

Ministry of Mines
National Mineral Exploration and Development Trust
**Minutes of the 104th Technical-cum-Cost Committee-1 (TCC-1) Meeting held on 15th,
16th and 17th September 2026 through video conferencing**

The 104th 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 15th, 16th and 17th 2026. Members of TCC-1, NMEDT and representatives from IBM, GSI, MECL, DGM, Punjab, DMM, WB, DGM Jharkhand, DGM Rajasthan, DGM Chhattisgarh, DMR Meghalaya, CMDC, FAGMIL, JEMCL, M/s. Enkay Enviro Services Pvt. Ltd., M/s BMRC Geomining Solutions Pvt Ltd , M/s Techno Enterprises, M/s Reval Consulting Private Limited , M/s Wattfin Ventures Private Limited , M/s Vardan Environet LLP, M/s Gemcokati Exploration Pvt. Ltd., M/s GMMCO , M/s. Eartenviro Pvt. Ltd., M/s. MMPL Private Limited, M/s APC Drilling Construction & Pvt. Ltd., M/s CMT, M/s Ocean Drilling and Exploration Private Limited and M/s. Geo Exploration and Mining Solutions, M/s PRB Infraprojects Pvt. Ltd., M/s Vibrant Techno Lab Private Limited, Sathi Planners Private Limited have attended the meeting through their respective VC modes.

The list of participants is enclosed in Annexure-11.

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 104.1: Technical evaluation of new project proposals

Agenda 104.1.1. Preliminary Exploration (G-3) for Glauconitic Sandstone in Sarsi block dist.- Satna, Madhya Pradesh (Area: 12.60 Sq. Km)
(Proposal ID: ME/DD/G3/MP/MECL/26-27/022)

[Implementing Agency: MECL]

- a. The agency informed that the proposed block falls within Survey of India Toposheet No. 63D/09 and is underlain mainly by the Rewa and Kaimur Series of the Vindhya Supergroup.
- b. The major lithological units exposed in the area include Gahadara Sandstone, Jhiri Shale, Rohania Sandstone, Pindra Shale, Bhulwa Limestone, Banbiha glauconitic sandstone, Panna Shale and Baghain Sandstone.
- c. The agency informed that GSI has undertaken exploration for glauconitic sandstone in the regional area since the 1980s.
- d. During FS: 1984–85, GSI explored about 12 sq. km in the Pindra North Block and estimated approximately 266 million tonnes of resources with an average grade of 4.90% K₂O under the Proved category.
- e. West of the Pindra North Block, two 10A(2)(b) cancelled leases, namely Chitrakoot-2 and Chitrakoot-3, were explored by private agencies, with estimated proved mineable reserves of 50.46 MT and 85.51 MT, respectively.
- f. MECL carried out reconnaissance exploration in the Pindra SW Extension Block (39.23

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sq. km) and estimated 1,918 MT of resources with an average grade of 6.96% K₂O under UNFC 334 category.

- g. MECL subsequently carried out G-3 exploration in the Deulha (8.5 sq. km) and Jhari (5.1 sq. km) blocks, estimating 317.04 MT @ 6.80% K₂O and 104.20 MT @ 6.04% K₂O, respectively, under UNFC 333 category.
- h. In the Kisanpur G-4 Block (52.17 sq. km), MECL estimated 1,505.26 MT of resources with an average grade of 6.67% K₂O (333+334) through reconnaissance exploration.
- i. In view of the significant glauconite resource potential established through earlier exploration in the adjoining and regional blocks, the agency proposed the present block for Preliminary Exploration (G-3 stage) to assess its glauconite resource potential.
- j. The proposed exploration programme comprises detailed geological mapping at 1:4,000 scale, geochemical sampling, pitting/trenching, ground geochemical survey and exploratory drilling, with the objective of establishing resources under UNFC 333 category.
- k. The Committee reviewed the proposal and observed that the proposed G-3 stage exploration constitutes an upgradation of the earlier G-4 stage investigation carried out by MECL in the area.
- l. It was further noted that MECL has taken up another block, carved out from the same G-4 stage investigation, for upgradation to the next stage, which is presently under progress.
- m. The agency proposed to undertake drilling at an 800 m grid spacing, with a total of 15 boreholes.
- n. In view of the proposed exploration programme and the established potential, the Committee recommended the proposal for consideration by the PSC.

Sl. No.	Agency	Brief Comments
1.	GSI	NA
2.	MECL	NA
3.	AMD	NA
4.	State DMG/DGM/CGM	NA
5.	NMEDT	The proposal is an upgradation of MECL's own G4 work

Recommendations of TCC-1:

The committee recommended the proposal titled "Preliminary Exploration (G3) for Glauconite and Associated Minerals in Sarsi Block, District: Satna, Madhya Pradesh" for approval of PSC, NMEDT with an estimated cost of Rs. 150.30 lakhs (including GST) with a timeline of 9 months for carrying out the proposed work and submission of report as per Annexure – 1A & 1B. The item will be reviewed after 4 and 8 months.

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Preliminary Exploration (G3) for Glauconite and Associated Minerals in Sarsi Block, District: Satna, Madhya Pradesh Area: 12.60 sq. km, Total Drilling Meterage: 750 m (each BH of 50 m), No. of BH: 15, Timeline: 9 months, Review after: 4 and 8 months ME/DD/G3/MP/MECL/26-27/022								Annexure 1A
S.No.	Main Activity	Activity	Sub Activity	Sub Sub Activity	Hilly Terrain/LWE Multiplication Factor	TCC Approved Unit	TCC Approved Cost (₹)	Remarks
1	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.1 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 etc.			1	12.60	230580.00	Mapping and Contouring on 4000 scale
2	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.2 Other Geological Work/Activities	1.2.1a Other Geological work/studies	b) Charges for one Geologist per day in field (without labour)	1	120	1740000.00	
3	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.2 Other Geological Work/Activities	1.2.1b 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.		1	47	368950.00	
4	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.3 Survey Work	1.3.2 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		1	28	672000.00	15 BH +13 Cardinal points

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			Network system for all DGPS is compulsory					
5	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.3 Survey Work	1.3.1 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)	1	30	315000.00	
6	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.2 Other Geological Work/Activities	1.2.1a 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	30	315000.00	
7	2.0 Mineral Investigation	2.2 Drilling	2.2.1 Drilling: (Diamond core drilling)	2.2.1.1c Drilling in / Drilling in Soft rock/ Strata: HQ size borehole upto 400m Depth and NQ Size beyond	1	750	4125000.00	In-House 15BH with average depth of 50 m each

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				400m depth In case NQ size drilling is done before 400m depth, the rate shall decrease by 20%				
8	2.0 Mineral Investigation	2.2 Drilling	2.2.7 Construction of concrete Pillar (12"x12"x30")		1	15	30000.00	
9	2.0 Mineral Investigation	2.2 Drilling	2.2.8 Borehole plugging by cement		1	15	150000.00	
10	4.0 Laboratory Studies	4.1 Chemical Analysis	4.1.17 Estimation of major oxides by XRF technique (Whole rock analysis)	4.1.17a Major oxides (WD XRF)- (oxides+ traces -24 elements)	1	375	1575000.00	375 Core samples
11	4.0 Laboratory Studies	4.1 Chemical Analysis	4.1.17 Estimation of major oxides by XRF technique (Whole rock analysis)	4.1.17a Major oxides (WD XRF)- (oxides+ traces -24 elements)	1	37	155400.00	
12	4.0 Laboratory Studies	4.3 Petrological Studies	4.3.2 Preparation of polished thin section of rock/ wafer		1	10	8000.00	
13	4.0 Laboratory Studies	4.3 Petrological Studies	4.3.4 Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo microgrphs)		1	10	28000.00	
14	4.0 Laboratory Studies	4.3 Petrological Studies	4.3.7 Modal analysis of thin section		1	10	45900.00	
15	4.0 Laboratory Studies	4.8 Geotechnical Laboratory	4.8.3 Bulk density - Dry / Saturated		1	5	12500.00	
16	4.0 Laboratory Studies	4.5 Mineral Physics Studies	4.5.2 XRD analysis for identification of minerals (Random)	4.5.2	1	5	20000.00	

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17	5.0 Miscellaneous Charges	5.8 Charges for engaging skilled, semiskilled and unskilled workers for attending work associated with the mineral exploration project in the field/camp/HQ.			1	240	133440.00	
18	5.0 Miscellaneous Charges	5.8 Charges for engaging skilled, semiskilled and unskilled workers for attending work associated with the mineral exploration project in the field/camp/HQ.			1	188	104528	
19	5.0 Miscellaneous Charges	5.8 Charges for engaging skilled, semiskilled and unskilled workers for attending work associated with the mineral exploration project in the field/camp/HQ.			1	120	66720.00	
20	5.0 Miscellaneous Charges	5.6 Land/Crop compensation			1	15	450000.00	
21	5.0 Miscellaneous Charges	5.3 Drill Core Preservation			1	400	636000.00	1 stratigraphic BH + remaining mineralised zone
				Total Charges/Cost (₹)			11182018.00	
				Total Drilling Cost (Rule 2.2.9) (Rule 1 Applied)			1031250.00	
				Tendering Process Cost			0.00	
				Technical supervision cost			0.00	
				Total			12213268.00	
				Peer review charge(Fixed)			30000.00	
				Preparation of Exploration Proposal			244265.00	
				Geological Report Preparation			250000.00	
				Total Estimated Cost without GST (₹)			12737533.00	

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		Provision for GST (18% of I) (₹)	2292756.00	
		Total Estimated Cost with GST (₹)	15030289.00	
Note:				
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.			
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.			
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and 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 1B												
Time Schedule/ action Plan for Preliminary Exploration (G3) for Glauconite and Associated Minerals in Sarsi Block, District: Satna, Madhya Pradesh												
S.No.	Activities	MONTHS										
		1	2	3	4	Review	5	6	7	8	Review	9
1	Camp setting											
2	Geological mapping											
3	Core drilling (1 rig)											
4	Geologist days (Field)											
5	Sampling days, core sampling											
6	Camp winding											
7	Laboratory studies											
8	Geologist days (HQ)											
9	Report writing/ Peer review											

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Agenda 104.1.2. Preliminary Exploration (G-3) for Aluminous laterite, iron, titanium (Ti), vanadium (V) and gallium (Ga) in Jalasor block, district- Katni, Madhya Pradesh (Area: 16.36 Sq. Km.)
(Proposal ID: ME/DD/G3/MP/MECL/26-27/017)

[Implementing Agency: MECL]

- The proposed block falls within Survey of India Toposheet No. 64A/06 and forms part of the Mahakoshal Supracrustal Belt, comprising metasediments including BIF (BHQ/BMQ), metabasalt, ultramafic rocks, acid volcanic tuffs, mafic dykes and granitoids.
- Historical GSI investigations reported platinum and silver occurrences and Au values up to 0.19 ppm in laterite/bauxite samples from the Dhangawan–Amoch–Chhapra area, while Regional Geochemical Sampling during FS: 2000–02 covered 617 stream-sediment and 145 bedrock samples for gold, silver and base-metal assessment.
- Vanadium-bearing titaniferous magnetite was reported near Midra village, forming a mineralised zone of approximately 450 m × 100 m as fracture fillings associated with vein quartz in dolomitic marble; one sample recorded 66.9% Fe₂O₃, 3.43% TiO₂ and 1,730 ppm V.
- GSI also carried out G-4 stage reconnaissance exploration for Ni–Cr mineralisation in the Salaya area, Katni district, during FS: 2024–25.
- MECL has undertaken G-4 and G-3 stage exploration for iron and bauxite in the Sihora–Sleemnabad region, including the Salaiya, Tikariya, Majhauri and Amoch–Chhapra blocks, establishing resources of aluminous laterite.
- During G-3 exploration in the Amoch–Chhapra Block (FS: 2025–26), resources of 36.34 MT aluminous laterite @ 28.38% Al₂O₃, 8.95 MT titanium @ 2.45% Ti and 29.06 MT vanadium @ 623.24 ppm V were estimated.
- MECL collected five samples from the proposed block, which recorded Al₂O₃ values ranging from 11.74% to 20.00%.
- In view of the above, the agency proposed the block for G-3 stage exploration, comprising detailed geological mapping at 1:4000 scale, geochemical sampling, pitting/trenching, ground geophysical survey and exploratory drilling, with the objective of establishing resources under UNFC 333 category.
- The Committee observed that the Al₂O₃ values of the samples collected from the proposed area are low and do not qualify as aluminous laterite grade, while the available geological information and database are also inadequate. Accordingly, the area cannot be considered for G-3 stage exploration based on the available data.
- The Committee advised the agency to collect two channel samples each from the four laterite profiles/sections identified in the area and undertake mineralogical studies to determine whether the mineralization represents aluminous laterite or ferruginous laterite (hematite-bearing).
- The agency may submit a modified proposal for G-3 stage exploration if the additional sampling and mineralogical studies yield encouraging results.

Sl. No.	Agency	Brief Comments
1	GSI	The Previous work also revealed the presence of "Strategic" vanadium bearing titaniferous magnetite ore near village Midra. One of the samples from this vein analysed 66.9% iron oxide, 3.43% of TiO ₂ and 1730 ppm of vanadium. The proposed block has been identified for exploration of gallium and vanadium. Therefore, the area may be considered for further exploration.
2	MECL	NA

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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 proposed block is falling in Recorded Forest Area (App. 19%).

Recommendations of TCC-1:

The Committee did not recommend the proposal for G-3 stage exploration, as the Al_2O_3 values of the samples collected from the proposed area are low and do not meet the grade criteria for aluminous laterite. Further, the available geological information and database are inadequate to establish the resource potential of the area.

Agenda 104.1.3. Reconnaissance Survey (G-4) for Glauconite and associated minerals in Gilai area, district– Sheopur, Madhya Pradesh (Area: 86.50 Sq. km.) (Proposal ID: ME/DD/G4/MP/MECL/26-27/019)

[Implementing Agency: MECL]

- The proposed block falls within Survey of India Toposheet No. 54G/05 and is predominantly underlain by glauconitic sandstone of the Govindgarh Formation of the Vindhyan Supergroup. GSI mapping and NGCM studies have indicated the presence of potassium-bearing lithologies, with stream-sediment K_2O values of 1.45–3.30%.
- GSI's G-4 stage reconnaissance survey (FS: 2023–24) in the adjoining Agra–Magarda–Dubera area identified encouraging potash mineralisation associated with glauconitic sandstone and greyish-green glauconitic shale, with K_2O values of 0.48–6.53%.
- Significant potash mineralisation was reported around Dhaurera, Surad and Umri villages, while trench samples from Magarda, Dhowani and Bawanwas recorded 1.68–3.43% K_2O . Glauconite-bearing shale, generally 5–15 m thick, consistently recorded K_2O values above 3%.
- In the adjoining Dhamni–Piparwasi–Simliya G-4 block, M/s MMPL established an inferred resource (UNFC 334) of 15.27 MT, based on analysis of 253 bedrock, pit and borehole-core samples, with K_2O values of 0.10–3.65%.
- In view of the previous exploration results from the adjoining areas, the agency proposed the block for G-4 stage exploration to assess its glauconitic sandstone and associated potash resource potential.
- The proposed exploration programme comprises large-scale geological mapping at 1:12,500 scale, geochemical sampling, pitting/trenching, ground geophysical survey and exploratory drilling, with the objective of establishing resources under UNFC 334 category.
- The Committee observed that approximately 12% of the proposed area falls within a Tiger Reserve and has been excluded. It was further noted that the agency has not undertaken any field visit or generated adequate supporting data to substantiate the proposal.
- The Committee advised the agency to undertake a field visit, collect representative samples covering the proposed area and strengthen the supporting geological/geochemical database before resubmitting the proposal.

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Sl. No.	Agency	Brief Comments
1	GSI	GSI carried out G-4 stage project titled "Reconnaissance survey for glauconite and associated mineralization in Agra, Magarda and Dubera area in the parts of T.S. no. 54G/05, Sheopur district, Madhya Pradesh". The proposed area is located near the explored area and may be considered for further exploration.
2	MECL	NA
3	AMD	The proposed area 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 proposed block is falling in Recorded Forest Area (App. 85%).

Recommendations of TCC-1:

The Committee did not recommend the proposal, as the agency has not undertaken any field visit to the proposed area or generated adequate supporting geological/geochemical data to substantiate the proposal.

The Committee advised the agency to undertake a field visit, collect representative samples covering the proposed area and strengthen the supporting database before resubmitting the proposal for consideration.

Agenda 104.1.4. Reconnaissance Survey (G4) for Potash in Badian block, Punjab evaporite basin, district- Sri Muktsar Sahib, Punjab (Area: 30.00 sq.km.) (Proposal ID: ME/DD/G4/PB/MECL/26-27/018)

[Implementing Agency: MECL]

- The proposed block falls within Survey of India Toposheets Nos. 44J/11 and 44J/12 and forms part of the Punjab Evaporite Basin (PEB), the northern extension of the Nagaur–Ganganagar Evaporite Basin of Rajasthan.
- GSI carried out G-4 stage reconnaissance exploration during FS: 2019–21 for reappraisal of potash in Fazilka and Sri Muktsar Sahib districts of Punjab and Sri Ganganagar district of Rajasthan, including 2,499 m of drilling in three boreholes (PFSBH-01 to PFSBH-03).
- The exploration established 409.32 MT of potash at 2% K⁺ cut-off (3.74% K⁺ average), 300.15 MT at 3% K⁺ cut-off (4.18% K⁺ average) and 194.58 MT at 4% K⁺ cut-off (4.69% K⁺ average) under UNFC 334 category.
- In addition, a resource of 1,548.36 MT of NaCl (halite) was estimated, with an average grade of 35.93% Na at natural cut-off, including material containing more than 80% NaCl.
- In view of the encouraging exploration data from the surrounding area, the agency proposed the block for G-4 stage exploration to assess the resource potential for potash mineralisation. The proposed work primarily comprises exploratory drilling to establish the resource under UNFC 334 category.
- The Committee reviewed the proposal and noted that 577 sq. km of NGPM area has been reserved for MECL, out of which 30 sq. km has been proposed for G-4 stage exploration.
- The proposed drilling programme will be undertaken in two phases. In Phase-I, four

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boreholes will be drilled at a grid spacing of 3,200 m.

- h. Based on the results of Phase-I drilling, seven boreholes will be taken up in Phase-II at a grid spacing of 1,600 m.
- i. The Committee recommended the proposal for consideration by the PSC.

Sl. No.	Agency	Brief Comments
1	GSI	Badian block is proposed on an NGPM potential block. It has been carved out by Geological Survey of India, State Unit: Punjab, Haryana and Himachal Pradesh and handed over to MECL for further exploration using NMEDT funds. So, there is no overlap with any of the completed/ongoing/proposed blocks for Potash Exploration in Punjab by GSI.
2	MECL	NA
3	AMD	The proposed area has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	No ongoing exploration/reconnaissance project related to the commodities mentioned in the proposal is being undertaken. Further, no other mineral/commodity has been reported in the proposed area. No Composite License or Mining Lease for either Major or Minor minerals exists in the proposed block.
5	NMEDT	There are no NMEDT funded blocks overlapping with the proposed block.

Recommendations of TCC-1:

The committee recommended the proposal titled “Reconnaissance Survey (G4) for Potash and Associated Minerals in Badian Area, Sri Muktsar Sahib District, Punjab” for approval of PSC, NMEDT with an estimated cost of Rs. 1461.75 lakhs (including GST) with a timeline of 15 months for carrying out the proposed work and submission of report as per Annexure – 2A & 2B. The item will be reviewed after 6, 9 and 12 months.

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Reconnaissance Survey (G4) for Potash and Associated Minerals in Badian Area, Sri Muktsar Sahib District, Punjab Total Area: 30 sq. km., Total Drilling Meterage: 9900 m (Avg 900 m depth each BH), Total BH: 11, Phase 1: 4 BH with 3200X3200 m spacing, Phase II: 7 BH with 1600X1600 m spacing. Timeline: 15 months. Review after: 6, 9 and 12 months ME/DD/G4/PB/MECL/26-27/018							Annexure 2A	
S.No.	Main Activity	Activity	Sub Activity	Sub Sub Activity	Hilly Terrain/ LWL Multiplication Factor	Approved Unit	Approved Cost (₹)	Remarks
1	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.1 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)			1	30	549000.00	LSM on 1:25000 scale
2	1.0 Geological Mapping [Large scale mapping	1.3 Survey Work	1.3.2 Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the		1	11	264000.00	

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	(LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying		boreholes by DGPS (including charges for labours deployed for the work) - use of CORS Network system for all DGPS is compulsory					
3	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.2 Other Geological Work/Activities	1.2.1a 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	50	525000.00	
4	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological	1.2 Other Geological Work/Activities	1.2.1a 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	b) Charges for one Geologist per day in field	1	200	2900000.00	

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	Work and Surveying		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.	(without labour)				
5	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.2 Other Geological Work/Activities	1.2.1b 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.		1	181	1420850.00	
6	2.0 Mineral Investigation	2.2 Drilling	2.2.4 Non-Coring drilling		1	3850	15400000.00	Phase I: 4 BHs, Phase II: 7 BHs. Non coring drilling to be done upto 350 m
7	2.0 Mineral Investigation	2.2 Drilling	2.2.1 Drilling: (Diamond core drilling)	2.2.1.1d Drilling in / Drilling in Hard	1	6050	60500000.00	HQ Core Drilling from 350 to 400m and beyond 400 m to

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				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%				continue in NQ upto the borehole closure depth i.e., 900 m
8	2.0 Mineral Investigation	2.2 Drilling	2.2.7 Construction of concrete Pillar (12"x12"x30")		1	11	22000.00	
9	2.0 Mineral Investigation	2.2 Drilling	2.2.8 Borehole plugging by cement		1	11	110000.00	
10	3.0 Geophysical Survey	3.11 Geophysical logging for Coal & Lignite / CBM	3.11c Resistivity		1	6400	320000.00	Charges of Coal and Lignite given
11	3.0 Geophysical Survey	3.11 Geophysical logging for Coal & Lignite / CBM	3.11d Dual Density		1	6400	857600.00	

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12	3.0 Geophysical Survey	3.11 Geophysical logging for Coal & Lignite / CBM	3.11f Neutron		1	6400	614400.00	
13	3.0 Geophysical Survey	3.11 Geophysical logging for Coal & Lignite / CBM	3.11g Caliper		1	6400	153600.00	
14	3.0 Geophysical Survey	3.11 Geophysical logging for Coal & Lignite / CBM	3.11o Spectral Gamma (In Borehole)		1	6400	1267200.00	
15	4.0 Laboratory Studies	4.1 Chemical Analysis	4.1.1 Quantitative chemical analysis of rock by conventional wet chemical method for 12 determinations (other than alumino-silicate and phosphate rock)		1	1450	26245000.00	1450 Core samples (Phase I: 527 samples + Phase II: 923 samples)
16	4.0 Laboratory Studies	4.1 Chemical Analysis	4.1.1 Quantitative chemical analysis of rock by conventional wet chemical method for 12 determinations (other than alumino-silicate and phosphate rock)		1	145	2624500.00	
17	4.0 Laboratory Studies	4.5 Mineral Physics Studies	4.5.2 XRD analysis for identification of minerals (Random)	4.5.2	1	225	900000.00	(Phase I: 80 samples + Phase II: 145 samples)
18	4.0 Laboratory Studies	4.3 Petrological Studies	4.3.1 Preparation of standard thin section of rock		1	5	2500.00	
19	4.0 Laboratory Studies	4.3 Petrological Studies	4.3.4 Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo microgrphs)		1	5	14000.00	

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20	4.0 Laboratory Studies	4.8 Geotechnical Laboratory	4.8.1 Specific gravity		1	5	12500.00	
21	5.0 Miscellaneous Charges	5.8 Charges for engaging skilled, semiskilled and unskilled workers for attending work associated with the mineral exploration project in the field/camp/HQ.			1	724	402544	
22	5.0 Miscellaneous Charges	5.8 Charges for engaging skilled, semiskilled and unskilled workers for attending work associated with the mineral exploration project in the field/camp/HQ.			1	400	222400	
23	5.0 Miscellaneous Charges	5.3 Drill Core Preservation			1	3000	4770000.00	
					Total Charges/Cost (₹)		120097094.00	
					Total Drilling Cost (Rule 2.2.9) (Rule 4 Applied)		2500000.00	
					Tendering Process Cost		0.00	
					Technical supervision cost		0.00	
					Total		122597094.00	
					Peer review charge(Fixed)		30000.00	
					Preparation of Exploration Proposal		500000.00	
					Geological Report Preparation		750000.00	
					Total Estimated Cost without GST (₹)		123877094.00	
					Provision for GST (18% of I) (₹)		22297877.00	
					Total Estimated Cost with GST (₹)		146174971.00	

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Note :	
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and 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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Time Schedule/ Action Plan for Reconnaissance Survey (G4) for Potash and Associated Minerals in Badian Area, Sri Muktsar Sahib District, Punjab

Sl. No.	Activities	Unit	MONTHS																			
			1	2	3	4	5	6	REVIEW	7	8	9	REVIEW	10	11	12	REVIEW	13	14	15		
1	Camp Setting	day																				
2	Geologist Party days in Field (1 Party)	day																				
3	Core Drilling (2 rigs)	m.																				
4	Geophysical Studies	m.																				
5	Sampling Party days, Core Sampling	day																				
6	Camp Winding	day																				
7	Laboratory Studies	Nos.																				
8	Geologist Party days in HQ (1 Party)	day																				
9	Report Writing & Peer review	day																				

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Agenda 104.1.5. Preliminary Exploration (G-3 stage) for Glauconite in Chorbhatti block, Mahasamund district, Chhattisgarh (Area: 1.3 sq. km.)

(Proposal ID: ME/DD/G3/CT/26-27/224)

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

- a. The proposed block falls within Survey of India Toposheet No. 64K/04 and forms part of the Dongargarh Supergroup granite and the overlying sedimentary sequences of the Chhattisgarh Supergroup, comprising sandstone, shale and sand-silt-shale heteroliths.
- b. GSI carried out G-4 stage reconnaissance exploration for phosphorite and associated mineralisation in the Parsadih–Bhoring area of Mahasamund district, Chhattisgarh, during FS: 2024–25, covering parts of Toposheets Nos. 64K/03 and 64K/04.
- c. GSI also carried out reconnaissance exploration for glauconitic sandstone in and around the Sorid and Umarda areas of Mahasamund district during FS: 2024–25. Analytical results of sandstone, siltstone and shale from the three formations recorded K₂O values ranging from 1.01% to 7.79%, with 11 BRS samples recording values above the UCC value of 2.8%.
- d. The agency informed that the chemical analytical results from the glauconite-rich zones identified during field investigations recorded K₂O values ranging from 2.89% to 7.79%, with an average of approximately 4.8 wt.% K₂O, indicating potential for glauconite mineralisation.
- e. In view of the above exploration data, the agency proposed the block for G-3 stage exploration to evaluate the resource potential of glauconite mineralisation.
- f. The Committee reviewed the proposal and observed that the proposed area of 1.3 sq. km is very small considering the nature and extent generally required for exploration of glauconite. The agency informed that further extension of the block is presently constrained by the presence of settlements and a canal in the adjoining areas.
- g. The Committee also noted the suggestion of DGM, Chhattisgarh, that the agency should undertake a field visit to assess the distance of the proposed block from the nearby urban area and examine the feasibility of undertaking exploration activities.
- h. The Committee advised the agency to undertake a detailed ground visit and assess the feasibility of exploration in the proposed area. The agency was further advised to explore the possibility of extending/modifying the block towards the southwest and northwest directions, taking into consideration the ground conditions, settlements and other surface constraints.
- i. The agency was advised to modify and resubmit the proposal based on the field assessment and feasibility of the revised area for further consideration.

Sl. No.	Agency	Brief Comments
1	GSI	Proposed block 100% overlap with GSI previous exploration work FS 2024-2025 & 2017-2018.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	Awaited. However Representative from DGM CG informed that though there is no overlap, however, the agency should undertake a field visit to examine the feasibility of project.
5	NMEDT	The proposed block do not overlap with NMEDT funded projects, however proposed block is falling in Recorded Forest Area (App. 92%).

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Recommendations of TCC-1:

The Committee did not recommend the proposal, as the proposed area of 1.3 sq. km is considered too small for exploration of glauconite. The Committee advised the agency to undertake a ground visit, assess the feasibility of exploration and suitably modify/extend the proposed area towards the southwest and northwest directions before resubmission.

Agenda 104.1.6. Preliminary Exploration (G3 stage) for graphite, Vanadium & associated minerals in Hatai block, Palamu district, Jharkhand (Area: 2.95 sq. km.)

