

Ministry of Mines
National Mineral Exploration and Development Trust
Minutes of the 101st Technical-cum-Cost Committee-1 (TCC-1) Meeting
held on 27th and 28th July 2026 through video conferencing

The 101st Meeting of the Technical-cum-Cost Committee-I (TCC-1) of the National Mineral Exploration and Development Trust (NMEDT) was held via video conferencing under the chairmanship of Dr. S. Ravi, Deputy Director General (DDG), Geological Survey of India Training Institute (GSITI) and Chairman, TCC-1, NMEDT, on 27th and 28th July 2026. Members of TCC-1, NMEDT and representatives from GSI, IBM, MECL, JEMCL, DMG Odisha, DMM Sikkim, DGM MP, DMG Karnataka, DMG Rajasthan, DGM Maharashtra, M/s Critical Mineral Trackers, M/s Wattfin Ventures Private Limited, M/s South West Pinnacle Exploration Limited, M/s GMMCO Technology Services Ltd., M/s. MMPL Private Limited, M/s. Geo Marine Solutions Pvt. Ltd., M/s Gemcokati Exploration Pvt. Ltd., M/s BMRC Geomining Solutions Pvt. Ltd., M/s Geo Exploration and Mining Solution, M/s United Exploration India Pvt. Ltd., M/s Mining Tech Consultancy Services Limited, M/s Vardan Environet LLP, M/s Enkay Enviro Services Pvt. Ltd., M/s Mining Associates Private Limited, M/s GeoExpore, M/s Eartnenviro Labs Pvt. Ltd. and M/s Bhushilp Mines and Minerals Pvt. Ltd. have attended the meeting through their respective VC modes.

The list of participants is enclosed in Annexure-10.

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

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

Agenda 101.1: Technical Evaluation of New Project Proposals

Agenda 101.1.1. Reconnaissance Survey (G4) for REE and Associated Minerals in Abhaypur Area (101.75 Sq Km), District-Nayagarh, Odisha.

Proposal ID: ME/DD/G4/OD/MECL/26-27/008

[Implementing Agency: MECL]

- a. The proposed block falls within Survey of India Toposheet No. 73D/16 and is underlain by granite gneiss, charnockite, khondalite, leptynite, and pyroxene granulite, with later alkaline intrusives comprising pyroxene-bearing syenite, syenite, and pyroxenite, which are considered the primary host for REE mineralization.
- b. During FS 2018–19, GSI carried out regional geochemical mapping in Toposheet No. 73D/16, analysing 182 stream sediment composite samples for major oxides and trace elements. The study identified anomalous enrichment of Cr, Th, Zn, Zr, Hf, and REEs (La, Ce, Nd, Sm, and Gd), primarily associated with granite gneiss and charnockite.
- c. Previous investigations in the Eastern Ghats Mobile Belt have established that

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khondalite and charnockite are intruded by alkaline rocks favourable for REE mineralization, with monazite, bastnaesite, and allanite identified as the principal REE-bearing minerals, along with apatite, zircon, and xenotime.

- d. REE occurrences have been established within syenite, pyroxenite, and apatite veins intruding charnockite and khondalite, with pyroxenites containing REE-rich apatite veins recording REE values of up to 52,744 ppm, indicating excellent exploration potential.
- e. Ongoing G4 exploration by MECL in the adjoining area has reported encouraging REE values, with TREE concentrations of up to 1,310 ppm in soil, 4,919 ppm in bedrock samples, and 8,572 ppm in stream sediments. XRD studies have identified REE-bearing minerals such as monazite, allanite, zircon, and ilmenite.
- f. Analysis of 24 NGCM stream sediment samples within the proposed block recorded TREE values of up to 1,848 ppm, with six samples exceeding 1,000 ppm and two samples exceeding 1,500 ppm. The average TREE concentration in the proposed area is 901 ppm, indicating favourable REE potential.
- g. Based on the favourable geological setting and encouraging REE anomalies reported from adjoining areas, the agency proposed a G4-stage reconnaissance survey to evaluate the REE and associated mineral potential in the Abhaypur area, Nayagarh District, Odisha.
- h. The proposed programme includes large-scale geological mapping (1:12,500 scale), geochemical sampling, pitting/trenching, and auger drilling to assess the REE potential and establish reconnaissance resources (UNFC-334).
- i. The Committee observed that the proposal is primarily based on NGCM anomalies and previous studies in adjoining areas. The Committee advised the agency to undertake a field visit, examine the disposition of favourable lithological units (including younger granites and pegmatites), verify the NGCM anomaly zones, collect representative samples, delineate a more prospective area and resubmit the proposal.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed block partly overlaps (~10%) with GSI's proposed REE exploration block (FS 2027-28), where exploration is ongoing in the eastern part. The block boundary should be modified to exclude the overlapping area, following which the proposal may be considered for G4-level exploration.
2	MECL	NA
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	The proposed area has not been covered by DoMG. Hence Consent may be given for undertaking exploration of REE & RM.
5	NMEDT	The proposed block do not overlap with NMEDT funded projects however, some area falls in Recorded Forest Area (approx. 30-35%).

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Recommendations of TCC-1:

The Committee deferred the proposal, observing that it was based primarily on NGCM anomalies and adjoining area studies.

The agency was advised to undertake field verification, examine favourable lithological units, validate the anomaly zones, collect representative samples, delineate a prospective target area and resubmit the proposal.

Agenda 101.1.2. Reconnaissance Survey (G4) for REE and Associated Minerals in Patharkata Area (105.364 Sq.Km), District: Nayagarh, Odisha.

Proposal ID: ME/DD/G4/OD/26-27/004

[Implementing Agency: MECL]

- a. The proposed block falls within Survey of India Toposheet No. 73H/04 and is underlain by granite gneiss, charnockite, khondalite, pyroxene granulite, and minor quartzite, providing a favourable geological setting for REE exploration.
- b. GSI carried out Specialized Thematic Mapping (STM) during 2007-08 in the central Eastern Ghats Mobile Belt, establishing the regional geological framework and identifying favourable lithological settings for REE mineralization.
- c. NGCM stream sediment sampling within the proposed block recorded significant REE anomalies, with 24 anomalous TREE samples, including five samples exceeding 1,000 ppm and two samples exceeding 2,500 ppm, indicating favourable REE potential.
- d. Subsequent STM (FS 2018-20) and G4-stage investigations in the adjoining Khuntapada area confirmed REE mineralization hosted by syenite-pyroxenite bands, with Σ REE values reaching 4,031.67 ppm in regolith, 2,225.67 ppm in stream sediments, and 24,689.11 ppm in bedrock samples.
- e. During FS 2022–23, GSI carried out G4-stage reconnaissance (1:12500 scale) for REE and associated minerals in the Notara–Baulasahi area, covering 100 km².
- f. The investigation returned encouraging Σ REE values of up to 18,415 ppm in regolith, 5,448 ppm in stream sediments, and 52,744 ppm in bedrock (apatite veins). REE-bearing minerals identified include titanite, bastnaesite, allanite, monazite, xenotime, and euxenite.
- g. Based on the geochemical results, three prospective REE anomaly zones—Baulasahi, Notara, and Nacchipur–Ikiri—were delineated for further exploration.
- h. Based on the encouraging exploration results, the agency proposed a G4-stage reconnaissance survey to evaluate the REE and associated mineral potential through large-scale geological mapping, geochemical sampling, pitting/trenching, and scout drilling for assessment of reconnaissance resources (UNFC-334).
- i. The Committee noted that the proposed area overlaps with a GSI block planned for FS 2027–28. However, on examining the KML files, it was observed that approximately 50% of GSI's proposed block overlaps with an ongoing NMEDT-funded MECL project. Accordingly, the Committee decided that the block may be allotted to MECL, as it is already undertaking exploration in the adjoining area to the north.
- j. The Committee reviewed the proposal and advised the agency to undertake detailed structural and petrological studies of the alkaline rocks, in addition to pegmatites. The Committee further recommended investigation of soil profiles to assess the

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- potential for secondary REE enrichment.
- k. The committee reviewed the proposal and recommended that the G4-stage reconnaissance survey may be taken up.
- l. 30 % of area is covered by Recorded Forest.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed block overlaps (~50%) with a GSI REE exploration block (FSP 2027–28) & ongoing project where exploration is currently underway. Therefore, the block boundary should be revised to exclude the overlapping area. It is recommended to take up G4-level REE exploration after the circulation of the relevant GSI reports.
2	MECL	NA
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	There is no overlapping of the proposed block with past or ongoing project of DMG. The background information merits for a G-4 stage of exploration.
5	NMEDT	Proposed block overlaps with G3 & G4 stage of exploration for REE of GSI project. The proposed block do not overlap with NMEDT funded projects however the some area falls in Recorded Forest Area.

Recommendations of TCC-1:

The committee recommended the proposal titled “Reconnaissance Survey (G-4) for REE and associated critical minerals in Patharkata Area, District: Nayagarh, Odisha” for approval of PSC, NMEDT with an estimated cost of Rs. 148.82 lakhs (including GST) with a timeline of 10 months for carrying out the proposed work and submission of report as per Annexure – 1A & 1B. The item will be reviewed after 3, 6 and 9 months.

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Annexure 1A

Estimated cost for Reconnaissance Survey (G-4) for REE and associated critical minerals in Patharkata Area, District: Nayagarh, Odisha.
[Block area- 105.36 sq. km; Core Drilling-500m (8 nos., tentative), Borehole depth range: 60 m; Schedule timeline- 10 months, Review after: 3, 6 and 9 months]

S. No.	Item of Work	Unit	Rates as per NMEDT Revised SoC 2025		Estimated Cost of the Proposal		Remarks
			SoC-Item -SI No.	Rates as per SoC	Qty.	Amount (Rs)	
A	GEOLOGICAL MAPPING						
i	Large Scale Mapping (1:12,500)	per sq km	1.1	18,300	105 .36	1,928,088	
B	OTHER GEOLOGICAL WORK/ ACTIVITIES						
i	Charges for one Geologist- Field	per day	1.2.1a (b)	14,500	30	435,000	For drilling
ii	Charges for one Geologist - HQ	per day	1.2.1a (a)	10,500	30	315,000	
iii	2 labours/ party (As per rates of Central Labour Commissioner)	per day	5.8	556	60	33,360	
iv	Sampling -1 Samplers Labour charge not included	per day	1.2.1b	7,850	30	235,500	
v	4 labours/ party (As per rates of Central Labour Commissioner)	per day	5.8	556	120	66,720	
C	SURVEY WORK						
i	Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS	Per Point of observation	1.3.2	24,000	8	192,000	Proposed Boreholes: 8
D	PITTING AND TRENCHING						
i	Pitting	per cu. m.	2.1.2	4725	50	236,250	
	Sub Total- A TO D					3,441,918	
E	EXPLORATORY DRILLING						

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1	CORE DRILLING (Inhouse)						
i	Drilling in very hard rock upto 400 m in HQ Size	m	2.2.1.1d	10,000	500	5,000,000	08 Boreholes
ii	Concrete Pillar Construction	Per Borehole	2.2.7	2000	8	16,000	
iii	Borehole Plugging	Lumpsum per borehole	2.2.8	10000	8	80,000	
iv	Miscellaneous Charges	Lumpsum per borehole	2.2.9	For drilling cost more than 50 lakhs and less than 1 crore: 20% of drilling cost with a maximum ceiling of 50 lakhs		1,250,000	1,250,000
v	Drill core Preservation	per m	5.3	1590	200	318,000	1 complete BH + Mineralised Zone
	Sub Total- E					6,664,000	
F	LABORATORY STUDIES						
1	Chemical Analysis						
i.	a- Analysis of 14 REE & 9 trace element by ICP-MS sequential technique	per sample	4.1.15	7,400	215	1,591,000	Bedrock: 50, Pit Samples: 50, Stream Sediment Samples: 55, Drill core Samples: 50, 10 HMS samples
ii.	b- External (10%) Check samples from NABL Lab of 14 REE & 9 trace element by ICP-MS sequential technique	per sample	4.1.15	7,400	21	155,400	
iii.	c- Major Oxides (WD XRF) (oxides + traces-24 elements)	per sample	4.1.17a	4,200	5	21,000	
2	Physical & Petrological Studies						

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i	XRD analysis for identification of mineral phase	per sample	4.5.2	4,000	10	40,000	
ii	Preparation of thin polished section	per sample	4.3.2	800	10	8,000	
iii	Complete mineragraphic study report	per sample	4.3.4	2,800	10	28,000	
iv	EPMA studies	Hrs	4.4.1	10,500	10	105,000	
v	Preparation of unmounted polished section for EPMA	per sample	4.3.3	700	10	7,000	
vi	Density studies (BH core)	Per Sample	4.8.3	2,500	-	-	
vii	Heavy mineral Separation by liquid	Per Sample	4.3.6a	2,890	10	28,900	
Sub Total- F						1,984,300	
G	Total A to F					12,090,218	
H	Geological Report Preparation		5.2.iii	Total cost of the project exceeding 50 lakh but less than 150 lakh: 2.5 lakhs		250,000	
I	Peer review Charges		As per EC decision			30,000	
J	Preparation of Exploration Proposal	soft copy	5.1	2% of the Cost or Rs. 5 Lakhs whichever is lower		241,804	
K	Total Estimated Cost without GST					12,612,022	

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L	Provision for GST (18% of K)	2,270,164	GST will be reimbursed as per actual and as per notified prescribed rate
M	Total Estimated Cost with GST	14,882,186	
	or Say Rs. In Lakhs	148.82	
Note:			
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.		
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.		
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 6 of NMEDT SoC. In case of execution of the project by NEA/NPEA on its own, a Certificate regarding non outsourcing of any component/project is required.		
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.		
5	Any item of work not mentioned above shall be added as per SoC.		
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency		

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Annexure 1B

**Time Schedule/Action Plan for Reconnaissance Survey (G-4) for REE and associated critical minerals in Patharkata Area,
District: Nayagarh, Odisha**

SI.	Particulars	Months	1	2	3		4	5	6		7	8	9		10
1	Camp Setting/ mobilization	Months				REVIEW				REVIEW				REVIEW	
2	Geologist days (Mapping, BR Sampling, Orientation Pitting, Pitting, Stream Sediment Sampling)	days													
3	Geologist days (Scout Drilling)	days													
4	Drilling (1 rig) Scout Drilling	m													
5	Sampling days	days													
6	Camp winding	Months													
7	Laboratory Studies	days													
8	Geologist days, HQ	days													
9	Report Writing with Peer Review	days													

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Agenda 101.1.3. Preliminary Exploration (G3) for Graphite in Nawadih Graphite Block (G3) Block, Balrampur- Ramanujanj District, Chhattisgarh

Proposal ID: ME/DD/G3/CT/26-27/092

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

- a. The proposed block falls within Survey of India Toposheet No. 64M/10 and is underlain by granite gneiss, graphite mica schist, quartz mica schist, pegmatites, and quartz veins, providing a favourable geological setting for graphite mineralization.
- b. Previous investigations in the Kennapara–Manikpur area identified 35 graphite occurrences hosted within graphite schist lenses, with inferred graphite resources estimated at approximately 2,350 tonnes grading 10–22% graphite.
- c. Subsequent Specialized Thematic Mapping (1:25,000 scale) in the adjoining Bilaspur–Raigarh–Surguja Metamorphic Belt reported several additional graphite occurrences, indicating favourable potential for further exploration in the region.
- d. The agency has carried out a G4-stage investigation in the Nawadih Graphite Block (32.04 km²) through NMEDT funding and identified 29 promising graphite occurrences, with the mineralization concentrated in three major zones in the western part of the block.
- e. Based on analytical results, the block is estimated to contain approximately 85,961 tonnes of graphite resources with an average Fixed Carbon (FC) content of 5.23 wt.%, indicating encouraging graphite potential.
- f. Based on the encouraging G4-stage results, the agency proposed upgrading the identified graphite prospect to the G3 stage to establish the continuity, thickness, grade, and resource potential of the mineralized zones.
- g. The proposed programme includes detailed geological mapping (1:2,000 scale), surface geochemical sampling, pitting/trenching, and exploratory drilling for resource estimation under the UNFC G3 category.
- h. The Committee reviewed the proposal and advised the agency to undertake a Self-Potential (SP) survey to delineate the graphite-bearing zones and plan exploratory drilling to adequately cover Zones I, II, and III.
- i. The Committee recommended the proposal and instructed that the exploration be carried out in two phases, with Phase I comprising detailed geological mapping and SP survey, followed by systematic drilling in Phase II.
- j. 97% of area is covered by Recorded Forest Area.

