites overlain by regolith soils. Initial investigations have reported TREE values of 0.9–1.0% in granites and 0.03–0.3% in regolith soils, along with encouraging REE desorption characteristics.
- d) The committee observed that the agency did not present the evidence based results and ground work information was not geologically presented properly. There was no geological map referenced by the agency and geological facts were not presented properly.
- e) The committee advised the agency to present factual data and refer the previous works carried out by GSI and other exploration agencies in and around the area. It further opined that the geological control was required. The Committee advised the agency to present detailed information on the exploration methodology for Ionic Rare Earth Elements (I-REE) during the next TCC-II meeting, including geological aspects, sample media, sample length, sample collection procedures, analytical results, in-house laboratory processing methodology (complete workflow), and the variation in values observed based on the agency's studies. The Committee further directed the agency to incorporate all available previous data

pertaining to the proposed area in the DPR.

### Recommendations of TCC-II

**The Committee deferred the proposal and advised the agency to provide detailed information on the exploration methodology for Ionic Rare Earth Elements (I-REE), including geological aspects, sample media, sample length, sample collection procedures, analytical results, in-house laboratory processing methodology (complete workflow), and the variation in values observed based on the agency's studies, during the next TCC-II meeting.**

**Agenda 31.4.5 Reconnaissance Survey (G4) for REE & RM mineralization in Lakhana-Tarbod Block, District, Nuapada, Odisha.**

**ID: ME/IN/G4/OD/P/26-27/059**

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

**Area: 100 sq. km.**

- a) The proposed reconnaissance survey of 100 Sq. Km sq. km area falls in Survey of India Toposheet nos. 64L/10 in parts District, Nuapada, Odisha.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	The proposed block is overlapping with G4 stage REE and RM exploration blocks of GSI, Reconnaissance survey for REE, RM and associated elements in the lithounits of Bhela-Rajna Alkaline Complex, in Bhela-Babupalli-Udaybandh area, Nuapara district, Odisha.
2	MECL	A part of the proposed Lakhana-Tarbod block is overlapping with Chormunda Block which is under exploration by MECL.
3	State DGM	The proposed block was partly covered by DoMG during F.S 1963-64. Within the proposed block, occurrences of graphite and Mn are located near Komna, Singari & Biswanathpur & Mahuabhata areas. Pegmatite are located around Jehupali area. But detail assessment is not done systematically. Moreover, the potentiality of REE & RM was not assessed.
4	AMD	There is no ongoing exploration / reconnaissance project
5	NMEDT	Overlap with (Eco-sensitive Zone) ESZ of Sunabeda Wild Life Sanctuary. There are no completed or ongoing NMEDT-funded projects in and around the proposed block.

- c) In 29th TCC-II meeting the Committee deferred the proposal to the upcoming TCC-II meeting and advised the agency to refer to the GSI's G4

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report for REE exploration, of FS 2024-25 and incorporate the available data in the proposal and revise the proposed area by removing the overlapped area with ESZ of Sunabeda Wild Life Sanctuary.

- d) The committee observed that the agency was presenting different block area, then submitted in the proposal and that block was overlapping with the ongoing MECL Chormunda Block block. Further the agency did not give clear information about the overlapping status with ESZ zone area as earlier suggested by the committee. In view of these observations The Committee advised NMEDT to share the details of the area overlapping with the ESZ and MECL block with the agency. The agency was further advised to modify the block boundary accordingly and resubmit the proposal for consideration in the next TCC-II meeting.