(Proposal ID: ME/DD/G3/JH/26-27/227)

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

- a. The proposed block falls within Survey of India Toposheet No. 72D/04 and forms part of the Chhotanagpur Granite Gneissic Complex (CGGC), comprising granite gneiss, migmatite, amphibolite, graphite schist/gneiss, quartzite, pegmatite, dolerite dykes and alkali granite, overlain by Gondwana Supergroup sediments.
- b. The agency informed that graphite mineralisation is mainly hosted by graphite schist and graphite gneiss and is structurally controlled by foliation and shear zones.
- c. GSI's G-4 stage reconnaissance survey (FS: 2024–25) in the Tulbula–Arapur area reported FC values of 0.80–8.27% in BRS and PTS samples, while V concentrations in BRS samples ranged from <20 to 2,096 ppm, with 47 samples recording >500 ppm V.
- d. In the proposed Hatai Khas block, 11 BRS samples recorded FC values of 0.48–24.15%, with several high-FC samples recording approximately 24.15%, 23.13%, 18.56% and 17.11%.
- e. In view of the encouraging graphite values, the agency proposed the block for G-3 stage exploration to assess the graphite resource potential. The proposed work includes detailed geological mapping at 1:2,000 scale, geochemical sampling, ground geophysical surveys and exploratory drilling for assessment under UNFC 334 category.
- f. The Committee reviewed the proposal and noted that two graphite-bearing zones have been delineated during the G-4 stage investigation. The field investigations carried out by the agency also indicate the presence of graphite mineralisation; however, the analytical results of the samples collected from these zones are awaited.
- g. The Committee advised the agency to undertake the proposed exploration in two phases. Phase-I shall comprise detailed geological mapping, surface sampling and SP survey to delineate and establish the continuity of the graphite-bearing zones.
- h. Phase-II shall comprise systematic drilling at approximately 200 m spacing to evaluate the continuity and depth persistence of the mineralisation.
- i. Based on the available data, the tentative drilling programme was fixed at 600 m in six boreholes for further evaluation of the graphite mineralisation.

Sl. No.	Agency	Brief Comments
1	GSI	During the Field Season (FS) 2024–25, the Geological Survey of India (GSI), State Unit: Jharkhand, Ranchi conducted a Reconnaissance survey in Toposheet 72D/04 (G4-stage) for graphite and vanadium and curved out 6 to 8 bodies/occurrences of Graphite along an intricately fold sequence. These bodies fall in and around Tulbula Forest area and based on its G4 investigation, GSI is carrying out one G3 project (indicated in red polygon during FS 2026–27). In a phased implementation GSI Ranchi will be taking up all these occurrences individually or collectively depending

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		upon the strike continuity. This is very well within the FSP bank of GSI Ranchi which it plans to execute in subsequent field seasons based on its own finding in G4 stage. Thus, this proposal cannot be accepted.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks 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 proposed block is falling in Recorded Forest Area (App. 98%).

Recommendations of TCC-1:

The committee recommended the proposal titled “Preliminary Exploration (G3) for Graphite and Vanadium bearing minerals in Hatai Block Block, District: Palamu, Jharkhand” for approval of PSC, NMEDT with an estimated cost of Rs. 189.79 lakhs (including GST) with a timeline of 12 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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Preliminary Exploration (G3) for Graphite and Vanadium bearing minerals in Hatai Block Block, District: Palamu, Jharkhand Area: 2.95 sq. km, Total Drilling Meterage: 600 m, No. of BH: 6 BH 1st level, 30 m vertical intersection, 2 BH 2nd level, 60 m intersection. Timeline: 12 months; Review after: 3, 6 and 9 months ME/DD/G3/JH/26-27/227							Annexure 3A	
S.No.	Main Activity	Activity	Sub Activity	Sub Sub Activity	Hilly Terrain/ LWL Multiplier Factor	TCC Approved Unit	TCC Approved Cost (₹)	Remarks
1	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.1 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)			1	2.95	53985.00	
2	1.0 Geological Mapping [Large scale	1.2 Other Geological Work/Activities	1.2.1a Other Geological work/studies like geochemical studies, geochemical Orientation	b) Charges for one	1	130	1885000.00	

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	mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying		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.	Geologist per day in field (without labour)				
3	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.2 Other Geological Work/Activities	1.2.1a 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	a) Charges for one Geologist per day at HQ	1	30	315000.00	

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			synthesis or interpretation of data at headquarter, Any other activity in field or headquarter.					
4	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.3 Survey Work	1.3.1 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)	1	30	315000.00	
5	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.3 Survey Work	1.3.2 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		1	12	288000.00	8 BH + 4 cardinal points
6	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological	1.2 Other Geological Work/Activities	1.2.1b 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		1	54	423900.00	

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	Work and Surveying		etc.					
7	2.0 Mineral Investigation	2.1 Pitting & Trenching	2.1.1 Excavation of Trenches upto 2.0 m depth with Filling		1	150	618750.00	
8	2.0 Mineral Investigation	2.2 Drilling	2.2.1 Drilling: (Diamond core drilling)	2.2.1.1d Drilling in / Drilling in Hard 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	1	600	6000000.00	The drilling will be subject to approval in review meeting . 2 nd level drilling will be proposed based on outcome of 1 st level drilling

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				20%				
9	2.0 Mineral Investigation	2.2 Drilling	2.2.7 Construction of concrete Pillar (12"x12"x30")		1	8	16000.00	
10	3.0 Geophysical Survey	3.3 Self-Potential Method	3.3a Self-Potential (8-20 line km)		1	15	932100.00	
11	4.0 Laboratory Studies	4.1 Chemical Analysis	4.1.18 Proximate analysis of Graphite		1	400	1445600.00	100 Trench Samples+ 60 Channel samples + 240 Core samples
12	4.0 Laboratory Studies	4.1 Chemical Analysis	4.1.18 Proximate analysis of Graphite		1	40	144560.00	
13	4.0 Laboratory Studies	4.1 Chemical Analysis	4.1.15 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)	4.1.15a Chemical analysis by ICP-MS per additional elements	1	25	185000.00	
14	4.0 Laboratory Studies	4.3 Petrological Studies	4.3.2 Preparation of polished thin section of rock/ wafer		1	10	8000.00	
15	4.0 Laboratory Studies	4.3 Petrological Studies	4.3.4 Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo microgrphs)		1	10	28000.00	
16	4.0 Laboratory Studies	4.1 Chemical Analysis	4.1.17 Estimation of major oxides by XRF technique (Whole rock analysis)	4.1.17a Major oxides (WD	1	10	42000.00	

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				XRF)- (oxides+ traces -24 elements)				
17	4.0 Laboratory Studies	4.8 Geotechnical Laboratory	4.8.3 Bulk density - Dry / Saturated		1	5	12500.00	
18	4.0 Laboratory Studies	4.5 Mineral Physics Studies	4.5.1 RAMAN spectroscopy study per hour		1	10	27000.00	
19	4.0 Laboratory Studies	4.1 Chemical Analysis	4.1.15 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)	4.1.15a Chemical analysis by ICP- MS per additional elements	1	2	14800.00	
20	5.0 Miscellaneous Charges	5.8 Charges for engaging skilled, semiskilled and unskilled workers for attending work associated with the mineral exploration project in the field/camp/HQ.			1	260	144560	
21	5.0 Miscellaneous Charges	5.8 Charges for engaging skilled, semiskilled and unskilled workers for attending work associated with the mineral exploration project in the field/camp/HQ.			1	120	66720	
22	5.0 Miscellaneous Charges	5.6 Land/Crop compensation			1	8	240000	
23	5.0 Miscellaneous Charges	5.3 Drill Core Preservation			1	300	477000.00	
24	5.0 Miscellaneous Charges	5.8 Charges for engaging skilled, semiskilled and unskilled workers for attending work associated			1	216	120096	

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		with the mineral exploration project in the field/camp/HQ.						
			Total Charges/Cost (₹)					13803571.00
			Total Drilling Cost (Rule 2.2.9) (Rule 2 Applied)					1200000.00
			Tendering Process Cost					0.00
			Technical supervision cost					0.00
			Total					15003571.00
			Peer review charge(Fixed)					30000.00
			Preparation of Exploration Proposal					300071.00
			Geological Report Preparation					750000.00
			Total Estimated Cost without GST (₹)					16083642.00
			Provision for GST (18% of I) (₹)					2895056.00
			Total Estimated Cost with GST (₹)					18978698.00
Note:								
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.							
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.							
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and 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 3B

Time Schedule/ Action Plan for Preliminary Exploration (G3) for Graphite and Vanadium bearing minerals in Hatai Block Block, District: Palamu, Jharkhand

S.No.	Item of work	Months														
		1	2	3	Review	4	5	6	Review	7	8	9	Review	10	11	12
1	Camp Setup															
2	Detailed Mapping (1:2000)															
3	Topo Survey (1:2000)															
4	Bed Rock Sampling															
5	Geophysical survey															
6	Trenching/Pitting															
7	Chemical analysis of surface samples															
8	Systematic drilling first level															
9	Core sampling and its preparation															
10	Chemical analysis of Core Samples															
11	Systematic drilling second level															
12	Core sampling and its preparation															
13	Chemical analysis of Core Samples															
14	Processing of Analytical data															
15	Preparation of geological report with peer review															

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Agenda 104.1.7. Reconnaissance Survey (G4) for Iron in Deori Darbari Area, Singrauli District, Madhya Pradesh

(Proposal ID: ME/DD/G4/MP/26-27/144)

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

- The proposed block falls within Toposheet No. 63L/07 and comprises volcano-sedimentary rocks of the Mahakoshal Group, including quartzite, metapelite, BIF, tuffaceous phyllite and basalt.
- Previous GSI investigations in the adjoining Thapna-Karhiya and Dudhmania areas reported anomalous Au, Cu, Ni, PGE and associated base-metal mineralisation, while the agency's three samples from the proposed block recorded Fe(total) values of 16.68–64.63%.
- The agency proposed the block for G-4 stage exploration for iron ore, comprising large-scale geological mapping, trenching, geophysical survey and exploratory drilling.
- The proposal was earlier not approved in the 99th TCC-I meeting due to overlap with GSI and MECL blocks. The agency subsequently modified the block by excluding the overlapping areas and resubmitted the proposal.
- The State DMG also did not concur with the proposal, as the modified area overlaps with a block being explored by MPSMC in collaboration with the State DMG under an MoU.
- The Committee noted that, of the five samples collected from the modified area, only one recorded Fe_2O_3 above the threshold, while the remaining samples showed lower values. The existing geological map indicates mainly BIF/chert bands, which do not establish adequate potential for iron ore exploration.
- The Committee did not recommend the proposal for G-4 stage exploration.

Sl. No.	Agency	Brief Comments
1	GSI	The given block has been proposed for G4-stage exploration and has 100% overlap with the above-mentioned G4-stage explored block. Therefore, considering the duplication of the area, it would not be appropriate to take up the proposed block for further exploration.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	Deori Darbari Proposed Area by MMPL is overlapped with area which is under exploration by MPSMC through MoU with DMG MP. Therefore proposed area is not recommended for further action please
5	NMEDT	The proposed block overlap with GSI projects for 2024–25 (Reconnaissance Survey for gold and associated sulphide mineralization in and around Boda-Piparawan-Kurainiya area, Singrauli District, Madhya Pradesh). The proposed block do not overlap with NMEDT funded projects, however the proposed area fall within the Recorded Forest Area (approx 66% of total area).

Recommendations of TCC-1:

The Committee did not recommend the proposal, as the modified area overlaps with a block being explored by MPSMC in collaboration with the State DMG under an

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MoU. Further, the available analytical results and geological information do not establish adequate potential for iron ore exploration in the proposed area.

Agenda 104.1.8. Preliminary Exploration (G3 Stage) of REE in Mahara- Shitalpur Block, Purulia District, West Bengal

(Proposal ID: ME/DD/G3/WB/26-27/172)

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

- The proposed block falls within Toposheet No. 73I/07 and comprises rocks of the Chhotanagpur Granite Gneiss Complex, including biotite granite gneiss, migmatite gneiss, garnetiferous-sillimanite schist, para-amphibolite, Tilabani granitoid and Manbhum Granite, with numerous pegmatite and quartz veins.
- Previous investigations in the region have reported significant REE concentrations in granitoids, pegmatites and associated units, including anomalous REE values from the Biltore-Golamara-Chalania and Kathaldiha-Bhabanipur-Bhangra areas.
- The agency proposed the block for G-3 stage exploration for REE and associated mineralisation, comprising geological mapping, surface geochemical sampling, pitting/trenching and exploratory drilling.
- The proposal was earlier deferred in the 89th TCC meeting, with the Committee advising the agency to demarcate potential zones, obtain analytical results of the collected samples and prepare a conceptual exploration model.
- In the 100th TCC meeting, the proposal was not recommended as a major portion of the proposed area overlapped with GST's proposed G-3 exploration block. The agency was advised to revise the boundary and resubmit the proposal.
- The agency subsequently modified the block boundary to eliminate the overlap and presented additional analytical data. Seven samples collected from the modified area recorded tREE values ranging from 388.2 to 1,055.90 ppm.
- The Committee observed that the tREE values obtained from the modified area are relatively low and that the available geological setting and analytical database do not adequately establish potential for G-3 stage exploration.
- The Committee did not recommend the proposal for G-3 stage exploration.

Sl. No.	Agency	Brief Comments
1	GSI	Awaited
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks 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 does not overlap with NMEDT funded project. The Proposed Area does not falls in Recorded Forest area

Recommendations of TCC-1:

The Committee did not recommend the proposal, as the samples collected from the area have shown relatively low tREE values, and the existing geological setting and analytical database do not adequately establish the feasibility of undertaking G-3 stage exploration in the proposed area.

Agenda 104.1.9. Preliminary Exploration (G3 Stage) for TiO₂ hosted Aluminous Laterite in Sirmaur-Kevati Block-B, Rewa District, Madhya Pradesh
(Proposal ID: ME/DD/G3/MP/26-27/210)

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

- a. The proposed block falls within Survey of India Toposheet No. 63H/05. The lithological units exposed in the area comprise sandstone and shale belonging to the Rewa Formation and Ganurgarh Shale of the Bhander Group.
- b. M/s MMPL has carried out Reconnaissance Survey (G4 Stage) for bauxite in the Sirmaur-Kevati Block, District Rewa, Madhya Pradesh, under the NMET project.
- c. Three blocks, namely Blocks A, B and D, were identified and recommended for further detailed exploration based on their comparatively higher resource potential and Al_2O_3 grades. Block-A contains an estimated 1.76 million tonnes of in-situ aluminous laterite with an average Al_2O_3 grade of 24.42%, Block-B contains 2.03 million tonnes with an average Al_2O_3 grade of 23.51%, and Block-D contains 2.14 million tonnes with an average Al_2O_3 grade of 23.42%.
- d. These three blocks constitute a major share of the estimated 6.09 million tonnes of aluminous laterite resource identified within the explored area of 2.48 sq. km.
- e. Further, TiO_2 -bearing resources of 1.32 million tonnes in Block-A, 0.79 million tonnes in Block-B and 0.82 million tonnes in Block-D, with average TiO_2 grades of 2.75%, 2.31% and 2.37%, respectively, indicate additional mineral potential in the area.
- f. In view of the above findings, the agency presented the block for G3-stage exploration to evaluate the mineral potential of aluminous laterite and associated TiO_2 . The proposed exploration programme comprises detailed geological mapping on a 1:4,000 scale, surface geochemical sampling, pitting/trenching and exploratory drilling with systematic sampling for assessment of mineral resources under the UNFC G3 category.
- g. The Committee reviewed the proposal and observed that the proposed G3-stage exploration is essentially an upgradation of the agency's G4-stage investigation. The Committee advised the agency to review the density and adequacy of the existing borehole data and to assess the requirement of additional boreholes, particularly in the soil-covered portions of the block. The Committee further advised the agency to exclude the highway passing through the southern part of the block from the proposed exploration area.
- h. The Committee also advised the agency to modify the title of the proposal to: "Preliminary Exploration (G3 Stage) for Aluminous Laterite and Associated Critical Minerals in Sirmaur-Kevati Block-B, Rewa District, Madhya Pradesh".
- i. The agency was advised to incorporate the above suggestions and submit a revised proposal for consideration and review by the Committee.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed block is not overlapping with any of the ongoing/completed blocks of GSI.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks 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	This project is an upgradation of the project "Reconnaissance Survey (G4-Stage) for Bauxite in Sirmaur-Kevati Block, District- Rewa, State- Madhya Pradesh".

Recommendations of TCC-1:

The Committee deferred the proposal and advised the agency to review the borehole data density, assess additional drilling requirements in the soil-covered

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areas, and exclude the highway passing through the southern part of the block. The agency was also advised to modify the proposal title as suggested and submit a revised proposal incorporating the above observations for review.

**Agenda 104.1.10. Preliminary Exploration (G3 Stage) for TiO₂ hosted Aluminous Laterite in Sirmaur-Kevati Block-A, Rewa District, Madhya Pradesh
(Proposal ID: ME/DD/G3/MP/26-27/214)**

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

- The proposed block falls within Survey of India Toposheet No. 63H/05 and comprises sandstone and shale of the Rewa Formation and Ganurgarh Shale of the Bhandar Group.
- M/s MMPL carried out G4-stage reconnaissance exploration for bauxite in the Sirmaur-Kevati Block, Rewa District, Madhya Pradesh, under the NMET project.
- Based on the G4-stage investigation, Blocks A, B and D were identified for further exploration. Block-A contains an estimated 1.76 million tonnes of in-situ aluminous laterite with an average Al₂O₃ grade of 24.42%, while Blocks B and D contain 2.03 million tonnes and 2.14 million tonnes, with average Al₂O₃ grades of 23.51% and 23.42%, respectively.
- The three blocks account for a major portion of the estimated 6.09 million tonnes of aluminous laterite identified within the explored area of 2.48 sq. km. TiO₂-bearing resources were also reported in Blocks A, B and D, with average grades of 2.75%, 2.31% and 2.37%, respectively.
- The agency proposed G3-stage exploration in Block-A to assess the potential of aluminous laterite and associated TiO₂. The proposed exploration programme comprises detailed geological mapping at 1:4,000 scale, surface geochemical sampling, pitting/trenching and exploratory drilling with systematic sampling for assessment under the UNFC G3 category.
- The Committee reviewed the proposal and observed that it is an upgradation of the agency's G4-stage investigation. The agency was advised to review the borehole data density and assess the requirement of additional boreholes in the soil-covered portion, and to exclude the highway passing through the middle of the block.
- The agency was further advised to modify the title to "Preliminary Exploration (G3 Stage) for Aluminous Laterite and Associated Critical Minerals in Sirmaur-Kevati Block-A, Rewa District, Madhya Pradesh" and submit a revised proposal after compliance with the above observations.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed block is not overlapping with any of the ongoing/completed blocks of GSI.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks 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	This project is an upgradation of the project "Reconnaissance Survey (G4-Stage) for Bauxite in Sirmaur-Kevati Block, District- Rewa, State- Madhya Pradesh".

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Recommendations of TCC-1:

The Committee deferred the proposal and advised the agency to review the borehole data density, assess additional drilling requirements in the soil-covered areas, and exclude the highway passing through the southern part of the block. The agency was also advised to modify the proposal title as suggested and submit a revised proposal incorporating the above observations for review.

**Agenda 104.1.11. Preliminary Exploration (G3 Stage) for TiO₂ hosted Aluminous Laterite in Sirmaur-Kevati Block-D, Rewa District, Madhya Pradesh
(Proposal ID: ME/DD/G3/MP/26-27/213)**

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

- The proposed block falls within Survey of India Toposheet No. 63H/05 and comprises sandstone and shale of the Rewa Formation and Ganurgarh Shale of the Bhandar Group.
- M/s MMPL carried out G4-stage reconnaissance exploration for bauxite in the Sirmaur-Kevati Block, Rewa District, Madhya Pradesh, under the NMET project.
- Based on the G4-stage investigation, Blocks A, B and D were identified for further exploration. Block-A contains 1.76 million tonnes of in-situ aluminous laterite with an average Al₂O₃ grade of 24.42%, while Blocks B and D contain 2.03 and 2.14 million tonnes with average Al₂O₃ grades of 23.51% and 23.42%, respectively.
- The three blocks account for a major share of the estimated 6.09 million tonnes of aluminous laterite resource within the explored area of 2.48 sq. km. TiO₂-bearing resources were also reported in Blocks A, B and D, with average grades of 2.75%, 2.31% and 2.37%, respectively.
- The agency proposed G3-stage exploration of Block-A for evaluation of aluminous laterite and associated TiO₂, comprising detailed geological mapping at 1:4,000 scale, surface geochemical sampling, pitting/trenching and exploratory drilling with sampling for assessment under the UNFC G3 category.
- The Committee reviewed the proposal and observed that the area of the proposed block is too small for G3-stage exploration of the commodity. Further, a National Highway passes through the middle of the proposed block, adversely affecting its mining feasibility. Considering these factors, the Committee did not recommend the block for further exploration.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed block is not overlapping with any of the ongoing/completed blocks of GSI.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks 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	This project is an upgradation of the project "Reconnaissance Survey (G4-Stage) for Bauxite in Sirmaur-Kevati Block, District- Rewa, State- Madhya Pradesh".

Recommendations of TCC-1:

The Committee did not recommend the proposal, considering the small area of the proposed block for G3-stage exploration and the National Highway passing through the

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middle of the block, which affects its mining feasibility.

**Agenda 104.1.12. Preliminary Exploration (G3 Stage) for REE and Associated Rare Metals in Nimbal Kot block, Balotra district, Rajasthan
(Proposal ID: ME/DD/G3/RJ/26-27/236)**

[Implementing Agency: M/s. ReVal Consulting Private Limited]

- The proposed block falls within Survey of India Toposheet No. 400/11 and forms part of the Sarnu-Dandali Alkaline Complex, Barmer District, Rajasthan, comprising carbonatite, phonolite, tephriphonolite, andesite, trachyte and foidite.
- Previous exploration in the Kamthai area by Bhushan et al. (2013) involved 14 boreholes totalling 2,415.05 m of drilling and identified a concealed carbonatite plug measuring approximately 765 m × 350 m, with a combined resource of 5.41 million tonnes.
- GSI carried out G4-stage reconnaissance exploration for REE and rare metal mineralisation in the Sarnu-Dandali area during FS 2018–19, wherein 110 bedrock samples were collected. Carbonatite samples from Kamthai recorded Σ REE values ranging from 0.06% to 16%, with values up to 16%, while comparatively lower values were recorded in other lithologies.
- The agency proposed G3-stage exploration for REE and rare metal mineralisation based on the above exploration data. The proposed programme comprises detailed geological mapping at 1:2,000 scale, geochemical sampling, pitting/trenching, ground geochemical surveys and scout drilling for assessment of resources under UNFC 333 category.
- The Committee observed that the agency had proposed G3-stage exploration without prior G4-stage investigation in the area. The agency informed that, based on preliminary field assessment and the Committee's suggestions, the proposal has been revised for execution under G4 stage.
- The agency informed that the modified G4-stage proposal is under preparation and requested consideration in the next TCC meeting. The Committee advised the agency to submit the revised proposal along with field inputs, analytical data and proper justification.

Sl. No.	Agency	Brief Comments
1	GSI	Based on previous G4 exploration work carried out by GSI in Sarnu-Dandali area, Barmer district, the block may also be prospective for REE and rare metal mineralization, However, the 20.50 sq km area proposed by NPEA is considered too large for G3 exploration work.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks 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.

Recommendations of TCC-1:

The Committee deferred the proposal, as G4-stage investigation has not been carried out previously in the proposed area. The agency was advised to submit the modified G4-stage proposal along with field inputs, analytical data and proper justification for consideration in the next TCC meeting.

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Agenda 104.1.13. Preliminary Exploration for Critical Minerals Associated with Bauxite and Aluminous Laterite (G3 Stage) In Golvan Block, Sindhudurg District, Maharashtra

(Proposal ID: ME/DD/G3/MH/26-27/171)

[Implementing Agency: M/s. Wattfin Ventures Private Limited]

- The proposed block falls within Survey of India Toposheet No. 47H/12 and comprises sedimentary rocks of the Kaladgi Supergroup, Deccan Trap volcanics, Cenozoic laterite and Quaternary alluvium.
- GSI has carried out exploration for bauxite and aluminous laterite in several parts of Sindhudurg District, including Rajapur, Kunkeshwar, Math Budruk, Achra and Kudopi. Earlier investigations established significant resources of bauxite and aluminous laterite, including 3.91 MT of bauxite with an average grade of 45.47% Al_2O_3 and 7.32 MT of aluminous laterite at 20% Al_2O_3 cut-off in the Kudopi area.
- GSI also carried out G4-stage reconnaissance exploration for bauxite and associated critical minerals in the Anganewadi area during FS 2024–25. In the proposed Golvan block, three bedrock samples were collected, of which two were classified as aluminous laterite and one as bauxite, with Al_2O_3 values ranging from 33.87% to 42.95%. The samples also showed TiO_2 values of 2.43–2.89%, Ga of 51–61 ppm and V of 630–750 ppm.
- Based on the above exploration data, the agency proposed G3-stage exploration for bauxite, aluminous laterite and associated critical minerals, comprising detailed geological mapping at 1:4000 scale, bedrock geochemical sampling, pitting/trenching and exploratory drilling with sampling for assessment of mineral resources under the UNFC G3 category.
- The Committee reviewed the proposal and observed that it is based on G4-stage investigation carried out by GSI, with only three positive samples reported from the proposed area. The agency has not undertaken a field visit or generated additional data to substantiate the proposal.
- The Committee advised the agency to undertake a field visit, collect representative samples from vertical sections covering the entire proposed area, and submit a revised and justified proposal in the upcoming TCC meeting.

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 proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	Awaited
4	State DMG/DGM/CGM	Awaited
5	NMEDT	The proposed block does not overlap with NMEDT funded projects. However, the Chapekol Block of Wattfin falls within the buffer zone of the proposed block and was recommended in the 34th TCC-2.

Recommendations of TCC-1:

The Committee deferred the proposal, as it is based on G4-stage investigation carried out by GSI and only three positive samples are reported from the proposed area.

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The agency was advised to undertake a field visit, collect representative samples from vertical sections covering the entire proposed area, and submit a revised and justified proposal in the upcoming TCC meeting.

Agenda 104.1.14. Preliminary Exploration (G3) for Platinum group of elements bearing minerals and Vanadium bearing minerals in Jhapadi Block, Balaghat District, Madhya Pradesh.

(Proposal ID: ME/DD/G3/MP/26-27/216)

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

- The proposed block falls within Survey of India Toposheet No. 64C/11 and comprises sandstone and basalt of the Khairagarh Group.
- Previous GSI investigations in parts of Balaghat District identified pyroxenite and other favourable geological units, indicating potential for PGE and vanadium mineralisation.
- M/s Gemcokati Exploration Pvt. Ltd. carried out G4-stage reconnaissance exploration for PGE, vanadium and associated minerals in the Bhursadongari-Murum Block under the NMET project. An anomalous zone of approximately 9 km × 50 m was delineated along the contact between Sitagota Basalt and Karutola Sandstone.
- Of the 113 samples analysed, six bedrock samples recorded total PGE values of 60–308 ppb. Vanadium- and titanium-bearing aluminous to bauxitic laterite over the Sitagota Basalt also showed potential, with average Al_2O_3 of ~31%, TiO_2 of ~5.2% and V_2O_5 of ~0.2%.
- Based on the above findings, the agency proposed G3-stage exploration for PGE and vanadium, comprising detailed geological mapping at 1:2000 scale, geochemical bedrock sampling, pitting/trenching and exploratory drilling with sampling for assessment of mineral resources under the UNFC G3 category.
- The Committee observed that the proposal is an upgradation of the agency's G4-stage investigation and that the geological setting and low PGE values do not adequately support G3-stage exploration.
- The agency was advised to strengthen the proposal with details on the nature and control of PGE mineralisation, petrological and mineralogical studies, and supporting analytical data, and was given an opportunity to present a revised proposal.
- After detailed deliberations and review of the revised presentation, the Committee found the proposal not justified for G3-stage exploration.

Sl. No.	Agency	Brief Comments
1	GSI	The area is predominantly underlain by granite and granite gneiss, with occurrences of pyroxenite. The presence of pyroxenite, along with the favourable geological setting, indicates potential for PGE (Platinum Group Elements) and vanadium mineralization. Therefore, the proposed block may be considered for taking up further exploration.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	Gemcokati Exploration Pvt. Ltd. has proposed 02 adjacent areas, namely Kumda Block and Jhapadi Block, for undertaking G3 level exploration for PGE and Vanadium minerals. Both the proposed areas fall within the same previously explored area by the same agency for the same

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		commodities at G4 level. Accordingly, the present proposals are essentially exploration upgradation proposals from G4 to G3 level. Both the proposed areas are 100% covered by forest land. Further, a Tiger Corridor is located approximately 1 km away from the proposed areas, which may be taken into consideration while processing the proposals and while ensuring compliance with applicable forest and wildlife-related statutory requirements. It is also observed that no mineral concession has been sanctioned/granted in either of the proposed areas. Further, no departmental exploration has been carried out previously, nor is departmental exploration presently ongoing in these areas.
5	NMEDT	Proposed block is upgraded from the NMEDT funded block titled as "Reconnaissance Survey (G4) For PGE, Vanadium and Associated Minerals In Bhursadongari - Murum Block (100 Sq. Km), Balaghat District, Madhya Pradesh (Toposheet No. 64C/11)" (Gemcokati Exploration Pvt. Ltd.). The proposed block falls within Recorded Forest Area and State Forest Range boundary, with a tiger corridor in the eastern part.