Sl. No.	Agency	Brief Comments
1	GSI	~30% overlap with GSI work in FS 2026-27 titled 'Reconnaissance Survey For Graphite In Balrampur Namgarh Area, Balrampur District, Chhattisgarh (Stage: G-4)'.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.

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3	AMD	AMD has carried out G4 stage of exploration for U (0.062% U ₃ O ₈) in and around the proposed block however, there is no ongoing exploration /reconnaissance project. In view of known potentiality, analysis of uranium may also be included in the analysis list and intimation regarding drilling of the boreholes may be communicated to AMD for gamma ray logging.
4	State DMG/DGM/CGM	Awaited
5	NMEDT	The proposed block do not overlap with NMEDT funded projects however some area falls in Recorded Forest Area (approx. 90%).

Recommendations of TCC-1:

The committee recommended the proposal titled “Preliminary Exploration (G3) for Graphite and associated critical minerals in Nawadih Block, District: Balrampur- Ramanujganj, Chhattisgarh” for approval of PSC, NMEDT with an estimated cost of Rs. 243.49 lakhs (including GST) with a timeline of 12 months for carrying out the proposed work and submission of report as per Annexure – 2A & 2B. The item will be reviewed after 3, 6 and 9 months.

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Annexure 2A

**Estimated Cost for Preliminary Exploration (G3) for Graphite and associated critical minerals in Nawadih Block , District: Balrampur-
Ramanujganj , Chhattisgarh**
Scheduled Timeline: 12 months, Review after: 3, 6 and 9 months.
1st Phase: Mapping, Sampling and Geophysical Survey. 2nd Phase Drilling
Drilling: 1000 m; each BH 30 m vertical intersection for 8 BH, 60 m vertical intersection for 4 BH.

S. No.	Item of Work	Unit	Rates as per NMEDT SoC 2025		Estimated Cost of the Proposal		Remarks
			SoC-Item -SI No.	Rates as per SoC	Qty.	Amount (Rs)	
A	GEOLOGICAL MAPPING OTHER GEOLOGICAL WORK & SURVEYING						
1	Detailed Geological Mapping with contouring (1:2000)	per sq.km	1.1	18,300	9.98	182634	
i	Charges for Geologist per day (Field) for Geological mapping & Trenching work, drilling activity	day	1.2.1a	14,500	120	1740000	
ii	Charges for Geologist per day (HQ)	day	1.2.1a	10,500	30	315000	
iii	Labours Charges; Base rate	day	5.8	556	240	133440	
2	Survey Work						
i	Charges for one qualified surveyor (Topographic survey, surface contouring at specific interval)	per day	1.3.1	10500	30	315000	Topographical Survey on 1:2000 (2 m contour interval)
ii	DGPS Survey for BH fixation and Cardinal Points of block	per point of observation	1.3.2	24000	16	384000	12 BHs and 4 boundary coordinates
	Labours Charges; Base rate	day	5.8	556	120	66720	

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3	Samples Preparation						
i	Charges for one Sampler per day	one sampler per day	1.2.1b	7,850	59	463150	
ii	Labours Charges; Base rate (4 nos.)	day	5.8	556	236	131216	
4	Geophysical Survey						
	Self-Potential (8-20 line km)	Line Km	3.3a	62140	15	932100	
5	Trenching						
	Trenching	cu.m	2.1.1	4125	50	206250	
6	LABORATORY STUDIES						
1	Chemical Analysis (Surface Samples)						
i	Primary & Check samples for Graphite						
	Proximate analysis of Graphite	Nos	4.1.18	3,614	100	361400	50 Trench samples + 50 BRS
	b-External(10%) Check samples	Nos	4.1.8	3,614	10	36140	
	Major oxides (WD XRF)- (oxides +traces - 24 elements)	Nos	4.1.17a	4,200	10	42000	
	b-External(10%) Check samples	Nos	4.1.17a	4,200	1	4200	
ii	ICPMS for Trace elements						
	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements +9 trace element (U, Ta, Ge, Be, Hf, Sn, As, Rb, Th) by ICP-MS (sequential technique)	Nos	4.1.15	7,400	20	148000	
	Check samples	Nos	4.1.15	7,400	2	14800	
	Analysis for Vanadium		4.1.17 b	421	20	8420	

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	Analysis for Vanadium (Check Samples)		4.1.17 b	421	2	842	
2	Physical & Petrological Studies						
i	Preparation of polished thin section	Nos	4.3.2	800	10	8000	(including core samples)
ii	Complete petrographic study report	Nos	4.3.4	2,800	10	28000	
iii	Raman Spectroscopic study	per hour	4.5.1	2,700	10	27000	
iv	Bulk Density	Nos	4.8.3	2,500	5	12500	
	Sub Total A					5560812	
B	DRILLING (In-house)						
i	Drilling upto 400m (Hard Rock)	m	2.2.1.1d	10,000	1,000	10,000,000.00	
ii	Land / Crop Compensation	per BH	5.6	30,000	12	360000	As per actuals with 30000 being maximum ceiling
iii	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7	2,000	12	24000	
iv	Borehole plugging by cement	lumpsum per borehole	2.2.8	10,000	12	120000	
v	Misc Charges (Transportation of drilling rig, accommodation for Drill Camp, Camp setting and winding, construction of Approach rod and Drill core preservation	Lumpsum	2.2.9.3	2,000,000.00	1	1,500,000.00	For drilling cost more than 1 crore and less than 2 crore: 20% of the Drilling Cost.
vi	Core Preservation: One complete borehole plus mineralized cores of all the remaining Bhs	m	5.3	1,590	300	477000	1 complete BH + mineralized zone
7	LABORATORY STUDIES						
1	Chemical Analysis (Core samples)						

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i	Primary & Check samples for Graphite						
	Proximate analysis of Graphite	Nos	4.1.18	3,614	250	903500	
	b-External(10%) Check samples	Nos	4.1.8	3,614	25	90350	
ii	ICPMS for Trace elements						
	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements +9 trace element (U, Ta, Ge, Be, Hf, Sn, As, Rb, Th) by ICP-MS (sequential technique)	Nos	4.1.15	7,400	50	370000	
	Check samples	Nos	4.1.15	7,400	5	37000	
	Analysis for Vanadium	Nos	4.1.17 b	421	50	21050	for each addl element Rs 421/-
	Analysis for Vanadium (Check Samples)	Nos	4.1.17 b	421	5	2105	
	Sub Total- B					13,905,005.00	
D	Sub Total A + Sub Total B					19,465,817.00	
E	Geological Report Preparation		5.2.iii	exploration with cost of work exceeding ₹ 150 lakh: ₹7.5 lakh		750,000.00	
F	Peer review Charges		As per EC decision			30000	
G	Preparation of Exploration Proposal (soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5 Lakhs		389,316	

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				whichever is lower			
H	Total Estimated Cost without GST					20,635,133.34	
I	Provision for GST (18% of H)					3,714,324.00	
J	Total Estimated Cost with GST					24,349,457.34	
				Round Off		24,349,457.00	
						243.49	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 6 of NMEDT SoC. In case of execution of the project by NEA/NPEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency						

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Annexure 2B

Time Schedule/ Action Plan for Preliminary Exploration (G3) for Graphite and associated critical minerals in Nawadih Block ,
District: Balrampur-Ramanujganj , Chhattisgarh

Sl. No.	Particulars	1	2	3		4	5	6		7	8	9		10	11	12
1	Camp Setting/ mobilization				Review				Review				Review			
2	Geological Mapping															
3	Topographical Survey															
4	Geophysical survey															
5	Pitting/ Trenching															
7	DGPS Survey															
6	Drilling															
8	Sample Preparation															
9	Sample analysis															
10	Proximate Analysis															
11	XRF				Review				Review				Review			
12	ICPMS															
14	Vanadium															
15	Bulk Density															
16	Petrographic study															
17	Raman Spectroscopy															
18	Report Preparation															

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Agenda 101.1.4. Reconnaissance Survey (G4 Stage) for Zirconium, Hafnium and REE/RM in Jobani-Amla block (40 sq. km.), Pandhurna-Chhindwara District, Madhya Pradesh
Proposal ID: ME/DD/G4/MP/26-27/094

[Implementing Agency: M/s Enkay Enviro Services Pvt. Ltd.]

- a. The proposed block falls within Survey of India Toposheet No. 55K/13 and is underlain by rocks of the Tirodi Gneissic Complex (TGC) and the Sausar Group, comprising quartzite, marble, and manganiferous gondite, providing a favourable geological setting for REE mineralization.
- b. GSI's geochemical mapping (FS 2018–19) identified significant REE anomalies, with Σ REE values up to 2,528 ppm, along with elevated concentrations of U, Th, Rb, Hf, Nb, and Zr. The anomalies are primarily associated with the contact between the Tirodi Gneissic Complex and Amarkantak Group basalts, along a fault zone.
- c. A 450 m long pegmatite dyke containing allanite was identified, and stream sediment samples recorded encouraging REE values of up to 22,526 ppm, indicating strong REE potential.
- d. GSI initiated G4-stage reconnaissance exploration during FS 2022–23; however, only about 20 km² of the proposed 100 km² area could be covered due to forest restrictions.
- e. In view of the encouraging geological and geochemical results, the agency proposed G4-stage exploration comprising large-scale geological mapping (1:12500 scale), geochemical sampling, ground geophysical survey, and exploratory drilling to assess REE and associated critical mineral resources under the UNFC G4 category.
- f. The agency informed that the proposed block was presented during the 92nd TCC-I meeting. The Committee noted that exploration in the adjoining GSI block could not be completed due to forest-related issues and advised the agency to ascertain the status of forest clearance.
- g. Considering the encouraging REE and rare metal potential, the Committee approved the proposal in principle, subject to receipt of comments from DGM, Madhya Pradesh and advised the agency to submit the DPR accordingly.
- h. The committee was apprised that comments received from DMG, Madhya Pradesh indicated the presence of one quarry lease and one mineral sand storage licence within the proposed area. It was further noted that about 0.1 km² of the area overlaps with land reserved for MOIL under Rule 67(1) of the MCR, 2016, and that a tiger corridor also passes through the proposed block.
- i. The agency revised the proposed area by excluding the tiger corridor and its buffer zone. It was further informed that 10 representative samples collected from the revised area returned TREE values ranging from 217 ppm to 774.70 ppm.
- j. The Committee reviewed the proposal and observed that the REE values are low and, based on the available exploration data, the area does not warrant further exploration. Accordingly, the proposal was not recommended.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed area lies in close proximity to the previously explored REE-anomalous block and shares similar geological, lithological, and structural characteristics, which may be feasible for taking up REE minerals exploration in the proposed area.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.

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3	AMD	AMD has carried out reconnaissance exploration (G4 stage) for uranium in and around the proposed block. No significant surface radioactive zone was delineated.
4	State DMG/DGM/CGM	One mineral concession (quarry lease) and one mineral sand storage license within the proposed area is present within the block. In addition, a small portion (0.1 sq. km) of the proposed area overlaps with the area reserved for MOIL under Rule 67(1) of the MCR, 2016. Further, a tiger corridor passes through the proposed area.
5	NMEDT	The proposed block do not overlap with NMEDT funded projects however north-eastern part of the proposed block lies within the tiger corridor.

Recommendations of TCC-1:

The Committee did not recommend the proposal, observing that the REE values are low and, based on the existing exploration database, the area does not warrant further exploration.

Agenda 101.1.5. Preliminary Exploration for establishing Zones of Copper and Associated Mineralisation in Bothli Block, Chandrapur District, Maharashtra

Proposal ID: ME/DD/G3/MH/26-27/077

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

- The proposed block falls within Survey of India Toposheet No. 55P/11 and is underlain by basement gneisses of the Bengpal Group with enclaves of older metapelites and silicified zones, overlain by sandstone and quartzite of the Penganga Group.
- During FS 1971–74, DGM, Maharashtra carried out prospecting for copper mineralization about 1.8 km east of Bothli village. A pit measuring approximately 30 m × 25 m × 6 m was excavated near an old mine, exposing quartz and silicified sheared quartz-mica schist with malachite mineralization.
- Subsequent investigations established the Thanewasna copper deposit, while further exploration in the adjoining area led to the delineation of the Ghanpur–Mudholi and Nai Dilli–Lal Heti copper blocks.
- G4-stage exploration in the Bahmni and Minjhari areas reported copper mineralization of up to 0.37% and 0.60%, respectively. Exploration at Minjhari also established a copper resource of 1.13 million tonnes at 0.20% Cu.
- Preliminary (G3-stage) exploration for copper and associated mineralization was carried out in the Motegaon–Aregaon area, Chandrapur District, Maharashtra during FS 2022–24.
- In view of the encouraging exploration results, the agency presented the proposed block for G3-stage exploration for copper and associated mineralization. The proposed work includes detailed geological mapping (1:2,000 scale), bedrock geochemical sampling, pitting/trenching, and exploratory drilling for resource assessment under the UNFC G3 category.
- The committee reviewed the proposal and it is observed that the proposed area is already covered by GSI at G3 stage for the same commodity and the GR was handed over to State DGM for in January, 2026 for auction.

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Sl. No.	Agency	Brief Comments
1	GSI	The proposed block overlaps (~50%) with the Aregaon block that was explored by GSI in collaboration with DGM, Maharashtra, in G3 stage for copper in FS. 2022-24 (along with Motegaon block). The resource-bearing GR of Argeaon block has been handed over to State DGM for auction.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	Awaited
5	NMEDT	The proposed block do not overlap with NMEDT funded projects however, some area falls in Recorded Forest Area.

Recommendations of TCC-1:

The Committee did not recommend the proposal, observing that the proposed area had already been explored by GSI up to the G3 stage for the same commodity, and the GR had been handed over for auction.