#### Recommendations of TCC-II

***The Committee deferred the proposal and advised the agency to modify the block boundary excluding the overlapping areas with ESZ and MECL block and resubmit the proposal for consideration in the next TCC-II meeting.***

#### **Agenda 31.4.6 Preliminary Exploration (G3) For Vanadium and Associated minerals in Dem II block, Keyi Panyor district, Arunachal Pradesh.**

**ID: ME/IN/G3/AR/P/26-27/071**

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

**Area: 1.77 sq. km**

- a) The proposed area of 1.77 sq. km. for preliminary exploration, falls in Survey of India Toposheet no. 83E/10, in parts of Keyi Panyor district, Arunachal Pradesh.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	Currently no exploration / reconnaissance projects related to vanadium and associated minerals are being carried out by the GSI in the proposed NMEDT block. The proposed NMEDT block falls within the G4 block of FS 2018-19
2	MECL	No overlapping with the ongoing or completed blocks of MECL.
3	State DGM	Not Available
4	AMD	There is no ongoing exploration / reconnaissance project.
5	NMEDT	There is no overlapping with the NMEDT Funded projects as per NGDR Portal

- c) The Agency informed that During FS 2018-19, the Geological Survey of India carried out a G-4 stage exploration program for vanadium and associated minerals in the Deed area, Lower Subansiri District, Arunachal Pradesh. The investigation identified two major NE-SW trending

carbonaceous phyllite bands. The first band extends for about 8 km with a thickness of 7-10 m, while the second extends for approximately 7.5 km with an average thickness of around 10 m. In the proposed Dem-II Block, the carbonaceous phyllite band extends for about 2.1 km along strike with a width of approximately 45 m. Geochemical analysis of samples indicated significant vanadium and graphite mineralization. Vanadium values in BRS, channel, and trench samples range from 134-5318 ppm (avg. 1996 ppm), 319-4193 ppm (avg. 1993 ppm), and 319-3867 ppm (avg. 1276 ppm), respectively. Graphite content in BRS, channel, and trench samples ranges from 0.55-22.91% FC (avg. 12.15% FC), 6.9-36.1% FC (avg. 13.7% FC), and 0.1-16.27% FC (avg. 8.57% FC), respectively.

- d) Considering the above, the Committee agreed in-principle approval to the proposal.

#### Recommendations of TCC-II

**The Committee accorded in-principle approval to the proposal and suggested to bring DPR within 2 months.**

#### Agenda 31.4.7 Reconnaissance Survey (G4) for REE & RM mineralization in Mulkalapalle block, Mahabubabad District, Telangana.

**ID: ME/IN/G4/TG/P/26-27/063**

**[Implementing Agency: M/s GMMCO Technology Services Limited]**

**Area: 120 sq. km**

- a) The proposed area of 120 sq. km. for reconnaissance survey (G4), falls in Survey of India Toposheet no. 65C/3, Mahabubabad District, Telangana.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	GSI has not carried out any exploration in the proposed block. However, based on the past baseline (NGCM) data in the given area, this is to mention that total REE values in the Stream sediment/ soil-regolith samples in the granitic country show values ranging from 144 to 1623 ppm indicating secondary enrichment. Hence, the primary source areas/zones having the evolved granites or high strain zones needs to be ascertained. Therefore, reconnaissance project in the proposed block can be taken up for REE RM minerals.
2	MECL	No overlapping with the ongoing or completed blocks of MECL.
3	State DGM	Not available
4	AMD	There is no ongoing exploration / reconnaissance project.

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5	NMEDT	There is no overlapping with the NMEDT Funded projects
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- c) The agency informed that the proposed Mulkalapalle Block targets alkali feldspar granites and associated pegmatites of the Neoproterozoic Palaeoproterozoic Peninsular Gneissic Complex-II (PGC-II) for REE and Rare Metal mineralisation. The area lies along the tectonic contact between the Eastern Ghats Mobile Belt and the Eastern Dharwar Craton, marked by a NE-SW trending shear zone that controls the emplacement of granitic and pegmatitic intrusions and associated REE mineralization. Previous GSI investigations reported significant TREE enrichment in pegmatites (602.68–2644.46 ppm; avg. 1531.70 ppm) with LREE dominance and allanite as the major host mineral. Persistent TREE anomalies (>500 ppm) in composite samples indicate a potential REE system, justifying G-4 level exploration to assess the extent and continuity of mineralization.
- d) The Committee accorded in-principle approval to the proposal and advised the agency to conduct a field visit, collect of 4-5 representative samples, and undertake chemical analysis of the collected samples. The Committee further recommended that the pegmatite samples be analysed using ICP-MS. The DPR may be submitted for technical evaluation along with the analytical results of the collected samples.