Recommendations of TCC-1:

The Committee did not recommend the proposal, as the geological setting and low PGE values do not adequately support G3-stage exploration in the proposed area. Further, the agency has not provided sufficient data on the nature and control of PGE mineralisation, petrological and mineralogical studies, and supporting analytical database to justify the proposal.

Agenda 104.1.15. Preliminary Exploration (G3) for Platinum group of elements bearing minerals and Vanadium bearing minerals in Kumda Block, Balaghat District, Madhya Pradesh.

(Proposal ID: ME/DD/G3/MP/26-27/217)

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

- The proposed block falls within Survey of India Toposheet No. 64C/11 and comprises sandstone and basalt of the Khairagarh Group. Previous GSI investigations in the area have indicated occurrences of pyroxenite and a favourable geological setting for PGE and vanadium mineralisation.
- GSI carried out investigations for chromite occurrences in parts of Balaghat District during FS 1967–68, wherein pyroxenite occurrences were reported. Regional Integrated Surveys were also carried out in the Malanjkhanda Extension Area during FS 1976–77.
- M/s Gemcokati Exploration Pvt. Ltd. carried out G4-stage reconnaissance exploration for PGE, vanadium and associated minerals in the Bhursadongari-Murum Block under the NMEDT project and delineated an anomalous zone of approximately 9 km × 50 m along the contact between Sitagota Basalt and Karutola Sandstone.
- Out of 113 samples analysed, six bedrock samples recorded total PGE values of 60–

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308 ppb. Vanadium- and titanium-bearing aluminous to bauxitic laterite over the Sitagota Basalt showed average Al_2O_3 of ~31%, TiO_2 of ~5.2% and V_2O_5 of ~0.2%.

- e. Based on the above findings, the agency proposed G3-stage exploration for PGE and vanadium, comprising detailed geological mapping at 1:2,000 scale, bedrock geochemical sampling, pitting/trenching and exploratory drilling with sampling for assessment of mineral resources under the UNFC G3 category.
- f. The Committee reviewed the proposal and observed that the proposed G3-stage exploration is an upgradation of the agency's G4-stage investigation. The geological setting and low PGE values were not considered adequate to support G3-stage exploration.
- g. The Committee observed that the agency had not provided sufficient information on the type and control of PGE mineralisation, petrological and mineralogical studies, and supporting analytical data. The agency was given an opportunity to strengthen and present the proposal; however, after detailed deliberations, the proposal was not found justified.

Sl. No.	Agency	Brief Comments
1	GSI	The area is predominantly underlain by granite and granite gneiss, with occurrences of pyroxenite. The presence of pyroxenite, along with the favourable geological setting, indicates potential for PGE (Platinum Group Elements) and vanadium mineralization. Therefore, the proposed block may be considered for taking up further exploration.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	Gemcokati Exploration Pvt. Ltd. has proposed 02 adjacent areas, namely Kumda Block and Jhapadi Block, for undertaking G3 level exploration for PGE and Vanadium minerals. Both the proposed areas fall within the same previously explored area by the same agency for the same commodities at G4 level. Accordingly, the present proposals are essentially exploration upgradation proposals from G4 to G3 level. Both the proposed areas are 100% covered by forest land. Further, a Tiger Corridor is located approximately 1 km away from the proposed areas, which may be taken into consideration while processing the proposals and while ensuring compliance with applicable forest and wildlife-related statutory requirements. It is also observed that no mineral concession has been sanctioned/granted in either of the proposed areas. Further, no departmental exploration has been carried out previously, nor is departmental exploration presently ongoing in these areas.
5	NMEDT	Proposed block is upgradation of the NMEDT funded block titled as "Reconnaissance Survey (G4) For PGE, Vanadium and Associated Minerals In Bhursadongari -

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		Murum Block (100 Sq. Km), Balaghat District, Madhya Pradesh (Toposheet No. 64C/11)".
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Recommendations of TCC-1:

The Committee did not recommend the proposal, as the geological setting and low PGE values do not adequately support G3-stage exploration in the proposed area. Further, the agency has not provided sufficient data on the nature and control of PGE mineralisation, petrological and mineralogical studies, and supporting analytical database to justify the proposal.

**Agenda 104.1.16. Reconnaissance Survey (G4 Stage) for targeting possible KCR bodies in and around previously known reported site of Chrome Diopside and associated KIM's in Sunwaha Block (95 Sq. Km.) in parts of Chhatarpur District of Madhya Pradesh
(Proposal ID: ME/DD/G4/MP/26-27/265)**

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

- The proposed block falls in Survey of India TS No. 54P/4 and the area lies in the western margin of extended NE-SW Panna Diamond Field south of Bunder and Saptarshi cluster of Rio Tinto
- The proposal was previously discussed in TCC-2 and the 85th TCC-1 meetings, wherein NMEDT was advised to obtain the report of diamond exploration carried out by NMDC in the proposed and adjoining areas.
- The proposal was subsequently discussed in the 24th TCC-2 meeting with inputs from NMDC and was not considered due to an overlap of approximately 88 sq. km with NMDC's diamond exploration area.
- The proposal was again reviewed in the 104th TCC-1 meeting. NMDC informed that the 88 sq. km overlap falls within its Damoh Block of 1,932 sq. km, explored for diamonds during 2017–2024, and that the geological report was submitted to the Government of Madhya Pradesh in March 2024.
- The Committee advised the agency to increase the proposed area and incorporate stream sediment sampling, heavy mineral studies, magnetic survey, petrological and mineralogical studies, followed by scout drilling, wherever necessary.
- The agency requested time to modify the proposal and present the revised proposal in the next TCC-1 meeting.

Sl. No.	Agency	Brief Comments
1	GSI	No overlapping is observed in the proposed area, a few Kimberlite Minerals (KIMs) were reported from the stream sediments from the nearby areas, and the area is having same lithological setup, so the area may be feasible for taking up the exploration activities.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	The department has no previous exploration / investigation information of KIM/Diamond Minerals exploration in the proposed area. There is no ongoing exploration work by the department for KIM/ Diamond or other mineral in the proposed area. There are 02 mineral

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		concessions (quarry lease) for mineral stone having 1-2 hect. Area falling under the proposed area.
5	NMEDT	The proposed block does not overlap with NMEDT funded projects.

Recommendations of TCC-1:

The Committee deferred the proposal and advised the agency to increase the proposed area and incorporate stream sediment sampling, heavy mineral studies, magnetic survey, petrological and mineralogical studies, followed by scout drilling, if required. The agency requested time to prepare the modified proposal and present it in the next TCC-1 meeting.

Agenda 104.1.17. Preliminary Exploration (G-3) of limestone in Kabir Ki Basti block, Tehsil- Jaisalmer, (11.5 sq.km area), District-Jaisalmer, Rajasthan (Proposal ID: ME/DD/G3/RJ/26-27/239)

[Implementing Agency: FAGMIL]

- The proposed block falls within Survey of India Toposheet No. 40I/11 and forms part of the Jaisalmer Basin, comprising limestone, foraminiferal limestone, marl, shale, ironstone, pseudo-conglomerate, bentonitic gypseous clay and fuller's earth of the Bandah, Shumar and Khuiala Formations.
- Previous GSI investigations in the Minyun Ki Dhani area have established significant resources of SMS-, chemical- and cement-grade limestone, including 213.346 million tonnes of indicated mineral resources in the Minyun Ki Dhani (East) Block.
- The agency informed that a field visit was carried out and 10 samples were collected. XRF analysis indicated CaO of 50.9–53.2%, SiO₂ of 1.26–2.93% and Fe₂O₃ of 0.43–1.83%.
- Based on the above data, the agency proposed G3-stage exploration for limestone, comprising detailed geological mapping at 1:4,000 scale, pitting/trenching and exploratory drilling with sampling for assessment of mineral resources under the UNFC G3 category.
- The Committee was informed by DGM, Rajasthan that 119 ha and 96 ha of the proposed block overlap with mining lease areas in the eastern and northern parts, respectively. The Committee advised the agency to exclude the overlapping mining lease areas and modify the block accordingly. The agency revised the block and presented the modified proposal.
- The Committee reviewed the revised proposal and recommended it to the PSC for consideration.

Sl. No.	Agency	Brief Comments
1	GSI	At present no project is going on in the proposed area, however the total area (11.5 Sq km) is considered too large for G3 exploration work. The block is proposed based on the encouraging results of G2 stage exploration in Minyun ki Dhani (East) Block works carried out by GSI, WR, Rajasthan and the block may be considered for potential of the area for cement and allied mineral-based industries.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks 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	NA
5	NMEDT	There are two G4-GM blocks for limestone within the buffer zone of the proposed block. Block Name- Minyun ki Dhani (East) II & Minyuns ki Dhani (East) I. The proposed block partially overlaps with auction leases as per Gatishakti portal. Mining and lease areas are present within the 0.5 km buffer zone surrounding the proposed block. No NMEDT funded blocks overlapping with the proposed block in NGDR.

Recommendations of TCC-1:

The committee recommended the proposal titled “Preliminary Exploration (G3) for Limestone in Kabir Ki Basti Block, District: Jaisalmer, Rajasthan” for approval of PSC, NMEDT with an estimated cost of Rs. 149.81 lakhs (including GST) with a timeline of 12 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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Preliminary Exploration (G3) for Limestone in Kabir Ki Basti Block, District: Jaisalmer, Rajasthan Total Area: 7.66 sq. km. Total Drilling: 650 m, No. of BH: 13 (50 m depth of each BH). Schedule Timeline: 12 months, Review after: 3, 6 and 9 months ME/DD/G3/RJ/26-27/239							Annexure 4A	
S.No.	Main Activity	Activity	Sub Activity	Sub Sub Activity	Hilly Terrain/ LWE Multiplication Factor	Approved Unit	Approved Cost (₹)	Remarks
1	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.1 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)			1	7.66	140178.00	
2	1.0 Geological Mapping [Large scale mapping	1.3 Survey Work	1.3.1 Charges of one qualified surveyor with	a) Charges of one	1	25	262500.00	

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	(LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying		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.	Surveyor per day (without labour) (Up to 4 labours will be allowed per surveyor)				
3	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.3 Survey Work	1.3.2 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		1	19	456000.00	13 BH + 6 Cardinal Points
4	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.2 Other Geological Work/Activities	1.2.1a 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	a) Charges for one Geologist per day at HQ	1	30	315000.00	

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			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.					
5	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.2 Other Geological Work/Activities	1.2.1a 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,	b) Charges for one Geologist per day in field (without labour)	1	120	1740000.00	

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			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.					
6	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.2 Other Geological Work/Activities	1.2.1b 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.		1	70	549500.00	
7	2.0 Mineral Investigation	2.2 Drilling	2.2.1 Drilling: (Diamond core drilling)	2.2.1.1c Drilling in / Drilling in Soft rock/ Strata: HQ size borehole upto 400m Depth and NQ Size beyond 400m	1	650	3575000.00	

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				depth In case NQ size drilling is done before 400m depth, the rate shall decrease by 20%				
8	2.0 Mineral Investigation	2.2 Drilling	2.2.7 Construction of concrete Pillar (12"x12"x30")		1	13	26000.00	
9	2.0 Mineral Investigation	2.2 Drilling	2.2.8 Borehole plugging by cement		1	13	130000.00	
10	4.0 Laboratory Studies	4.5 Mineral Physics Studies	4.5.2 XRD analysis for identification of minerals (Random)		1	5	-	
11	4.0 Laboratory Studies	4.8 Geotechnical Laboratory	4.8.3 Bulk density - Dry / Saturated		1	5	12500.00	
12	4.0 Laboratory Studies	4.1 Chemical Analysis	4.1.17 Estimation of major oxides by XRF technique (Whole rock analysis)	4.1.17a Major oxides (WD XRF)- (oxides+ traces -24 elements)	1	550	2310000.00	520 CS + 30 BRS
13	4.0 Laboratory Studies	4.1 Chemical Analysis	4.1.11 Complete analysis of dolomite/ limestone/ gypsum/ clay/ manganese ore/ bauxite/ iron ore samples		1	8	31200.00	

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14	4.0 Laboratory Studies	4.3 Petrological Studies	4.3.1 Preparation of standard thin section of rock		1	5	2500.00	
15	4.0 Laboratory Studies	4.3 Petrological Studies	4.3.4 Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo micrographs)		1	5	14000.00	
16	4.0 Laboratory Studies	4.1 Chemical Analysis	4.1.15 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)	4.1.15a Chemical analysis by ICP-MS per additional elements	1	10	74000.00	
17	5.0 Miscellaneous Charges	5.8 Charges for engaging skilled, semiskilled and unskilled workers for attending work associated with the mineral exploration project in the field/camp/HQ.			1	280	155680	
18	5.0 Miscellaneous Charges	5.6 Land/Crop compensation			1	13	540000.00	
19	5.0 Miscellaneous Charges	5.3 Drill Core Preservation			1	475	755250.00	
20	5.0 Miscellaneous Charges	5.8 Charges for engaging skilled, semiskilled and unskilled workers for attending work associated with the mineral exploration project in the field/camp/HQ.			1	240	133440	
21	5.0 Miscellaneous Charges	5.8 Charges for engaging skilled, semiskilled and unskilled workers			1	100	55600	

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		for attending work associated with the mineral exploration project in the field/camp/HQ.						
				Total Charges/Cost (₹)		11278348.00		
				Total Drilling Cost (Rule 2.2.9) (Rule 1 Applied)		893750.00		
				Tendering Process Cost		0.00		
				Technical supervision cost		0.00		
				Total		12172098.00		
				Peer review charge(Fixed)		30000.00		
				Preparation of Exploration Proposal		243442.00		
				Geological Report Preparation		250000.00		
				Total Estimated Cost without GST (₹)		12695540.00		
				Provision for GST (18% of I) (₹)		2285197.00		
				Total Estimated Cost with GST (₹)		14980737.00		

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Not e:				
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.			
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.			
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and 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 Scehdule/ Action Plan for Preliminary Exploration (G3) for Limestone in Kabir Ki Basti Block, District: Jaisalmer, Rajasthan																			
		Months																	
Sr. No	Activities	1	2	3	Review	4	5	6	Review	7	8	9	Review	10	11	12			
1	Camp Mobilisation																		
2	Geologist Days Field																		
4	Drilling																		
5	Sampling Party																		
6	Laboratory Studies																		
7	Camp Demobilisation																		
8	Geologist Party in HQ																		
9	Geologist Report Writing with Peer Review																		

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Agenda 104.1.18. Reconnaissance Survey (G4) for Aluminous Laterites with associated Critical Minerals, Othagi Area, Bidar District, Karnataka (Proposal ID: ME/IND/G4/KA/P/26-27/026)

[Implementing Agency: M/s. GMMCO]

- a. The Committee observed that the agency currently has no manpower available for execution of the proposed work. Accordingly, the proposal was not discussed and may be taken up for consideration once the agency has adequate manpower in place.

Sl. No.	Agency	Brief Comments
1	GSI	Two projects have been taken up by GSI, SU: Karnataka and Goa for exploration, which are having some overlapping with the NPEA proposed block in the northern part and the details are as follows I. Critical Mineral Assessment Programme (CMAP) for assessing the potentiality in lateritic rocks of Hunsnal block , Bidar district, Karnataka (under rolling approval during FS 2026-27). II. Critical Mineral Assessment Programme (CMAP) for assessing the potentiality in lateritic rocks of Chincholl block , Bidar district, Karnataka (under rolling approval during FS 2026-27). Based on the baseline data, the area appears to be potential hence GSI has taken up exploration in the northern parts of the proposed area.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	Based on the available data, presently, no ongoing exploration/reconnaissance projects related to Vanadium and Associated Critical Minerals in Aluminous Lateritic Rocks are being undertaken by DMG. Based on the exploration data, the occurrence of Vanadium, Scandium, Gallium and associated minerals is established by the 2024–25 exploration work of GSI. The area is feasible for G4 stage exploration. As per the available records, there are no Composite License or Mining Lease/Quarrying leases granted within the proposed block.
5	NMEDT	The proposed block do not overlap with NMEDT funded project.

Recommendations of TCC-1:

The proposal was deferred as the agency does not have adequate manpower to undertake the proposed exploration work.

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Agenda 104.1.19. Preliminary Exploration (G-3) for Limestone in Lakadong Block, East Jaintia Hills District, Meghalaya
(Proposal ID: ME/DD/G3/ML/26-27/257)

[Implementing Agency: DMR Meghalaya]

- The proposed block falls within Survey of India Toposheet No. 62C/03 and comprises limestone with associated shale and sandstone of the Jaintia Group.
- GSI carried out preliminary appraisal (P-II stage) during FS 1996–97 around Lumshnong and Lakadong, wherein three major limestone occurrences, namely Lakadong, Khaddum-Sakwa and Mynkree, were delineated. The Lakadong and Mynkree occurrences were reported to be partly of chemical grade, while the Khaddum-Sakwa occurrence was predominantly of SMS grade.
- Earlier investigations by DMR in the Lumshnong and Syndai areas established substantial limestone resources, including about 92.44 MT of cement-to-chemical grade limestone in the Lumshnong North Block and approximately 26 MT of cement-grade limestone in the Syndai area.
- Based on the above exploration data, the agency proposed G3-stage exploration for assessment of limestone resources, comprising geological mapping at 1:4,000 scale, geochemical sampling, pitting/trenching and exploratory drilling for assessment under UNFC 333 category.
- The proposal was previously discussed in 102nd TCC-I meeting, wherein the agency was suggested to modify the block area.
- The committee reviewed the revised proposal and recommended for approval of PSC of NMEDT. The work includes 900 m of drilling with 400 m spacing between BHs.

Sl. No.	Agency	Brief Comments
1	GSI	There are no ongoing exploration/reconnaissance projects related to Limestone and any other mineral/commodity in the proposed area. Though Katti et.al. carried out 1:50,000 scale geological mapping, however G4 stage exploration has not been done in the proposed NMEDT block by GSI.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	NA
5	NMEDT	The proposed block does not overlap with NMEDT funded project.

Recommendations of TCC-1:

The committee recommended the proposal titled “Preliminary Exploration (G3) for Limestone in Lakadong Block, District: East Jaintia Hills, Meghalaya” for approval of PSC, NMEDT with an estimated cost of Rs. 249.50 lakhs (including GST) with a timeline of 15 months for carrying out the proposed work and submission of report as per Annexure – 5A & 5B. The item will be reviewed after 4, 8 and 12 months.

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Preliminary Exploration (G3) for Limestone in Lakadong Block, District: East Jaintia Hills, Meghalaya Area: 5 sq. km, Total Drilling: 900 m, No. of BH: 9 BH. Scheduled Timeline: 15 months, Review after: 4, 8 and 12 months ME/DD/G3/ML/26-27/257								Annexure 5A
S.No.	Main Activity	Activity	Sub Activity	Sub Sub Activity	Hilly Terrain /LWE Multipli cation Factor	TCC Approved Unit	TCC Approved Cost (₹)	Remarks
1	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.1 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)			1.5	5	137250.00	Mapping and Contouring on 4000 scale
2	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.2 Other Geological Work/Activities	1.2.1a 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/H	a) Charges for one Geologist per day at HQ	1	40	420000.00	

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			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.					
3	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.2 Other Geological Work/Activities	1.2.1a Other Geological work/studies like geochemical studies, geochemical Orientation Survey, water sampling, surface sampling, outcrop sampling (BRS/PS/PCS/Groove/Chip/Grab/	b) Charges for one Geologist per day in field (without labour)	1.5	150	3262500.00	

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			Channel/Soil/SSS/H eavy 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 headquartet.					
4	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.2 Other Geological Work/Activities	1.2.1b Sample processing work including marking of samples, core splitting, crushing and powdering of samples, coning and quartering, packing		1.5	87	1024425.00	

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			& labeling of samples, preparation of beneficiation samples etc.					
5	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.3 Survey Work	1.3.2 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		1.5	13	468000.00	
6	1.0 Geological Mapping [Large scale mapping (LSM)/Detailed Mapping (DM)], Other Geological Work and Surveying	1.3 Survey Work	1.3.1 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)	1.5	60	945000.00	

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7	2.0 Mineral Investigation	2.1 Pitting & Trenching	2.1.2 Excavation of Pit up to 2.0 m depth with back filling		1.5	20	141750.00	
8	2.0 Mineral Investigation	2.2 Drilling	2.2.1 Drilling: (Diamond core drilling)	2.2.1.1c 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%	1.5	900	7425000.00	
9	2.0 Mineral Investigation	2.2 Drilling	2.2.7 Construction of concrete Pillar (12"x12"x30")		1	9	18000.00	
10	4.0 Laboratory Studies	4.1 Chemical Analysis	4.1.17 Estimation of major oxides by XRF technique (Whole rock analysis)	4.1.17a Major oxides (WD XRF)- (oxides+ traces -24 elements)	1	700	2940000.00	650 CS + 20 Pit Sample+ 30 BRS
11	4.0 Laboratory Studies	4.1 Chemical Analysis	4.1.17 Estimation of major oxides by XRF technique (Whole rock analysis)	4.1.17b For each additional trace elements	1	70	29470.00	

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12	5.0 Miscellaneous Charges	5.6 Land/Crop compensation			1.5	9	405000	
13	5.0 Miscellaneous Charges	5.8 Charges for engaging skilled, semiskilled and unskilled workers for attending work associated with the mineral exploration project in the field/camp/HQ.			1.5	888	740592	
14	5.0 Miscellaneous Charges	5.3 Drill Core Preservation			1	700	1113000.00	
				Total Charges/Cost (₹)			19069987.00	
				Total Drilling Cost (Rule 2.2.9)			0.00	
				Tendering Process Cost			148500.00	
				Technical supervision cost			742500.00	
				Total			19960987.00	
				Peer review charge(Fixed)			30000.00	
				Preparation of Exploration Proposal			399220.00	
				Geological Report Preparation			750000.00	
				Total Estimated Cost without GST (₹)			21140207.00	
				Provision for GST (18% of I) (₹)			3805237.00	
				Total Estimated Cost with GST (₹)			24945444.00	
Note:								
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.							
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.							
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and 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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Tentative Time schedule / Action plan of Preliminary Exploration (G3) for Limestone in Lakadong Block, District: East Jaintia Hills, Meghalaya;

Sl No.	Particulars	Months																			
		1	2	3	4	Review	5	6	7	8	Review	9	10	11	12	Review	13	14	15		
1	Camp Setting/ Mobilization																				
2	DGPS & Topographical Survey																				
3	Geological Mapping																				
4	Pitting																				
5	Mobilizations Period of Drilling																				
6	Drilling																				
7	Core Logging																				
8	Core Sampling																				
9	Laboratory Studies																				
10	Data Compilation																				
11	Preparation Of Geological Report																				

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Agenda 104.1.20. Preliminary Exploration (G3 Stage) for Graphite, Vanadium and Associated Minerals in Bohita block, Palamu district, Jharkhand
(Proposal ID: ME/DD/G3/JH/26-27/231)

[Implementing Agency: JMECL]

- The proposed block falls within Survey of India Toposheet No. 73A/05 and comprises granite gneiss with enclaves and bands of quartz-mica schist, quartz-graphite-mica schist and quartzite of the Chhotanagpur Gneissic Complex.
- Previous investigations have established graphite mineralisation associated with quartz-graphite-mica schist and related metasedimentary units in the region. Recent exploration by DMG, Jharkhand, in the Rewaratu, Lesliganj, Dulsulma and Ponchi blocks has established G2-level graphite resources.
- The agency informed that four bedrock samples were collected during the field visit, recording fixed carbon values ranging from 7.24% to 18.93%. Based on the available data, the agency proposed G3-stage exploration comprising geological mapping, geochemical sampling, pitting/trenching and exploratory drilling for assessment under UNFC 333 category.
- The Committee was informed by DGM, Jharkhand that G2-stage exploration for graphite has already been carried out in part of the proposed area and the area is under auction. The Committee advised the agency to exclude the G2-explored area, strengthen the prospectivity assessment and supporting database of the remaining area, and submit a revised proposal with proper justification.

Sl. No.	Agency	Brief Comments
1	GSI	GSI has nearly developed all G4 blocks entitled "Reconnaissance survey for graphite in Chhotanagpur Gneissic Complex Parsahi, Satbarwa and Ranki Kalan in Latehar District, Jharkhand" (STAGE: G-4) during FS 2019-20. to G3/G2 stage in the northern part of the Toposheet which includes Karma, Adhamniya, Budhiyabagi, Mandhaniya, Sui, Charwadih etc and has proposed Dodang G3 block for the FS 2027-28. The newly proposed BOHITA GRAPHITE, VANADIUM AND ASSOCIATED MINERALS BLOCK, PALAMU DISTRICT, JHARKHAND block is situated just north of GSI's previously explored G4 Ranchi block. This proposed area does not overlap with any of current GSI's Field Season Programmes (FSP). Accordingly, final decision may be taken by the NMET.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	The proposed Bohita Graphite, Vanadium and associated Mineral Block of M/s JEMCL Ranchi overlaps with the

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		Rewaratu Graphite Block, previously explored at G2 Level by Directorate of Geology, Jharkhand.
5	NMEDT	The proposed block do not overlap with NMEDT funded project, however the proposed block (21%) fall in Recorded Forest Area (RFA).

Recommendations of TCC-1:

The Committee did not recommend the proposal as part of the proposed area overlaps with the G2-stage graphite exploration area of DGM, Jharkhand, which is under auction. The agency was advised to exclude the G2-explored area, strengthen the database for the remaining area, and submit a revised proposal with proper justification.

Agenda 104.2: Project Evaluation for In-Principle Approval

Agenda 104.2.1. G-3 (Prospecting) Exploration for Rare Earth Elements (REE), Scandium (Sc) And Yttrium (Y) In Maulang Block Area, Kamrup District, Assam

(Proposal ID: ME/IN/G3/AS/P/26-27/241)

[Implementing Agency: M/s Techno Enterprises]

- The proposed block falls within Survey of India Toposheet Nos. 78O/01 and 78O/02 and is predominantly underlain by porphyritic granite of the Seinduli Pluton, with enclaves of granite gneiss belonging to the Assam–Meghalaya Gneissic Complex (AMGC).
- The Committee noted that the proposed block overlaps with an ongoing NMEDT-funded RMT block.
- The Committee did not consider the proposal and advised the agency to await the outcome of the ongoing project before submitting the proposal for further consideration.

Sl. No.	Agency	Brief Comments
1	GSI	No overlapping
2	MECL	No overlapping
3	AMD	No overlapping
4	State DMG/DGM/CGM	Awaited
5	NMEDT	The proposed block overlap with NMEDT funded Project of MMPL Ongoing RMT block. The Proposed block does not fall in Recorded Forest Area.

Recommendations of TCC-1:

The Committee did not recommend the proposal as the proposed block overlaps with an ongoing NMEDT-funded RMT project.

Agenda 104.2.2. Preliminary Exploration (G-3) Of Rare Earth Elements (REE) And Associated Minerals in Mawsikar Block, Kamrup District, Assam (Proposal ID: ME/IN/G3/AS/P/26-27/246)

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[Implementing Agency: M/s Techno Enterprises]

- The proposed block falls within Survey of India Toposheet Nos. 78O/01 and 78O/02 and is predominantly underlain by porphyritic granites of the Seinduli Pluton, with enclaves of granite gneiss belonging to the Assam–Meghalaya Gneissic Complex (AMGC).
- The Committee noted that the proposed block overlaps with an ongoing NMEDT-funded RMT block.
- The Committee did not consider the proposal and advised the agency to await the outcome of the ongoing project before submitting the proposal for further consideration.

Sl. No.	Agency	Brief Comments
1	GSI	No overlapping
2	MECL	No overlapping
3	AMD	No overlapping
4	State DMG/DGM/CGM	Awaited
5	NMEDT	The proposed block overlap with NMEDT funded Project of MMPL Ongoing RMT block. The Proposed block does not fall in Recorded Forest Area.

Recommendations of TCC-1:

The Committee did not recommend the proposal as the proposed block overlaps with an ongoing NMEDT-funded RMT project.