Agenda 101.1.6. Preliminary Exploration (G-3) for Limestone in Honnal Block, Kalaburagi District, Karnataka

Proposal ID: ME/IND/G3/KA/P/26-27/015

[Implementing Agency: M/s Geo Exploration and Mining Solution]

- The proposed block falls within Survey of India Toposheet No. 56D/13 and is underlain by purple shale of the Rabanpalli Formation and the lower flaggy limestone and upper limestone members of the Shahabad Formation (Bhima Group, Bhima Basin).
- GSI has been carrying out limestone exploration in the Bhima Basin since the 1970s. Preliminary investigations established the occurrence of cement-grade limestone in the Andola–Maratgi area.
- G2-stage exploration by GSI in the Kannur and Bahmanhalli Limestone Blocks established substantial limestone resources, comprising 244.27 MT of BF-grade limestone (average 49.83% CaO, 9.92% SiO₂, 1.16% Al₂O₃) and Portland Cement Grade resources of 18.921 MT (average 47.42% CaO, 14.41% SiO₂, 0.91% Al₂O₃), 154.246 MT (average 41.80% CaO, 23.37% SiO₂, 2.12% Al₂O₃), and 46.488 MT (average 39.12% CaO, 27.17% SiO₂, 1.65% Al₂O₃).
- GSI also carried out G2-stage exploration in the Chittapur South Limestone Block, estimating 89.04 MT of Portland Cement Grade limestone (average 46.39% CaO, 15.65% SiO₂, 0.98% Al₂O₃) and 228.16 MT of Beneficiable Cement Grade limestone (average 39.08% CaO, 27.03% SiO₂, 1.66% Al₂O₃).
- More recently, G3-stage exploration in the North Kadaboore and Nalwar blocks further augmented the regional limestone resource base. Exploration by KIOCL in the Sedam area estimated 261.15 MT of inferred (UNFC-333) limestone resources over 2.46 km², with mineralization reported to continue beyond the explored depth of 45 m.
- In view of the encouraging exploration results, the agency presented the proposed

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block for G3-stage exploration. The proposed work programme includes detailed geological mapping (1:4000 scale), geochemical sampling, and exploratory drilling with sampling to assess limestone resources under the UNFC G3 category.

- g. The project was in-principally approved during 94th meeting of TCC-1.
- h. The committee deliberated the proposal and recommended G3 level exploration in the area on 1:4000 scale with contouring. Total drilling of 400 m is recommended over 10 BH.
- i. No Recorded Forest in the proposed area.

Sl. No.	Agency	Brief Comments
1	GSI	In the proposed area, no exploration/reconnaissance projects are ongoing. The G3 stage of investigation carried out in the nearby areas of the proposed block shows that the area may be feasible for further exploration.
2	MECL	The proposed block is not overlapping with MECL explored block and ongoing blocks.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	The occurrence of Limestone is well established in the region and the state has processed more than 15 blocks of Limestone for auctioning. Taking demand and supply of the commodity, DMG, Karnataka prefers to not to recommend any agency to take up the exploration for Limestone in the state at this instance.
5	NMEDT	The proposed block do not overlap with NMEDT funded projects.

Recommendations of TCC-1:

The committee recommended the proposal titled “Preliminary Exploration (G3) for Limestone in Honnal Block, District: Kalaburagi, Karnataka” for approval of PSC, NMEDT with an estimated cost of Rs. 103.21 lakhs (including GST) with a timeline of 10 months for carrying out the proposed work and submission of report as per Annexure – 3A & 3B. The item will be reviewed after 3, 6 and 9 months.

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Annexure 3A

Estimated cost for Preliminary Exploration (G3) for Limestone in Honnal Block, District: Kalaburagi, Karnataka
Area: 6.6 sq. km; No. of BH: 10; Total Drilling: 400 m; BH Depth Range: 30- 40 m; Scheduled Time: 10 months; Review after: After 3, 6 and 9 months

S. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item No	Rates as per SoC (a)	Qty. (b)	Total Amount (Rs) (a*b)	
1. GEOLOGICAL MAPPING (LARGE SCALE MAPPING (LSM)/DETAILED MAPPING (DM)), OTHER GEOLOGICAL WORK AND SURVEYING							
i	Large scale (LSM) Geological Mapping/ Traverse mapping / Detailed Mapping in Peninsular India : Large scale Geological mapping on 1:12,500, 1:10,000 1:10,000 (for coal); 1:5000, 1:4000, 1:2000, 1:1,000, 1:500 ; 1:200 scale; scale including surface outcrop sampling (BRS/PS/PCS/Groove/Chip/Grab/Channel/Soil/SSS/Heavy Mineral); water sampling; pit and trench logging, pit and trench sampling; consultation of literature, maps, reports etc. *Rec. traverse Mapping (1:25000/1:50000 for KCR {Kimberlite clan of rocks}/Diamond exploration)	Per Sq.km	1.1	18300	6.6	120780	DM to be done on 1:4000 scale with contouring
2. OTHER GEOLOGICAL WORK / ACTIVITY							
i	Other Geological work/studies like geochemical studies, geochemical Orientation Survey, water sampling, surface sampling, outcrop sampling (BRS/PS/PCS/Groove/Chip/Grab/Channel/Soil/SSS/Heavy Mineral), sample preparation pit & trench logging and sampling, core logging and core sampling, preparation of beneficiation samples, skeletonisation of cores etc. including planning for sampling, Boreholes etc., consultation of literature, maps, reports etc. Application of softwares for synthesis or interpretation of data at headquarter, Any other activity in field or headquarter.	a) Charges for one Geologist per day at HQ	1.2.1a	10500	30	315000	

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ii	Other Geological work/studies like geochemical studies, geochemical Orientation Survey, water sampling, surface sampling, outcrop sampling (BRS/PS/PCS/Groove/Chip/Grab/Channel/Soil/SSS/Heavy Mineral), sample preparation pit & trench logging and sampling, core logging and core sampling, preparation of beneficiation samples, skeletonisation of cores etc. including planning for sampling, Boreholes etc., consultation of literature, maps, reports etc. Application of softwares for synthesis or interpretation of data at headquarter, Any other activity in field or headquarter.	a) Charges for one Geologist per day in field (without labour)	1.2.1a	14500	100	1450000	
iii	Sample processing work including marking of samples, core splitting, crushing and powdering of samples, coning and quartering, packing & labeling of samples, preparation of beneficiation samples etc.	Charges for one sampler per day	1.2.1b	7850	45	353250	
iv	Charges for Labour (for Geologist)		5.8	556	200	111200	
v	Charges for Labour (for Samplers)		5.8	556	180	100080	
3. SURVEY WORK							
i	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. a) Charges of one Surveyor per day (without labour) (Up to 4 labours will be allowed per surveyor)	Charges for one Surveyor per day	1.3.1	10500	25	262500	
ii	Charges for Labour (for Surveyor)		5.8	556	100	55600	
iii	Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS (including charges for labours deployed for the work) - use of CORS Network system for all DGPS is compulsory	Per Point of observation	1.3.2	24000	14	336000	10 BH + 4 Cardinal Points
4. MINERAL INVESTIGATION							

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4.1 DRILLING							
4.1.1 DRILLING: (DIAMONG CORE DRILLING) (IN House) (After Review of Mapping work)							
i	Drilling in / Drilling in Soft rock/ Strata: HQ size borehole upto 400m Depth and NQ Size beyond 400m depth In case NQ size drilling is done before 400m depth, the rate shall decrease by 20%	Per M	2.2.1.1c	5500	400	2200000	
ii	Construction of concrete Pillar (12"x12"x30")	Per Borehole	2.2.7	2000	10	20000	
iii	Borehole plugging by cement	Lumpsum per borehole	2.2.8	10000	10	100000	
iv	Miscellaneous Charges (Transportation of Drilling Rig, Accommodation for Drill Camp, Camp setting and winding, construction of Approach road and Drill core preservation)	Lumpsum	2.2.9(1)	1. For Drilling cost less than 50 Lakhs: 25% of the Drilling Cost	1	550000	
v	Drill Core Preservation	per m	5.3	1590	300	477000	1 complete BH + mineralised zone
5. LABORATORY STUDIES							
5.1. CHEMICAL ANALYSIS							
5.2. ESTIMATION OF MAJOR OXIDES BY XRF TECHNIQYE (WHOLE ROCK ANALYSIS)							
i	Major Oxided by XRF Technique (Whole rock analysis)	Per Sample	4.1.17a	4200	325	1365000	25 BRS+ 300 Core Samples
ii	Major Oxided by XRF Technique (Whole rock analysis) (10 % Check Samples)	Per Sample	4.1.17a	4200	33	138600	
5.3. PETROLOGICAL STUDIES							
i	Preparation of standard thin section of rock	Per Sample	4.3.1	500	10	5000	

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ii	Complete petrographic/ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo micrographs)	Per Sample	4.3.4	2800	10	28000	
5.4. GEOTECHNICAL STUDIES							
i	Bulk Density - Dry / Saturated	Per Sample	4.8.3	2500	5	12500	
6. MISCELLANEOUS CHARGES							
i	Land/Crop compensation	Per borehole	5.6	As per actuals as certified by local authorities subject to a maximum of 30,000 per bore hole	10	300000	As per actuals, with maximum ceiling of Rs 30000 per BH
TOTAL COST						8300510	
PEER REVIEW CHARGES						30000	
PREPARATION OF EXPLORATION PROPOSAL						166010.2	
GEOLOGICAL REPORT PREPARATION						250000	
TOTAL ESTIMATED COST WITHOUT GST						8746520.2	
PROVISION OF GST 18%						1574373.6	
TOTAL ESTIMATED COST WITH GST						10320893.8	
				Round Off		10320894.0	
				In Lakhs		103.2089384	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 6 of NMEDT SoC. In case of execution of the project by NEA/NPEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						

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5	Any item of work not mentioned above shall be added as per SoC.
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency

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Annexure 3B													
Time Schedule/ Action for Preliminary Exploration (G3) for Limestone in Honnal Block, District: Kalaburagi, Karnataka													
	MONTHS												
	1st	2nd	3rd	REVIEW	4th	5th	6th	REVIEW	7th	8th	9th	REVIEW	10th
Camp Setup. Detailed Geological Mapping on 1:4000 Scale													
Sub-Surface Drilling													
Core Sample (CS) & Bed Rock Sample (BRS)													
Chemical Assay Studies													
Synthesis of all available data													

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Agenda 101.1.7. Reconnaissance Survey (G4 stage) for Vanadium, Titanium Bearing Aluminous Laterite and Bauxite in Mandwa Block (75 sq.km), Chandrapur District, Maharashtra
Proposal ID: ME/DD/G4/MH/26-27/115

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

- a. The proposed block falls within Survey of India Toposheet No. 56M/02 and is underlain by purple shale of the Penganga Group, overlain by Deccan Trap basalts with laterite cappings developed over the basaltic rocks.
- b. Earlier investigations reported a Deccan basalt plateau capped by scattered laterite hillocks, with several bauxite pockets occurring within the laterite cappings. The laterite horizon commences at an elevation of about 487.68 m above MSL and attains a thickness ranging from 5 to 45 m.
- c. Random chip sampling confirmed the presence of bauxitic laterite, with analytical values ranging from 21.65–40.57% Al_2O_3 , 4.79–30.34% Fe_2O_3 , 2.57–29.37% SiO_2 , and 3.34–7.09% TiO_2 .
- d. G4-stage reconnaissance for aluminous laterite in the Sengaon–Nagarla area reported well-developed laterite profiles with thicknesses of 7–8 m. Analytical results from 83 laterite samples yielded Vanadium concentrations of 220.52–2775.74 ppm, with 54 samples exceeding the 500 ppm threshold and 10 samples recording more than 1000 ppm. Bedrock samples also reported anomalous Gallium values of up to 62 ppm.
- e. The agency informed the committee that they have carried out field work and the 10 samples collected from the proposed block yielded encouraging analytical results, with V_2O_5 ranging from 0.05–0.31% (500–3100 ppm), TiO_2 from 2.18–6.32%, Scandium from 16.27–79.80 ppm, Gallium from 15.50–49.12 ppm, and Al_2O_3 from 14.24–40.92%, indicating bauxite to aluminous laterite.
- f. In view of the encouraging results, the agency presented the proposed block for Reconnaissance Survey (G4 stage) for vanadium and associated mineralization. The proposed work programme includes large-scale mapping (1:12,500 scale), geochemical sampling, and scout drilling with sampling to assess mineral resources under the UNFC 334 category.
- g. The Committee reviewed the proposal and observed that lateritic horizons are confined to the northern part of the proposed block, while the southern part lacks laterite development. The agency was hence advised to modify the area.
- h. The agency revised the block boundary by excluding the southern part and presented the modified proposal for consideration. The area was reduced from 75 sq. km to 50 sq. km.
- i. The committee recommended the proposal for approval of PSC.
- j. 87.50% of area is covered by Recorded Forest Area.

Sl. No.	Agency	Brief Comments
1	GSI	Considering the presence of laterite to bauxite range of rocks and existing sample analysis, the proposal may be feasible to carry out G4 stage exploration in the area.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.

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3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	Awaited
5	NMEDT	The proposed block do not overlap with NMEDT funded projects however the some area falls in Recorded Forest Area (approx. 84%).

Recommendations of TCC-1:

The committee recommended the proposal titled “Reconnaissance Survey (G4 stage) for Aluminous Laterite and Bauxite with associated Vanadium, Titanium and other critical minerals in Mandwa Block (50 sq.km), Chandrapur District, Maharashtra” for approval of PSC, NMEDT with an estimated cost of Rs. 83.01 lakhs (including GST) with a timeline of 10 months for carrying out the proposed work and submission of report as per Annexure – 4A & 4B. The item will be reviewed after 3, 6 and 9 months.