**Recommendations of TCC-II**

***The committee approved the proposal in principle and suggested to bring DPR within 2 months and advised the agency to conduct a field visit, collect of 4-5 representative samples, and undertake chemical analysis of the collected samples. The Committee further recommended that the pegmatite samples be analysed using ICP-MS. The DPR may be submitted for technical evaluation along with the analytical results of the collected samples.***

**Agenda 31.4.8 Reconnaissance survey (G4) for Vanadium and associated critical minerals in lateritic rocks of Chitguppa block, Bidar district, Karnataka.**

**ID: ME/IN/G4/KA/P/26-27/057**

**[Implementing Agency: M/s GMMCO Technology Services Ltd]**

**Area: 95 sq. km**

- a) The proposed area of 95 sq. km. for reconnaissance survey (G4), falls in Survey of India Toposheet no. 56G/02, in parts of, Bidar district, Karnataka.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	Two projects have been undertaken by GSI, SU: Karnataka & Goa for exploration activities, which overlap with the proposed NPEA block. The details are as follows: i. Critical Mineral Assessment Programme (CMAP) for assessing the critical mineral potential of lateritic rocks in the Hankuni Block, Bidar District, Karnataka (ongoing project; field season 2026-27).

		ii. Critical Mineral Assessment Programme (CMAP) for assessing the critical mineral potential of lateritic rocks in the Itga Block, Bidar District, Karnataka (under rolling approval for field season 2026–27).
2	MECL	No overlapping with the ongoing or completed blocks of MECL.
3	State DGM	No ongoing exploration/reconnaissance projects related to Vanadium and associated critical minerals in Lateritic rocks exploration in the proposed area.
4	AMD	There is no ongoing exploration / reconnaissance project.
5	NMEDT	There is no overlapping with the NMEDT Funded projects

- c) As per the comments of GSI the proposed area overlaps with 2 projects of FS 2026-27, under Critical Mineral Assessment program (CMAP).c In view of the above the Committee did not agree to accord in-principle approval to the proposal.

**Recommendations of TCC-II**

***The Committee did not accord in-principle approval to the proposal as the proposed area overlaps with 2 projects of GSI FS 2026-27, under Critical Mineral Assessment program (CMAP)***


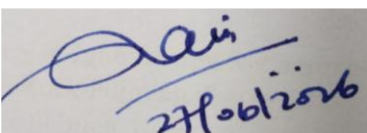

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**List of participants attended 31<sup>st</sup> meeting of Technical-cum-Cost Committee - II (TCC - II) of NMEDT held on 16<sup>th</sup> and 17<sup>th</sup> June, 2026 through video conferencing mode**