**Agenda 104.2.3. G-3 (Prospecting) Exploration for Rare Earth Elements (REE), Scandium (Sc) And Yttrium (Y) In Nong Mauling Block Area, Kamrup District, Assam
(Proposal ID: ME/IN/G3/AS/P/26-27/245)**

[Implementing Agency: M/s Techno Enterprises]

- The proposed block falls within Survey of India Toposheet No. 78O/01 and is predominantly underlain by porphyritic granite of the Seinduli Pluton, with enclaves of granite gneiss of the Assam–Meghalaya Gneissic Complex (AMGC).
- Stream sediment data generated under NGCM and subsequent investigations indicate anomalous concentrations of Co, Cr, Cu, Ni, Sr and REE, particularly over the younger granitic intrusives in the eastern and northeastern parts of the proposed block.
- Regional mineral targeting and G4-stage investigations reported elevated REE values in soil and bedrock samples, with TREE values up to 2,651 ppm in bedrock and up to 6,535 ppm in soil samples. Sc and Y concentrations in soil samples were reported up to 1,432 ppm and 185 ppm, respectively.
- Five mineralised zones (MZ-1 to MZ-5), having soil/regolith thickness of about 2–4 m, were delineated for detailed exploration and systematic shallow drilling to assess REE mineralisation in the regolith.
- Based on the above findings, the agency proposed G3-stage exploration for REE and associated critical minerals, comprising detailed geological mapping at 1:4,000 scale, geochemical sampling, pitting/trenching, ground geochemical survey and exploratory drilling for assessment under UNFC 333 category.

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- f. The Committee reviewed the proposal and enquired whether the agency proposes to target REE mineralisation in the regolith or bedrock.
- g. The Committee advised the agency to undertake a field visit, collect representative samples and obtain analytical results to establish greater confidence in the proposed exploration programme.
- h. The Committee further advised the agency to submit the DPR after assessing the local ground conditions and the feasibility of undertaking exploration in the proposed area.

Sl. No.	Agency	Brief Comments
1	GSI	No overlapping
2	MECL	No overlapping
3	AMD	No overlapping
4	State DMG/DGM/CGM	Awaited
5	NMEDT	The proposed block does not overlap with NMEDT funded block however small portion of AOI coincides with RMT block of MMPL Pvt Ltd. The proposed block is completely covered (100%) by the Reserved Forest Area (RFA).

Recommendations of TCC-1:

The Committee approved the proposal in principle and advised the agency to undertake a field visit, collect and analyse representative samples, establish the target horizon (regolith/bedrock), and assess the local ground conditions and feasibility of exploration before submitting the DPR for further consideration.

The DPR may be submitted within 3 months.

Agenda 104.2.4. Preliminary Exploration (G-3) for Rare Earth Elements (REE) And Associated Minerals in Umtap Block area, Kamrup District, Assam (Proposal ID: ME/IN/G3/AS/P/26-27/248)

[Implementing Agency: M/s Techno Enterprises]

- a. The proposed block falls within Survey of India Toposheet Nos. 78O/01 and 78O/02 and is predominantly underlain by porphyritic granite of the Seinduli Pluton, with enclaves of granite gneiss belonging to the Assam–Meghalaya Gneissic Complex (AMGC).
- b. NGCM investigations and Regional Mineral Targeting (RMT) studies have reported anomalous REE values in stream sediment, soil and bedrock samples, particularly over the granitic plutons. Σ REE values of 820–2,088 ppm in soil and 802–1,611 ppm in bedrock samples were reported during RMT studies.
- c. G4-stage reconnaissance exploration during FS 2022–23 recorded Σ REE values of 41.15–2,651.35 ppm in bedrock samples and 119.08–6,535.25 ppm in soil samples. Soil samples also recorded Sc concentrations of 13–1,432 ppm and Y concentrations of 16–185 ppm.
- d. Five mineralised zones (MZ-1 to MZ-5), with soil/regolith thickness of about 2–4 m, were delineated for detailed exploration and systematic shallow drilling to assess REE mineralisation in the regolith. The agency also reported anomalous Au values in samples from the Seinduli and Mawdoh plutons.

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- e. Based on the above exploration data, the agency proposed G3-stage exploration for REE and associated critical minerals, comprising detailed geological mapping at 1:4000 scale, geochemical sampling, pitting/trenching, ground geochemical survey and exploratory drilling for assessment under UNFC 333 category.
- f. The Committee reviewed the proposal and enquired whether the agency proposes to target REE mineralisation in the regolith or bedrock.
- g. The Committee advised the agency to undertake a field visit, collect representative samples and obtain analytical results to establish greater confidence in the proposed exploration programme.
- h. The Committee further advised the agency to submit the DPR after assessing the local ground conditions and the feasibility of undertaking exploration in the proposed area.

Sl. No.	Agency	Brief Comments
1	GSI	No overlapping
2	MECL	No overlapping
3	AMD	No overlapping
4	State DMG/DGM/CGM	Awaited
5	NMEDT	The proposed block do not overlap with NMEDT funded block, however the proposed block is completely covered (100%) by the Reserved Forest Area (RFA).

Recommendations of TCC-1:

The Committee approved the proposal in principle and advised the agency to undertake a field visit, collect and analyse representative samples, establish the target horizon (regolith/bedrock), and assess the local ground conditions and feasibility of exploration before submitting the DPR for further consideration.

The DPR may be submitted within 3 months.

**Agenda 104.2.5. Reconnaissance Survey (G-4 stage) for Titanium and Vanadium bearing magnetite in Rangamatia-Betei A & B Block (26 sq km), District: Balasore district, Odisha
(Proposal ID: ME/IN/G4/OD/P/26-27/236)**

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

- a. The proposed block falls within Survey of India Toposheet Nos. 73K/10 and 73K/11 and forms part of the Baula–Pindabasa–Nilgiri mafic-ultramafic belt, comprising gabbro, anorthosite, pyroxenite, serpentinised ultramafics and titaniferous-vanadiferous magnetite (TVM) bands.
- b. DMG, Odisha reported TVM occurrences at Rangamatia and Betei, with V_2O_5 values of 0.372–1.620% and TiO_2 values of 7.20–14.40% in magnetite samples. A chromite body was also reported south of Bhalukasuni, with Cr_2O_3 values of 39.62–44.92%.
- c. Previous investigations by GSI reported anomalous Pt+Pd, Ni and Cu values from the Bhalukasuni ultramafics and anomalous Cu values in the gabbro-anorthosite rocks of Ambajhor. Bedrock samples from Bhalukasuni recorded Pt+Pd of 15–30 ppb, Ni of 235–290 ppm and Cu of 100–130 ppm.

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- d. Based on the above exploration data, the agency proposed G4-stage exploration for titanium- and vanadium-bearing magnetite. The proposed programme comprises detailed geological mapping at 1:2,000 scale, geochemical sampling and exploratory drilling for assessment of mineral resources under UNFC 334 category.
- e. The committee reviewed the proposal and noted that Block A falls within boundary zone of Kuldiha WLS & ESZ, whereas Block B falls just outside the said ESZ.
- f. The Committee advised the agency to undertake a field visit, collect representative samples and obtain analytical results.
- g. If the analytical results are potential, the agency may bring DPR for consideration.

Sl. No.	Agency	Brief Comments
1	GSI	DMG, Odisha has carried out one project in FS: 1981-84 on Chromite and Vanadiferous Magnetite in parts of Nilagiri Sub-Division of Balasore District. In conclusion and recommendation part of the report, it is mentioned that the vanadiferous magnetite deposit at Rangmatia has a limited reserve (21,120 tonnes) and as such merits no further investigation. The percentage of V ₂ O ₅ varies from 0.380% to 1.238%. The vanadiferous magnetite deposit at Betei has a limited reserve and since the percentage of V ₂ O ₅ is quite less in most of the samples, the deposit merits no further investigation.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	On examination of the proposed area, it was observed that DoMG has been partially covered during F.S. 1981-84 through geological mapping on 1:10,000 scale. Rangamatia Block-A is partially covered whereas Block-B is not covered by DoMG. Block-A is underlain by Soil, Granite suite of Rock, Dolerite dyke and Gabbro anorthosite suite. Occurrences of Magnetite ore have also been observed within the Block-A area. However, on examination of the group plan, it is observed that the Block-B is located approximately 2.5 km away, while Block-A is approximately 9.5 km away from the proposed Subarnarekha–Mahanadi Link Project of the Government of India (Jal Shakti).
5	NMEDT	The proposed block does not overlap with NMEDT funded block. Block A falls within the boundry zone of Kuldiha WLS & ESZ along with the buffer zone of the proposed block - B falls within the ESZ.

Recommendations of TCC-1:

The Committee approved the proposal in principle for Block-B and advised the

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agency to undertake a field visit and collect and analyse representative samples. If the analytical results indicate encouraging potential, the agency may submit the DPR within three months for further consideration.

**Agenda 104.2.6. Reconnaissance Survey (G-4 stage) for Nickel and Gold in Hatikholia-Brahmihuli A & B Block (26 sq km), District: Balasore district, Odisha
(Proposal ID: ME/IN/G4/OD/P/26-27/235)**

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

- The proposed block falls within Survey of India Toposheet Nos. 73K/10 and 73K/11 and forms part of the Baula–Pindabasa–Nilgiri mafic-ultramafic belt, comprising gabbro, anorthosite, pyroxenite, serpentinised ultramafics and titaniferous-vanadiferous magnetite (TVM) bands.
- GSI investigations in the belt have reported PGE, Ni and Cu anomalism associated with ultramafic rocks. Bedrock samples from Bhalukasuni recorded Pt+Pd of 15–30 ppb, Ni of 235–290 ppm and Cu of 100–130 ppm, while soil samples recorded Pt+Pd up to 55 ppb.
- The Brahmahuli ultramafic body extends over approximately 1.5 km × 0.5 km along a NE–SW trend and recorded Pt+Pd values of 10–30 ppb and Ni values of 230–305 ppm in bedrock samples.
- The Hatikholia ultramafic body, comprising predominantly talcose metapyroxenite, recorded Pt+Pd values of 10–21 ppb in bedrock samples. Stream sediment samples recorded anomalous Pt of 44–70 ppb, Pd of 21–27 ppb and Ni of 240–1,385 ppm.
- Based on the above exploration data, the agency proposed G3-stage exploration for Ni and gold mineralisation, comprising detailed geological mapping at 1:2,000 scale, geochemical sampling, ground geophysical surveys and exploratory drilling for assessment under UNFC 334 category.
- The Committee noted ambiguity regarding the ESZ/ESA status of the proposed area.
- The Committee advised the agency to modify the proposed block in accordance with the applicable ESZ/ESA boundary, enlarge the area suitably, plot the available data, and resubmit the proposal for in-principle consideration.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed Blocks-A and B overlap with the Baula-Pindabasa-Nilgiri Belt, covering Keonjhar, Baleswar and Mayurbhanj Districts, Odisha, where exploration for PGE, Ni and Cu mineralisation, along with petro-mineralogical and geochemical studies of the PGE-hosted ultramafic association (P-II stage, 1:50,000 scale), was carried out by GSI during FS: 2002-03. In Block-A, exposure levels are very less for carrying out G-4 type of work. In view of the above, the proposed Blocks-A and B may be considered for G-4 level work after considering the exposure level in Block-A and the area explored by GSI during FS: 2002-03.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks 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/C GM	On examination of the Hatikhollia block, it is observed that the proposed area has been partially covered during F.S. 1981-84 through geological mapping on 1:25,000 scale. Hatikhollia Block-A is almost entirely covered, whereas Hatikhollia Block-B is partially covered. Block-A is covered by Alluvium, Granite suite of rocks, Dolerite dyke, Laterite and Steatite, while Block-B is covered by Granite suite of rocks and Dolerite dyke. However, on examination of the group plan, it is observed that Hatikhollia Block-A overlaps with the proposed Subarnarekha-Mahanadi Link Project of the Government of India (Jal Shakti), whereas Hatikhollia Block-B is 500 m away from the Subarnarekha-Mahanadi Link Project.
5	NMEDT	The proposed block do not overlap with NMEDT funded block. Block B falls within the boundary zone of WLS & ESZ along with the buffer zone of the proposed block falls within the ESZ and Kuldiha wildlife sanctuary.

Recommendations of TCC-1:

The Committee deferred the proposal and advised the agency to modify the proposed block in accordance with the applicable ESZ/ESA boundary, suitably enlarge the area, plot the available data, and resubmit the proposal for in-principle consideration.

**Agenda 104.2.7. Reconnaissance Survey (G-4 stage) for Magnetite, REE and associated Critical Minerals in Kharadih Block (99 sq km), District: Jajpur, Odisha.
(Proposal ID: ME/IN/G4/OD/P/26-27/062)**

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

- The proposed block falls within Survey of India Toposheet No. 73H/13 and is located in the contact zone between the Singhbhum Craton (SC) and the Eastern Ghats Mobile Belt (EGMB).
- The area comprises silici-clastic sediments, metavolcanic rocks, metamorphosed ultramafic rocks, banded black chert, banded cherty quartzite, and arenaceous to argillaceous phyllites forming the basal sequence.
- The area comprises Banded Iron Formation (BIF) units of the Singhbhum Craton, represented by BHQ/BMQ, BHJ, and banded cherts, while granulite facies rocks of the Eastern Ghats Supergroup are represented by khondalites, charnockites, and leptynites.
- GSI carried out Regional Mineral Targeting (FS 2021–23) in the Telkoi Valley–Mankarchua sector for greenstone-hosted gold, conglomerate-hosted gold, and REE mineralization. The EGMB–Iron Ore Craton contact zone is characterized by intense brecciation, silicification, migmatization, and intrusive bodies including gabbro, granophyre/microgranite, pyroxinite, and ultramafics, indicating potential for REE mineralization.
- Abandoned iron ore quarries near Kharadih indicate iron mineralization associated with ferruginous quartzite and magnetite-rich gabbro, with Fe values ranging from 53.05% to

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59.76%. The region is also known for nickel and cobalt enrichment within laterite caps developed over ultramafic rocks of the Sukinda Belt.

- f. Based on the geological evidence, the agency proposed a G4-stage exploration programme comprising large-scale geological mapping (1:12500), geochemical sampling, pitting/trenching, and exploratory drilling. Preliminary fieldwork yielded 13 samples with Fe(T) values ranging from 27.62% to 68.83% and TREE values ranging from 21.67 to 491.88 ppm, with one sample recording 1041.12 ppm.
- g. The Committee reviewed the proposal and advised the agency to plot the available data on a geological map for better assessment of the mineralisation.
- h. The Committee further advised the agency to undertake a field visit, validate the proposed area, delineate the vanadium-rich zones, collect representative samples and obtain analytical results. If the results indicate encouraging potential, the agency may submit the DPR for further consideration.

SI. No.	Agency	Brief Comments
1	GSI	The proposed block is overlapping with G4 stage exploration blocks of GSI for chromite. (UE-15643). REE potential has been identified in the areas dominated by ultramafic/ultrabasic rocks which is not acceptable. Besides no information has been provided regarding previous work on REE or any critical mineralisation in the proposed area. The block is not recommended for exploration of REE and other critical minerals.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks 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 block, however proposed area is falling in Recorded Forest Area.

Recommendations of TCC-1:

The Committee approved the proposal in principle and advised the agency to plot the available data on a geological map, undertake a field visit, delineate the vanadium-rich zones, and collect and analyse representative samples. If the analytical results are encouraging, the agency may submit the DPR for further consideration.

**Agenda 104.2.8. Preliminary Exploration (G3) for REE and associated critical minerals at Chinguliya Block (3.02 Sq. Km.), Banka District, Bihar.
(Proposal ID: ME/IN/G3/BR/P/26-27/238)**

[Implementing Agency: M/s. Sathi Planners Private Limited]

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- a. The Committee noted that the proposed block falls within Survey of India Toposheet No. 72L/09 and is underlain by biotite granite gneiss and migmatite gneiss of the Chhotanagpur Granite Gneiss Complex (CGC).
- b. The Committee noted that GSI had carried out G4-stage reconnaissance exploration for Rare Earth Elements (REE) and Rare Metals (RM) in and around Gorhiyarwa and Bela areas of Jamui and Banka districts, Bihar, during FS: 2024–25. Geological, geochemical and mineralogical investigations involving 350 samples identified significant REE anomalies, with maximum Σ REE of 3448 ppm in stream sediment samples. Pakhalkudwa and Supra Panchet Formation were identified as potential targets for further exploration.
- c. The agency informed that pit samples collected from the proposed block during its investigation yielded highly anomalous TREE values ranging from 350.79 ppm to 1508.31 ppm. Soil auger samples recorded tREE values up to 1026 ppm, while a stream sediment sample recorded Σ REE+Sc+Y of 1106.03 ppm.
- d. In view of the encouraging REE anomalies, the agency proposed G3-stage exploration to assess the mineral potential of REE and associated minerals. The proposed exploration programme comprises geological mapping, surface geochemical sampling, pitting/trenching, and exploratory drilling with sampling for assessment of mineral resources under the UNFC G3 category.
- e. The Committee reviewed the proposal and advised the agency to undertake a field visit to delineate the control of mineralisation and assess the disposition and continuity of the mineralised bands, including whether the reported values represent primary mineralisation or secondary enrichment.
- f. The Committee further advised the agency to collect representative samples from the mineralised zones and obtain analytical results.
- g. If the analytical results indicate encouraging mineral potential, the agency may submit the DPR for further consideration.

Sl. No.	Agency	Brief Comments
1	GSI	In the proposed area only one BRS>1000ppm (1066 ppm), two pits samples> 1000ppm (1508 and 1144ppm) and one regolith sample> 1000ppm (1106ppm). The thickness of the soil/regolith cover in the area is reported to be less than 2 m, the scope for exploration of secondary REE mineralization associated with the regolith developed over granite gneiss and granite appears to be limited. The analytical value of REE in the proposed area is not very encouraging. Furthermore, the proposal submitted by Sathi Planners Private Limited does not clearly indicate whether the proposed exploration is aimed at primary REE mineralization hosted by granitoids and associated rocks or secondary REE mineralization occurring within the overlying regolith.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	Awaited
4	State DMG/DGM/CGM	The block boundary needs to be checked, as the coordinates indicate that the block is within Banka district only. However,

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		as per the submitted map, the western part of the block extends into Jamui district. The same needs to be checked and the block boundary coordinates need to be modified accordingly.
5	NMEDT	The proposed block does not overlap with NMEDT funded block. The Proposed block does not falls in Recorded Forest area.

Recommendations of TCC-1:

The Committee approved the proposal in principle and advised the agency to undertake a field visit, delineate the control and nature of mineralisation, collect representative samples and obtain analytical results. If the results are encouraging, the agency may submit the DPR within 3 months for further consideration.

**Agenda 104.2.9. Reconnaissance survey (G4) for Au-Cu-Ni in Dongripali area, Districts Mahasumund and Baloda Bazar, Chhattisgarh (Area: 5.13 sq. km)
(Proposal ID: ME/IN/G4/CT/P/26-27/202)**

[Implementing Agency: M/s ReVal Consulting Private Limited]

- The proposed block falls within Survey of India Toposheet No. 64K/15 and is predominantly underlain by bimodal acidic and basic volcanics of the Baghmara Formation of the Sonakhan Group. The volcanic sequence is intruded by mafic intrusives, undeformed granitoids and quartz veins, and is overlain by the sedimentary sequence of the Chhattisgarh Supergroup.
- The Committee noted that the proposed block overlaps with a GSI G4-stage block and that the proposed area of 5.13 sq. km is too small for a G4-stage exploration proposal.
- The Committee did not accord in-principle approval to the proposal.
- The Committee advised the agency to examine the GSI G4 report and, if a prospective zone is identified, submit a revised proposal for G3-stage exploration.

Sl. No.	Agency	Brief Comments
1	GSI	Over 90% overlap with GSI block.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/C GM	No overlap. No CL or ML present
5	NMEDT	The proposed block overlap with GSI Mission II and STM projects for 2022-23. The proposed block does not overlap with NMEDT funded block. The Proposed block does not fall in Recorded Forest area.

Recommendations of TCC-1:

The Committee did not accord in-principle approval to the proposal as the major part of (over 90%) the proposed block overlaps with GSI's block.

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**Agenda 104.2.10. Reconnaissance Survey for Magnetite and Titanium in Digtor Area,
Bankura District, West Bengal
(Proposal ID: ME/IN/G4/WB/P/26-27/210)
[Implementing Agency: M/s ReVal Consulting Private Limited]**

- The Committee noted that the proposed block falls within Survey of India Toposheet No. 73I/14 and is underlain by dolerite, phyllite and magnetite-bearing lithologies belonging to the Chotanagpur Granite Gneissic Complex.
- The Committee noted that the proposed block overlaps with an ongoing GSI G4-stage block.
- The Committee did not accord in-principle approval to the proposal.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed G4 stage investigation for magnetite and titanium in the Digtor Block in Bankura district of west Bengal exhibits 100% overlap with an ongoing GSI FSP item (FS 2026-27) of G4 stage. The ongoing item is a collaborative item with DMM, West Bengal.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/C GM	Awaited
5	NMEDT	The proposed block overlap with GSI projects for 2024–25 (Reconnaissance Survey for Vanadium, Titanium and PGE mineralization in and around Pabra-Bishinda area of Purulia & Bankura Districts, West Bengal (G4)). The proposed block do not overlap with NMEDT funded block, however the proposed block (app. 42%) falls within the Recorded Forest Area (RFA).

Recommendations of TCC-1:

The Committee did not accord in-principle approval to the proposal as the proposed block overlaps with GSI's ongoing block.

**Agenda 104.2.11. Reconnaissance Survey for Graphite, Copper, and Associated Mineral
in and Around Jamira Area, Distt. Purulia, West Bengal
(Proposal ID: ME/IN/G4/WB/P/26-27/216)
[Implementing Agency: M/s ReVal Consulting Private Limited]**

- The agency informed the Committee that it was not prepared to present the proposal.
- The Committee observed that, in recent instances, agencies have not presented proposals before the TCC citing lack of preparedness.
- The Committee decided that any project for which the agency fails to present the proposal/material before the TCC due to lack of preparedness shall be dropped.

Sl. No.	Agency	Brief Comments
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1	GSI	72% overlap with GSI's G4 block of FS 2023-24. 2% overlap with GSI's already handed over Rudra gold GM block. 27% overlap with GSI's FS 2023-24 G4 block.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	NA
5	NMEDT	The proposed block overlap with GSI Mission II project for 2022-23 (Regional Mineral Targeting for the concealed and deep seated deposits across the North Singhbhum Mobile Belt (NSMB) in and around Ranchi, East Singhbhum, West Singhbhum, Khunti, Saraikela-Kharsawan districts, Jharkhand). The proposed block overlap with GSI Mission II projects for 2023-24 (i. Reconnaissance Survey for Au and REE mineralization in and around Pargela and Dandudih area, Purulia district, West Bengal (G4)) (ii. Reconnaissance Survey for Gold mineralization in and around Sirisgora, Laupal and Kalapati area, Purulia, Bankura and Jhargram districts, West Bengal (G4)). Five G4 exploration blocks for Copper are overlapping with the proposed block. NMEDT funded blocks are not present in the vicinity of the proposed block, as per the NGDR Portal. However, the Reconnaissance Survey for Graphite in Korapara Area, Bankura, West Bengal (MMPL) is located approximately 10 km away from the proposed block. The proposed block (app. 30%) falls within the Recorded Forest Area (RFA).

Recommendations of TCC-1:

The Committee rejected the proposal as the agency was not prepared to present the proposal for review before the Committee.

**Agenda 104.2.12. Reconnaissance Survey for Graphite, Copper, and Associated Mineral in and Around Taldabra Area, Distt. Purulia, West Bengal
(Proposal ID: ME/IN/G4/WB/P/26-27/215)**

[Implementing Agency: M/s ReVal Consulting Private Limited]

- The agency informed the Committee that it was not prepared to present the proposal.
- The Committee observed that, in recent instances, agencies have not presented proposals before the TCC citing lack of preparedness.
- The Committee decided that any project for which the agency fails to present the proposal/material before the TCC due to lack of preparedness shall be dropped.

Sl. No.	Agency	Brief Comments
1	GSI	56% overlap with GSI's critical mineral G4 block of FS 2023-24.

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		• 100% overlap with GSI's already handed over Rudra gold GM block. • 44% overlap with GSI's FS 2023-24 G4 block for investigation of gold.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks 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 overlap with GSI Mission II project for 2022–23 (Regional Mineral Targeting for the concealed and deep seated deposits across the North Singhbhum Mobile Belt (NSMB) in and around Ranchi, East Singhbhum, West Singhbhum, Khunti, Saraikela-Kharsawan districts, Jharkhand). The proposed block overlap with GSI Mission II projects for 2023–24. (i. Reconnaissance Survey for Nb, REE and other rare metal mineralization within nepheline syenite and associated fenitized rock in and around Shusina area, Purulia district, West Bengal (G4) (ii. Reconnaissance Survey for Gold mineralization in and around Sirisgora, Laupal and Kalapati area, Purulia, Bankura and Jhargram districts, West Bengal (G4)). Six G4 exploration blocks for Copper are overlapping with the proposed block. One NMEDT funded blocks is overlapping with the proposed block (Reconnaissance Survey for Graphite in Korapara Area, Bankura, West Bengal (MMPL) overlaps with the proposed block), as per the NGDR Portal. The proposed block (app. 26%) falls in the Recorded Forest Area (RFA).

Recommendations of TCC-1:

The Committee rejected the proposal as the agency was not prepared to present the proposal for review before the Committee.

**Agenda 104.2.13. Reconnaissance Survey for REE, and Associated Mineral in and Around Asanbani Area, Purulia district, West Bengal
(Proposal ID: ME/IN/G4/WB/P/26-27/222)**

[Implementing Agency: M/s ReVal Consulting Private Limited]

- The agency informed the Committee that it was not prepared to present the proposal.
- The Committee observed that, in recent instances, agencies have not presented proposals before the TCC citing lack of preparedness.
- The Committee decided that any project for which the agency fails to present the proposal/material before the TCC due to lack of preparedness shall be dropped.

Sl. No.	Agency	Brief Comments
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1	GSI	The proposed block is not overlapping with any of the ongoing/completed blocks of GSI.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks 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 is slightly covered with a GSI Mission-II project for 2022–23 (Regional Mineral Targeting for the concealed and deep seated deposits across the North Singhbhum Mobile Belt (NSMB) in and around Ranchi, East Singhbhum, West Singhbhum, Khunti, Saraikela-Kharsawan districts, Jharkhand). Two G4 exploration blocks for Copper, Nickel, PGE, REE and other associated minerals Covered under the proposed block. The proposed block do not overlap with NMEDT funded block, however the proposed block (app. 6%) falls in the Recorded Forest Area (RFA).

Recommendations of TCC-1:

The Committee rejected the proposal as the agency was not prepared to present the proposal for review before the Committee.

Agenda 104.2.14. Reconnaissance survey (G4) for TiO₂, Cu, REE & associated Mineralization in Jaled and Sehada areas, Chatra District, Jharkhand (Area: 50 sq. km)

(Proposal ID: ME/IN/G4/JH/P/26-27/203

[Implementing Agency: M/s Wattfin Ventures Private Limited]

- The Committee noted that the proposed block falls within Survey of India Toposheet No. 72D/16 and is predominantly underlain by migmatitic gneiss, amphibolite, K-feldspar granite, pegmatite, ultramafics, meta-dolerite/meta-gabbro, dolerite and phyllonite of the Chhotanagpur Granite Gneissic Complex (CGC), along with Gondwana sediments.
- The Committee noted that NGPM and NGCM investigations in Toposheet No. 72D/16 have indicated favourable geophysical and geochemical signatures, including low magnetic lineaments, anomalous Ce, Ba and La values, and maximum REE values up to 1773 ppm within the proposed area.
- The Committee further noted that GSI's Specialized Thematic Mapping carried out during FS: 2022–24 in and around Hosir Konchi–Jaled area reported encouraging TiO₂ values of 0.41–3.51% in magnetic dolerite, Cu values up to 425 ppm, and total REE values ranging from 488 to 2113 ppm in bedrock samples.
- In view of the geophysical, geochemical and thematic mapping results, the agency proposed G4-stage exploration for TiO₂, Cu, REE and associated mineralisation, comprising detailed geological mapping, surface geochemical sampling, pitting/trenching and exploratory drilling with sampling for assessment under the UNFC G4 category.

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- e. The Committee reviewed the proposal and advised the agency to undertake a field visit to delineate the control of mineralisation and assess the disposition and continuity of the mineralised bands, including whether the reported values represent primary mineralisation or secondary enrichment.
- f. The Committee further advised the agency to collect representative samples from the mineralised zones and obtain analytical results.
- g. If the analytical results indicate encouraging mineral potential, the agency may submit the DPR for further consideration.