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Annexure 4A

Estimated cost for Reconnaissance Survey (G4 stage) for Aluminous Laterite and Bauxite with associated Vanadium, Titanium and other critical minerals in Mandwa Block (50 sq.km), Chandrapur District, Maharashtra. (Toposheet No. 56 M/2) Scout Drilling - 250 meters, No. of BH: 5 (each with depth 50 m); Time period - 10 months. Review after: 3, 6 and 9 months

S. No.	Job Description	Unit	Rates as per revised NMEDT SoC		Estimated Cost of the Proposal		Remarks
			SoC-Item -SI	Rates as per SoC	Qty.	Total Amount (Rs)	
A	Large scale (LSM) Geological Mapping (1:12,500)	Per sq. km	1.1	18300	50	915000	
	Sub Total A					915000	
B	Geological Mapping (LSM) (1:12,500)						
1	Geologist: In field	Man days	1.2.1a	14,500	30	435000	
2	Geologist: at HQ	Man days	1.2.1a	10,500	30	315000	
3	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Man days	5.8	556	60	33360	
4	Charges for one sampler per day (for sample preparation)	Man days	1.2.1b	7850	51	400350	
5	Labour charges (4 Nos for sample preparation)	Man days	5.8	556	204	113424	
	Sub Total B					1297134	
C	Pitting						
1	Pitting	per cu m	2.1.2	4725	20	94500	
	Sub Total C					94500	
D	Drilling (In-house)						
1	Drilling	per m	2.2.1.c	5500	250	1375000	
2	Land/ Crop Compensation	Per Borehole		30,000	5	150000	As per actuals with 30000 being maximum ceiling for each BH
3	Miscellaneous Charges (Transportation of Drilling Rig, Accommodation for Drill Camp, Camp setting and winding etc)	Kms	2.2.9 (1)			343750	
4	Concrete Pillar Construction	Per Borehole	2.2.7	2,000	5	10000	

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5	Borehole plugging by cement	Lumpsum per borehole	2.2.8	10,000	5	50000	
6	Drill Core Preservation	m	5.3	1,590	150	238500	1 complete BH + Mineralised Zone
	Sub Total D					2167250	
E	Laboratory Studies						
1	Major oxides using WD XRF Analysis	No.	4.1.17 a	4200	270	1134000	150 CS+100 BRS+20 Pit
2	10% check samples		4.1.17 a	4200	27	113400	
3	ICPMS by sequential technique	No.	4.1.15	7400	100	740000	70 CS+20 BRS+10 Pit
4	10% check samples	No.	4.1.15	7400	10	74000	
5	For each additional Trace element (Vanadium)	No.	4.1.17b	421	100	42100	
6	For each additional Trace element (Vanadium) (10 % check samples)	No.	4.1.17b	421	10	4210	
	Sub Total E					2107710	
F	Physical & Petrological Studies						
1	Preparation of polished thin section	No.	4.3.2	800	10	8000	
2	Complete petrographic study report	No.	4.3.4	2800	10	28000	
3	Bulk density	No.	4.8.3	2500	2	5000	
	Sub Total F					41000	
	Total A+B+C+D+E+F					6622594	
	Total Cost					6622594	
G	Geological Report Preparation	No.	5.2 (ii)		1	250000	Total cost of the project exceeding 50 lakh but less than 150 lakh:2.5 lakh
H	Peer Review by External Expert	No.	As per EC decision	30000	1	30000	
I	Preparation of Exploration Proposal	No.	5.1	2% of the approved project cost or	1	132452	As per SoC

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				Rs. 500000 whichever is less			
J	Project Cost without GST					7035046	
K	GST - 18%					1266308	
L	Total Project Cost (With GST)					8301354	
	Rs. In Lacs					83.01	
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 Item no. 6 of NMET SoC. In case of execution of the project by NEA/NPEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency						

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Annexure 4B															
Time Schedule/ Action Plan for Reconnaissance Survey (G4 stage) for Aluminous Laterite and Bauxite with associated Vanadium, Titanium and other critical minerals in Mandwa Block (50 sq.km), Chandrapur District, Maharashtra.															
S. N.	Components	Months/Days	1	2	3	Review	4	5	6	Review	7	8	9	Review	10
1	Camp Setting														
2	Geological Mapping & Sampling	days													
3	Pitting	cu.m													
4	Drilling	m													
5	Sampler Man days	days													
6	Laboratory Studies	Nos.													
7	Camp Winding	months													
8	Report Writing with Peer Review	months													

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Agenda 101.1.8. Preliminary Exploration (G3) for Gallium bearing minerals, Vanadium bearing minerals, Titanium bearing minerals and ores (ilmenite, rutile and leucoxene), Bauxite and Aluminous laterite in Golvan Block, Sindhudurg District, Maharashtra
Proposal ID: ME/DD/G3/MH/26-27/111

[Implementing Agency: Wattfin Ventures Pvt. Ltd.]

- a. The Committee was apprised that the kml file submitted by the agency does not correspond to the proposed exploration block.
- b. Accordingly, the Committee recommended that the proposal be returned to the agency for submission of the proposal along with the correct kml file.

Sl. No.	Agency	Brief Comments
1	GSI	Based on the analytical results of 3 BRS samples collected from the proposed block by GSI in FS: 2024-25, the NPEA's G3-stage investigation has moderate to less potential for the critical minerals.
2	MECL	The attached KML file is for the Chapekhol Block, whereas the required KML file is for the Golvan Block.
3	AMD	Awaited
4	State DMG/DGM/CGM	Awaited
5	NMEDT	The KML file submitted by the agency does not belong to the proposed Golvan block.

Recommendations of TCC-1:

The Committee recommended returning the proposal to the agency for resubmission along with the correct KML file of the proposed block.

Agenda 101.2: Project Evaluation for In-Principle Approval

Agenda 101.2.1. Preliminary Exploration (G3) for REE and RM at Ghutiya Block (1.50 Sq. Km.), Banka District, Bihar
Proposal ID: ME/IN/G3/BR/P/26-27/144

[Implementing Agency: M/s Mining Associates Private Limited]

- a. The proposed Ghutiya REE–RM Block has been delineated based on the encouraging results obtained during GSI's G4-stage Reconnaissance Survey for Rare Earth Elements (REE) and Rare Metals (RM) carried out in the Gorhiyarwa–Bela area, Jamui and Banka districts, Bihar, during FS 2024–25.
- b. Based on integrated geological, geochemical, mineralogical, and analytical investigations, GSI delineated the Ghutiya Block (Block A) as a distinct REE–RM mineralized zone and recommended it for detailed exploration.
- c. The proposed block is underlain by intrusive granite and granite gneiss of the Chhotanagpur Gneissic Complex. Petrographic, heavy mineral, and EPMA studies confirmed the presence of allanite, monazite, bastnaesite, and Nb–Y-bearing pyrochlore, establishing the REE–RM fertility of the host granitoids.
- d. Bedrock samples yielded tREE values of 732.76–2117.07 ppm, with seven samples exceeding 1000 ppm, along with significant enrichment of Nb and Y, indicating strong primary REE–RM mineralization.

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- e. Soil auger, pit, and stream sediment samples also returned anomalous values, with tREE ranging from 404.68–658.23 ppm (soil auger) and 277.69–551.68 ppm (pit), while a stream sediment sample recorded REE+Sc+Y of 456.277 ppm, confirming widespread REE–RM mineralization within the proposed block.
- f. The occurrence of coincident anomalies in bedrock, soil auger, pit and stream sediment samples within a compact granitoid domain demonstrates a coherent, laterally persistent and geologically significant REE-RM mineralized system rather than isolated geochemical occurrences.
- g. The Committee reviewed the proposal and observed that no encouraging analytical values or well-defined potential zones have been identified within the proposed area.
- h. The Committee further observed that previous investigations have reported only sporadic anomalous values, which do not justify further exploration.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed Ghutia REE and RM Block, Banka District, Bihar, overlaps with the CHQ proposal (ID: M4C-RP/ST/NC/CHQ/CHQ/ 2027/203473) for FS 2027–28. Further, the proposal does not clearly specify whether exploration is intended for primary REE or secondary REE associated with regolith developed over granite gneiss and granite.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	As per supplied block coordinates the Ghutiya block doesn't overlap with any of our existing blocks in the area.
5	NMEDT	The proposed block do not overlap with NMEDT funded projects however the some area falls in Recorded Forest Area.

Recommendations of TCC-1:

The Committee did not approve the proposal, as the analytical values reported from the proposed area were not sufficiently encouraging to justify further exploration.

Agenda 101.2.2. Reconnaissance survey for Glauconitic Sandstone of Bhima Basin in Mudhol block, Kalaburgi District, Karnataka (G4-Stage & 136 Sq. Km)

Proposal ID: ME/IN/G4/KA/P/26-27/136

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

- a. The agency did not present material.
- b. The committee deferred the proposal to next TCC-I meeting.

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Sl. No.	Agency	Brief Comments
1	GSI	GSI has not undertaken exploration in and around the proposed NPEA area; however, Specialized Thematic Mapping (STM) was carried out during FS 2025–26, and the report is awaited. It is also noted that the area cited in the justification differs from that shown in the KML/block boundary coordinates.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	Awaited
4	State DMG/DGM/CGM	No exploration for glauconitic sandstone has been carried out by the Department in the proposed area. However, the proposal is based on GSI findings, and its feasibility may be assessed accordingly.
5	NMEDT	Buffer zone of the proposed block overlapped with the NMEDT funded project, titled as “Preliminary Exploration for Limestone in Kodangal Block” and the some area falls in Recorded Forest Area.

Recommendations of TCC-1:

The Committee deferred the proposal to the next TCC-I meeting, as the agency did not present the project proposal/material before the Committee.

Agenda 101.2.3. Preliminary Exploration (G3 Stage) for Base Metal and Associated Minerals in Kotnapani Block, Rajnandgaon District, Chhattisgarh Area: 125.34 sq. km Proposal ID: ME/IN/G3/CT/P/26-27/143

[Implementing Agency: M/s BMRC Geomining Solutions Pvt Ltd]

- The proposed block falls within Toposheet No. 64C/12 in Rajnandgaon District, Chhattisgarh, and forms part of the Proterozoic granitoid belt.
- The area is underlain by the Pitepani Formation of the Nandgaon Group, comprising andesites and porphyritic andesitic basalts, intruded by Dongargarh Granitoids, predominantly undeformed equigranular monzogranite showing intrusive relationships with the Bijli Rhyolite.
- The Committee was informed that approximately 60% of the proposed block falls within a Tiger Corridor.
- In view of the significant overlap with the Tiger Corridor, the Committee did not consider the proposal and recommended that it be dropped.

Sl. No.	Agency	Brief Comments
1	GSI	100% overlap with GSI previous work titled 'Reconnaissance survey for basemetals in Khursipar-Kotnapani area, Rajnandgaon District, Chhattisgarh (Stage: G4)' in FS 2022-23.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	Awaited
4	State DMG/DGM/CGM	Awaited

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5	NMEDT	The proposed block do not overlap with NMEDT funded projects however the some area falls in Tiger Corridor (58%) & Recorded Forest Area (55%).
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Recommendations of TCC-1:

The Committee did not approve the proposal, as a significant portion of the proposed area falls within a Tiger Corridor.

Agenda 101.2.4. Reconnaissance Survey (G4 Stage) for REE, Zr, Hf, V, Ti and associated minerals in Manthani block in Peddapalli and Mancherial districts, Telangana

Proposal ID: ME/IN/G4/TG/P/26-27/142

[Implementing Agency: M/s Critical Mineral Trackers]

- The proposed Manthani Block is located in Peddapalli and Mancherial districts of Telangana, falls within Survey of India Toposheet No. 56N/10, and forms part of the Godavari Rift Basin.
- The block is underlain by ferruginous sandstone, sandstone, mudstone, calcareous claystone, and quartzite, which are in contact with grey biotite granite of the Peninsular Gneissic Complex (PGC).
- The Committee was informed that a significant part of proposed area falls within a Wildlife Sanctuary.
- In view of the significant overlap with a Wildlife Sanctuary, the Committee did not consider the proposal and recommended that it be dropped.

Sl. No.	Agency	Brief Comments
1	GSI	As most of the Kamthi Formation with encouraging REE values falls within Reserved Forest/Wildlife Sanctuary areas, and the Pakhal Group rocks outside these areas exhibit relatively low REE values, the G4-stage exploration proposal for the Manthani Block by M/s Critical Minerals Trackers (CMT) may not be feasible.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/C GM	Most of the proposed block area is falling in Reserve Forest land and Shivvaram Crocodile wild life sanctuary on Godavari River.
5	NMEDT	The proposed block do not overlap with NMEDT funded projects however the some area falls in Wildlife Sanctuary & Recorded Forest Area.

Recommendations of TCC-1:

The Committee did not approve the proposal, as a significant portion of the proposed area falls within a Wildlife Sanctuary.

Agenda 101.2.5. Preliminary Exploration (G-3 Stage) for Cu and Associated Basemetal in Balwanta & Rajosi Area, Ajmer District, Rajasthan.

Proposal ID: ME/IN/G3/RJ/P/26-27/145

[Implementing Agency: M/s Vardan Environet LLP]

- The proposed block falls within the Banded Gneissic Complex (BGC) terrain of

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Rajasthan and comprises high-grade metasedimentary rocks and acid intrusives of the Sandmata Complex (Bhilwara Supergroup), along with the western part of the Mangalwar Complex and the eastern part of the Ajabgarh Formation (Delhi Supergroup).

- b. The area is characterized by quartz-chlorite schist with quartzite bands, highly sheared porphyritic granite, mylonitic granite, porphyritic gneissic granite, and amphibolite.
- c. GSI carried out LSM and G4-stage exploration (FS 2022–23), which identified surface evidences of copper mineralization in the form of malachite–azurite staining, ferruginization, hydrothermal breccia, tectonised contacts, and fresh sulphides. Bedrock and channel sampling delineated five copper mineralized zones (300–500 m strike length and 15–40 m width), with Cu values ranging from 400 ppm to 0.61% in bedrock samples and 900 ppm to 0.58% in channel samples.
- d. The agency collected 8 samples, of which 3 returned encouraging copper values. The Committee also noted that MECL had undertaken NMEDT-funded G4-stage exploration for emerald during FY 2021–22, and that although multiple mining leases exist within the proposed block, DMG informed that some leases have since been cancelled.
- e. The Committee observed that the exploration results generated by GSI, together with the analytical results obtained by the agency, indicate promising potential for further copper exploration.
- f. Accordingly, the Committee recommended that the agency may submit a Detailed Project Report (DPR) after obtaining clarification from the Ajmer Development Authority (ADA) and the Directorate of Mines & Geology (DMG), Rajasthan, regarding the requirement of a No Objection Certificate (NOC) for undertaking exploration in the proposed area.

Sl. No.	Agency	Brief Comments
1	GSI	Surface evidence of malachite, azurite, and chalcopryrite, along with spot sample values ranging from 2,200 ppm to 2,800 ppm and earlier GSI exploration data, indicate good potential for copper and associated mineralization in the area.
2	MECL	The proposed block overlaps with MECL's G4 Emerald exploration in Rajgarh Block, Ajmer; however, as the proposed commodity is Copper and associated base metals, the proposal may be considered.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	In the proposed block area only RMS work was done under the above project works. During the RMS work, amphibolite, Granit/granite gneiss & pegmatite rocks were mapped in the proposed block area. The block has been marked with the following areas under Minor Minerals: Granted Areas (M.L. Nos. 40/2008, 41/2008, 42/2008, 44/2008, and 2/2009) and Reserved Areas (108/2008, 55/2007, 57/2007, 193/2009, 304/2008, 302/2008, 401/2008, and 61/2007). No LOI, Composite

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		Licence (CL), or Quarry Licence (QL) areas fall within the proposed block. As per the Rajasthan Gazette Notification dated 25.09.2013, the proposed block falls within the ADA area.
5	NMEDT	Proposed block is overlapping with NMEDT funded project of MECL at G4 stage (FY 2021-22) for Emerald and multiple Mining leases of Minor Minerals are present within the proposed block.

Recommendations of TCC-1:

The Committee accorded in-principle approval to the proposal, subject to the agency obtaining clarification from the Ajmer Development Authority (ADA) and the Directorate of Mines & Geology (DMG), Rajasthan, regarding the requirement of a No Objection Certificate (NOC) from the ADA for undertaking exploration in the proposed area.

The agency may submit DPR within 2 months.

Agenda 101.2.6. Reconnaissance survey (G4) for Aluminous Laterite, Vanadium, Titanium and associated Critical minerals in Baridabad Block, Bidar district, Karnataka.

Proposal ID: ME/IN/G4/KA/P/26-27/149

[Implementing Agency: M/s MMPL Pvt. Ltd.]

- The proposal was not presented by the agency as M/s. GMMCO Technology Services Ltd. had also submitted proposal in the same area.
- The project of GMMCO has been discussed in TCC-2 meeting.