S.no	Name	Designation	Email ID	Contact No	Organization
1	Shri. Pradeep Singh	Additional Director General (PSS), GSI, Kolkata	adg.pss@gsi.gov.in	9810233957	Chairman, TCC -II
2	Dr. S. Ravi	Dy. Director General, GSITI, Hyderabad	s.ravi1@gsi.gov.in	9441138834	Chairman, TCC-1
3	Shri. Sanjay Singh	Director, GSI, Western Region, Jaipur	sanjay.singh3@gsi.gov.in	9928860884	Member Secretary TCC-II
4	Shri. B S Jodha	Dy. Director General (Retired), GSI	jodha1961@gmail.com	9414023478	Member TCC-II
5	Shri. Sunil Kumar Vashisth	GM (Retired), Hindustan Zinc Limited, Udaipur	sunilhzi@gmail.com	9829059236	Member TCC-II
6	Shri M. K. Patel	Dy. Director General (Retired), GSI	patelmk27@gmail.com	9040011231	Member TCC-II
7	Dr. T. S. Sunil Kumar	Addl. Director (Retired), AMD	ts.sunilkumar@gmail.com	9502560153	Member TCC-II
8	Shri. D. S. Jeere	Director, GSI, RSAS Bengaluru.	dattatreya.jeere@gsi.gov.in		Member TCC-II
9	Dr. M. K. Mukherjee	Associate Professor IIT (ISM) Dhanbad	mrinal@iitism.ac.in	9431711148	Member TCC-II
10	Anoop Kumar	Cost Accounts Officer	anoop.kumar2@gsi.gov.in	8969116172	GSI-CHQ, Member TCC-II
11	Kanhu Charan Das	VP (Exploration)	kanhu@theworld.co.in	9674641321	M/s My World Consultancy Pvt. Ltd.
12	Moulipriya Bhakta	Dy. Manager	moulipriya.bhakta@maheshwaree.com	7890631970	MMPL Pvt Ltd
13	Shravya Mehta	Geologist	shravya.mehta@maheshwaree.in	8349962239	MMPL Pvt Ltd
14	Dr. Niranjan Damle	TAE Remote Sensing/GIS	engeotech@rediffmail.com	8989771405	Engeotech Consultant
15	Anand Raikwar	Geologist	engeotech@rediffmail.com	8989771405	Engeotech Consultant
16	Dr. Pundarika Rao	HOD (Exploration & Geology)	pundarikarao.d@gts-india.com	7032711678	GMMCO Technology Services Limited
17	Nani Babu M	Dy. Manager (Exploration & Geology)	nanibabu.m@gts-india.com	8919213290	GMMCO Technology Services Limited
18	Dr. Ramulu M	Dy. Manager (Exploration & Geology)	ramulu.m@gts-india.com	9052391710	GMMCO Technology Services Limited
19	Shri Shrikant Sharma	HoD (Exploration)	shrikantsharma@mecl.gov.in	9131229758	MECL
20	Shri. Naveen Kumar Pala	Senior Manager (Geology)	naveenpala.mecl@gmail.com	7738368657	MECL
21	Shri S. K. Satapathy	Senior Manager (Geology)	Sksatapathy4u@gmail.com	9993617090	MECL
22	Shri Swarup Dhara	Senior Manager (Geology)	swarupdhara@gmail.com	9630307282	MECL
23	Md. Dastageer	Senior Manager (Geology)	dastageermd@gmail.com	9560739350	MECL
24	Shri Yashu Joshi	Asst. Manager (Geology)	yashujoshi@mecl.co.in	9920878577	MECL
25	Mrs Moumita Ghosh	Asst Manager (Geology)	moumitaghosh03091991@gmail.com	9001801591	MECL