Sl. No.	Agency	Brief Comments
1	GSI	GSI Ranchi conducted Specialized Thematic Mapping of Chhotanagpur Granite Gneissic Complex in and around Hosir-Konchi-Jaled area (Heastu Belbathan Polymetallic belt) in parts of Chatra, Latehar and Palamau districts, Jharkhand (Toposheet Nos. 72D/12 & 16) during the field seasons 2022-24. GSI plans to advance this item to G4-stage investigation in the upcoming field seasons. Since the foundational work was executed by GSI, it is mandatory for GSI to conduct the G4 investigation. Consequently, this area cannot be spared for any other agency.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	Awaited
4	State DMG/DGM/CGM	Awaited
5	NMEDT	The proposed block does not overlap with NMEDT funded block. Proposed block falls in Recorded Forest Area (approx 68% of total area), overlap with ESZ (approx 1% of total area) and Protected Area (Wild life sanctuary (approx 0.6% of total area)).

Recommendations of TCC-1:

The Committee approved the proposal in principle and advised the agency to undertake a field visit, delineate the control and nature of mineralisation, collect representative samples and obtain analytical results. If the results are encouraging, the agency may submit the DPR within 3 months for further consideration.

Agenda 104.2.15. Reconnaissance survey (G4) for Vanadium, Scandium and Titanium bearing Aluminous Laterite of Ghodepalli area, Bidar District, Karnataka (Area: 39 sq. km)

(Proposal ID: ME/IN/G4/KA/P/26-27/232)

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

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- a. The Committee observed that the agency currently has no manpower available for execution of the proposed work. Accordingly, the proposal was not discussed and may be taken up for consideration once the agency has adequate manpower in place.

Sl. No.	Agency	Brief Comments
1	GSI	Enrichment of V (89–4280 ppm, average 897.81 ppm) and Sc (4–104 ppm with an average of 42.90 ppm) have been noticed in the bed rock samples. The exploration carried out in adjacent areas of the proposed block shows that the area may be feasible for further exploration.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks 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	Buffer zone of the proposed block is overlapped with the GSI Block FS_2024-2025 (Reconnaissance survey for aluminous laterite in Naimatabad areas of Sangareddy District, Telangana). The proposed block does not overlap with NMEDT funded block. Proposed block (15.4%) falls in Recorded Forest Area.

Recommendations of TCC-1:

The proposal was deferred as the agency does not have adequate manpower to undertake the proposed exploration work.

**Agenda 104.2.16. Reconnaissance survey (G4) for Graphite, Vanadium, Barium and associated mineral in Kanra-Udiyari area, Almora District, Uttarakhand (Area: 50 sq. km)
(Proposal ID: ME/IN/G4/UK/P/26-27/180)**

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

- The proposed block falls within Survey of India Toposheet No. 53O/15 and is predominantly underlain by phyllite, carbonaceous phyllite and quartzite of the Gumalikheth Formation of the Almora Group, with limited exposure of Proterozoic Champawat Granite.
- The Committee noted that GSI's G4-stage reconnaissance survey for vanadium and allied metals during FS: 2024–25 reported V values ranging from 10 to 4,260 ppm, with 11 samples recording 2,000–3,000 ppm and 18 samples recording 1,000–2,000 ppm. Barium values were also anomalous, reaching up to 28,529 ppm.
- The agency informed that six representative bedrock samples collected during the field visit yielded V₂O₅ values of 0.03–0.37% (168–2073 ppm V), BaO values of 0.03–2.80% (269–25,077 ppm Ba), and fixed carbon values of 2.64–9.03%.

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- d. In view of the encouraging analytical results and the presence of carbonaceous horizons, the agency proposed G4-stage exploration for graphite, vanadium and barium, comprising large-scale geological mapping, surface geochemical sampling, pitting/trenching and exploratory drilling with sampling under the UNFC G4 category.
- e. The Committee reviewed the proposal and advised the agency to undertake a field visit and collect representative samples across the strike, from north to south, particularly from the carbonaceous phyllite horizons, as the samples collected earlier were predominantly from the graphite-bearing horizon.
- f. The Committee advised the agency to obtain analytical results of the additional samples to strengthen the database and establish the authenticity and potential of the proposal.
- g. The agency may submit the DPR for further consideration.

Sl. No.	Agency	Brief Comments
1	GSI	At present, two G3 stage of investigation is taken up by SU: UK, GSI for FS-2026- 27 in the eastern and south eastern part of the proposed block. However, the block under study does not overlaps with the proposed exploration block of NPEAs.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	No overlap. No CL, ML etc present in the area.
5	NMEDT	The proposed block does not overlap with NMEDT funded block. Proposed block falls in Recorded Forest Area.

Recommendations of TCC-1:

The Committee approved the proposal in principle and the agency may submit the DPR within 3 months for further consideration.

**Agenda 104.2.17. Reconnaissance Survey (G4 Stage) for REE and associated minerals in Wadagera block in Yadgir district, Karnataka
(Proposal ID: ME/IN/G4/KA/P/26-27/237)**

[Implementing Agency: M/s CMT]

- a. The Committee noted that the proposed block falls within Survey of India Toposheet No. 56H/02 and is predominantly underlain by granites and gneisses of the Peninsular Gneissic Complex (PGC-II) and Closepet Granite, with enclaves of supracrustal rocks of the Dharwar Supergroup, represented by amphibolite and banded iron formation (BIF), among others.
- b. The Committee noted that geochemical mapping carried out by Chandrashekhar and Sampath Krishna (2000) in Toposheet No. 56H/02 reported significant TREE values in stream sediment samples, reaching up to 3032 ppm, along with anomalous Zr (196.41–3032.90 ppm) and Hf (75.65–227.59 ppm) values.
- c. In view of the reported REE and associated element anomalies, the agency proposed G4-stage exploration for REE and associated minerals, comprising large-scale geological

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- mapping, surface geochemical sampling, pitting/trenching and exploratory drilling with sampling for assessment under the UNFC G4 category.
- The Committee reviewed the proposal and observed that the proposal is primarily supported by limited anomalous NGCM values, with no additional field or analytical data.
 - The Committee advised the agency to consult the available reports, undertake a field visit, collect and analyse representative samples, and strengthen the proposal with additional supporting data.
 - The Committee further advised the agency to prepare NGCM and tREE anomaly maps and superimpose the tREE anomaly map on the geological map. The anomalous locales may be prioritised for bedrock sample (BRS) collection.
 - The Committee accorded in-principle approval and advised the agency to submit the DPR after incorporating the above observations and recommendations.

Sl. No.	Agency	Brief Comments
1	GSI	The exploration carried out in adjacent areas of the proposed block is mainly for diamond and no such exploration was carried out for REEs. The area may be feasible for further exploration considering the rocks present in the block.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	Awaited
4	State DMG/DGM/CGM	Awaited
5	NMEDT	The proposed block does not overlap with NMEDT funded block. Proposed block does not fall in Recorded Forest Area.

Recommendations of TCC-1:

The Committee accorded in-principle approval and advised the agency to submit the DPR after incorporating the above observations and recommendations. The agency may submit DPR within 3 months.

Agenda 104.2.18. Reconnaissance Survey (G4) for Graphite and associated mineralisation in Dharakhoh area, Betul District Madhya Pradesh (Area: 8.38 sq. km)

(Proposal ID: ME/IN/G4/MP/P/26-27/204)

[Implementing Agency: M/s Vardan Environet LLP]

- The Committee noted that the proposed block falls within Survey of India Toposheet No. 55G/13, forms part of the Betul Belt, and is predominantly composed of volcano-sedimentary rocks intruded by mafic-ultramafic and granitic suites of rocks.
- The Committee noted that, as per GSI's comments, approximately 65% of the proposed block overlaps with an area already explored by GSI at the G4 stage.

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- c. The Committee further noted that AMD, in its comments, has reported the occurrence of uranium in the proposed block and advised that, in view of the known uranium potential, the area may not be considered for exploration under the present proposal.
- d. In view of the comments received from GSI and AMD, the Committee did not approve the proposal.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed investigation area has approximately 65% overlap with the pre-explored area covered under the project "Investigation for Graphite in Tikari, Gauthana, Chiklar and Surrounding areas, Betul District, M.P. (FS 2012-13)." The earlier block was explored at the G4 level, and the proposed block has also been taken up for G4-level exploration. Therefore, the overlapping status and the possibility of duplication should be carefully considered before taking up the area for further exploration.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	AMD is carrying out detailed radiometric survey in and around the proposed block and delineated surface radioactive zones (500m x 3m). In view of the known potential for uranium in and around the proposed block and future follow up exploration by AMD, the proposed block is not recommended .
4	State DMG/DGM/CGM	Awaited
5	NMEDT	There is no overlapping with NMEDT funded block in the proposed area. However, there is overlapping with the buffer zone of NMEDT funded project. AB LDNE and Auction lease are present near the proposed block, at a distance of 0.5 km. There are two auctionable G2 blocks for graphite and associated mineralization near the proposed area, within 0.5 km. The proposed area is 1.1 km away from the tiger corridor (Pench-Satpura). The proposed area contains recorded forest area.

Recommendations of TCC-1:

The Committee did not approve the proposal in view of the substantial overlap (approximately 65%) with the GSI G4-explored area and the reported uranium potential of the block, as highlighted by GSI and AMD.

Agenda 104.2.19. Preliminary exploration (G3) for Bauxite, Aluminous Laterite & associated minerals in Dadargaon East Block, Dindori District, Madhya Pradesh.

(Proposal ID: ME/IN/G3/MP/P/26-27/191)

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[Implementing Agency: PRB Infraprojects Pvt. Ltd.]

- a. The Committee noted that the proposed block falls within Survey of India Toposheet No. 64F/10 and is predominantly underlain by pisolitic, vermicular and massive bauxite/aluminous laterite, capped by lateritic cover.
- b. The Committee noted that GSI had carried out G4-stage reconnaissance exploration for bauxite and aluminous laterite mineralisation around Dadargaon and Chauradadar areas, Dindori District, Madhya Pradesh, during FS: 2023–24.
- c. The Committee noted that the bedrock samples collected by GSI from bauxite and aluminous laterite reported Al_2O_3 values of 25.95–62.57%, SiO_2 of 0.23–21.59%, Fe_2O_3 of 2.46–44.46% and TiO_2 of 1.82–14.59%. V values ranged from 96.56 to 2410 ppm, while Ga values ranged from 9.69 to 166.98 ppm.
- d. In view of the reported analytical results, the agency proposed G3-stage exploration for bauxite, aluminous laterite and associated minerals, comprising detailed geological mapping, surface geochemical sampling, pitting/trenching and exploratory drilling with sampling for assessment of mineral resources under the UNFC G3 category.
- e. The committee reviewed the proposal and observed that GSI have stated that they have undertaken two G3 project in nearby area, however, due to law and order issues in the area, both exploration projects have been placed in abeyance until further notice. In view of the law and order issues that have hindered the exploration in the adjacent blocks, this proposed block may be considered for further exploration subjected to the prevailing law and order issues.
- f. The Committee reviewed the proposal and advised the agency to undertake a field visit, collect representative samples from the mineralised zones and obtain analytical results.
- g. If the analytical results indicate encouraging mineral potential, the agency may submit the DPR for further consideration.
- h. The agency was advised to consult the local authorities during the field visit to assess the prevailing law-and-order situation, as highlighted by GSI.
- i. The agency was further advised to maintain an appropriate buffer distance from the NMEDT project already accorded in-principle approval.
- j. The Committee accorded in-principle approval to the proposal, subject to the comments of the State DMG.

Sl. No.	Agency	Brief Comments
1	GSI	GSI has taken Exploration projects during FS 2023 -2024 based on the study area was feasible, later the Field Season (FS) 2025–26, two G-3 blocks were taken up for preliminary exploration: 1. Preliminary Exploration for Bauxite and Associated Mineralization in the West of Chauradadr Block, Dindori District, Madhya Pradesh 2. Preliminary Exploration for Bauxite and Associated Mineralization in the East of Chauradadr Block, Dindori District, Madhya Pradesh However, due to law and order issues in the area, both exploration projects have been placed in abeyance until further notice. In view of the law and order issues that have hindered the exploration in the adjacent blocks, this

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		proposed block may be considered for further exploration subjected to the prevailing law and order issues.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	There is no ongoing exploration / reconnaissance project. However The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	Awaited
5	NMEDT	Buffer zone of the proposed block is overlapping with the M/s Vibrant Techno Lab Private Limited. RFA (100%) is present in the proposed area as per PM Gati Shakti portal. Proposed block is not overlapping with any NMEDT funded projects as per NGDR Portal.

Recommendations of TCC-1:

The Committee accorded in-principle approval to the proposal, subject to the comments of the State DMG, and advised the agency to undertake a field visit, collect representative samples, assess the local law-and-order situation.

The agency may submit DPR within 3 months.

Agenda 104.2.20. Preliminary exploration (G3) for Bauxite, Aluminous Laterite & Associated Minerals in Chaura Dadar Block, Dindori District, Madhya Pradesh.

(Proposal ID: ME/IN/G3/MP/P/26-27/192)

[Implementing Agency: PRB Infraprojects Pvt. Ltd.]

- The Committee noted that the proposed block falls within Survey of India Toposheet No. 64F/10 and is predominantly underlain by pisolitic, vermicular and massive bauxite/aluminous laterite capped by lateritic cover.
- The Committee noted that GSI had carried out G4-stage reconnaissance exploration for bauxite and aluminous laterite mineralisation around Dadargaon and Chauradadar areas, Dindori District, Madhya Pradesh, during FS: 2023–24.
- The Committee noted that the bedrock samples collected from bauxite and aluminous laterite reported Al_2O_3 values ranging from 25.95% to 62.57%, SiO_2 from 0.23% to 21.59%, $\text{Fe}_2\text{O}_3\text{T}$ from 2.46% to 44.46% and TiO_2 from 1.82% to 14.59%. V values ranged from 96.56 to 2410 ppm, while Ga values ranged from 9.69 to 166.98 ppm.
- In view of the reported analytical results, the agency proposed G3-stage exploration for bauxite, aluminous laterite and associated minerals, comprising detailed geological mapping at 1:4,000 scale, surface geochemical sampling, pitting/trenching and exploratory drilling with sampling for assessment of mineral resources under the UNFC G3 category.
- The committee reviewed the proposal and observed that GSI have stated that they have undertaken two G3 project in nearby area, however, due to law and order issues in the area, both exploration projects have been placed in abeyance until further notice. In view of the law and order issues that have hindered the exploration in the adjacent blocks, this

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proposed block may be considered for further exploration subjected to the prevailing law and order issues.

- f. The Committee reviewed the proposal and advised the agency to undertake a field visit, collect representative samples from the mineralised zones and obtain analytical results.
- g. If the analytical results indicate encouraging mineral potential, the agency may submit the DPR for further consideration.
- h. The agency was advised to consult the local authorities during the field visit to assess the prevailing law-and-order situation, as highlighted by GSI.
- i. The agency was further advised to maintain an appropriate buffer distance from the NMEDT project already accorded in-principle approval.
- j. The Committee accorded in-principle approval to the proposal, subject to the comments of the State DMG.

Sl. No.	Agency	Brief Comments
1	GSI	GSI has taken Exploration projects during FS 2023 -2024 based on the study area was feasible, later the Field Season (FS) 2025–26, two G-3 blocks were taken up for preliminary exploration: 1. Preliminary Exploration for Bauxite and Associated Mineralization in the West of Chauradadr Block, Dindori District, Madhya Pradesh 2. Preliminary Exploration for Bauxite and Associated Mineralization in the East of Chauradadr Block, Dindori District, Madhya Pradesh However, due to law and order issues in the area, both exploration projects have been placed in abeyance until further notice.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	There is no ongoing exploration / reconnaissance project. However The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	Awaited
5	NMEDT	Buffer zone of the proposed block is overlapping with the M/s Vibrant Techno Lab Private Limited. RFA (100%), Tiger Corridor is present in the buffer zone proposed area as per PM Gati Shakti portal. Proposed block is not overlapping with any NMEDT funded projects as per NGDR Portal.

Recommendations of TCC-1:

The Committee accorded in-principle approval to the proposal, subject to the comments of the State DMG, and advised the agency to undertake a field visit, collect representative samples, assess the local law-and-order situation.

The agency may submit DPR within 3 months.

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Agenda 104.2.21. Preliminary Exploration (G-3 Stage) for Graphite, Vanadium and associated minerals around Amba Maseena- Doomara village, District Ajmer, Rajasthan

(Proposal ID: ME/IN/G3/RJ/P/26-27/231)

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

- The proposed block falls within Survey of India Toposheet No. 45J/11 and is underlain by calc-gneiss, graphite schist, impure marble, quartzite, granitoids and amphibolites of the Delhi Supergroup.
- The Committee noted that the proposed area falls within the FSI Aravalli Zone as well as the jurisdictional periphery of the Ajmer Development Authority. In view of the comments of DGM, Rajasthan, the Committee did not consider the proposal and rejected it.

Sl. No.	Agency	Brief Comments
1	GSI	Previous G4-stage exploration in the Bhaonta-Amba and Dumra area, Ajmer District indicates favourable potential for Graphite, Vanadium and associated minerals.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	DMGR has conducted exploration activities for said mineral, and area is found feasible for exploration. Most area of this proposal area falls in Aravali, Forest and ADA periphery.
5	NMEDT	Proposed area overlaps with GSI 2023-24 ongoing project (Reconnaissance survey for graphite and associated mineralization in Bhaonta-Amba and Dumra area, Ajmer District, Rajasthan.) The proposed block does not overlap with NMEDT funded block. Proposed block (app. 63.87%) falls in Recorded Forest Area.

Recommendations of TCC-1:

The Committee did not recommend the proposal in view of the comments of DGM, Rajasthan, as the proposed area falls within the FSI Aravalli Zone and the periphery of the Ajmer Development Authority.

Agenda 104.2.22. Preliminary Exploration (G-3) for REE, RM and Associated mineralization around Ankampalem- Mulagalampalli, District Eluru, Andhra Pradesh

(Proposal ID: ME/IN/G3/AP/P/26-27/225)

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

- The Committee noted that the proposed block falls within Survey of India Toposheet No. 65G/04 and forms part of the Chintalapudi Sub-basin of the Pranhita-Godavari Basin. The area is predominantly underlain by Gondwana sandstones of the Kota and Kamthi

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Formations, along with Khondalite Group garnet–sillimanite gneiss of the Eastern Ghats Mobile Belt (EGMB).

- b. The Committee noted that earlier geochemical studies and NGCM investigations have reported significant REE concentrations in the area. NGCM data from Toposheet No. 65G/04 recorded total REE values of 118–1904 ppm, with 36 stream sediment samples reporting values above 1000 ppm and eight samples above 1500 ppm.
- c. The Committee further noted that GSI's G4-stage reconnaissance survey for REE in the Mulagalampalli area during FS: 2023–24 reported Σ REE values of 105–1681 ppm in BRS, 290–1797 ppm in stream sediment samples, 284–3665 ppm in soil samples and up to 1677 ppm in pitting samples.
- d. In view of the encouraging REE anomalies, the agency proposed G3-stage exploration for REE, RM and associated mineralisation, comprising detailed geological mapping at 1:2000 scale, surface geochemical sampling, pitting/trenching and exploratory drilling with sampling for assessment of mineral resources under the UNFC G3 category.
- e. The Committee reviewed the proposal and noted that the proposed block completely overlaps with the Geological Memorandum (GM) submitted by GSI, State Unit: Andhra Pradesh, to NMH-II, GSI, which is presently under scrutiny.
- f. The Committee advised NMEDT to correspond with NMH-II regarding the current status of the GM block and ascertain whether the block has been handed over for inclusion in any tranche of auction.
- g. The Committee deferred the proposal pending clarification regarding the status of the GM block.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed NPEA block fully overlaps with the Geological Memorandum block already submitted by the State Unit to National Mission-II for the same commodity in December 2025 and is currently under scrutiny. Therefore, the proposed NPEA block may not be considered feasible.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks 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	Proposed area overlaps with GSI 2023-24 ongoing project (Reconnaissance survey for REE in Mulagalampalli area, Eluru District, Andhra Pradesh). The proposed block does not overlap with NMEDT funded block. The proposed area does not contain recorded forest area.

Recommendations of TCC-1:

The Committee deferred the proposal as the proposed block completely overlaps with a GSI Geological Memorandum (GM) block currently under scrutiny. The status of the GM block, including its possible inclusion in an auction tranche, may be clarified from NMH-II before further consideration of the proposal.

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Agenda 104.2.23. Preliminary Exploration (G3) for Manganese & associated mineralization in manganiferous phyllite band around Kushalpura Area, Banswara-Garhi Tehsils, Banswara - Districts, Rajasthan (Proposal ID: ME/IN/G3/RJ/P/26-27/234)

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

- a. The Committee noted that the proposed block falls within Survey of India Toposheet No. 46I/06 and is predominantly underlain by marble, impure marble, manganiferous phyllite and dolomite of the Kalinjara Formation, along with schist, quartzite and conglomerate of the Banswara Formation of the Proterozoic Aravalli Supergroup.
- b. The Committee noted that GSI's G4-stage reconnaissance surveys during FS: 2023–24 and 2024–25 identified prospective manganese zones in the surrounding areas, including the Patiya Kodar area and the Parahera and Sakriya areas. The Patiya Kodar block recorded an average MnO grade of 6.24%, with a maximum of 16.25%.
- c. The Committee further noted that bedrock samples recorded MnO values ranging from 0.60% to 36.49%, with an average of 15.72%, while channel samples recorded values ranging from 0.59% to 34.31%, with an average of 12.04%, indicating significant manganese enrichment.
- d. In view of the encouraging manganese values and identified prospective zones, the agency proposed G3-stage exploration for manganese and associated mineralisation, comprising detailed geological mapping at 1:5000 scale, surface geochemical sampling, pitting/trenching, ground geophysical surveys and exploratory drilling with sampling for assessment of mineral resources under the UNFC G3 category.
- e. The Committee reviewed the proposal and advised the agency to systematically delineate the Mn-rich zones. The Committee also observed that the proposed area is relatively large for G3-stage exploration.
- f. The Committee advised the agency to undertake a field visit, collect 15–16 representative samples from the prospective Mn-rich horizons and obtain analytical results to establish the continuity and potential of the manganese mineralisation.
- g. If the analytical results indicate encouraging mineral potential, the agency may submit the DPR for further consideration.
- h. The Committee accorded in-principle approval to the proposal, subject to the comments of the State DMG.

Sl. No.	Agency	Brief Comments
1	GSI	Previous G4-stage exploration in the Talwara–Kushalpura area, Banswara District indicates favourable potential for manganese & associated mineralization, however the total area (8 Sq km) is considered too large for G3 exploration work.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.

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4	State DMG/DGM/CGM	Awaited
5	NMEDT	Proposed area overlaps with GSI 2024-25 ongoing projects (Regional mineral targeting for phosphorite, manganese and associated minerals in the Jhamarkotra-Sallopat-Jhabua area, Udaipur, Dungarpur, Banswara districts, Rajasthan, Dahod district, Gujarat and Jhabua district Madhya Pradesh). The proposed block does not overlap with NMEDT funded block. Proposed block (app. 21.85%) falls in Recorded Forest Area. One of the mining leases is present adjacent to the proposed block for limestone.

Recommendations of TCC-1:

The Committee accorded in-principle approval to the proposal, subject to the comments of the State DMG, and advised the agency to undertake a field visit, delineate the Mn-rich horizons, collect representative samples and obtain analytical results to establish the continuity and potential of manganese mineralisation.

Agenda 104.2.24. Reconnaissance Survey (G-4 Stage) for Vanadium, Barium and associated minerals around Arnehar & Suhara, District Mandi, Himachal Pradesh.

(Proposal ID: ME/IN/G4/HP/P/26-27/206)

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

- The Committee noted that the proposed block falls within Survey of India Toposheet No. 53E/01 and is predominantly underlain by grey phyllite and carbonaceous phyllite of the Katarigali Formation.
- The Committee noted that the proposed area completely overlaps with a GSI block. Accordingly, the proposal was not considered for review and in-principle approval was not accorded.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed block has 100% overlap with the GSI-approved Item No. M2ASMF-MEP/ST/NC/NSU-PHP/2027/04395 "Reconnaissance survey for Vanadium and associated mineralization in Kataka-Bagiafera area, Kullu and Mandi Districts, Himachal Pradesh" for the same commodity.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	Awaited

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5	NMEDT	The proposed block is 0.6 km away from the protected area (wildlife sanctuary). ESZ and ESA is 893 m away from buffer boundary of the proposed block. Proposed block falls within Recorded Forest Area. The proposed block do not overlap with NMEDT funded block.
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Recommendations of TCC-1:

The Committee did not accord in-principle approval to the proposal as the proposed area completely overlaps with a GSI block.

Agenda 104.2.25. Preliminary Investigation (G3 Stage) for Lithium, REE and Associated Mineralization in Kilkila-Narayanpur block, Dist: Jashpur, Chhattisgarh (Proposal ID: ME/IN/G3/CT/P/26-27/223)

[Implementing Agency: APC Drilling & Constructions Pvt. Ltd.]

- c. The Committee noted that the proposed block falls within Survey of India Toposheet No. 64N/06 and is predominantly underlain by granite gneiss with inclusions of talc schist, chlorite schist, quartzite and amphibolite, intruded by younger quartz and pegmatite veins.
- d. The Committee noted that earlier NGCM investigations in Toposheet No. 64N/06 reported anomalous Li values of up to 266 ppm in stream sediment samples. GSI's subsequent G4-stage investigations during FS: 2022–23 identified Li-bearing pegmatite-aplite dykes containing polyolithionite, lepidolite and spodumene, with Li values of 2100–2400 ppm in bedrock samples and four prospective mineralised zones, with maximum Li of 3800 ppm.
- e. The Committee further noted that GSI's G4-stage investigations during FS: 2024–25 around Diwanpur, Kilkila and Bagburha reported significant Li enrichment in lepidolite-bearing zones, with Li values up to 11,100 ppm, along with associated Cs (up to 3621.46 ppm), Rb (up to 7238.96 ppm) and Ta (up to 234.89 ppm).
- f. In view of the encouraging lithium and associated rare-metal anomalies, the agency proposed G3-stage exploration for lithium, REE and associated mineralisation, comprising detailed geological mapping at 1:2,000 scale, surface geochemical sampling, pitting/trenching, ground geophysical surveys and exploratory drilling with sampling for assessment of mineral resources under the UNFC G3 category.
- g. The Committee reviewed the proposal and noted that approximately 60% of the proposed block overlaps with an ongoing GSI project, while the remaining area overlaps with a GSI block approved for FS: 2027–28.
- h. The Joint Director, DGM, Chhattisgarh informed the Committee that Jashpur is a disturbed area from the law-and-order perspective and that GSI is also facing difficulties in carrying out exploration in the area, for which administrative support from the State Government has been sought. He further informed that the State is also facing difficulties in auctioning mineral blocks in Jashpur. The DGM suggested that NPEAs willing to undertake exploration in Jashpur should obtain an NOC from the Deputy Collector, Jashpur, before submitting the proposal.
- i. After deliberation, the Committee observed that, in view of the substantial overlap with the ongoing GSI project, the proposal may not be accorded in-principle approval.

Sl. No.	Agency	Brief Comments
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1	GSI	Proposed block shows overlapping with Exploration block Following as: 100% overlap with GSI previous exploration work (Sl. No. 4 of FS 2024-25) Diwanpur-Kikila G4 Li-REE Block. 100% overlap with GSI ongoing exploration work (Sl. No. 5 of FS 2026-27) Kikila G3 Lithium Block. 58% overlap with GSI proposed exploration work (Sl. No. 6 for FS 2027-28)_Narayanpur G3 Lithium Block.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks 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	Proposed block partially overlaps with the GSI 2026-27 mission II exploring for G3 stage Li and associated minerals. The proposed block does not overlap with NMEDT funded block. Proposed block (app. 14.56%) falls in Recorded Forest Area.

Recommendations of TCC-1:

The Committee did not accord in-principle approval to the proposal as approximately 60% of the proposed block overlaps with an ongoing GSI project

Agenda 104.2.26. Preliminary Investigation (G3 Stage) for Lithium, REE and Associated Mineralization in Diwanpur -Tukupakhna block District: Jashpur, Chhattisgarh

(Proposal ID: ME/IN/G3/CT/P/26-27/219)

[Implementing Agency: APC Drilling & Constructions Pvt. Ltd.]

- The Committee noted that the proposed block falls within Survey of India Toposheet No. 64N/06 and is predominantly underlain by granite gneiss with inclusions of talc schist, chlorite schist, quartzite and amphibolite, intruded by younger quartz and pegmatite veins.
- The Committee noted that earlier NGCM and G4-stage investigations by GSI have reported significant lithium anomalies in the area, including Li values up to 266 ppm in stream sediment samples, 2100–2400 ppm in bedrock samples, and up to 3800 ppm in identified mineralised zones. The investigations also identified Li-bearing pegmatite-aplite dykes containing polyolithionite, lepidolite and spodumene.
- The Committee further noted that GSI's G4-stage investigation during FS: 2024–25 reported Li values up to 11,100 ppm in lepidolite-bearing zones near Kikila, along with associated Cs values up to 3621.46 ppm, Rb up to 7238.96 ppm and Ta up to 234.89 ppm.
- In view of the encouraging lithium and associated rare-metal anomalies, the agency proposed G3-stage exploration for lithium, REE and associated mineralisation, comprising detailed geological mapping at 1:2000 scale, surface geochemical sampling,

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pitting/trenching, ground geophysical surveys and exploratory drilling with sampling for assessment of mineral resources under the UNFC G3 category.