Sl. No.	Agency	Brief Comments
1	GSI	The exploration carried out in adjacent areas of the proposed block by GSI shows that the area may be feasible for further exploration.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	No exploration has been undertaken by the Department in the proposed area. However, the G4 exploration proposal for V-, Sc-, and Ti-bearing aluminous laterite in the Ghodepalli Block (M/s GMMCO Technology Services Ltd.) partially overlaps the present block by about 36.79 sq. km, for which the Department's comments have already been communicated.
5	NMEDT	The proposed block overlaps with the deferred M/s GMMCO Technology Services Ltd. proposal and the GSI Manhalli Block (FS 2027-28). No overlap with NMEDT-funded projects exists; however, 9.6% of the area falls within a Wildlife Sanctuary and Recorded Forest Area.

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Recommendations of TCC-1:

The Committee did not approve the proposal, observing that the proposed area had already been submitted by another NPEA and had been considered in the TCC-II meeting.

Agenda 101.2.7. Reconnaissance Survey (G-4 Stage) for Aluminous Laterite, Vanadium Titanium and Associated critical Minerals in Bhadrapur- Karaknali area, Bidar, Kalaburagi District, Karnataka Proposal ID: ME/IN/G4/KA/P/26-27/157

[Implementing Agency: M/s MMPL Pvt. Ltd.]

- The proposed Bhadrapur–Karaknali Block is situated within the northern Deccan Trap province of Bidar District, where thick ferruginous and aluminous laterite profiles have developed over basalt. The block lies adjacent to the Nirna Critical Mineral Block, where detailed investigations have established enrichment of vanadium, scandium, titanium, REE, and associated critical minerals.
- The proposal is supported by encouraging NGCM geochemical data from 29 samples, which recorded TiO_2 >4% in 7 samples, 3–4% in 11 samples, and 2–3% in 11 samples; Al_2O_3 >20% in 14 samples and 15–20% in 15 samples; vanadium >500 ppm in 7 samples, 400–500 ppm in 11 samples, and 300–400 ppm in 11 samples; and scandium >100 ppm in 5 samples, 50–100 ppm in 16 samples, and 30–50 ppm in 8 samples.
- GSI has already undertaken G4-stage exploration in the eastern part of the proposed block during FS 2025–26, and the Geological Report is under preparation. The Committee was also informed that nearly 50% of the proposed area falls within an Eco-Sensitive Zone (ESZ), as per the PM Gati Shakti Portal.
- The Committee observed that the proposed area overlaps with GSI's ongoing G4-stage exploration project and also falls within the Eco-Sensitive Zone. Accordingly, the Committee advised the agency to revise the proposal by excluding the overlapping area and ESZ, and to explore the possibility of extending the block towards the western and north-western side of the proposed area.
- The committee did not approve the proposal in present form. The agency was suggested to modify the area and resubmit proposal for in-principle approval.

Sl. No.	Agency	Brief Comments
1	GSI	The exploration carried out in adjacent areas of the proposed block by GSI shows that the area may be feasible for exploration.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	No exploration for V, Sc, and Ti-bearing aluminous laterite has been undertaken by the Department. However, GSI's CMAP assessment (FS 2024–25) in the adjacent Vitalapur–Nirma Block, Bidar District, may be considered for evaluating the proposal. No CL or ML exists within the proposed block, although it partly falls within the Chincholi Wildlife Eco-Sensitive Zone.

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5	NMEDT	The proposed block do not overlap with NMEDT funded projects however the some area falls in Recorded Forest Area (51%) and Eco Sensitive Zone (31%).
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Recommendations of TCC-1:

The committee did not approve the proposal in present form as the area falls in ESZ. The agency was suggested to modify the area and resubmit proposal for in-principle approval.

**Agenda 101.2.8. Preliminary Exploration (G-3 Stage) For Limestone in Punjai Edayar Kelmugam (6 Sq. Km), Namakkal District, Tamil Nadu
Proposal ID: ME/IN/G3/TN/P/25-26/031**

[Implementing Agency: M/s Geo Exploration and Mining Solution]

- The proposal was earlier considered during the 94th TCC-I meeting under the block name Palappatti–Pillaikalathur for G3-stage exploration.
- The Committee had observed that the proposed area was too large for G3-stage exploration and advised the agency to verify the status of earlier G4 exploration, undertake a field visit, study the disposition of limestone bands, collect representative samples, and submit a revised proposal for G4/G3-stage exploration.
- The agency re-presented the proposal; however, the Committee observed that the proposal remained unchanged, with the proposed area continuing to cover 54 km².
- Accordingly, the Committee advised the agency to submit a revised proposal in line with the recommendations of the 94th TCC-I meeting, after excluding the overlapping areas.

Sl. No.	Agency	Brief Comments
1	GSI	As per the 1:50,000 geological map, the continuous/discontinuous bands of limestone/calc granulite with limestone has been mapped for a strike length of 17km occurring in the form of folded nature. The G-3 proposal as submitted may help in assessing the grade of the limestone and estimating the limestone resources under G-3 category.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	A QL for rough stone (2.47.50 ha) exists in S.F. Nos. 466/1 and 466/2, Punjai Edaiyar Keelmugam Village, Namakkal District. It is proposed that G3-level limestone exploration in the Palappatti–Pillakalathur Block be undertaken after excluding the leased area.
5	NMEDT	The proposed Namakkal block do not overlap with NMEDT funded projects.

Recommendations of TCC-1:

The Committee did not approve the proposal and advised the agency to submit a revised proposal in accordance with the recommendations made during the 94th TCC-I meeting.

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Agenda 101.2.9. Preliminary Survey for Copper and Associated Mineral in Pacheri Block, Tehsil Khetri, Jhunjhunu District of Rajasthan (G3)

Proposal ID: ME/IN/G3/RJ/P/26-27/123

[Implementing Agency: M/s Southwest Pinnacle Exploration Pvt. Ltd.]

- a. The proposed Pacheri Block forms the north-eastern extension of the North Khetri Copper Belt. Detailed exploration by GSI (1976–81), following earlier geological and geophysical investigations, included 1:2000 scale geological mapping, 18,471.25 m of drilling in 51 boreholes, and analysis of 4,664 core samples for Cu, Ni, and Co.
- b. The investigation established the northeastward continuation of the Khetri Copper Belt beneath alluvial cover from Singhana to Muradpur and Pacheri over a strike length of about 12 km, and delineated copper resources of 3.06 Mt @ 0.83% Cu in the Singhana Central Sub-block and 1.11 Mt @ 0.71% Cu in the Muradpur Central Sub-block.
- c. In the Pacheri Block, three boreholes were drilled, of which only DHP-1 intersected a 1.35 m true width copper mineralized zone grading 0.75% Cu, while the remaining two boreholes encountered only patchy low-grade mineralization (0.1–0.2% Cu). Subsequent exploration by MECL in adjoining blocks established continuity of mineralization up to 500 m depth.
- d. The Committee observed that extensive exploration has already been carried out by GSI and MECL in and around the proposed block. Accordingly, the Committee advised the agency to submit a revised proposal for in-principle approval, supported by adequate evidence of mineralization within the proposed exploration area.

Sl. No.	Agency	Brief Comments
1	GSI	The results of previous investigations indicate that the Cu mineralization exhibits a pinch-and-swell nature, with poor continuity in both width and grade, even after close-spaced drilling (<200 m) undertaken during the later phase of exploration. Therefore, the area may be considered for further exploration only if supported by additional geological, geochemical, and/or geophysical evidence demonstrating favorable mineralization potential.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	Awaited
4	State DMG/DGM/CGM	Awaited
5	NMEDT	The proposed block do not overlap with NMEDT funded projects however the some area may fall into Aravalli buffer zone which may be verified from DGM Rajasthan.

Recommendations of TCC-1:

The Committee did not approve the proposal in present form and recommended that the agency submit a revised proposal for in-principle approval, supported by adequate evidence of mineralisation within the proposed exploration block.

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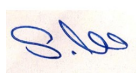
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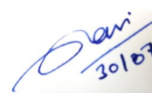
Agenda 101.3: Review of Ongoing Special Studies Project

Agenda 101.3.1. Undertaking geochemical analysis of mine samples of Siwana Ring Complex, Rajasthan by IBM through NMEDT fund.

[Implementing Agency: IBM]

- a. IBM informed the committee that the project has been completed and GR has been submitted to NMEDT.
- b. The agency presented the outcome of project and informed the committee that Chondrite-normalized REE patterns indicate highly evolved, fractionated A-type granitoids characterized by LREE enrichment and a pronounced negative Eu anomaly, while primitive mantle-normalized multi-element patterns show enrichment in HFSEs and incompatible elements, confirming favourable conditions for REE and associated critical mineral mineralization.
- c. TREE values range from 360–6,263 ppm in granite leases and 639–5,558 ppm in masonry stone leases, with corresponding LREE values of 212–5,534 ppm and 447–4,120 ppm, respectively.
- d. HREE values range from 73–750 ppm (granite) and 72–824 ppm (masonry stone), while HREE+Y values range from 73–1,500 ppm and 117–1,600 ppm, indicating significant enrichment of heavy rare earth elements.
- e. The granitoids also show enrichment in associated critical elements, with Zr up to 1.9%, Hf up to 482 ppm, and Th up to 152 ppm, further enhancing the REE–critical mineral potential of the area.
- f. The Committee was apprised that geochemical and mineralogical investigations confirmed the presence of primary REE-bearing minerals within highly evolved A-type granitoids, with significant enrichment of REEs and associated critical elements (Y, Zr, Hf, Nb, Ta, Th, U, W, and Ga), establishing the Siwana Ring Complex (SRC) as a regional REE–HFSE metallogenic system.
- g. The Committee was further informed that TREE concentrations reached up to 6,263 ppm in granite leases and 5,558 ppm in masonry stone leases (average >2,000 ppm), with the Deora–Fulan–Rakhi–Maili–Balu, Indrana–Siner, Kuship, and Mavdi clusters identified as priority exploration targets, and a maximum TREE grade of ~0.69 wt.%, comparable to globally significant peralkaline REE systems.
- h. IBM recommended to undertake detailed mineralogical, beneficiation, and metallurgical studies to identify the principal REE-bearing phases and assess the recovery potential of REEs and associated critical elements (Y, Nb, Ta, Zr, Hf, Th, and U).
- i. The Committee was further informed that the Indrana–Nalgoda–Siner and Deora–Fulan–Rakhi–Maili–Balu clusters have been identified as priority targets for detailed exploration and may also be considered for Exploration Licence (EL) blocks, with the competent authority to take an appropriate decision regarding continuation or termination of existing mineral concessions based on the assessed REE–HFSE potential.
- j. The Committee reviewed the work carried out and observed that beneficiation studies could have been undertaken concurrently with the investigation to better assess the recovery potential of the identified mineralization.
- k. The agency informed the Committee that an expenditure of ₹38.48 lakh had been incurred against the approved project cost of ₹70.01 lakh.

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Recommendations of TCC-1:

The Committee reviewed the work carried out and observed that beneficiation studies could have been undertaken concurrently with the investigation to better assess the recovery potential of the identified mineralization.

101.4: Review of Ongoing Exploration Project & Timeline Extension

Agenda 101.4.1. Reconnaissance Survey (G4) for Bauxite in Kalychohra block, Rayagada district, Odisha

[Implementing Agency: DMG Odisha]

- a. DMG Odisha informed that the project was approved in the 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 24th February, 2025 with timeline of 12 months (up to 23.02.2026) and approved cost was INR 99,55,620/-.
- b. Timeline was extended upto 30.06.2026 and 31.07.2026 during 8th and 10th meeting of PSC respectively.
- c. The agency informed that the Geological Report (GR) has been submitted. However, as the drilling and associated activities could not be completed, revision of the approved project cost has been requested.
- d. The Committee reviewed the cost sheet and revised it.

Recommendations of TCC-1:

The committee recommended revision of cost of project from Rs. 99.56 lakh to Rs. 31.52 lakh with a change in amount of (-) Rs 68.04 lakhs (~68.34 % de-escalation), for approval of PSC, NMEDT as per Annexure 5.

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Annexure 5

Revised Cost for Reconnaissance Survey (G4) for Bauxite in Kalychochra block, Rayagada district, Odisha

Approved Component					Approved Cost		Proposed revision of cost estimate (As per SoC 2020-21)		Remarks
S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimate Cost of the Proposal				
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	Qty. (c)	Total Amount (Rs) (a*c)	
A	Geological Mapping Other Geological Work & Surveying								
i	Geological Mapping, Core Logging (Charges for one Geologist per day at field Rs.11000/-) :14000 Scale, Contouring	day	1.2	11,000	150	1650000	100	1100000	
ii	Labours Charges; Base rate	day	5.7	526	300	157800	126	66276	
iii	Charges for one Geologist per day Rs. 9000/-	day	1.2	9,000	45	405000	30	270000	
iv	Sampler	day	1.5.2	5,100	52	265200	14	71400	
v	Labours (4 Nos) Base Rate	day	5.7	526	208	109408	56	29456	
	Sub Total-A					2587408		1537132	
B	Survey work -Outsourced								
a	Survey Party days (One Surveyor charges)	day	1.6.1a	8,300	45	373500	45	373500	
b	Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes by DGPS	Per Point of observation	1.6.2	19,200	15	288000	0	0	
c	Labours (4 Nos) Base Rate	day	5.7	526	0	0	0	0	

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	Sub-Total B					661500		373500	
C	Mineral Investigation								
	Drilling (Outsourcing)								
1	Drilling (10 BHs X 30m depth each)- soft rock	m	2.2.1.4a	7,168	300	2150400	0	0	
2	Approach Road making for Rugged-Hilly terrain	per km	2.2.10b	32,200	0	0	0	0	
3	Drill core Preservation	Per m	5.3	1590	300	477000	0	0	
	Sub Total-C					2627400		0	
	Geophysical Survey		NA						
D	Laboratory Studies								
	Chemical Analysis (in-house)								
1	Primary samples for 5 radicals (Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , TiO ₂ and LOI)-220 core sample + 100 Grab/scrap sample by XRF	Per Sample	4.1.15a	4,200	320	1344000	100	420000	
2	Check samples Internal for 5 radicals (Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , TiO ₂ and LOI)-10% of 220 core sample	Per Sample	4.1.15a	4,200	0	0	0	0	
3	Check samples External for 5 radicals (Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , TiO ₂ and LOI)-10% Check	4.1.15a	Per Sample	4,200	32	134400	10	42000	
4	Composite samples for 5 radicals (Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , TiO ₂ and LOI)	4.1.15a	Per Sample	4,200	10	42000	0	0	
5	Determination of Trihydrate Alumina (THA-140° C)	4.1.17b	Per Sample	2,000	10	20000	0	0	
6	Determination of Monohydrate Alumina (MHA-240° C)	4.1.17c	Per Sample	3,500	10	35000	0	0	
7	ICPMS (34 elements Analysis including HREE & LREE) MECL/NGRI Lab.	4.1.14	Per Sample	7,731	10	77310	0	0	
8	Estimation of major oxides by XRF technique and 5 elements (Ti, S, P, Ga & Fe) (4200+(421*5))	4.1.15a	Per Sample	6305	20	126100	0	0	
	Sub total-D					1778810		462000	