*(Handwritten signatures and dates)*

26	P. Praveen Kumar	Director	praveen@geomarinesolutions.in	8277363919	Geo Marine Solutions Pvt. Ltd.
27	Dr. A.V. Keshava Prasad	Chief Geologist (Exploration)	keshava@geomarinesolutions.in	8595914877	Geo Marine Solutions Pvt. Ltd.
28	A.C. Dinesh	Chief Technology Officer	oed@geomarinesolutions.in	9038534560	Geo Marine Solutions Pvt. Ltd.
29	Arif Khan	Director	oceandrillingaea@gmail.com	7023511786	Ocean Drilling & Exploration Pvt. Ltd.
30	T. Baburavindra Kumar	Head of Exploration/PC	oceandrillingaea@gmail.com		Ocean Drilling & Exploration Pvt. Ltd.
31	Arvind Gulati	Head Advisor Geology/PC	oceandrillingaea@gmail.com		Ocean Drilling & Exploration Pvt. Ltd.
31	Karuppannan Sukumar	TAE	oceandrillingaea@gmail.com		Ocean Drilling & Exploration Pvt. Ltd.
32	Vikram Singh Bisht	Drilling Head	oceandrillingaea@gmail.com		Ocean Drilling & Exploration Pvt. Ltd.
33	Sarita Negi	Geologist	oceandrillingaea@gmail.com		Ocean Drilling & Exploration Pvt. Ltd.
34	Dr.R.K. Sharma	PC	exploration@vardan.co.in		Vardan environet LLP
35	B.B. Sharma	TAE (GEO)	exploration@vardan.co.in		Vardan environet LLP
36	Anshul Yadav	Managing Partner	exploration@vardan.co.in		Vardan environet LLP
37	Keshav Pareek	Geologist	exploration@vardan.co.in		Vardan environet LLP
38	Dr. G. Lakshminarayana	Head of Exploration/PC	glakshmi 1999@yahoo.com	9951699584	M/S Midwest Limited
39	M Subhakar	Team Member	subhakar.m@midwest.in	7207193220	M/S Midwest Limited
40	M Manikanta	Team Member	manikanta.m@midwest.in	9100111055	M/S Midwest Limited
41	P V Satish	Geologist	venkatasatish.p@midwest.in	9704791766	M/S Midwest Limited
43	Yerriswamy Pateel	Director	ypateel@geoexpore.com	9980118930	GeoExpOre Pvt. Ltd.
44	Mohammad Muslemeen	Senior Geologist	mohammad@geoexpore.com		GeoExpOre Pvt. Ltd.
45	Abrar Ahmed	Senior Geologist	abrar@geoexpore.com		GeoExpOre Pvt. Ltd.
46	Dhanasekaran	Junior Geologist	dhanasekaran@geoexpore.com		GeoExpOre Pvt. Ltd.
47	Mansi Kesarwani	Assistant Manager	mansi@geoexpore.com	9591167745	GeoExpOre Pvt. Ltd.
48	Keshaw Kumar Pathak	Senior Geologist	keshawkrpk1@gmail.com	9955303425	JEMCL, Ranchi
49	Om Prakash Kumar	Geologist	opsawhzb@gmail.com	8709041453	JEMCL, Ranchi
50	Sandeep Kumar Mahato	Geologist	sandeepgeo401@gmail.com	8770758366	JEMCL, Ranchi
51	Devishthkant Sudeep	GIS Expert	devishth@gmail.com	9472713900	JEMCL, Ranchi

52	Dr. R P Singh	Chief Manager (Geology)	singh.rp@coalindia.in		CMPDIL
53	Balkrishan Vishawakarma	Senior Consultant (Geology)	geology@bmrccgroup.com, Balrkishan.vishawakarma@bmrcc group.com	9651143638	BMRC Geomining Solution Pvt Ltd
54	Ankush Saxena	Project Head	dgm-min@fagmil.nic.in	9413221576	FAGMIL
55	Saransh Srivastav	Geologist			FAGMIL
56	Dr Nafisa Begum	Geologist			FAGMIL
57	Pawan Kumar	Geologist			FAGMIL
58	Anshul Harsh	Geologist			FAGMIL
59	Priyanshi Parihar	Geologist			FAGMIL
60	Ravi Chouhan	Geologist			FAGMIL
61	Dr. Trupti Bhattacharjee	AGM - BD (Exploration and N MET)	trupti.bhattacharjee@bhushilp.co m	9890003054	BMMPL
62	Representative	-	-	-	M/s United Exploration India Pvt. Ltd.]
63	Representative	-	-	-	M/s Mining Tech Consultancy Services Limited
63	Kh. Dilip Singh	Joint Director	khdilip2002@yahoo.com	9436021224	DGM Maharashtra
64	Shri. S.P. Kadoo	Deputy Director	director@mahadgm.gov.in	-	
65	Sri. G. Sreenivasa Chowdary	Deputy Director (Mines)	apdmgplanning7@gmail.com	9100688811	DMG, Andhra Pradesh
66	Shri Monu Tomer	Sr. Geophysicist	Nmet-mines@gov.in	9467728411	NMEDT
67	Shri Manish Kumar	Geophysicist	Nmet-mines@gov.in	9652258670	NMEDT