- e. The committee reviewed the proposal and agreed for in principle approval and suggested the agency to submit DPR.

Sl. No.	Agency	Brief Comments
1	GSI	Proposed block shows overlapping with Exploration blocks, Following as: 100% overlap with GSI previous exploration work (Sl. No. 6 of FS 2024-25) Chaurama- Khardhodi G4 Li-REE Block. 85% overlap with GSI previous exploration work (Sl. No. 1 of FS 1994-97)_Regional Search for Kimberlite block.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks 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	Proposed block overlaps with the GSI 2024-25 ongoing projects (Reconnaissance survey for lithium, REE and associated mineralization in Chaurama-Shekharpur area, Jashpur District, Chhattisgarh). The proposed block does not overlap with NMEDT funded block, however, NMEDT funded GSI block is adjacent to the proposed block. Proposed block does not falls in Recorded Forest Area.

Recommendations of TCC-1:

The committee accorded in principle approval and suggested the agency to submit DPR within 3 months.

Agenda 104.2.27. Reconnaissance survey (G4) for Aluminous laterite hosted critical mineral block in Bhadrapur Karaknali block, Karnataka

(Proposal ID: ME/IN/G4/KA/P/26-27/211)

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

- The Committee noted that the proposed block falls within Survey of India Toposheet No. 56G/06 and is predominantly underlain by basaltic rocks of the Deccan Trap, capped by ferruginous and aluminous laterites.
- The Committee noted that GSI's Critical Mineral Assessment Programme (CMAP) during FS: 2024–25 in the Vitalpur block, Bidar District, Karnataka, reported V values of 215–964 ppm in bedrock samples and 393–652 ppm in two scout boreholes. Scandium values were below 100 ppm in the bedrock and borehole samples.
- The Committee further noted that CMAP investigations in the Nirna block during FS: 2024–25 reported V values of 249–4154 ppm and Sc values of 21–384 ppm in bedrock

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- samples, along with anomalous Cr, Ni, Co, Cu, Y, Zr, Nb and TREE values. Two scout boreholes recorded V values up to 1600 ppm.
- In view of the reported enrichment of vanadium and associated critical minerals, the agency proposed G4-stage exploration for V, Sc, Ga, Ti, REE, Co, Ni, Cr, Cu and other associated critical minerals, comprising geological mapping at 1:12500 scale, surface geochemical sampling, pitting/trenching and exploratory drilling with sampling for assessment under the UNFC G4 category.
 - The TCC observed that CMAP is being carried out by GSI in nearby areas and encouraging values of V₂O₅ is reported.
 - The committee accorded in principle approval and suggested agency submit to DPR.

Sl. No.	Agency	Brief Comments
1	GSI	GSI, SU Karnataka has carried out Critical Mineral Assessment Programme (CMAP) investigations (2024 to 2026) in and around the proposed NPEA block in Karkanahalli, Vitalpur and Nirna blocks of Bidar district. Based on the reported anomalous values of V, Sc and associated critical minerals in bedrock and scout borehole samples. The exploration carried out in adjacent areas of the proposed block shows that the area may be feasible for exploration.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	There is no ongoing exploration / reconnaissance project. However the proposed block has no overlapping with the AMD's ongoing or completed projects
4	State DMG/DGM/CGM	Awaited
5	NMEDT	Proposed block do not overlap with NMEDT funded block, however Recorded Forest area constitutes approximately 24 % and Eco Sensitive Zone is 1.3 Km away from the proposed block.

Recommendations of TCC-1:

The committee accorded in principle approval and suggested the agency to submit DPR within 3 months.

**Agenda 104.2.28. Reconnaissance Survey of REE and RM in Mothi (59.20 sq. Km) Area, Part of Beawar & Bhilwara Dist, Rajasthan
(Proposal ID: ME/IN/G4/RJ/P/26-27/218)**

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

- The Committee noted that the proposed block falls within Survey of India Toposheet No. 45K/05 and comprises high-grade rocks of the Sandmata Complex, along with metasedimentary rocks and granitoids of the Mangalwar Complex.
- The committee observed that the proposed area substantially overlaps with FSI, Aravalli zone.

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c. The committee did not approve the proposal.

Sl. No.	Agency	Brief Comments
1	GSI	Two GSI investigations have been carried out in the vicinity/overlapping parts of the proposed block, namely: (i) G-4 stage reconnaissance for Cu-Pb-Zn-Bi-W mineralization in the Badnor area during FS 2016–17, and (ii) G-4 stage investigation for base-metal and gold mineralization in the Sandmata Complex during FS 2014–16. The studies involved geological mapping, geophysical surveys, geochemical sampling and pitting/trenching, and delineated significant Cu-Pb-Zn-Bi-W and Au anomalies/mineralization, indicating the mineral potential of the area. Previous G4-stage exploration in the Badnor area of Ajmer and Bhilwara districts indicates favorable potential for rare metal (RM) mineralization. However, the proposed block completely overlaps with existing GSI blocks.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	There is no ongoing exploration / reconnaissance project. However The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	130.7729 hectares area of this proposal area falls in Forest. This proposal area conflicts with 06 held mining leases having area 11.4009 hectares. 05.4492 hectares area of this proposal area falls in Aravali as per DMGR circular and 1165.3439 hectraes area of this proposal area falls in Aravali as per FSI report.
5	NMEDT	Few Minor mineral mining lease blocks completely overlap with the proposed area. RFA (2.1%) is present in the proposed area as per PM Gati Shakti portal. Proposed block is not overlapping with any NMEDT funded projects as per NGDR Portal.

Recommendations of TCC-1:

The Committee did not accord in-principle approval to the proposal as substantial part of the proposed block overlaps with FSI Aravalli polygon.

Agenda 104.2.29. Preliminary exploration (G3) of REE & Associated Mineralization West of Nakoda, Tehsil- Pachpadra, District - Balotra, Rajasthan (Area: 2.30 sq. km)

(Proposal ID: ME/IN/G3/RJ/P/26-27/188)

[Implementing Agency: M/s Vibrant Techno Lab Private Limited]

a. The committee opined that the proposed block lies in vicinity of the Siwana Ring Complex where NMEDT funded projects are presently ongoing.

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- b. The committee opined that since SRC projects are reviewed in Joint TCC the proposal may be discussed in upcoming Joint TCC meeting.

Sl. No.	Agency	Brief Comments
1	GSI	Based on previous G4 exploration work in Nakoda area (G4), the proposed area seems feasible for taking up REE, RM and associated elements.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	DMGR has not carried out exploration for mineral REE and Associated Mineralisation in this area. DMGR has not conducted any exploration activities for said mineral, thus, no comments from DMGR. This proposal area does not conflict with any mineral concessions and litigations.
5	NMEDT	The proposed block does not overlap with NMEDT funded block. The proposed block (66%) falls in Recorded Forest area.

Recommendations of TCC-1:

The committee deferred the proposal to upcoming Joint TCC meeting.

**Agenda 104.2.30. Preliminary Exploration (G3) for REE & associated Mineralization Southwest of Nakoda block, Tehsil-Pachpadra, District -Balotra, Rajasthan (Area- 3.51 Sq. Km).
(Proposal ID: ME/IN/G3/RJ/P/26-27/190)**

[Implementing Agency: M/s Vibrant Techno Lab Private Limited]

- a. The committee opined that the proposed block lies in vicinity of the Siwana Ring Complex where NMEDT funded projects are presently ongoing.
- b. The committee opined that since SRC projects are reviewed in Joint TCC the proposal may be discussed in upcoming Joint TCC meeting.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed area seems feasible for taking up REE, RM and Associated elements however, proposed block overlaps completely with Tapra-Keetpala exploration license block.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	DMGR has not carried out exploration for mineral REE and Associated Mineralisation in this area.

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		DMGR has not conducted any exploration activities for said mineral, thus, no comments from DMGR. This proposal area conflict with 01 held minor mineral mining lease having an area of 01 hectares.
5	NMEDT	The proposed block do not overlap with NMEDT funded block, however proposed block does not falls in Recorded Forest area.

Recommendations of TCC-1:

The committee deferred the proposal to upcoming Joint TCC meeting.

**Agenda 104.2.31. Preliminary Exploration (G3 Stage) of REE & associated Mineralization Southeast of Nakoda Block, Tehsil- Pachpadra, District - Balotra, Rajasthan (Area- 2.04 Sq. Km.)
(Proposal ID: ME/IN/G3/RJ/P/26-27/189)**

[Implementing Agency: M/s Vibrant Techno Lab Private Limited]

- The committee opined that the proposed block lies in vicinity of the Siwana Ring Complex where NMEDT funded projects are presently ongoing.
- The committee opined that since SRC projects are reviewed in Joint TCC the proposal may be discussed in upcoming Joint TCC meeting.

Sl. No.	Agency	Brief Comments
1	GSI	Based on previous G4 exploration work in Nakoda area (G4), the proposed area seems feasible for taking up REE, RM and associated elements.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	DMGR has not carried out exploration for mineral REE and Associated Mineralisation in this area. DMGR has not conducted any exploration activities for said mineral, thus, no comments from DMGR. This proposal area does not conflict with any other than conflicting with 12 held minor mineral mining leases/ LOI.
5	NMEDT	The proposed block do not overlap with NMEDT funded block, however proposed block does not falls in Recorded Forest area.

Recommendations of TCC-1:

The committee deferred the proposal to upcoming Joint TCC meeting.

104.3: Review of New Special Studies Project Proposal

Agenda 104.3.1. Assessment of Rare Earth and Critical Mineral Potential in Mine Overburden and Tailings through Advanced Geochemical Mapping.

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[Implementing Agency: CMDC]

- a. CMDC presented the proposal for assessing the presence and concentration of Rare Earth Elements (REEs) and other critical minerals in the overburden, tailings and waste generated from its bauxite and tin mining operations. The study aims to characterise these materials and generate a comprehensive database on the occurrence and distribution of REEs and critical minerals.
- b. The proposed duration of the study is 8 months, with a total estimated cost of ₹62,97,862/-, covering the detailed characterisation of 200 samples.
- c. The agency informed that sampling is proposed in the bauxite-bearing areas of Mainpat Plateau (Surguja district), Samripat Plateau (Balrampur district) and Bodai-Daldali (Kabirdham district), and in the tin mines of Dantewada district.
- d. The workflow comprises geochemical sampling and mapping, sample preparation and sieving, homogenization, characterization by XRF, ICP-OES and ICP-MS, cassiterite concentration, and preparation of the final report.
- e. The agency presented the earlier analytical results from the Mainpat bauxite blocks, indicating vanadium concentrations ranging from 666 to 1,737 ppm.
- f. It was informed that GSI has reported resources of 6.272 MT of vanadium @ 1,189.59 ppm and 5.032 MT of gallium @ 84.26 ppm in the Murtadand block.
- g. The agency also presented JNARDDC test results of CMDC tin slag, which indicated La: 2,199 ppm, Ce: 3,893 ppm, Nd: 1,362 ppm and Ta₂O₅: 10.48%.
- h. The Committee noted that the project is not proposed to be carried out by CMDC itself and that the work is proposed to be undertaken through JNARDDC.
- i. It was informed that DMG and IBM have carried out sampling in selected areas of the mines; however, no detailed study has been undertaken so far.
- j. The Committee observed that no work within the leasehold areas would be approved by the TCC.
- k. It was noted that the proposed characterization after cassiterite concentration would pertain only to the tin slag, for which AMD has indicated that sampling would not be permitted.
- l. On the query regarding the recovery of gallium and vanadium from red mud, JNARDDC informed that NALCO and Hindalco are setting up pilot plants; however, no recovery of gallium and vanadium from red mud has been achieved to date, despite their reported presence at about 100 mg/kg each.
- m. The Committee observed that the undertaking of such projects by CMDC or their assignment to IBM involves a broader institutional and policy consideration, particularly with regard to the respective roles and mandates of the agencies.
- n. Since IBM has already undertaken similar studies, the Committee opined that the proposal may be deferred until an appropriate decision is taken regarding the agency to undertake the proposed work.

Recommendations of TCC-1:

The Committee recommended that the proposal be deferred until an appropriate decision is taken regarding the agency to undertake the proposed work.

**Agenda 104.3.2. Beneficiation of Low-Grade Banded Magnetite Quartzite (BMQ)
Deposits of Chhattisgarh for Industrial Applications (Laboratory-**

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Scale Study)

[Implementing Agency: CMDC]

- a. CMDC presented the proposal for a laboratory-scale beneficiation study of low-grade BMQ deposits of Chhattisgarh, with a proposed duration of 6 months and an estimated cost of ₹31,22,756/-.
- b. The study proposes detailed characterization of BMQ ores, evaluation and optimization of suitable beneficiation techniques and process parameters, and development of a laboratory-scale beneficiation flowsheet for generating technical data for possible industrial-scale utilization.
- c. The agency informed that BMQ comprises alternating bands of magnetite and quartz, typically containing 25–45% Fe with high silica, and is therefore unsuitable for direct use in blast furnaces.
- d. It was further informed that, in view of the depletion of high-grade iron ore resources, beneficiation of BMQ to produce concentrates suitable for pelletization has assumed strategic importance.
- e. The agency informed that approximately 500 kg of representative bulk samples would be collected in coordination with CMDC/DGM.
- f. The proposed work plan includes sample preparation and detailed characterization through chemical analysis, XRD, ore microscopy and SEM.
- g. The beneficiation programme would comprise size analysis, Davis Tube Magnetic Separation (DTMS), WHIMS, gravity concentration and flotation, followed by optimization of process parameters.
- h. The agency also presented assays of BMQ samples from the Aridongari Iron Ore Mine, Kanker district, indicating Fe of 14.5–34.7% and SiO₂ of 32.6–48.3%, with the study culminating in flowsheet development and reporting.
- i. The Committee observed that the undertaking of such projects by CMDC or their assignment to IBM involves a broader institutional and policy consideration, particularly with regard to the respective roles and mandates of the agencies.
- j. Since IBM has already undertaken similar studies, the Committee opined that the proposal may be deferred until an appropriate decision is taken regarding the agency to undertake the proposed work.

Recommendations of TCC-1:

The Committee recommended that the proposal be deferred until an appropriate decision is taken regarding the agency to undertake the proposed work.

104.4: Review of Ongoing Procurement Proposal

Agenda 104.4.1. Financial assistance from NMET funds to procure machinery/ laboratory equipment/instruments etc. aimed at enhancing the exploration activities.

[Implementing Agency: DGM Jharkhand]

- a. The committee was informed that the project was approved in the 28th EC Meeting held on 16th March, 2023. The Sanction Order was issued on 18th August, 2023 with timeline of 12 months (i.e up to 17.08.2024) and approved cost was INR 5,27,90,000/-.

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- b. DGM Jharkhand informed that, out of total disbursed amount of Rs. 2,11,16,000/- only, an amount of Rs. 3,32,000/- only was spent towards procurement of Geological Hammers and Brunton Compass.
- c. Further, DMG informed that, a fresh proposal for procurement of Equipment/Instruments (which could not be procured due to various reasons), duly assessing the prevailing market price of the equipment, will be submitted by DMG, Jharkhand, in due course.
- d. The committee was apprised that procurement of ICP-MS is under process from the remaining fund of Rs. 2,07,84,000/- only. DMG presented the status of procurement tabulated as under:

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S. No.	Item	Qty.	Estimated Cost per unit (Rs.)	Total estimated cost (Rs.)	Revised Qty.	Total estimated cost (Rs.)	Remarks
1	Brunton Compass	20	10,000	2,00,000	20	2,00,000	Items delivered and utilization certificate submitted to NMEDT. 1. The tendering process was successfully completed by DMG, Jharkhand. 2. However, the items could not have supplied by the L1 bidder despite several communications made with the bidder. 3. Finally, all the work orders have been cancelled and action has been taken by the Directorate of Geology, Jharkhand against the L1 bidder.
2	Geological Hammer	20	10,000	2,00,000	20	2,00,000	
3	Digital Camera	10	90,000	9,00,000	0	0	
4	Hand held GPS	20	95,000	19,00,000	0	0	
5	Hydraulic Core Splitter	1	2,00,000	2,00,000	0	0	
6	Vibratory Cup Mill with accessories	1	6,00,000	6,00,000	0	0	
7	Press Palette machine	1	3,90,000	3,90,000	0	0	
8	Grinding and Polishing Machine and mounting unit	1	70,00,000	70,00,000	0	0	
9	Transmitted and Reflected light research Microscope with software attached camera	1	12,00,000	12,00,000	0	0	
10	Proximate Analyzer (TGA)	1	22,00,000	22,00,000	0	0	
11	ICP- MS	1	2,00,00,000	2,00,00,000	1	2,00,00,000	Work Order issued to L1 bidder on 28.07.2026.
12	WD-XRF	1	1,60,00,000	1,60,00,000	0	0	The tendering process was successfully completed by DMG, Jharkhand. However, the rate- Rs. 2,87,80,200/- quoted by the L1 Bidder was more than the amount Rs. 1.60 Cr. sanctioned by the NMEDT. Hence, the bid was cancelled.
13	Fusion Bead Machine	1	20,00,000	20,00,000	0	0	The tendering process was successfully completed by DMG, Jharkhand. However, the rate- Rs. 76 Lakhs quoted by the L1 Bidder was more than the amount- Rs. 20 Lakhs sanctioned by the NMEDT. Hence, the bid was cancelled.
Total amount				5,27,90,000		2,04,00,000	

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- e. DMG, Jharkhand requested to surrender the items mentioned in S. No. 3 to 10, 12 & 13 of the above table and requested for extension of timeline for procurement of ICP-MS (S. No. 11) upto 31.01.2027.
- f. The committee approved surrender of selected items, and the cost of project was accordingly revised.
- g. TCC also agreed to recommend timeline extension for procurement of ICP-MS (remaining item in procurement project) upto 31.01.2027 and suggested the agency to expedite the procurement process.

Recommendations of TCC-1:

The committee recommended revision of cost from INR 5,27,90,000 to INR 2,04,00,000 for approval of PSC, NMEDT.

The committee also recommended time line extension upto 31.01.2027 for approval of PSC of NMEDT for completion of procurement.

Agenda 104.4.2. Procurement of machinery/ laboratory equipment/instruments etc. aimed at enhancing the exploration activities.

[Implementing Agency: DGM Rajasthan]

- a. The project was approved in the 27th EC meeting held on 10th January 2023. The sanction order was issued on 24th March 2023 for a scheduled timeline of 12 months with an approved cost of ₹470.20/- lakh. The timeline was extended upto 30.09.2026 in 7th PSC meeting.
- b. The project timeline was subsequently extended up to 31.03.2025, 31.03.2026 and 30.09.2026 by the 35th EC, 2nd PSC, and 25th TCC-II/7th PSC, respectively.
- c. Procurement was delayed due to Government approvals, Model Code of Conduct during elections, and unsuccessful tendering. Additional approval of ₹2.80 crore from the NMEDT incentive fund for WD-XRF was granted on 24.02.2025.
- d. The agency has procured seven items at a total cost of ₹2.02 crore, including GIS software, digital cameras, Brunton compasses, geological hammers, handheld GPS, handheld XRF and ball mill.
- e. The agency informed that the UCs for the procured items have been submitted to NMEDT, and ₹2.69 crore remains to be utilised.
- f. The WD-XRF, core splitters, research polarising microscope and pulveriser could not be procured despite repeated tendering due to inadequate bids, bids exceeding ceiling prices and non-receipt of bids.
- g. The agency proposed revision of the specifications/quantities and prices of the remaining items and requested extension of the project timeline up to 31.03.2027.
- h. The agency informed that retendering of the remaining items would be undertaken after the Model Code of Conduct for the municipal corporation elections and sought approval for the revised procurement proposal and timeline extension.
- i. The committee reviewed the progress of procurement project and observed that the procurement is to be done as per approved specifications/quantities and there would be no deviation in approved specifications.
- j. The committee suggested DGM to submit the action plan for procurement of the remaining items to NMEDT.

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- k. The Committee advised the agency to expedite the financial and administrative approval and procurement process and recommended extension of the project timeline up to 31.03.2027.

Recommendations of TCC-1:

The Committee recommended time line extension upto 31.03.2027 for approval of PSC of NMEDT for completion of procurement.

Agenda 104.4.3. Financial assistance from NMET funds to procure machinery/ laboratory equipment/instruments etc. aimed at enhancing the exploration activities.

[Implementing Agency: DGM Rajasthan]

- a. The agency informed that the project was approved in the 35th EC meeting held on 29.05.2024 for FY 2024–25, for a period of 12 months up to 28.05.2025, at an approved cost of ₹13.85 crore for 25 items.
- b. Release of funds was subject to submission of the Utilisation Certificate for 80% of the funds released earlier for procurement of instruments under Project-1.
- c. Following a detailed departmental review, the agency retained only essential field and laboratory equipment and revised the procurement proposal to 16 items at a cost of ₹5.46 crore (₹546.86 lakh), including ICP-MS, AAS, rock cutting/polishing/mounting unit, pulveriser, handheld XRF, microscopes, DGPS, fire assay and other equipments. The project timeline was earlier extended up to 30.09.2026 by 7th PSC.
- d. The agency informed that a proposal seeking financial and administrative approval was submitted to the Government of Rajasthan on 24.07.2026 and that procurement would be initiated after receipt of the approval and completion of the municipal corporation and Panchayat elections in the State. The agency requested extension of the timeline up to 31.03.2027.
- e. The committee suggested DGM to submit the action plan for procurement of the remaining items to NMEDT.
- f. The Committee advised the agency to expedite the financial and administrative approval and procurement process and recommended extension of the project timeline up to 31.03.2027.

Recommendations of TCC-1:

The Committee recommended time line extension upto 31.03.2027 for approval of PSC of NMEDT for completion of procurement.

104.5: Review of Ongoing Project

Agenda 104.5.1. Preliminary Exploration (G3) for Gold in Kanivihalli Block, Davangere District, Karnataka State.

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

- a. Geovale Services Pvt. Ltd. informed that the project was approved in the 5th PSC Meeting held on 9th February, 2026. The Sanction Order was issued on 6th March, 2026 with timeline of 6 months (up to 05.09.2026) for first phase of work and approved cost was INR 1,92,28,450/-.

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- b. The agency informed that, under Phase-I, traverse mapping has been completed over 24 sq. km, and BR sampling and analysis of 100 samples have been completed, with the highest Au value of 138 ppb.
- c. The agency further informed that the prospective area has been identified, and trench locations, geophysical traverse lines and three tentative borehole locations have been demarcated.
- d. The agency informed that the forest permission, applied for on 14.05.2026, was received on 28.08.2026, and consequently, no field work could be undertaken from May 2026 onwards pending the clearance. Under Phase-II, trenching has been initiated and is about 50% complete, while the resistivity survey is in progress.
- e. The agency requested an extension of the project timeline up to January 2027.
- f. The agency requested to drop the IP survey (2-line km), as the block comprises thick/bushy forest and permission for tree/bush cutting has not been granted. The request was not approved at this stage.
- g. The agency requested the change of the title of the project from Davangere district to Vijayanagara (erstwhile Davangere) district, as the area now falls in that district.
- h. The Committee recommended an extension of the timeline up to 31.12.2026 for the Phase-I and Phase-II activities.
- i. The Committee recommended the change of the title of the project in respect of the district name.

Recommendations of TCC-1:

The Committee recommended an extension of timeline up to 31.12.2026 for approval of PSC of NMEDT. Timeline is extended for completion of the Phase-I and Phase-II activities.

The Committee also recommended revision of the project title “Preliminary Exploration (G3) for Gold in Kanivihalli Block, Davangere District, Karnataka State” to “Preliminary Exploration (G3) for Gold in Kanivihalli Block, Vijayanagara District, Karnataka State”.

Agenda 104.5.2. Reconnaissance survey (G4) for Basemetal in Chupra-Khet, Kuta area, Pithoragarh District, Uttarakhand.

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

- a. Geovale Services Pvt. Ltd. informed that the project was approved in the 41st EC Meeting held on 11th March, 2025. The Sanction Order was issued on 26th May, 2025 with timeline of 14 months (up to 25.07.2026) and approved cost was INR 4,90,67,210/-. Timeline was extended upto 30.11.2026 during 7th PSC meeting.
- b. The agency informed that geological mapping (66 sq. km at 1:12,500 scale), bedrock and stream sediment sampling (100 samples each) with analysis, pitting (150.52 cu. m), shallow electrical resistivity survey (10.2-line km), and petrographic studies have been completed.
- c. Against the approved drilling of 500 m, 225 m has been completed, and analysis of borehole samples is in progress.
- d. The agency informed that the area comprises metamorphosed limestone, phyllite and carbonaceous phyllite, along with Toli granite, and that polymetallic bands have been delineated.

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- e. Significant mineralisation was reported, with Pb up to 65.3%, Zn up to 5% and As up to 1,079 ppm in limestone, Zn of about 9–10% in the Kuta polymetallic bands, and Cu up to 12,297 ppm in the western part.
- f. Four boreholes were proposed. BH-01 has been completed to 94 m and was drilled vertically owing to the very low dip of the mineralised zone.
- g. BH-02, inclined at 45° with 156 m proposed depth, is in progress and is intersecting the polymetallic bands, while BH-04, located in the forest area, has been dropped by the agency.
- h. The agency requested approval for 500 m of drilling in four boreholes instead of three, along with 100 additional ICP-MS analyses (200 in total), 10 gold analyses of borehole samples, and one additional month of accommodation charges for the drilling camp.
- i. The Committee observed that channel sampling had not been carried out at the borehole locations and asked the agency to indicate the expected depth of intersection of the mineralised zone, which was stated to be approximately 70 m.
- j. The Committee further observed that the mineralised bands are only about 3–5 cm thick, while the limestone band is approximately 15 cm thick.
- k. The Committee advised the agency to stop drilling of BH-02 and close the borehole, and directed that the third borehole should not be drilled.
- l. The Committee advised that BH-05 and BH-06 be drilled to about 75 m each (total 150 m), targeting a vertical depth of approximately 50 m to intersect the anomalous zone.
- m. The Committee advised the GSI State Unit officers to visit the area and examine the geological and borehole cross-sections. The agency was further advised to consult the GSI team regarding the borehole locations before commencing the next borehole.

Recommendations of TCC-1:

The Committee advised the agency to stop drilling of BH-02 and close the borehole, and not to undertake the third borehole. The Committee further advised drilling of BH-05 and BH-06 to about 75 m each (total 150 m), targeting the anomalous zone at a vertical depth of approximately 50 m.

**Agenda 104.5.3. Reconnaissance Survey (G4) for Gold in Yediyur area, Yediyur - Karighatta schist belt, Mandya district, Karnataka
[Implementing Agency: KIOCL]**

- a. KIOCL informed that the project was approved in the 33rd EC Meeting held on 19th February, 2024. The Sanction Order was issued on 28th February, 2024 with timeline of 10 months (up to 27.12.2024) and approved cost was INR 1,29,58,413/-. The timeline was extended upto 31.10.2026 during 11th PSC meeting.
- b. The agency informed that large-scale geological mapping (50 sq. km), trenching (100 cu. m), and core drilling of 500 m in five boreholes (YBH-01 to YBH-05) have been completed. ICP-MS analysis and petrological studies are under progress.
- c. Four mineralised zones (Zone-I to Zone-IV) have been identified, with anomalous gold values. Pyrite, chalcopyrite, pyrrhotite and arsenopyrite occur along foliations and fractures.
- d. Gold values of up to approximately 1.2 g/t have been recorded, and seven mineralised zones were identified in YBH-03, for which a total of 117 m of core was sampled.

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- e. The surface channel samples recorded average values of 0.58 g/t Au over 3 m along the YBH-01 section and 0.41 g/t Au over 3 m along the YBH-02 section.
- f. Bedrock samples along the YBH-03 section recorded 0.18–0.21 g/t Au over 2 m, while YBH-01 intersected 0.24 g/t Au over 1 m in sheared BIF and YBH-02 recorded values up to 0.28 g/t Au.
- g. YBH-03 intersected seven thin mineralised zones with 0.17–1.71 g/t Au, including notable intersections of 1.00 m @ 1.71 g/t Au, 1.50 m @ 1.20 g/t Au, 0.50 m @ 0.72 g/t Au and 1.00 m @ 0.46 g/t Au, hosted in sheared carbonaceous phyllite and BIF with quartz-carbonate veins and sulphides.
- h. The agency informed that the analytical results of the high-sulphidic zones in YBH-02 to YBH-05 are awaited.
- i. Out of 234 samples, analytical results for 129 samples have been received, while Lot-4 comprising 85 samples is yet to be analysed. The agency informed that analysis of the shear-zone samples (280) and the pending 85 samples is required.
- j. The Committee noted the pending analytical work and the additional sample requirement and advised that the remaining samples be analysed and the complete analytical results be submitted for further assessment of the mineralisation.
- k. The committee recommended analysis of additional samples and timeline extension upto 30.11.2026.