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E	Petrological Studies (in-house)								
1	Preparation of standard thin section	4.3.1	Per Sample	2,353	10	23530	6	14118	
2	Preparation of polished section	4.3.2	Per Sample	1,549	10	15490	0	0	
3	Complete petrographic/ore microscopic study of rock sample	4.3.4	Per Sample	4,232	10	42320	6	25392	
4	Complete Mineragraphic study report of rock sample	4.3.4	Per Sample	4,232	10	42320	0	0	
5	Digital Photographs	4.3.7	Per Sample	280	10	2800	0	0	
	Sub Total-E					126460		39510	
F	Mineral Physics Studies (in-house)								
1	X-RD Studies	4.5.1	Per Sample	4,000	10	40000	4	16000	
	Sub Total-F					40000		16000	
G	Geotechnical Laboratory (in-house)								
1	Determination of in-situ bulk density	4.1	Per Sample	3,540	10	35400	4	14160	
	Sub Total-G					35400		14160	
H	Total A to G					7854946		2,442,302	
I	Total Outsourcing Cost					2,811,900		0	
J	Geological Report Preparation	5 Hard copies with a soft copy	5.2	ii/ (i)		392,849		150,000	
K	Peer review Charges		As per EC decision			30,000		30,000	
L	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5.0 Lakhs		1,57,140		48,846	

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Agenda 101.4.2. Preliminary Exploration (G-3 Stage) for Gold in Chinnikatti Block, Haveri District, Karnataka

[Implementing Agency: MTCS]

- a. The agency informed that the project was approved during 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 10th February, 2025 with timeline of 12 months (up to 09.02.2026) and approved cost was INR 4,69,08,089/-.
- b. Timeline was extended upto 09.05.2026 and 09.08.2026 during 5th and 7th PSC meetings respectively.
- c. The agency presented the progress of work and apprised the committee that Remote sensing, topographical survey, and geological mapping, including additional 1:2,000 scale detailed mapping as advised by the TCC-I, have been completed.
- d. Trenching (10 trenches; 200 CuM) and geophysical surveys (70 Lkm Magnetic & SP; 25 Lkm IP) have also been completed. Of the 100 trench samples analysed, four samples recorded gold values exceeding 0.04 ppm (40 ppb).
- e. Integrated interpretation of geological, geochemical, magnetic, and SP data indicates that gold mineralization is associated with the Argillite/Meta-argillite–BIF contact and coincides with negative SP anomalies along the BIF trend.
- f. Geochemical analysis is in progress, with 310 out of 660 samples (47%) analysed using ICP-MS and Fire Assay.
- g. Drillhole locations have been finalized based on integrated geological, geophysical, and geochemical interpretation.
- h. Sub-surface exploration drilling (1,000 m), core sample collection (300 samples), and associated laboratory studies (XRD, petrography, and specific gravity determination) are yet to be completed.
- i. The committee discussed the BH plan presented by agency and suggested that 1st BH to be proposed at the point where 5 ppm gold is reported. The committee further suggested that 3rd BH proposed by agency may be slightly shifted. The agency was suggested to keep the BH spacing as per MEMC Rules.
- j. The agency informed that Forest Clearance for drilling of 10 boreholes, completion of 1,000 m core drilling, sampling, laboratory analysis, preparation and peer review of the Geological Report, submission of the final GR on the NGDR Portal are the remaining activities under the project.
- k. In view of above the agency sought extension of the project timeline.
- l. The committee deliberated the request of agency and agreed for extension of timeline.

Recommendations of TCC-1:

The committee recommended timeline extension upto 08.02.2027 for approval of PSC of NMEDT. Timeline extension is recommended for completion of work and submission of GR.

Agenda 101.4.3. Reconnaissance Survey for gold and associated minerals in Killarhatti area, Koppal & Raichur, Karnataka

[Implementing Agency: MTCS]

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- a. MTCS Ltd. informed that the project was approved in the 38th EC Meeting held on 29th November, 2024. The Sanction Order was issued on 6th January, 2025 with timeline of 10 months (up to 05.12.2025) and approved cost was INR 3,74,34,976/-
- b. Timeline was extended upto 05.05.2026 and 31.08.2026 during 3rd and 8th PSC meetings respectively.
- c. The agency apprised the committee that remote sensing studies, geological mapping, magnetic and SP surveys, and bedrock geochemical sampling have been completed, while stream sediment sampling is 92% complete and geochemical analyses are in progress.
- d. The Committee was further apprised that exploratory drilling, trenching, trench/core sample collection, XRD and petrological studies are pending.
- e. The agency further informed that geological mapping established metabasalt, metarhyolite, chlorite schist, BIF, and quartz veins as the major lithologies, with NW–SE trending structures, shearing/mylonitisation, and prominent ferric, limonitic, sulphidic, and carbonate alterations.
- f. Gold mineralization is associated with quartz veins, BIF, and lithological contacts, with field evidence of intense deformation, folding, shearing, and carbonate alteration indicating a favourable structural setting for mineralization.
- g. The Committee was further informed that geochemical analysis of 173 samples delineated an anomalous zone of approximately 4.75 km², with 7 samples recording >50 ppb Au, 4 samples >100 ppb Au, a maximum Au value of 0.579 ppm, and a maximum Cu value of 1215 ppm, indicating localized gold and base metal mineralization.
- h. The agency further apprised the committee that the Total Magnetic Intensity (TMI), First Vertical Derivative (1VD), Upward Continuation (60 m and 100 m), and Self-Potential (SP) surveys have been completed and integrated with geological data to delineate structural trends and potential mineralized zones for further exploration.
- i. The Committee further noted that trench locations have been finalized based on integrated interpretation of geological mapping, geophysical data, geochemical results, structural features, BIF contacts, and site accessibility.
- j. The committee reviewed the progress of work and suggested agency to carry out trenching in soil covered areas in between where values of gold are reported in analysis.
- k. The Committee reviewed the progress of work and advised the agency to undertake trenching in the soil-covered intervening areas between locations reporting anomalous gold values, so as to establish the continuity of mineralization.
- l. The agency further informed that they are unable to carry out IP Survey due to active cultivation in the area.
- m. The agency sought timeline extension for completion of work.
- n. The committee agreed for timeline extension upto 31.12.2026.

Recommendations of TCC-1:

The committee recommended timeline extension upto 31.12.2026 for approval of PSC of NMEDT. Timeline extension is recommended for completion of work and submission of GR.

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Agenda 101.4.4. Reconnaissance Survey (G4) for REE and Associated Minerals in Maddur area, Narayanpet District, Telangana

[Implementing Agency: M/s Critical Mineral Trackers]

- a. Critical Mineral Trackers informed that the project was approved in the 43rd EC meeting held on 14th August, 2025. The Sanction Order was issued on 4th September, 2025 with timeline of 10 months (up to 03.07.2026) and approved cost was INR 1,31,12,292/-. Timeline of project was extended upto 31.07.2026 during 10th meeting of PSC.
- b. The agency informed the Committee that the Geological Report (GR) has undergone peer review and that the observations of the peer reviewer has been duly incorporated.
- c. The Committee reviewed the compliance with the peer reviewers' comments.
- d. The committee agreed for submission of Geological Report.

Recommendations of TCC-1:

The Committee instructed the agency to submit the Geological Report (GR) after incorporating the peer reviewers' comments and their compliance.

Agenda 101.4.5. Preliminary Exploration (G-3 Stage) for aluminous laterite and associated critical minerals in Govindagude & Sudigudde block, Udupi District, Karnataka

[Implementing Agency: M/s Critical Mineral Trackers]

- a. The agency informed that the project was during 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 10th February, 2025 with timeline of 6 months (up to 09.08.2025) and approved cost was INR 44,24,191/-.
- b. Timeline extension upto 31.10.2025, 31.01.2026, 31.03.2026 and 31.07.2026 was approved during 79th TCC-1, 3rd PSC, 5th PSC and 8th PSC meetings respectively.
- c. The agency informed the committee that forest clearance has not been received and hence pitting and drilling components of quantum of targets are still pending.
- d. The agency further apprised that, as per the prevailing guidelines, the authority to accord permission for survey and exploratory drilling presently lies with the PCCF Office, Bengaluru, and the proposal is still pending with PCCF, Karnataka for grant of forest clearance.
- e. The committee discussed the forest clearance issue in detail and suggested the agency to pursue the matter seriously with competent authorities.
- f. The committee agreed upon extending the timeline upto 31.10.2026.

Recommendations of TCC-1:

The committee recommended timeline extension of 4 months, upto 31.10.2026 for approval of PSC, NMEDT. Timeline extension is recommended for acquiring forest clearance, completion of work and submission of GR.

Agenda 101.4.6. Reconnaissance survey (G-4) for Diamond in part of a Palaeo-channel in Krishna Basin near Mangalagiri, Guntur Distt, Andhra Pradesh

[Implementing Agency: M/s Geo Marine Solutions Pvt. Ltd.]

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- a. The agency informed that the project was approved in the 38th EC Meeting held on 29th November, 2024. The Sanction Order was issued on 30th December, 2024 with timeline of 12 months (up to 29.12.2025) and approved cost was INR 2,06,54,529.17/-.
- b. The revised cost of Rs. 2,01,83,731.54/- was approved in 3rd meeting of PSC.
- c. Timeline was also extended upto 30.06.2026 during 3rd PSC meeting and upto 31.08.2026 during 10th PSC meeting.
- d. The agency requested revision of the project cost due to lower-than-anticipated core recovery.
- e. The committee opined that the re-costing may be discussed in next TCC-I meeting along with discussion on peer reviewers' comments.

Recommendations of TCC-1:

The review of project was deferred to next meeting of TCC-I.

Agenda 101.4.7. Preliminary exploration Survey (G3) for Iron ore in Gidhali-Chiklakasa block, Balod district, Chhattisgarh

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

- a. The agency informed that the project was approved in the 43rd EC Meeting held on 14th August, 2025. The Sanction Order was issued on 4th September, 2025 with timeline of 12 months (up to 03.09.2026) and approved cost was INR 1,96,09,403/-
- b. The agency informed that geological mapping, topographic and DGPS surveys, petrographic studies, and chemical analysis of all 320 surface samples have been completed. Nine exploration locations (five boreholes and four trial pits) have been finalized. 5 trenches have also been excavated.
- c. The agency further apprised the committee that Forest clearance for drilling has been obtained.
- d. Chemical analysis of 118 surface samples indicates wide compositional variation, with Fe₂O₃ ranging from 6.59–54.62%, Fe from 4.61–38.20%, and SiO₂ from 33.17–83.73%, along with minor concentrations of Al₂O₃, MgO, CaO, MnO, P, and K₂O.
- e. The Committee reviewed the progress of work and observed that the geological map does not depict structural data. It was further noted that the agency had not presented the proposed borehole locations or trench layout.
- f. The Committee instructed the agency to incorporate structural data in the geological map, prepare geological cross-sections, and present the project in the next review meeting for discussion and finalization of the borehole plan.

Recommendations of TCC-1:

The committee did not approve BH plan and suggested the agency to update geological map.

Agenda 101.4.8. Preliminary Exploration (G3) (Phase-I) For Ni, Co, PGE and associated minerals in J.C. Pura Mafic-Ultramafic Schist Belt near Rampura and Gollarahatti Block, Hassan District, Karnataka (Block area- 2 sq. km.)

[Implementing Agency: M/s GeoExpore Pvt. Ltd.]

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- a. The committee was informed that the project was approved in the 29th EC Meeting held on 31st March, 2023. The Sanction Order was issued on 17th April, 2023 with timeline of 10 months (i.e up to 16.02.2024) and approved cost was INR 82,87,108/-.
- b. Timeline was extended upto 30.04.2026, 30.06.2026 and 31.07.2026 by PSC in its 8th, 9th and 10th meetings respectively.
- c. The agency informed the Committee that the Geological Report (GR) has been peer reviewed and that the comments and suggestions of the peer reviewer have been duly incorporated.
- d. The agency sought timeline extension for submission of GR.
- e. The Committee reviewed and deliberated on the peer review comments and the corresponding compliance submitted by the agency.
- f. The Committee noted that the project was completed with a limited quantum of work, as a substantial portion of the planned activities could not be executed due to strong local agitation.
- g. In view of above, the committee opined that the project may be downgraded to G4 level report.

Recommendations of TCC-1:

The committee recommended timeline extension upto 15th August, 2026 for approval of PSC of NMEDT. Timeline extension is recommended for submission of GR.

The committee also recommended that the report may be downgraded to G4 stage report.

The title of project and GR may be changed to “Reconnaissance Survey, G4 (Phase-I) For Ni, Co, PGE and associated minerals in J.C. Pura Mafic-Ultramafic Schist Belt near Rampura and Gollarahatti Block, Hassan District, Karnataka (Block area- 2 sq. km.)”

Agenda 101.4.9. Reconnaissance Survey for Graphite in Dumburuneli Area, Rayagada, Odisha

[Implementing Agency: M/s MMPL Pvt. Ltd]

- a. MMPL Pvt. Ltd. informed that the project was approved in the 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 10th February, 2025 with timeline of 10 months (up to 09.12.2025) and approved cost was INR 1,37,69,756/-
- b. Timeline was extended upto 31.05.2026 and 31.07.2026 during 7th and 9th meetings of PSC respectively.
- c. The agency informed the Committee that the Geological Report (GR) has undergone peer review and that the observations of the peer reviewer are being incorporated.
- d. The agency further informed that, owing to the large number of comments received, additional time is required to address the corrections and modifications.
- e. The Committee agreed to extend the project timeline and advised the agency to resubmit the project for review in the next TCC-I meeting after incorporating the peer review comments and prior to final submission of the Geological Report.

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Recommendations of TCC-1:

The committee recommended timeline extension upto 15.08.2026 for approval of PSC, NMEDT. The extension of timeline is recommended for submission of GR.

Agenda 101.4.10. Preliminary Exploration (G3) of Bauxite, Titanium and Associated Minerals in Harhapat Bauxite Block, Gumla, Jharkhand

[Implementing Agency: JEMCL]

- a. JEMCL informed the committee that the project was approved in the 37th EC Meeting held on 23rd September, 2024. The Sanction Order was issued on 28th October, 2024 with timeline of 10 months (up to 27.08.2025) and approved cost was INR 73,85,536/-.
- b. Timeline was extended upto 28.02.2026 and 31.07.2026 during 2nd and 9th meetings of PSC.
- c. The agency informed that substantial progress has been achieved since the last review. Tendering for 10% external check chemical analysis, specific gravity determination, and petrographic studies has been completed, and primary chemical analysis of all 111 core samples has been finalized.
- d. The agency informed that finalisation of the resource estimation and Geological Report is contingent upon receipt of the pending laboratory results, including external check analysis, specific gravity determination and petrographic studies.
- e. In view of above, the agency sought extension of timeline upto 31.10.2026 for submission of GR.
- f. The Committee reviewed the progress of work and advised the agency to complete the pending laboratory studies, finalize the resource estimation, prepare the Geological Report (GR), and submit it for peer review.
- g. The Committee further advised the agency to resubmit the project for review after incorporating the comments and recommendations of the peer reviewer.
- h. The committee recommended for extension of timeline.

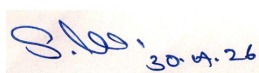
Recommendations of TCC-1:

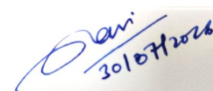
The committee recommended timeline extension upto 15.09.2026 for approval of PSC, NMEDT. The extension of timeline is recommended for submission of GR.

Agenda 101.4.11. Preliminary Exploration (G3) for Graphite and associated minerals in Jarapa Block, District: Rayagada, Odisha

[Implementing Agency: M/s Eartnenviro Labs Pvt. Ltd]

- a. The agency informed the committee that the project was approved in the 3rd PSC Meeting held on 15th December, 2025. The Sanction Order was issued on 8th January, 2026 with timeline of 12 months (up to 9th January 2027) and approved cost was INR 2,57,61,509/-.
- b. The agency apprised the committee that detailed geological mapping (1:4,000 scale) was completed, delineating lithological units and structural features, and 25 BRS and 13 channel samples were collected and chemically analysed.