Recommendations of TCC-1:

The committee recommended revision of cost of project from Rs. 129.17 lakhs to Rs. 133.43 lakh with a change in amount of (+) Rs 4.26 lakhs (~3.3% escalation), for approval of PSC, NMEDT as per Annexure 6.

The Committee recommended time line extension upto 30.11.2026 for approval of PSC of NMEDT for completion of work.

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Annexure 6

Revised Cost Estimate for Reconnaissance Survey (G4) for Gold in Yediyur area, Yediyur - Karighatta schist belt, Mandya district, Karnataka

Sl	Item of Work		Unit	Quantity approved by 60th TCC NMET					Additional quantities as per 104th TCC-NMET		Revised Total		
				SOC Item No	Rates as per NMET SoC 2020-21			Remarks	Qty	Amount (Rs)	Qty	Amount (Rs)	
					Qty	Rates as per SOC	Amount (Rs)						
(a)	(b)		(c)	(d)	(f)	(e)	(g)=(e)*(f)	(h)	(i)	(j)=(i)*(d)	(k)=(f)+(i)	(l)=(g)+(j)	
1	LARGE SCALE GEOLOGICAL MAPPING WORKS (1:12,500 scale :50sq km)												
1.1	Geologist Party days - Field		days	1.2	100.0	11,000	1,100,000	1,976,600			100.0	1,100,000	
1.2	Geologist Party days - HQ			1.2	30.0	9,000	270,000				30.0	270,000	
1.3	Labour charges		days	5.7	200.0	504	100,800				200.0	100,800	
2	TRENCHING WORKS												
2.1	Trenching works		cum	2.1.2	100.0	3,330	333,000				100.0	333,000	
3	SURVEY WORKS												
3.1	Fixation of borehole and determination of Co-ordinates and RL by DGPS		days	1.6.2	9.0	19,200	172,800				9.0	172,800	
4	DRILLING(out source After review)												
4.1	Surface Drilling (Hard rock)		m.	2.2.1.4a	500.0	11,500	5,750,000	5,750,000	Outsourcing components		500.0	5,750,000	
4.2	Core preservation		m	5.3	150.0	1,590	238,500	238,500			150.0	238,500	
5	LABORATORY STUDIES												
5.1	Sample processing works	Sampler charges	days	1.5.2	40.0	5,100	204,000	284,640	275 samples/7 samples per day	14	71,400	54.0	275,400
5.2		Labour charges	days	5.7	160.0	504	80,640		Amount will be reimbursed for unskilled labour as per the notified rates by the Central Labour Commissioner (Rs.431/- per day) or respective State Govt.	56	28,224	216.0	108,864

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									whichever is higher				
5.3	Sample analysis (34 elements by ICPMS)	Primary	per sample	4.1.14	50.0	7,731	386,550	1,143,965				50.0	386,550
5.4		External Check (10%)		4.1.14	5.0	7,731	38,655					5.0	38,655
5.5		Primary		4.1.5a	275.0	2,380	654,500			100	238,000	375.0	892,500
	Analysis of Au by Fire assay method	External Check (10%)			27.0	2,380	64,260					27.0	64,260
5.6	Petro studies	Preparation of Standard Thin section	nos	4.3.1	10.0	2,353	23,530	181,060				10.0	23,530
5.7		Complete Petrological Report of rock sample	nos	4.3.4	10.0	4,232	42,320					10.0	42,320
5.8		Preparation of Polished Section	nos	4.3.2	10.0	1,549	15,490					10.0	15,490
5.9		Study of polished section for mineragraphy	nos	4.3.4	10.0	4,232	42,320					10.0	42,320
5.10		EPMA	per hrs	4.4.1	5.0	8,540	42,700					5.0	42,700
5.11		SEM	hrs	4.4.2	5.0	2,940	14,700					5.0	14,700
6	Sub Total (1 to 5)						9,574,765	9,574,765			337,624	0.0	9,912,389
7	Peer review of report		lumpsum				30,000	30,000					30,000
8	Preparation of Exploration Project Proposal		lumpsum	5.1	5 Hard copies along with Soft copy	2% of approved project or 3.8 lakh which ever is lower	191,495	191,495	EA has to submit the Hard copies and the soft copy of the final proposal along with maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal.				198,248

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9	Exploration Report (5% of 6)		5.2(iii)	5 Hard copies along with Soft copy	For the projects having cost exceeding Rs 50 lakhs but less than Rs 150 lakhs : A Minimum of Rs.2.5 lakhs or 5% of the value of work whichever is more	478,738	478,738	EA has to submit the final Geological Report in Hard Copies (5 nos) and the soft copy to NMET.		0		495,619
10	Sub total (7 to 9)					700,233	700,233			-		723,867
11	Tendering process cost	One time	2.3		2% of approved project or 5 lakh which ever is lower	115,000	671,250			0		115,000
12	Reimbursement of cost incase outsourced components of project		6(ii)	5 Hard copies along with Soft copy	For the projects having cost exceeding Rs 50 lakhs but less than Rs 150 lakhs : A Minimum of Rs.2.5 lakhs or 5% of the value of work	556,250				0		556,250

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					whichever is more							
13	Total amount in Rs (11 to 12)					671,250	671,250	0	0	0		671,250
14	Sub Total (6+13)					10,946,248	10,946,248					11,307,506
15	GST 18%					1,970,325	1,970,325	GST will be reimbursed as per actual and as per notified prescribed rate				2,035,351
16	Grand Total (with GST 18%)					12,916,573	12,916,573					13,342,857
										Change in cost		426,284
Note :										3.3% escalation		
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.											
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.											
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and 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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Agenda 104.5.4. Reconnaissance Survey (G-4 Stage) of Graphite, Korapara East Block, Bankura District, West Bengal.

[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 1,25,16,544.43/-. The timeline was extended upto 09.06.2026 & 09.09.2026 during 6th & 9th PSC respectively. The cost was revised to INR 1,70,46,808/- during 6th PSC meeting.
- b. The agency informed that geological mapping of 37.41 sq. km at 1:12500 scale, SP survey of 12 line km, and bedrock sampling have been completed, with 107 samples collected against the planned 120 samples.
- c. Trenching of 157 cu. m against the planned 180 cu. m has been completed. Against the approved drilling quantum of 450 m, 240.60 m has been completed in three boreholes at Katiam village, viz. KEBH-01 (60 m), KEBH-02 (100 m) and KEBH-03 (80.6 m). Laboratory analyses are in progress.
- d. The agency informed that the boreholes intersected graphite-bearing zones of 15 m @ 2.45% FC in KEBH-01, 60 m @ 7.78% FC in KEBH-02, and 63 m @ 5.78% FC in KEBH-03.
- e. The agency informed that drilling of the fourth borehole (KEBH-04) has been stalled due to local resistance from the Joint Forest Management Committee (JFMC) of adjoining villages. Efforts to resolve the issue through negotiations with the assistance of forest officials were unsuccessful, and the drilling was subsequently stopped following intervention by the local police.
- f. The issue was also discussed in the SGPB meeting held on 09.09.2026, wherein the Chairman, SGPB assured to intervene and facilitate the drilling work.
- g. The agency informed that the three boreholes have been completed successfully; however, the feasibility of completing the fourth borehole (KEBH-04) cannot be ascertained at this stage.
- h. The Committee advised the agency to submit to NMEDT copies of its communications with the local authorities regarding the issue with the JFMC.
- i. The Committee noted that the results obtained so far are encouraging and granted an extension of two months for completion of the project.
- j. The Committee advised the agency to keep NMEDT informed of the status and progress of execution of the project.

Recommendations of TCC-1:

The Committee recommended time line extension upto 09.11.2026 for approval of PSC of NMEDT for completion of work.

The Committee further advised the agency to keep NMEDT informed of the status and progress of execution of the project.

Agenda 104.5.5. Preliminary Exploration (G3) for Graphite in Saharha Block, Rayagada District, Odisha.

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

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- a. MMPL Pvt. Ltd. informed that the project was approved in the 5th PSC Meeting held on 09th February, 2026. The Sanction Order was issued on 6th March, 2026 with timeline of 12 months (up to 05.03.2027) and approved cost was INR 3,25,72,307/-.
- b. The agency informed that detailed geological mapping (1:2,000 scale), topographical survey (2.1 sq. km) and SP survey (3-line km) have been completed. 150 cu. m of trenching against 200 cu. m (10 trenches) has been carried out, with 57 trench samples analysed for proximate analysis. The drilling is yet to commence.
- c. The agency informed that six graphite bands have been delineated—two in the eastern zone (E-1: 332 m × 3–8 m; E-2: 430 m × 4–8 m) and four in the western zone (70–140 m × 2–5 m). The weighted average FC content in trenches is up to 6.21%, while graphite was not encountered in T-6 and T-10.
- d. The agency sought approval for 17 boreholes, comprising 14 in the eastern zone (6 first-level and 8 second-level) and 3 in the western zone (1 first-level and 2 second-level), with a total proposed drilling of 1,414 m.
- e. The proposal comprises 7 first-level boreholes totaling 443 m (against approved 10 boreholes/600 m) and 10 second-level boreholes totaling 971 m (against approved 10 boreholes/1,000 m).
- f. The Committee advised that the proposed boreholes be positioned at an approximate spacing of 200 m in both the eastern and western parts of the block.
- g. For the first level, the Committee recommended two boreholes along T-1 and one borehole along T-2, maintaining a spacing of 200 m.
- h. In the western part, the Committee recommended one borehole at the second level.

Recommendations of TCC-1:

The Committee recommended drilling at 200 m spacing in the eastern and western parts of the block, comprising two boreholes along T-1 and one borehole along T-2 at the first level, and one borehole at the second level in the western part.

Agenda 104.5.6. Reconnaissance Survey (G4) for Glauconite Sandstone in Magarlod area, Dhamtari District, Chhattisgarh.

[Implementing Agency: DGM Chhattisgarh]

- a. The agency informed that the project was approved in the 1st PSC Meeting held on 9th October, 2025. The Sanction Order was issued on 10th November, 2025 with timeline of 10 months (up to 09.09.2026) and approved cost was INR 84,89,151/-
- b. The agency informed that large-scale mapping over 100 sq. km and 300 m drilling in five boreholes (GMBH-1 to GMBH-5) have been completed during 13.07.2026 to 09.09.2026. Pitting of 61.5 cu. m (22 pits) against 100 cu. m has also been carried out.
- c. Analytical results for 153 BRS samples and 27 pit samples have been received, while analysis of 75 borehole core samples is pending.
- d. The agency informed that glauconitic sandstone occurs in the Lohardih and Kansapathar formations of the Chandarpur Group, with K₂O up to 5.19% in BRS samples from the Lohardih Formation, including 17 of 35 samples exceeding 2% K₂O, and up to 6.74% in pit samples.
- e. Apart from sandstone and shale, the boreholes also intersected Dongargarh Granite.

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- f. The agency requested an extension of the project timeline up to 31.12.2026 for completion of the pending analyses, XRD studies, peer review and submission of the Geological Report.
- g. The agency also sought permission for REE analysis of 10 borehole samples through ICP-MS.
- h. The Committee reviewed the progress of work and observed that the Dongargarh granite comprises multiple phases, and advised the agency to collect representative samples from the granite.
- i. The Committee permitted REE and trace-element analysis of five samples of the Dongargarh Granite.
- j. The Committee advised that the core samples for the above-mentioned analysis may preferably be collected from the first borehole (BH-01) by the agency.
- k. The Committee agreed to extend the project timeline up to 31.12.2026. The project cost was also revised and recommended for approval by the PSC, NMEDT. REE analysis was added and pitting component was removed from cost sheet.

Recommendations of TCC-1:

The committee recommended revision of cost of project from Rs. 84.89 lakhs to Rs. 83.51 lakh with a change in amount of (-) Rs 1.38 lakhs (~0.02% de-escalation), for approval of PSC, NMEDT as per Annexure 7.

The Committee also recommended timeline extension upto 31.12.2026 for approval of PSC of NMEDT. Extension of timeline is recommended for completion of additional analytical work, report writing and submission of GR.

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Revised cost Reconnaissance Survey (G4) for Glauconite Sandstone in Magarlod area, Dhamtari District, Chhattisgarh

Total Area – 100 sq km; Nos. of Borehole – 05; Total Drilling – 300 m; Timeline – 10 Months; Review after 04 months (before drilling) and 08 months

S. No.	Item of work	Unit	SoC Item S.No.	Rates as per SoC	Approved Cost of the Proposal			Revised Estimated Cost of the Proposal		Remarks
					Qty.	Sactioned Amount (₹)		Qty.	Total Amount(₹)	
A.	GEOLOGICAL WORK									
1	Survey Party Days (1 party)	Day	1.6.1a	8,300	0.00	0		0.00	0	
2	Labour charges for Survey work	Per Labour	5.7	541	0.00	0		0.00	0	
3	Geologist Party Days (1 Party) Field	Day	1.3	0	150.00	0		150.00	0	In-house
4	Geologist Party Days (1 Party) HQ	Day	1.3	0	30.00	0		30.00	0	In-house
5	Labour charges for Geological Field work	Per Labour	5.7	541	300.00	162,300		300.00	162,300	
6	Core Sampling Party Days – (2 Parties)	Day	1.5.2	5,100	45.00	229,500		45.00	229,500	
7	Labour for Sampling	Per Labour	5.7	541	180.00	97,380		180.00	97,380	
8	Survey work for BH Fixation	Per point of observation	1.6.2	19,200	5.00	96,000		5.00	96,000	
	Sub Total A					585,180			585,180	
B.	PITTING & TRENCHING									
1	Excavation pit up to depth 2.00 m	Cu.Meter	2.1.2	3,800	100.00	380,000		61.50	233,700	50 pits of each 2 cu.m. depth
	Sub Total B					380,000			233,700	
C.	DRILLING									

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1	Surface drilling (in-house)	Meter	2.2.1.3	10,100	300.00	3,030,000		300.00	3,030,000	
2	Road making (flat terrain)	Per km	2.2.10a	22,020	10.00	220,200		10.00	220,200	As per actuals
3	Construction of concrete pillar	Per borehole	2.2.7a	2,000	5.00	10,000		5.00	10,000	
4	Transportation (1 rigs)	Per km	2.2.8	36	75.00	2,700		75.00	2,700	
5	Monthly Accommodation charges for drilling camp	Monthly basis	2.2.9	50,000	3.00	150,000		3.00	150,000	
6	Camp Establishment cost	Per Drill	2.2.9a	250,000	1.00	250,000		1.00	250,000	
7	Camp Winding	Per Drill	2.2.9b	250,000	1.00	250,000		1.00	250,000	
8	Drill core preservation	Per meter	2.2.8	1,590	150.00	238,500		150.00	238,500	
	Sub Total C					4,151,400			4,151,400	
D.	LABORATORY STUDIES									
a	Bulk density/S.G.	per sample	4.1	3,540	2.00	7,080		2.00	7,080	
b	Chemical Analysis								0	
1	Primary + Check Samples								0	
(i)	Primary Samples 4 radicals (K2O, SiO2, Al2O3 & Fe2O3)	per sample	4.1.15a	4,200	300.00	1,260,000		300.00	1,260,000	225 BRS + 75 BH samples
(ii)	For Check Samples 4 radicals (K2O, SiO2, Al2O3 & Fe2O3)	per sample	4.1.15a	4,200	30.00	126,000		30.00	126,000	
(iii)	preparation of standard thin section	per sample	4.3.1	2,353	10.00	23,530		10.00	23,530	
(iv)	Petrological study	per sample	4.3.4	4,232	10.00	42,320		10.00	42,320	
(v)	XRD studies	per sample	4.5.1	4,000	5.00	20,000		5.00	20,000	
(vi)	REE Analysis	per sample	4.1.15	7,400	0.00	0		5.00	37,000	Since new component is added, the rate is as per revised SoC.
	Sub Total D					1,478,930			1,515,930	
E.	Land/crop compensation									
	Land/crop compensation	Per BH	5.6	20,000	5.00	100,000		5.00	100,000	As per actuals

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	Sub Total E					100,000			100,000	
	Total A + B + C + D + E					6,695,510			6,586,210	
F.	Preparation of exploration proposal									
	Preparation of exploration proposal	One Number (5 Hard copies along with soft copy)	5.1	2% of the project cost or Rs 3.8 lakh whichever is lower		133,910			131,724	
	Peer review					30,000			30,000	
	Geological Report Preparation	Copy per 5 Hard copies of report along with soft copy	5.2	For projects having cost upto Rs 150 lakhs: A Minimum of Rs.2.5 lakhs or 5% of the value of work whichever is more		334,776			329,311	
	Sub Total F					498,686			491,035	
	Grand Total E+F					7,194,196	0		7,077,245	
	GST 18%					1,294,955	0		1,273,904	
	Grand Total: with GST 18%					8,489,151	0		8,351,149	
						Change in amount			138,002	
						In lakhs			(-) 1.38	

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						De-escalation	0.02%	
Note:								
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.							
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.							
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and 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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Agenda 104.5.7. Reconnaissance survey (G4) for REE and Associated Minerals in Saiyedpar area (135.45 sq. km), Kachchh District, Gujarat
[Implementing Agency: MECL]

- a. The agency informed that the project was approved in the 41st EC Meeting held on 11th March, 2025. The Sanction Order was issued on 19th March, 2025 with timeline of 10 months (up to 18.01.2026) and approved cost was INR 1,83,75,654/-. The timeline was extended upto 30.09.2026 during 12th meeting of PSC. The cost was revised to INR 1,37,02,354/- during 10th PSC meeting.
- 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 of the peer reviewers' comments by the agency.
- 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 104.5.8. Preliminary Exploration for Bauxite, Vanadium, Titanium and Associated Minerals in Rudni Pat Block, Lohardaga District, Jharkhand.
[Implementing Agency: MECL]

- a. MECL informed 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 15 months (up to 07.04.2027) and approved cost was INR 1,53,42,790/-.
- b. The agency informed that the entire block falls within the Rudni Pat Reserve Forest. The application for forest permission was submitted on 31.01.2026 and, following four EDS queries, field inspection by the DFO and grant of principal approval on 25.06.2026, the final forest permission was received on 19.08.2026.
- c. The agency informed that the progress of work was delayed due to the pending forest permission, and consequently, detailed geological mapping could not be undertaken till date.
- d. The agency informed that a limited tender for outsourced drilling of 24 boreholes totalling 760 m was floated on 29.08.2026. Due to insufficient participation, the bid opening date was extended to 16.09.2026.
- e. The agency informed that geological mapping is scheduled to commence shortly, and that drilling, core sampling and chemical analysis will be taken up immediately after award of the drilling contract.
- f. The Committee advised the agency to bring the project for review after completion of the detailed geological mapping.

Recommendations of TCC-1:

The Committee advised the agency to expedite the work and bring the project for review after completion of the detailed geological mapping.

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Agenda 104.5.9. Reconnaissance Survey (G-4) for Graphite, Vanadium and Associated Minerals in Bhaluani Kalan Block, District- Palamu, Jharkhand.

[Implementing Agency: MECL]

- a. MECL informed 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 10 months (up to 07.11.2026) and approved cost was INR 1,34,03,809/-.
- b. The agency informed that approximately 15 sq. km (46%) of the block falls within the Hathi Khas Protected Forest. Forest permission was received on 06.06.2026, valid for four months up to 05.10.2026, and an application for extension was submitted on 09.09.2026.
- c. The agency informed that geological mapping of 32.70 sq. km at 1:12500 scale and sampling have been completed, and the corresponding geochemical analyses have been received.
- d. The area is predominantly underlain by granite gneiss of the Chotanagpur Granite Gneiss Complex, with thin and discontinuous bands of graphite mica schist and a small old working near the eastern boundary.
- e. Of the 15 samples analysed for graphite, five recorded FC values of 1.00–13.60% (average 3.00%), indicating limited and discontinuous surface occurrence of graphite.
- f. The agency identified a potential area of 2.54 sq. km for the SP survey and requested inclusion of the adjoining abandoned Panchgarha graphite mine, which would increase the proposed survey area to 3.30 sq. km, involving approximately 22-line km against the approved 20 line km. The agency also requested a six-month extension for completion of the project.
- g. The Committee observed that, being a G4-stage project, the entire area is required to be systematically investigated, whereas more than 80% of the area is covered by soil and adequate exploration work has not yet been completed. It was also noted that only sporadic graphite values have been reported from the proposed extension area.
- h. The Committee advised that the agency should focus on the southern part of the main block and undertake the SP survey in that area.
- i. The Committee advised the agency to complete the trenching work and present the analytical results to the TCC for review for consideration on extension of timeline.
- j. The Committee advised the agency to obtain a letter from the DGM regarding inclusion of the adjoining area containing the abandoned mine in the present block and submit the same to NMEDT.

Recommendations of TCC-1:

The Committee recommended that the agency complete the trenching work and submit/present the analytical results to the TCC for review.

The agency shall obtain a letter from the State DGM regarding the proposed inclusion of the adjoining area containing the abandoned mine in the present block and submit the same to NMEDT.

Agenda 104.5.10. Preliminary Exploration for Tungsten and Associated Minerals in Bodkipet block (Intervening area between Kuhu and Khobna blocks), District Nagpur, Maharashtra.

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[Implementing Agency: MECL]

- a. MECL 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 4,15,32,062/-. Timeline was extended upto 31.08.2026 by PSC in its 7th meeting.
- b. The agency informed that geological mapping and topographical survey (5.39 sq. km at 1: 2,000 scale), geophysical survey (60-line km) and trenching (98 cu. m in 3 trenches) have been completed. Ten boreholes totaling 1,100 m against 1,210 m were completed on 13.07.2026; one borehole could not be drilled due to local constraints in cultivated land.
- c. Of the 15 BRS/channel samples, 8 recorded W >100 ppm, with a maximum of 200.17 ppm, while 12 of 42 trench samples recorded W >100 ppm, with a maximum of 412.36 ppm.
- d. Analytical results of four boreholes (MBTP-01 to MBTP-04) have been received, with 86 of 161 core samples recording W >100 ppm, up to 281.02 ppm.
- e. At a 150 ppm W cut-off, significant mineralised zones include 23.10 m @ 198.70 ppm W in MBTP-04 and 12.00 m @ 185.13 ppm W in MBTP-03.
- f. The agency informed that scheelite has been observed in the boreholes, whereas wolframite has not been encountered.
- g. The agency informed that analysis of the remaining samples is pending at the external laboratory, while the primary analysis at the MECL laboratory is expected to be completed within the current month.
- h. The EPMA data from GSI is awaited, and the agency informed that the Geological Report would be prepared within one month of receipt of the EPMA data.
- i. The Committee recommended an extension of the project timeline up to 30.11.2026 for completion of all pending external analyses and submission of the Geological Report.

Recommendations of TCC-1:

The Committee recommended an extension of the project timeline up to 30.11.2026 for approval of PSC, NMEDT. The recommendation is for completion of all pending external analyses and submission of the Geological Report.

Agenda 104.5.11. Preliminary Exploration (G-3) for Aluminous Laterite, Vanadium and Associated Minerals in Kolathur block, Kasaragod District, Kerala.

[Implementing Agency: MECL]

- a. MECL informed that the project was approved in the 42nd EC Meeting held on 02nd June, 2025. The Sanction Order was issued on 20th June, 2025 with timeline of 12 months (up to 19.06.2026) and approved cost was INR 1,80,99,002/-. Timeline was extended upto 31.08.2026 by PSC in its 9th meeting. The cost was revised to INR 1,77,10,166/- during 9th PSC meeting.
- b. The block was earlier reviewed in the 93rd and 96th TCC-I meetings, wherein drilling of 20 boreholes was approved by TCC.
- c. The agency informed that drilling is being outsourced. The first tender received no participation, and the tender was re-floated, with the bid scheduled to be opened on 17.09.2026.
- d. The agency requested an extension of the project timeline up to 28.02.2027.

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- e. The Committee agreed to recommend an extension of the project timeline up to 31.01.2027 for completion of work and submission of GR.

Recommendations of TCC-1:

The Committee recommended an extension of the project timeline up to 31.01.2027 for approval of PSC, NMEDT. The recommendation is for completion of drilling, pending analyses and submission of the Geological Report.

Agenda 104.5.12. Preliminary Exploration (G3) for Graphite in Dahita Block, District Bargarh, Odisha.

[Implementing Agency: MECL]

- a. MECL informed that the project was approved in the 43rd EC Meeting held on 14th August, 2025. The Sanction Order was issued on 8th September, 2025 with timeline of 12 months (up to 07.09.2026) and approved cost was INR 2,03,13,655/-. The cost was revised to INR 1,91,64,626/- during 11th PSC meeting.
- b. The agency informed that Phase-I activities comprising geological mapping, surface bedrock sampling (25 samples) and SP survey have been completed.
- c. Based on the Phase-I investigations, eight prospective locales of graphite mineralisation, along with manganese mineralisation, have been identified.
- d. The agency informed that three boreholes were recommended in the 28th and 32nd TCC-II meetings to establish the subsurface continuity of graphite and manganese mineralisation, and the project cost has been revised accordingly.
- e. The agency further apprised the committee that drilling has been delayed due to the monsoon and harvesting season, which is expected to continue up to the end of November, as the area is predominantly agricultural and the fields are presently waterlogged.
- f. The agency informed that the drilling rigs are proposed to be deployed by the first week of December 2026.
- g. The agency requested an extension of three months for completion of the proposed boreholes.
- h. The Committee advised the agency to submit the above commitment in writing.
- i. The Committee agreed for recommending an extension of the timeline up to 31.01.2027.

Recommendations of TCC-1:

The Committee recommended an extension of the project timeline up to 31.01.2027 for approval of PSC, NMEDT. The recommendation is for completion of drilling, pending analyses and submission of the Geological Report.

Agenda 104.5.13. Reconnaissance Survey (G-4) for Tungsten, REE and Associated minerals in and around Nellie Area (114.96 sq. km), Morigaon and West Karbi Anglong Districts, Assam.

[Implementing Agency: MECL]

- a. MECL informed that the project was approved in the 37th EC Meeting held on 23rd September, 2024. The Sanction Order was issued on 22nd October, 2024 with timeline of 10 months (up to 21.08.2025) and approved cost was INR 2,64,31,489/-. The cost was

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revised to INR 1,40,72,144/- during 4th PSC meeting. The timeline was extended upto 31.10.2026 during 10th meeting of PSC.

- b. The TCC recommended 200 m of auger drilling in place of core drilling, considering the potential indicated by the weathered profile over granite. The revised cost with outsourcing was recommended in the 87th TCC-I meeting, and forest permission was received on 10.06.2026.
- c. The agency informed that the block is predominantly occupied by porphyritic granites of the Nongpoh Granitoids. Large-scale mapping, bedrock (50), stream sediment (50), soil (pit and auger) sampling and auger drilling have been completed along with the analyses.
- d. The agency reported Σ REE+Y averaging about 1,176 ppm and reaching up to 2,386 ppm in stream sediments, while soil samples recorded values of up to 1,837–2,062 ppm in the B and C horizons.
- e. The corresponding average Σ REE+Y in bedrock was about 325 ppm, indicating enrichment within the in-situ weathered profile.
- f. W values up to 746 ppm were recorded in the bedrock samples.
- g. The agency informed that the block lies entirely within Morigaon district and clarified that, although the project title in the OM mentions a block area of 114.96 sq. km, the actual block area is 51.37 sq. km.
- h. The agency informed that the work has been completed and presented the results for consideration towards submission of the Geological Report (GR) to the Peer Reviewer.
- i. The Committee advised the agency to calculate the resources for the B, C and A horizons showing anomalous values, and thereafter submit the Geological Report to the Peer Reviewer.

Recommendations of TCC-1:

The Committee advised the agency to calculate the resources for the B, C and A horizons showing anomalous values, and thereafter submit the Geological Report to the Peer Reviewer.

The Committee also recommended revision of the project title “Reconnaissance Survey (G-4) for Tungsten, REE and Associated minerals in and around Nellie Area (114.96 sq. km), Morigaon and West Karbi Anglong Districts, Assam” to “Reconnaissance Survey (G-4) for Tungsten, REE and Associated minerals in and around Nellie Area (51.37 sq. km), Morigaon District, Assam”.

Agenda 104.5.14. General Exploration (G-2) for Molybdenum in Vellakkal Central Block, Uttangarai Sector, Harur-Uttangarai Belt (HUB), District-Krishnagiri, Tamil Nadu.