- c. The agency informed that detailed mapping delineated three major graphite bands and one local graphite band, with strike lengths ranging from approximately 21 m to 400 m and widths of 8–20 m.
- d. To evaluate the depth continuity and grade of the mineralization, the proposal envisages drilling eight boreholes at 200 m spacing across the identified graphite bands.
- e. The proposal also includes Self Potential (SP) geophysical surveys covering approximately 11 line km to trace the lateral continuity of the graphite-bearing horizons.
- f. Chemical analysis of 26 BRS and 13 channel yielded graphite mineralization, with Fixed Carbon (FC) values ranging from 2.75–10.66% and 1.64–8.59%, respectively.
- g. The agency further informed that The forest clearance proposal has been submitted through the PARIVESH 2.0 portal and is under processing. Compliance to the Essential Details Sought (EDS) will be submitted after approval of the proposed boreholes and geophysical survey.
- h. The proposal sought approval for geophysical survey (13 line km SP and magnetic survey), followed by pitting, trenching, and phased drilling of 15 boreholes (900 m) to delineate and evaluate graphite mineralization.
- i. The agency further requested revision of the cost estimates to undertake the geophysical survey and drilling in-house instead of through outsourced agencies.
- j. The Committee reviewed the progress of work and advised the agency to complete the geophysical survey, pitting, and trenching, and present the findings before the Committee for further review.
- k. The Committee further advised that the drilling plan be finalized and discussed based on the results of the geophysical survey, pitting and trenching.

Recommendations of TCC-1:

The committee suggested the agency to complete the geophysical survey, pitting, and trenching, and present the findings before the Committee for further review.

101.5: Cost Evaluation of New Projects Proposals

The cost evaluation of projects was done and approved cost sheets are placed after each proposal.

101.6: Technical Evaluation of Mineral Exploration Proposals of Geological Survey of India (Additional Agenda)

Agenda 101.6.1. Preliminary (G-3) Exploration for REE and associated mineralisation in the Indrana West Block, Balotra District, Rajasthan

[Implementing Agency: GSI WR]

- a. The proposed block falls in SOI TS No. 45C/6 and forms part of the Siwana Ring Complex of the Malani Igneous Suite, a recognized Neoproterozoic peralkaline igneous province and India's most significant known REE-HFSE province, whose evolved intrusive phases are strongly enriched in REE and rare metals.

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- b. Previous investigations by GSI identified significant REE potential in the Siwana area, with rhyolites and associated tuffs yielding anomalous TREE values of 1,075–3,319 ppm, while surface sampling also indicated enrichment in LREE, Zr, Nb, Th, U and Ag.
- c. Subsequent G4-stage investigations confirmed widespread REE mineralization across different lithological units, with TREE+Y values reaching up to 2.66% and consistent enrichment of Zr, Nb, Ba, Zn, U, Th and Hf.
- d. G4 reconnaissance in the Indrana–Siwana area (2021) returned TREE+Y values of 265–8,985 ppm from BRS samples and 476–8,583 ppm from channel samples. Fourteen samples within the proposed block recorded 1,547–5,491 ppm TREE+Y.
- e. G3-stage drilling during FS 2025–26 in the adjacent Northwest Indrana block yielded encouraging core assay results, with TREE+Y ranging from 3,028–12,860 ppm and Nb from 279–1,412 ppm, supporting the proposed G3 investigation.
- f. The proposal envisages detailed mapping (1:2000 scale) over 1.25 km² and systematic drilling to delineate the extent, grade, thickness, and depth continuity of REE mineralization identified during earlier G4 investigations.
- g. The project was approved in 65th meeting of CGPB.
- h. The drilling plan comprises 11–12 first-level inclined boreholes (~130 m depth) at 200 m spacing, followed by 7–8 second-level inclined boreholes (~190 m depth), with a total drilling of approximately 2,800 m to establish the depth continuity, thickness, and grade of the mineralized zones.
- i. The committee deliberated the proposal and recommended for approval of PSC, NMEDT for funding of outsourced components of the proposal.

Recommendations of TCC-1:

The committee recommended the proposal titled “Preliminary (G-3) Exploration for REE and associated mineralisation in the Indrana West Block, Balotra District, Rajasthan” for approval of PSC, NMEDT with an estimated cost of Rs. 341.52 lakhs (including GST) within time schedule till 31.03.2027 for carrying out the proposed work and submission of report as per Annexure – 6A & 6B. The item will be reviewed after 3, 5 and 8 months.

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Annexure 6A

Estimated cost for Preliminary (G-3) Exploration for REE and associated mineralisation in the Indrana West Block, Balotra District, Rajasthan

Item of Work		Unit	SoC-Item - SI No. NMEDT	Rates as per NMEDT SoC 2025 (w.e.f. 15.12.2025, incl. 10.02.2026 modification)	Estimated Cost		Remarks	
					Qty.	Total Amount (Rs)		
A. SURVEY WORK								
1	Demarcation of block boundary, fixation of boreholes and determination of co-ordinates and reduced level (RL) of the boreholes by DGPS (including charges of labourers deployed for the work) - use of CORS Network system for all DGPS is compulsory	Per Point of observation	1.3.2		24000	25	600000	7 block-boundary points + 18 BH points = 25.
2	Charges of one qualified surveyor with Total Station for topographical survey in different RF and surface contouring, fixation of borehole and determination of co-ordinates and RL of boreholes with total station etc. (a) one surveyor per day (without labour) (up to 4 labourers per surveyor)	one surveyor per day	1.3.1		10500	20	210000	
3	Labour Charges for Survey work	Per day	As per Govt rates		556	80	44480	As per CLC / respective State Govt rates, whichever is higher (SoC 5.8, as modified 10.02.2026).
4	Drone Topographic Survey	per sq.km	7b		70000	1.25	87500	
Total Cost A (in case of outsourcing)							941980	Calculation given for reference purposes

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B. DRILLING - OUTSOURCED								
1	Drilling in Hard rock / Strata: HQ size borehole up to 400m depth and NQ beyond 400m; rate decreases 20% if NQ before 400m	m	2.2.1.1d		10000	2800	28000000	Peralkaline granite / rhyolite of the Siwana Ring Complex = HARD ROCK
Total Cost B - outsourced							28000000	
Total (Drilling + Survey)							28941980	
GST 18%							5209556.4	
TOTAL (including 18% GST)							34151536.4	
Say Rs. in Lakh							341.52	
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	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.							
4	Any item of work not mentioned above shall be added as per SoC.							
5	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency							

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Annexure 6B

Time Schedule/ Actin Plan for Preliminary (G-3) Exploration for REE and associated mineralisation in the Indrana West Block, Balotra District, Rajasthan

S.No.	Activities	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Jan-27	Feb-27	Mar-27
		1	2	3	4	5	6	7	8	9	10	11	12
1	Drone Topographic Survey: 1.25 sq km												
2	Sub-surface Exploration: Core Drilling (2800 m)												

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Agenda 101.6.2. Preliminary (G-3) Exploration for REE and associated mineralization in the Khera Khindawara Block, Balotra District, Rajasthan
(Proposal ID: ME/DD/G3/RJ/26-27/155)

[Implementing Agency: GSI WR]

- a. The proposed block falls in SOI TS No. 45C/6 and forms part of the Siwana Ring Complex of the Malani Igneous Suite, a recognized Neoproterozoic peralkaline igneous province and India's most significant known REE-HFSE province, whose evolved intrusive phases are strongly enriched in REE and rare metals.
- b. The proposal upgrades a previously identified G4 exploration target to the G3 stage for systematic subsurface evaluation of the mineralized zones.
- c. Preliminary investigations (GSI, 2013–14) identified significant REE potential in the Siwana Ring Complex, with rhyolites and associated tuffs yielding anomalous Σ REE values of 1,075–3,319 ppm, along with enrichment in LREE, Zr, Nb, Th, U, and Ag.
- d. Subsequent G4-stage investigations confirmed widespread REE mineralization across granites, younger intrusives, felsic volcanics, and associated lithologies, with Σ REE+Y values reaching up to 2.66%.
- e. The mineralization is LREE-dominant (LREE: HREE $\approx$ 4:1) and is associated with encouraging concentrations of Zr, Nb, Ba, Zn, U, Th, and Hf, indicating favourable potential for REE and associated critical minerals.
- f. The proposal envisages detailed mapping (1:2000 scale) over 3.0 km² and systematic drilling to delineate the extent, grade, thickness, and depth continuity of REE mineralization identified during earlier G4 investigations.
- g. The project was approved in 65th meeting of CGPB.
- h. The proposal envisages drilling 40 vertical boreholes on a 400 m $\times$ 200 m grid. Most first-level boreholes are planned to a depth of 100 m, while three boreholes will be extended to 200 m to assess the depth continuity, thickness, and grade of the mineralized zones.
- i. The committee deliberated the proposal and recommended for approval of PSC, NMEDT for funding of outsourced components of the proposal.

Recommendations of TCC-1:

The committee recommended the proposal titled “Preliminary (G-3) Exploration for REE and associated mineralization in the Khera Khindawara Block, Balotra District, Rajasthan” for approval of PSC, NMEDT with an estimated cost of Rs. 507.40 lakhs (including GST) within time schedule till 31.03.2027 for carrying out the proposed work and submission of report as per Annexure – 7A & 7B. The item will be reviewed after 3, 5 and 8 months.

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Annexure 7A

Estimated cost for Preliminary (G-3) Exploration for REE and associated mineralization in the Khera Khindawara Block, Balotra District, Rajasthan

Item of Work		Unit	SoC-Item -SI No. NMEDT	Rates as per NMET SoC 2025		Estimated Cost		Remarks	Remarks
						Qty.	Total Amount (Rs)		
1	Drilling in/ Drilling in Hard rock/ Strata: HQ size borehole upto 400m Depth and NQ Size beyond 400m depth in case of NQ size drilling is done before 400m depth, the rate shall decrease by 20%	m	2.2.1.1d		10,000.00	4300	₹ 43,000,000.00		40 boreholes. 37 boreholes with 100m length each and 3 boreholes with 200m length each
Total Cost D- outsourced							₹ 43,000,000.00		
Total							₹ 43,000,000.00		
GST 18%							₹ 7,740,000.00		
TOTAL (including 18% GST)							₹ 50,740,000.00		
							~ 5.07 Cr		

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	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.
4	Any item of work not mentioned above shall be added as per SoC.
5	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency

S. S. 30.04.26

D. S. 30/07/2026

Annexure 7B

Time Schedule/ Action Plan for Preliminary (G-3) Exploration for REE and associated mineralization in the Khera Khindawara Block,
Balotra District, Rajasthan

S. No.	Activities	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Jan-27	Feb-27	Mar-27
		1	2	3	4	5	6	7	8	9	10	11	12
1	Sub-surface Exploration: Core Drilling 4300 m)												

S. B. 30.4.26

D. B. 30/07/2026

Agenda 101.6.3. Preliminary exploration for potash in Makkasar west block, Satipura sub-basin, Nagaur-Ganganagar Evaporate Basin, Hanumangarh District, Rajasthan, G3 Stage (Proposal ID: ME/DD/G3/RJ/26-27/150)

[Implementing Agency: GSI WR]

- a. The proposed block falls in SOI TS No. 44K/02 and is located within the Satipura sub basin of Nagaur-Ganganagar evaporate basin.
- b. During FS 2016–17 to 2023–24, GSI completed nine G3-stage and one G2-stage investigations in the Satipura sub-basin, covering 64.55 km² and executing approximately 67,500 m of drilling through 88 vertical boreholes. G4-stage investigations were also carried out in the Hanseran, Jaitpura, and Bharusari sub-basins.
- c. The G3 investigations established significant inferred (UNFC-333) potash resources in nine blocks, totalling 1,017.50 million tonnes at 2% cut-off grade (average 3.87% K₂O), 192 million tonnes at 5% cut-off grade (average 9.70% K₂O), and 94.99 million tonnes at 8% cut-off grade (average 14.35% K₂O).
- d. The investigations also delineated gross inferred halite resources of 18,993 million tonnes at 31.47% cut-off grade (equivalent to 80% NaCl), with an average grade of 35.90% Na.
- e. The proposed Makkasar West Block is located between the previously explored Bawriyanwali Dhani SE and Makkasar G3 blocks, both of which have established substantial inferred (UNFC-333) potash resources, indicating favourable continuity of mineralization.
- f. GSI apprised the committee that the encouraging exploration results and established resources in the adjoining G3 blocks provide a strong justification for undertaking G3-stage exploration in the proposed Makkasar West Block.
- g. The proposal envisages detailed mapping (1:5000 scale) over 4.15 km² and systematic drilling to delineate the extent, grade, thickness, and depth continuity of prospective zones identified during earlier G4 investigations.
- h. The project was approved in 65th meeting of CGPB.
- i. The proposal envisages drilling six inclined boreholes, each of approximately 775 m depth, at about 800 m spacing, with a total sanctioned drilling of 4,600 m to establish the depth continuity, thickness, and grade of the mineralized horizons. 1,800 m of the total drilling is proposed as non-coring.
- j. The committee deliberated the proposal and recommended for approval of PSC, NMEDT for funding of outsourced components of the proposal.

Recommendations of TCC-1:

The committee recommended the proposal titled “Preliminary exploration for potash in Makkasar west block, Satipura sub-basin, Nagaur-Ganganagar Evaporate Basin, Hanumangarh District, Rajasthan, (G3)” for approval of PSC, NMEDT with an estimated cost of Rs. 415.36 lakhs (including GST) within time schedule till 31.03.2027 for carrying out the proposed work and submission of report as per Annexure – 8A & 8B. The item will be reviewed after 3, 5 and 8 months.

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S. B. 30.04.26

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Annexure 8A

**Estimated cost for Preliminary exploration for potash in Makkasar west block, Satipura sub-basin, Nagaur-Ganganagar Evaporate Basin,
Hanumangarh District, Rajasthan, (G3)**

Item of Work		Unit	SoC-Item -SI No. NMEDT	Rates as per NMEDT SoC 2025 (w.e.f. 15.12.2025, incl. 10.02.2026 modification)	Rates of GSI for NMEDT work	Estimated Cost		Remarks		
						Qty.	Total Amount (Rs)			
DRILLING - OUTSOURCED										
1	Drilling in Hard rock / Strata: HQ size borehole up to 400m depth and NQ beyond 400m; rate decreases 20% if NQ before 400m	m	2.2.1.1d		10000	-	-	2800	28000000	6 Vertical Boreholes. All boreholes are planned to a depth of 770-800 m
2	Non coring drilling	m	2.2.4		4,000.00			1800	7200000	Each borehole non coring drilling will be carried out up to 300m
Total Cost D - outsourced									35200000	
Total									35200000	
GST 18%									6336000	
TOTAL (including 18% GST)									41536000	
Say Rs. in Lakh									415.36	
Note:										
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.									
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.									
3	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.									
4	Any item of work not mentioned above shall be added as per SoC.									
5	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency									

S. S. 30.04.26

30/07/2026

Annexure 8B

Time Schedule/ Action Plan for Preliminary exploration for potash in Makkasar west block, Satipura sub-basin, Nagaur-Ganganagar Evaporate Basin, Hanumangarh District, Rajasthan, (G3)

S.No.	Activities	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Jan-27	Feb-27	Mar-27
		1	2	3	4	5	6	7	8	9	10	11	12
1	Sub-surface Exploration: Drilling (Coring: 2800m, Non-coring: 1800m)												

S. S. 30.4.26

S. S. 30/07/2026

S. Leo' 30.4.26

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Agenda 101.6.4. Preliminary Investigation for Potash in Jakharanwali South Block, Bharusari Sub-Basin, Nagaur-Ganganagar Evaporite Basin, Hanumangarh District, Rajasthan (G3)
(Proposal ID: ME/DD/G3/RJ/26-27/149)

[Implementing Agency: GSI WR]

- a. The proposed block falls in SOI TS No. 44K/03 and is located in the Bharusari sub-basin of the Nagaur–Ganganagar Evaporite Basin, where thick evaporite sequences of the Hanseran Evaporite Group host potash-bearing halite cycles within the Marwar Supergroup.
- b. The proposed programme upgrades the positive G4 exploration target to the G3 stage to establish the continuity, thickness, grade, and resource potential of potash-bearing horizons through systematic drilling, while also evaluating associated lithium and strontium mineralization within the evaporite sequence.
- c. GSI's exploration (1974–1991) in the Nagaur–Ganganagar Evaporite Basin delineated eight potash-bearing sub-basins. In the Bharusari sub-basin, six boreholes established 388.31 million tonnes of potash resources with an average grade of 4.68% K over 71 km².
- d. During FS 2016–17 to 2023–24, GSI completed nine G3, one G2, and multiple G4 stage investigations, establishing significant potash and halite resources in the Satipura sub-basin and advancing exploration in the Hanseran, Jaitpura, and Bharusari sub-basins.
- e. MECL (2020–2022) drilled 12 boreholes (7,868 m) in the Bharusari sub-basin, identifying seven halite cycles with potash-bearing horizons ranging from 1.0–15.5 m in thickness and 1.03–3.47% K grade.
- f. GSI's G4 investigation (FS 2023–24) in the Jakharanwali block intersected potash zones up to 3.24 m thick with weighted average grades of 7.10% and 18.00% K, along with lithium (up to 361 ppm) and strontium (up to 6,730 ppm), leading to the estimation of UNFC-334 reconnaissance resources and forming the basis for the proposed G3 stage exploration in the Jakharanwali South Block.
- g. The project was approved in 65th meeting of CGPB.
- h. The proposal envisages a cumulative drilling target of 3,500 m in five boreholes. Each vertical borehole is planned to a depth of 700–720 m, with 1,500 m of the total drilling proposed as non-coring.
- i. The committee deliberated the proposal and recommended for approval of PSC, NMEDT for funding of outsourced components of the proposal.

Recommendations of TCC-1:

The committee recommended the proposal titled “Preliminary Investigation for Potash in Jakharanwali South Block, Bharusari Sub-Basin, Nagaur-Ganganagar Evaporite Basin, Hanumangarh District, Rajasthan (G3)” for approval of PSC, NMEDT with an estimated cost of Rs. 306.80 lakhs (including GST) within time schedule till 31.03.2027 for carrying out the proposed work and submission of report as per Annexure – 9A & 9B. The item will be reviewed after 3, 5 and 8 months.

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30/09/2026

S. B. 30.04.26

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Annexure 9A

Estimated cost for Preliminary Investigation for Potash in Jakharanwali South Block, Bharusari Sub-Basin, Nagaur-Ganganagar Evaporite Basin, Hanumangarh District, Rajasthan (G3)

Item of Work		Unit	SoC-Item -SI No. NMEDT	Rates as per NMEDT SoC 2025 (w.e.f. 15.12.2025, incl. 10.02.2026 modification)		Rates of GSI for NMEDT work		Estimated Cost		Remarks
								Qty.	Total Amount (Rs)	
D. DRILLING - OUTSOURCED										
18.b	Drilling in Hard rock / Strata: HQ size borehole up to 400m depth and NQ beyond 400m; rate decreases 20% if NQ before 400m	m	2.2.1.1d		10000	-	-	2000	20000000	5 Vertical boreholes. All boreholes are planned to a depth of 700-720 m, which exceeds 400 m.
19	Non coring drilling	m	2.2.4		4,000.00			1500	6000000	Each borehole non coring drilling will be carried out up to 300m
Total Cost D - outsourced									26000000	
Total									26000000	
GST 18%									4680000	
TOTAL (including 18% GST)									30680000	
Say Rs. in Lakh									306.8	
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	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.									
4	Any item of work not mentioned above shall be added as per SoC.									
5	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency									

S. S. 30.04.26

D. S. 30/07/2026

Annexure 9B

**Time Schedule/ Action Plan for Preliminary Investigation for Potash in Jakharanwali South Block, Bharusari Sub-Basin,
Nagaur-Ganganagar Evaporite Basin, Hanumangarh District, Rajasthan (G3)**

S.No.	Activities	Apr- 26	May- 26	Jun- 26	Jul- 26	Aug- 26	Sep- 26	Oct- 26	Nov- 26	Dec- 26	Jan- 27	Feb- 27	Mar- 27
		1	2	3	4	5	6	7	8	9	10	11	12
1	Sub-surface Exploration: Drilling (Coring: 2000m, Non- coring: 1500m)												

S. S. 30.4.26

Sanj 30/07/2026

S. Leo' 30.4.26

Orani
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101.7 Review of Ongoing Procurement Projects

Agenda 101.7.1. Procurement of 4 No. EPMA Instruments

[Implementing Agency: GSI]

- a. The proposal has reference to the procurement of four Electron Probe Micro Analyser along with required accessories and spares including 05 years' warranty and 05 years of post-warranty CAMC required for four offices of GSI at Hyderabad, Bengaluru, Jaipur & Faridabad.
- b. The Committee was apprised that approval has been received by Geological Survey of India vide letter No. 6/2/2015-NMET/265 dated 14.08.2024 from NMEDT for procurement of four EPMA instruments at an estimated cost of ₹62.40 crore (based on erstwhile USD exchange rate of ₹84), along with required accessories, spares, 5-year warranty, and 5-year post-warranty CAMC.
- c. The committee was further apprised that the cost was revised from Rs. 62,39,52,000/- to Rs. 69,65,81,692/- by EC during its 46th meeting.
- d. GSI further informed that LOA has been issued to M/s Jeol India Pvt. Ltd. and SLA has been signed.
- e. It was further informed that Purchase Orders have been issued on 30.06.2026 to the concerned firm and as per T&C of PO, the delivery is to be completed by 12 months from the date of opening of LC (i.e. latest by 31.07.2027) followed by additional timeline required for successful installation, commissioning and training of scientific personnel.
- f. In view of above, GSI sought timeline extension till 31.12.2027 to complete the procurement.
- g. The Committee reviewed the progress of the project and enquired about the status of procurement. The agency informed that two instruments are expected to be supplied within 4–5 months, while the remaining two instruments are likely to be delivered in 2027.
- h. The committee further enquired about the site preparedness for installation of 2 instruments that is likely to be supplied in next 4-5 months.
- i. The Committee instructed the agency to submit a detailed self-contained note outlining the month-wise milestones, along with timelines and justification for each milestone.
- j. The committee recommended timeline extension upto 31.12.2027 for approval of PSC, NMEDT.

Recommendations of TCC-1:

The committee recommended timeline extension upto 31.12.2027 for approval of PSC, NMEDT.

The extension of timeline is recommended for completion of procurement.

Agenda 101.7.2. Procurement of Magneto-Telluric (MT) instruments, semi-rugged laptops, software and workstations by GSI

[Implementing Agency: GSI]

- a. The Committee was apprised that approval has been received by Geological Survey of India from NMEDT for procurement of Magneto-Telluric (MT) instruments, semi-rugged laptops, software and with an estimated cost of 31,16,31,731/-. The procurement was sanctioned on 14.07.2025 for a period of 1 year (upto 13.07.2026).

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- b. The Committee was informed that the procurement of the Magnetotelluric (MT) Instrument is in progress. Following the cancellation of the initial GeM bid due to non-participation of bidders, MII exemption was obtained from the Ministry of Mines, and a fresh GeM bid was floated on 15.07.2026.
- c. The Committee was further informed that the procurement of WinGLink Software is under progress. Following cancellation of the initial GeM bid, MII exemption was obtained from the Ministry of Mines, and a fresh GeM bid was floated on 01.07.2026.
- d. GSI further informed that the procurement of workstations is under progress. Although the Technical Evaluation Committee (TEC) completed the technical evaluation and the price bid was opened, the procurement could not be finalized as the L1 bidder was unable to execute the contract, and the L2 bid was substantially higher, leading the TEC to recommend cancellation of the tender.
- e. GSI summarized that the GeM bids for the MT Instrument and WinGLink Software were floated on 15.07.2026 and 01.07.2026, respectively, while the workstation procurement is pending re-tendering following the TEC's recommendation to cancel the bid due to non-execution by the L1 bidder and the higher price quoted by the L2 bidder.
- f. The Committee reviewed the progress and observed that, although the MII exemption was granted on 26.05.2026, GSI floated the tender only on 01.07.2026, resulting in an avoidable delay in the procurement process.
- g. The Committee instructed the agency to submit a detailed self-contained note outlining the month-wise milestones, along with timelines and justification for each milestone.
- h. The committee recommended timeline extension upto 12.07.2027 for approval of PSC, NMEDT.

Recommendations of TCC-1:

The committee recommended timeline extension upto 12.07.2027 for approval of PSC, NMEDT.

The extension of timeline is recommended for completion of procurement.

Agenda 101.7.3. Financial assistance from NMET funds to procure machinery/ laboratory equipment/instruments etc. aimed at enhancing the exploration activities.

[Implementing Agency: DMM Sikkim]

- a. The project for procurement of exploration machinery, laboratory equipment, and instruments for DGM, Sikkim was approved EC in its 28th meeting held on 16th March 2023, at a sanctioned cost of ₹2,07,05,140 with a duration of 12 months.
- b. Timeline was extended upto 31.03.2025 and 30.09.2025 during 37th EC and 42nd EC meetings respectively.
- c. Out of the 17 approved instruments, four items were procured through the GeM portal, and a Utilisation Certificate for ₹76.90 lakh was submitted to NMET on 19th July 2024, along with a request for extension of the project timeline and release of the remaining 60% of funds.
- d. The agency informed that although bids for the remaining instruments were finalized in January 2025, procurement was deferred due to non-release of funds. Following

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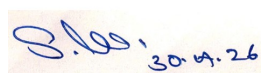
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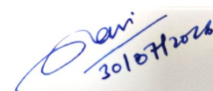
release of the second tranche of ₹80.27 lakh in March 2025, Cabinet approval was obtained in July 2025 and the supply order was issued to the L1 bidder in August 2025.

- e. The agency further informed that all remaining 13 instruments/equipment have been received by DGM, Sikkim, and part payment has been released to the supplier. Procurement documents have been submitted to NMET, and the Department has requested release of the final instalment of ₹41.41 lakh.
- f. NMEDT informed that the remaining 20% of the sanctioned funds could not be released as the project timeline had expired in September 2025.
- g. The agency requested extension of the project timeline up to September 2026 and release of the final instalment of ₹41.41 lakh, after which the balance payment to the supplier will be made and the project will be formally closed.
- h. The Committee reviewed the procurement progress and observed that, although the project had been significantly delayed, the procurement process has now been completed.
- i. The committee agreed for extension of timeline for completion of procurement project.

Recommendations of TCC-1:

The committee recommended timeline extension upto 30.09.2026 for approval of PSC, NMEDT. The extension of timeline is recommended for completion of procurement.

30.09.26

30/09/2026

**List of participants who attended the 101st Meeting of
Technical-cum-cost Committee (TCC-I) of NMEDT held on
27th and 28th July 2026 through video conferencing mode**

S.no	Name	Designation	Email ID	Contact No	Organization
1.	Dr. S. Ravi	Dy. Director General, GSITI, Hyderabad	s.ravi1@gsi.gov.in	9441138834	Chairman, TCC-1
2.	Shri. I.R. Kirmani	ADG (Retd.), GSI	irkirmani@yahoo.com	9414014723	Member TCC-1
3.	Shri. M. Mohan	Dy. Director General (Retd.), GSI	mariappan.mohan@gmail.com	9423686547	Member TCC-1
4.	Shri. K. Koteswara Rao	Dy. Director General (Retd.), GSI	kkrao1957@gmail.com	9000117969	Member TCC-1
5.	Dr. S. K. Kulshrestha	DDG-RMH-III, NER, GSI, Shillong	s.kulshrestha@gsi.gov.in	9413330658	Member TCC-1
6.	Shri A. R. Mukundhan	Regional Director, AMD, South Central Region	mukuagaram@rediffmail.com	6303606347	Member TCC-1
7.	Dr. E.V.S.S.K. Babu	Scientist (G), NGRI	evsskbabu@ngri.res.in	9441535852	Member TCC-1
8.	Sh. S K Adhikari	Chief Mining Geologist, IBM, Nagpur	skadhikari@ibm.gov.in	7588690545	Member TCC-1
9.	Smt. Vandana	Cost Accounts Officer, RSAS, Bangalore, GSI	vandana@gsi.in	8660939235	Member TCC-1
10.	Shri S Dhanendran	Director, GSITI & Member Secretary, TCC-I	s.dhanendran@gsi.gov.in	9944882204	Member TCC-1
11.	Representatives from GSI				
12.	Representatives from MECL				
13.	Representatives from IBM				
14.	Representatives from DMM Sikkim				
15.	Representatives from DMG Odisha				
16.	Representatives from DGM MP				
17.	Representatives from DMG Karnataka				
18.	Representatives from DMG Rajasthan				
19.	Representatives from DGM Maharashtra				
20.	Representatives from JEMCL				
21.	Representatives from M/s United Exploration India Pvt. Ltd.				
22.	Representatives from M/s Enkay Enviro Services Pvt. Ltd.				
23.	Representatives from M/s Bhushilp Mines and Minerals Pvt. Ltd.				
24.	Representatives from M/s Geo Exploration and Mining Solutions				
25.	Representatives from M/s Gemcokati Exploration Private Limited				
26.	Representatives from M/s Wattfin Ventures Pvt. Ltd.				
27.	Representatives from M/s Mining Associates Private Limited				
28.	Representatives from M/s GMMCO Technology Services Ltd				
29.	Representatives from M/s BMRC Geomining Solutions Pvt Ltd				
30.	Representatives from M/s Critical Mineral Trackers				
31.	Representatives from M/s Vardan Environet LLP				

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32.	Representatives from M/s MMPL Pvt. Ltd.				
33.	Representatives from M/s MTCS				
34.	Representatives from M/s Geo Marine Solutions Pvt. Ltd.				
35.	Representatives from M/s GeoExpore Pvt. Ltd.				
36.	Representatives from M/s Southwest Pinnacle				
37.	Representatives from Eartnenviro Labs Pvt. Ltd.				
38.	Ms. Bishakha	Sr. Geologist	sr.geologist1-nmet@gov.in	8126541605	NMEDT
39.	Smt. Palak Kapoor	Sr. Geologist	nmet-mines@gov.in	8851742488	NMEDT

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