[Implementing Agency: MECL]

- a. MECL informed that the project was approved in the 38th EC Meeting held on 29th November, 2024. The Sanction Order was issued 12th December, 2024 with timeline of 15 months (up to 11.03.2026) and approved cost was INR 1,1,21,17,537/-. The timeline was extended upto 30.09.2026 during 7th meeting of PSC.
- b. The agency informed that 5,792 m of drilling in 35 boreholes has been completed against the approved 6,200 m in 35 boreholes, generating 999 core samples.

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- c. Analytical results have been received for 710 core samples, while analysis of the remaining 289 samples is in progress. The geotechnical study of one borehole core at VNIT, Nagpur is also in progress.
- d. The agency informed that the shear zone and mineralised zone have been intersected in all the drilled boreholes.
- e. At a 100 ppm Mo cut-off, mineralisation was intersected in 20 of the 23 boreholes analysed, with intersections ranging from 0.50–4.25 m @ 106.36–564.21 ppm Mo.
- f. At a 100 ppm W cut-off, mineralisation was intersected in 18 of the 23 boreholes, with intersections ranging from 0.50–6.70 m @ 118.23–405.39 ppm W, over an approximate strike length of 1.1 km.
- g. The agency further informed that the beneficiation study on one sample is to be carried out by IBM, for which the charges quoted by IBM are Rs. 9,01,559/- against the approved cost of Rs. 3,00,000/-, and sought financial approval for the same along with a time extension of six months.
- h. The Committee recommended an extension of the timeline up to 31.01.2027.
- i. The Committee advised the agency to send a mail to NMEDT giving the details of the samples left for analysis and its action plan.
- j. The Committee cost of project was revised with reference to the beneficiation study.

Recommendations of TCC-1:

The committee recommended revision of cost of project from Rs. 1121.18 lakhs to Rs. 1119.40 lakh with a change in amount of (-) Rs 1.78 lakhs (~0.16% de-escalation), for approval of PSC, NMEDT as per Annexure 8.

The Committee also recommended timeline extension upto 31.01.2027 for approval of PSC of NMEDT. Extension of timeline is recommended for completion of remaining drilling, analysis of data, report writing and submission of GR.

The committee also advised the agency to send an email to NMEDT giving the details of the samples left for analysis and its action plan.

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Revised Estimate Cost for General Exploration (G-2) for Molybdenum in Amalgamated Vellakkal Central Block, Uttangarai Sector, Harur-Uttangarai Belt (HUB), District- Krishnagiri, Tamil Nadu.

Total Area - 1.1 Sq Km; Nos. of Borehole - 35 (10 Bh X 100m Depth - Level 1, 14 Bhs X 175m depth - Level 2, 11 BhX 250m - Level 3): 6200m approx. drilling

Borehole Depth Range:- 100m to 250m approx. Completion Time - 15 months, Review : 6 & 12 months

S.N	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Revised Estimated Cost of the Proposal		Remarks
			SoC-Item -Sl No.	Rates as per SoC	Qty.	Total Amount (Rs)	Qty.	Total Amount (Rs)	
	VELLAKKAL CENTRAL BLOCK (G2)								
A	GEOLOGICAL WORK								
1	Borhole logging & Sampling & map updation & Report writing				1.1 sq.km.		1.1 sq.km.		
a	Charges for two Geologist per day at HQ	day	1.3a	9,000	60	540,000	60	540,000	
b	Charges for two Geologist per day at field	day	1.3b	11,000	200	2,200,000	200	2,200,000	
c	Labour for Geologist (2 Nos)	day	5.7	522	400	208,800	400	208,800	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher

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d	Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2	5,100	149	759,900	149	759,900	
e	Labours for sampling work (4 Nos)	day	5.7	522	596	311,112	596	311,112	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
	Sub Total A					4,019,812		4,019,812	
B	DRILLING								
a	Drilling -Very Hard rock	m	2.2.1.4a	11,500	6,200	71,300,000	6,200	71,300,000	
b	Borehole deviation Survey by Multishot Camera	m	2.2.6	330	6,200	2,046,000	6,200	2,046,000	
c	Land / Crop Compansation (in case the BH falls in agreecultural Land)	per BH	5.6	20,000	35	700,000	35	700,000	Amount will be reimbursed as per actuals or max. Rs. 20000 per BH with certification from local authorities

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d	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	35	70,000	35	70,000	
e	Transportation of Drill Rig & Truck associated per drill	Km	2.2.8	36	9,920	357,120	9,920	357,120	To & fro for 4 Rigs fro Nagpur
f	Monthly Accomodation Charges for drilling Camp (up to 4 Rigs)	month	2.2.9	100,000	6	600,000	6	600,000	
g	Drilling Camp Setting Cost	Nos	2.2.9a	250,000	4	1,000,000	4	1,000,000	
h	Drilling Camp Winding up Cost	Nos	2.2.9b	250,000	4	1,000,000	4	1,000,000	
i	Road Making (Flat Terrain)	Km	2.2.10a	22,020	4	88,080	4	88,080	Road Making will be considered as per the requirement and Road Making Charges will be reimbursed accordingly.
j	Drill Core Preservation	per m	5.3	1,590	1,300	2,067,000	1,300	2,067,000	
	Sub Total B					79,228,200		79,228,200	
C	Survey Work								
a	DGPS Survey of Block Boundary cardinal points by DGPS + BH fixation & RL determination	Per Point of observation	1.6.2	19,200	39	748800	39	748800	4 Points for Block Boundary + 35 Bhs

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	Sub-Total C					748,800		748,800	
D	Borehole Geophysical Logging	5 Bhs of 350m each	3.12	622.22	6,200	3,857,764	6,200	3,857,764	
	Sub-Total D					3,857,764		3,857,764	
E	LABORATORY STUDIES								
1	Chemical Analysis								
i)	Primary samples (BH core)								
	a. For Sn, Mo, W, Ag, Bi by AAS Method	Nos	4.1.7a & b	2,506	1,050	2,631,300	1,050	2,631,300	
	b. Composite samples for 34 Elements by ICP-MS	Nos	4.1.14	7,731	40	309,240	40	309,240	
ii)	External Check samples (10%) BH Core							-	
	a. For Sn, Mo, W, Ag, Bi by AAS Method	Nos	4.1.7a & b	2,506	105	263,130	105	263,130	
iii)	Petrographic & Mineragraphic samples (Bh Core Samples)							-	
a	Preparation of thin section	Nos	4.3.1	2,353	10	23,530	10	23,530	
b	Complete petrographic study report	Nos	4.3.4	4,232	10	42,320	10	42,320	
c	Preparation of polished section	Nos	4.3.2	1,549	10	15,490	10	15,490	
d	Complete mineragraphic study report	Nos	4.3.4	4,232	10	42,320	10	42,320	
e	Digital Photographs	Nos	4.3.7	280	10	2,800	10	2,800	

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f	Sp. Gravity Determination	No.	4.8.1	1,605	10	16,050	10	16,050	
	Total - E					3,346,180		3,346,180	
F	Beneficiation studies								
	Laboratory scale ore beneficiation	Lumpsum	SoC of IBM	300,000	1	300,000	1	901,559	Approved cost was Rs. 3,00,000/- IBM actual charge for beneficiation is Rs. 901559/-
	Total - F					300,000		901,559	
G	Geotechnical studies								
i	Porosity, Uniaxial compressive strength, tensile strength, Young's modulus elasticity, triaxial compressive strength (cohesion & angle of internal friction) and bulk density etc.	No.	4.8.2, 4.8.4c, 4.8.5, 4.8.7, 4.8.9 & 4.10	23,212	10	232,120	10	232,120	
ii	Transportation of drill core by postal service		Lumpsum	10,000	-	-	-	-	
	Total - G					232,120		232,120	
	Sub Total (A to G)					91,732,876		92,334,435	
H	Geological Report Preparation		5.2	For the projects exceeding		2,751,986		2,000,000	

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				Rs.300 Lakhs: A Minimum of Rs. 9 lakhs or 3% of the work whichever is more subject to a maximum amount of 2000000					
I	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1/28th EC	2% of the Cost or Rs. 5.0 Lakhs whichever is lower		500,000		500,000	EA has to submit the Hard copies and soft copies of final proposal along with maps and plan as suggested by the TCC-NMET in its meeting while clearing the proposal.
J	Peer review Charges		As per EC decision			30,000		30,000	Cost Estimated for two peer review of 2 blocks seperately (Naddisinur-1

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									and Naddisinur-2 Blocks)
K	Total Estimated Cost without GST					95,014,862		94,864,435	
L	Provision for GST (18% of H)	%				17,102,675		17,075,598	GST will be reimburse as per actual and as per notified prescribed rate
M	Total Estimated Cost with GST					112,117,537		111,940,033	
				or Say Rs. In Lakhs		1,121.18		1,119.40	
				Change in Cost (in Lakh)				(-) 1.78	
								0.16% de-escalation	
Note:									
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.								
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.								
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and 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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Agenda 104.5.15. Preliminary Exploration (G-3) for Molybdenum in Vellakkal North Block (2.90 Sq. km) & Vellakkal South Block (1.55 Sq. km) Uttangarai Sector, Harur-Uttangarai Belt (HUB), District- Krishnagiri, Tamil Nadu.

[Implementing Agency: MECL]

- a. MECL informed that the project was approved in the 38th EC Meeting held on 29th November, 2024. The Sanction Order was issued 12th December, 2024 with timeline of 15 months (up to 11.03.2026) and approved cost was INR 9,11,81,710/-. The timeline was extended upto 30.09.2026 during 7th meeting of PSC.
- b. The agency informed that geological mapping and topographical survey (4.45 sq. km), geochemical sampling and geophysical survey have been completed.
- c. The agency further informed that 3,904 m of drilling in 34 boreholes has been completed against the approved 4,000 m in 30 boreholes.
- d. A total of 943 samples have been generated, of which analytical results for 146 samples have been received, while analysis of 797 samples is in progress.
- e. The shear zone and mineralised zone have been intersected in all the drilled boreholes.
- f. Of the four boreholes analysed so far, the ore zone at 100 ppm Mo cut-off was intersected in three boreholes, with thicknesses of 1.00–3.00 m and grades of 120.80–204.60 ppm Mo.
- g. The agency requested a six-month extension for completion of the pending sample analysis and preparation of the Geological Report (GR).
- h. The Committee advised the agency to expedite the sample analysis and submit the Geological Report to NMEDT for nomination of the Peer Reviewer.
- i. The Committee agreed for recommendation for an extension of the project timeline up to 31.12.2026 for submission of the Geological Report.

Recommendations of TCC-1:

The Committee also recommended timeline extension upto 31.12.2026 for approval of PSC of NMEDT. Extension of timeline is recommended for analysis of data, report writing and submission of GR.

The committee also advised the agency to expedite the analysis and submit the GR to NMEDT for the nomination of the Peer Reviewer.

Agenda 104.5.16. Reconnaissance survey (G4) for REE and Associated Minerals in Nokhaniya area (101.65 sq. km), Kachchh District, Gujarat.

[Implementing Agency: MECL]

- a. MECL informed that the project was approved in the 41st EC Meeting held on 11th March, 2025. The Sanction Order was issued 19th March, 2025 with timeline of 10 months (up to 18.01.2026) and approved cost was INR 2,39,21,668/-. The timeline was extended upto 31.03.2026 & 31.07.2026 during 4th & 9th meeting of PSC respectively.
- b. The agency informed that geological mapping (100.49 sq. km), bedrock sampling (50 samples), orientation pitting (20 cu. m), auger drilling (192 m in 42 boreholes) and scout drilling of 200 m in four boreholes have been completed, and the analytical results have been received.

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- c. The agency informed that the block is underlain by the Katrol and Bhuj formations of the Kachchh Basin.
- d. $\Sigma\text{REE}+\text{Y}$ values up to 0.14% were recorded in ferruginous sandstone in the western part, while values of 0.05–0.10% were recorded in Katrol shale in the central part.
- e. In the boreholes, MNKBH-02 recorded $\Sigma\text{REE}+\text{Y}$ above 1,000 ppm, including 3 m @ 1,269.49 ppm at 30–33 m depth. Boreholes drilled along the strike and dip did not record enrichment above 1,000 ppm, indicating localized REE mineralisation.
- f. EPMA studies identified monazite and apatite as the major REE-bearing phases.
- g. The agency requested an extension of the timeline up to 30.11.2026 for the peer review and the submission of the final Geological Report (GR).
- h. The Committee recommended an extension of the timeline up to 30.11.2026.
- i. The Committee advised that the Peer Reviewer be nominated by NMEDT and that the GR be sent for peer review.

Recommendations of TCC-1:

The Committee recommended timeline extension upto 30.11.2026 for approval of PSC of NMEDT. Extension of timeline is recommended for submission of GR.

Agenda 104.5.17. Reconnaissance Survey (G4) for REE, Glauconite and Associated Minerals in Devpur area (138.52 sq.km), Kachchh District, Gujarat.

[Implementing Agency: MECL]

- a. MECL informed that the project was approved in the 41st EC Meeting held on 11th March, 2025. The Sanction Order was issued 19th March, 2025 with timeline of 10 months (up to 18.01.2026) and approved cost was INR 2,65,61,382/-. The timeline was extended upto 31.03.2026 in 4th PSC meeting & 31.07.2026 during 9th meeting of PSC.
- b. The agency informed that geological mapping over 138.52 sq. km, bedrock sampling (50 samples for REE), pitting and stream sediment sampling have been completed.
- c. Three boreholes were drilled as advised in the 19th TCC-II. Based on the results, including BH-03 recording $\Sigma\text{REE}+\text{Y}$ of ~1,900 ppm, two additional boreholes of 100 m each were approved and subsequently drilled.
- d. The agency informed that the approved drilling programme has been completed.
- e. The agency informed that the analytical results of the samples are still awaited.
- f. In view of the pending analytical results, the agency requested extension of the project timeline up to 30.11.2026 for submission of the Geological Report.
- g. The Committee reviewed the progress of work and an extension of the timeline up to 30.11.2026 was recommended.

Recommendations of TCC-1:

The Committee recommended timeline extension upto 30.11.2026 for approval of PSC of NMEDT. Extension of timeline is recommended for submission of GR.

Agenda 104.5.18. Reconnaissance survey (G4) for REE, RM, Glauconite and Phosphorite in Devisar area (102.70 sq. km), Kachchh District, Gujarat.

[Implementing Agency: MECL]

- a. MECL informed that the project was approved in the 41st EC Meeting held on 11th March, 2025. The Sanction Order was issued 19th March, 2025 with timeline of 10 months (up to

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- 18.01.2026) and approved cost was INR 2,51,37,939/-. The timeline was extended upto 17.04.2026 in 4th PSC meeting & 31.08.2026 during 7th meeting of PSC.
- The agency informed that geological mapping (140.70 sq. km), bedrock sampling (50 samples), pitting (55 cu. m), auger drilling (91 m), and scout drilling of 600 m in six boreholes have been completed, along with the associated sampling.
 - The agency informed that chemical analysis of the collected samples is under progress.
 - REE enrichment up to 0.16% Σ REE+Y has been identified in ferruginous sandstone of the Bhuj Formation in the southwestern part of the block.
 - The agency reported notable Σ REE+Y values of up to 0.12% in the Bhuj Formation and 0.14% in the Katrol Formation in the northern part of the block, while Pit-4 recorded up to 0.10% Σ REE+Y.
 - In view of the pending chemical analysis and completion of the Geological Report, the agency requested an extension of four months, up to 31.12.2026, for submission of the GR.
 - The Committee reviewed the progress of work and an extension of the timeline up to 30.11.2026 was recommended.

Recommendations of TCC-1:

The Committee recommended timeline extension upto 30.11.2026 for approval of PSC of NMEDT. Extension of timeline is recommended for submission of GR.

Agenda 104.5.19. Reconnaissance survey (G4) for REE and Associated Minerals in Pipargaon area, West Karbi Anglong District, Assam.

[Implementing Agency: MECL]

- MECL informed that the project was approved in the 42nd EC Meeting held on 02nd June 2025. The Sanction Order was issued 20th June, 2025 with timeline of 11 months (up to 19.05.2026) and approved cost was INR 5,17,96,145/-. The timeline was extended upto 18.08.2026 during 9th meeting of PSC.
- The agency informed that the area comprises quartzites of the Shillong Group intruded by younger biotite and porphyritic granites.
- Of the 50 BRS samples collected from granites and pegmatites, 16 samples recorded Σ REE+Y of 500–1,000 ppm, with one sample exceeding 1,000 ppm; 13 samples recorded W >200 ppm, with a maximum of 618.09 ppm.
- The agency further informed that four soil samples from the pits recorded Σ REE+Y >1,000 ppm, with W values up to 396.33 ppm. Following enhancement of tungsten targets in the 32nd TCC-II meeting, two areas were further investigated through close-spaced sampling, with 25 samples collected for analysis.
- In view of the additional exploration and pending analysis, the agency requested extension of the project timeline up to 30.11.2026.
- The Committee advised the agency to approach the TCC for approval of further course of exploration after receipt of the analytical results.
- The Committee recommended extension of the project timeline up to 30.11.2026.

Recommendations of TCC-1:

The Committee recommended timeline extension upto 30.11.2026 for approval of PSC of NMEDT. Extension of timeline is recommended for completion of work and submission of GR.

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Agenda 104.5.20. Reconnaissance survey (G4) for Gold and Associated Minerals in Parma area (133 sq. km), Singrauli District, Madhya Pradesh.

[Implementing Agency: MECL]

- a. MECL informed that the project was approved in the 41st EC Meeting held on 11th March, 2025. The Sanction Order was issued 19th March, 2025 with timeline of 10 months (up to 18.01.2026) and approved cost was INR 1,86,58,032/-. The timeline was extended upto 30.09.2026 during 8th meeting of PSC.
- b. The agency informed that geological mapping over 133.00 sq. km at 1:12500 scale has been completed and 321 bedrock samples have been collected and analysed.
- c. PGE values up to 411.16 ppb were recorded, with 18 out of 70 PGE samples exceeding 100 ppb, mainly associated with ultramafic–metabasalt units; gold values up to 147.17 ppb were also reported.
- d. The agency informed that the ground geophysical survey (8–10 line km) is in progress in non-forest areas. Trenching (150 cu. m) and scout drilling (500 m) will be taken up after review of the geophysical survey results.
- e. The agency informed that multiple bands of BMQ occur within the block and requested approval for analysis of additional samples collected for graphite (15), iron (21), glauconite (12) and PGE (10), along with petrographic and mineragraphic studies.
- f. The agency also requested extension of the project timeline up to 28.02.2027 to complete the additional analytical work.
- g. The Committee reviewed the progress of work and recommended analysis of the additional samples for BIF (10 samples), graphite (15 samples), glauconite (12 samples) and PGE (10 samples).
- h. The Committee also recommended petrographic and mineragraphic studies of 5 samples.
- i. The Committee recommended extension of the project timeline up to 31.12.2026.

Recommendations of TCC-1:

The committee recommended revision of cost of project from Rs. 186.87 lakhs to Rs. 191.45 lakh with a change in amount of (+) Rs 4.58 lakhs (~2.45% escalation), for approval of PSC, NMEDT as per Annexure 9.

The Committee also recommended timeline extension upto 31.12.2026 for approval of PSC of NMEDT. Extension of timeline is recommended for completion of additional analysis and submission of GR.

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Cost Estimate of Reconnaissance Survey (G-4 Stage Exploration) for Gold & associated minerals in Parma Block, District: Singrauli, State: Madhya Pradesh

Total Area - 133.00 sq km; Scout Boreholes: 5 Nos, Average Depth: 80 m Completion Time -10 Months

S.N	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Revised Cost		Revised Cost		Remarks
			SoC-Item -Sl No.	Rates as per SoC	Qty.	Total Amount (Rs)	Qty.	Total Amount (Rs)	Qty.	Total Amount (Rs)	
A	GEOLOGICAL WORK										
a	Charges for Geologist at HQ for data processing and GR	day	1.3	9,000	60	540,000	60	540,000	60	540,000	60 days-HQ-data processing & 20 days-Remote sensing studies
b	Charges for Geologist at field for LSM mapping at 1:12500 scale, Surface sampling, trenching and Scout Drilling	day	1.2	11,000	180	1,980,000	180	1,980,000	180	1,980,000	moderate hilly terrain with forest cover
c	Labour Charges for Geologist at Field	day	5.7	526	360	189,360	360	189,360	360	189,360	
d	Charges for Sampler for geochemical, channel, Pit and BH Core Samples	one sampler per day	1.5.2	5,100	70	357,000	70	357,000	70	357,000	
e	Labour Charges for Sampling Work	day	5.7	526	280	147,280	280	147,280	280	147,280	
	Sub-Total A					3,213,640		3,213,640		3,213,640	
B	TRENCHING										

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a	Trenching	Cu m	2.1.1	3,330	150	499,500	150	499,500	150	499,500	
	Sub-Total B					499,500		499,500		499,500	
C	DRILLING										
1	Core Drilling up to depth of 300m - Hard Rock	m	2.2.1.4a	11,500	500	5,750,000	500	5,750,000	500	5,750,000	
2	Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS (including charges for labours deployed for the work)	Per point of observation	1.6.2	19,200	5	96,000	5	96,000	5	96,000	5 Nos of Scout BHs
3	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	20,000	5	100,000	5	100,000	5	100,000	
4	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7a	2,000	5	10,000	5	10,000	5	10,000	
5	Transportation of Drill Rig & Truck associated per drill	Km	2.2.8	36	1,200	43,200	1,200	43,200	1,200	43,200	Approx 1200 km to & fro from Nagpur/ Rig
6	Monthly Accommodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	3	150,000	3	150,000	3	150,000	
7	Drilling Camp Setting Cost	Nos	2.2.9a	250,000	1	250,000	1	250,000	1	250,000	

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8	Drilling Camp Winding up Cost	Nos	2.2.9b	250,000	1	250,000	1	250,000	1	250,000	
9	Road Making (Flat Terrain)	Km	2.2.10a	22,020	4	88,080	4	88,080	4	88,080	
10	Drill Core Preservation	Per m	5.3	1,590	200	318,000	200	318,000	200	318,000	
	Sub-Total C					7,055,280		7,055,280		7,055,280	
D	Geophysical Survey										
1	I.P. cum Resistivity, S.P., Magnetic (8-10 L.Km)	8-10 L.Km	3.4b	1,448,693	1	1,448,693	1	1,448,693	1	1448693	
	Geophysicist Party days (HQ)	per day	3.18	9,000	30	270,000	30	270,000	30	270000	
	Sub-Total D					1,718,693		1,718,693		1,718,693	
E	LABORATORY STUDIES										
1	<u>Chemical Analysis</u>										
	Primary Samples Surface + Trench + BH Core Samples)										
i)	Primary samples										
	For Gold by Fire Assay	Nos	4.1.5a	2,380	300	714,000	105	249,900	105	249,900	26th TCC suggested to restrict gold analysis 105nos
	For Ni, Cr, Co, Mo, Cu, Pb, Zn, Bi, Ge, V, Sc, Ti and Ga by AAS (13 radicals)	Nos	4.1.7a & 7b	5,186	150	777,900	150	777,900	150	777,900	

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	PGE analysis by ICPMS Ni-S Fire assay technique	Nos	4.1.5d	11,800	20	236,000	60	708,000	70	826,000	10 nos channel additional samples
	External check samples (10%)									-	
	For Gold by Fire Assay	Nos	4.1.5a	2,380	30	71,400	11	26,180	11	26,180	
	For Ni, Cr, Co, Mo, Cu, Pb, Zn, Bi, Ge, V, Sc, Ti and Ga by AAS (13 radicals)	Nos	4.1.7a & 7b	5,186	15	77,790	15	77,790	15	77,790	
ii)	Trace elemental Analysis (34 elements ICP-MS)	Nos	4.1.13	7,731	20	154,620	20	154,620	20	154,620	
iv)	Whole Rock Analysis for Major Oxides and trace eleemnts by XRF technique	Nos	4.1.15a & 15b	7,147	20	142,940	20	142,940	42	300,174	10 samples for BIF and 10 for Glauconite added
	Proximate analysis of Graphite	Nos	4.1.18	3,614	-	-	-	-	15	54,210	Since the component is added, the cost is as per new SoC
2	<u>Physical & Petrological Studies</u>									-	
i)	Preparation of thin section	Nos	4.3.1	2,353	10	23,530	10	23,530	15	35,295	5 additional samples
ii)	Complete petrographic study report	Nos	4.3.4	4,232	10	42,320	10	42,320	15	63,480	
iii)	Preparation of polish section	Nos	4.3.2	1,549	10	15,490	10	15,490	10	15,490	

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iv)	Complete mineragraphic study report	Nos	4.3.4	4,232	10	42,320	10	42,320	10	42,320	
v)	Digital Photographs	Nos	4.3.7	280	10	2,800	20	5,600	25	7,000	
vi)	Sp. Gravity	Nos.	4.8.1	3,540	5	17,700	5	17,700	5	17,700	
	Sub-Total -E					2,318,810		2,284,290		2,648,059	
E	Total A to E					14,805,923		14,771,403		15,135,172	
F	Geological Report Preparation	5 Hard copies with a soft copy	5.2	For the projects having cost less than Rs 300 Lakh, A minimum of Rs 7.50 Lakh or 3% of the work whichever more and Rs 3000/- per each additional copy		740,296		738,570		756,759	
G	Peer review Charges		As per EC decision			30,000		30,000		30,000	
H	Preparation of Exploration Proposal	5 Hard copies	5.1	2% of the Cost		296,118		296,118		302,703	

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	(5 Hard copies with a soft copy)	with a soft copy		or Rs. 5.00 Lakhs whichever is lower							
I	Total Estimated Cost without GST					15,872,338		15,836,092		16,224,634	
J	Provision for GST (18% of I)	%				2,857,021		2,850,496		2,920,434	GST will be reimburse as per actual and as per notified prescribed rate
K	Total Estimated Cost with GST					18,729,358		18,686,588		19,145,068	
or Say Rs. , In Lakhs:						187.29		186.87		191.45	
								Change in cost (in Lakhs)		4.58	
Note:										2.45% Escalation	
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.										
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.										
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and 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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Agenda 104.5.21. Preliminary exploration (G3) for Aluminous Laterite, Vanadium and Associated Minerals (V, Ga & REE) in Kallar block, Kasaragod District, Kerala.

[Implementing Agency: MECL]

- a. MECL informed that the project was approved in the 43rd EC Meeting held on 14th August, 2025. The Sanction Order was issued on 8th September, 2025 with timeline of 10 months (up to 07.07.2026) and approved cost was INR 1,22,71,923/-. Timeline was extended upto 31.08.2026 by PSC in its 9th meeting.
- b. The block was earlier reviewed in the 93rd and 96th TCC-I meetings, wherein drilling of 9 boreholes was approved by TCC. The cost of the project was revised to INR 1,15,13,164/- due to change in drilling from in-house to outsource.
- c. The agency informed that drilling is being outsourced. The first tender received no participation, and the tender was re-floated, with the bid scheduled to be opened on 17.09.2026.
- d. The agency requested an extension of the project timeline up to 28.02.2027.
- e. The Committee agreed to recommend an extension of the project timeline up to 31.01.2027 for completion of work and submission of GR.

Recommendations of TCC-1:

The Committee recommended an extension of the project timeline up to 31.01.2027 for approval of PSC, NMEDT. The recommendation is for completion of drilling, pending analyses and submission of the Geological Report.

Agenda 104.5.22. Preliminary Exploration (G-3) for Copper and Associated Minerals in Jaridih Pipradih Block, District- Giridih, Jharkhand.

[Implementing Agency: MECL]

- a. MECL informed that the project was approved in the 38th EC Meeting held on 29th November, 2024. The Sanction Order was issued on 13th December, 2024 with timeline of 15 months (up to 14.03.2026) and approved cost was INR 4,00,21,310/-. Timeline was extended upto 11.09.2026 by PSC in its 7th meeting.
- b. The Committee noted that the block was earlier reviewed in the 25th TCC-II meeting, wherein drilling was limited to four boreholes.
- c. The agency informed that detailed geological mapping (3.05 sq. km at 1:2000 scale), surface sampling (110 samples), SP and resistivity survey (30-line km), trenching, and drilling of 405 m in four boreholes (MJP-01 to MJP-04) have been completed, along with the requisite analyses.
- d. Borehole MJP-02 intersected a mineralised zone of 2.41 m true thickness (39.72–43.00 m) grading 0.16% Cu, 1.32% Pb and 2.41% Zn.
- e. Based on the exploration results, an inferred resource (UNFC 333) of 18,705.81 t has been estimated; however, the mineralisation appears to be localised and sporadic in nature.
- j. The agency informed that the Geological Report (GR) is ready for peer review and requested nomination of a Peer Reviewer. The Committee advised that the Peer Reviewer be nominated by NMEDT and that the GR be sent for peer review.

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- f. The agency further requested an additional two months for submission of the Final Geological Report after incorporating the comments/suggestions of the Peer Reviewer.
- g. The Committee recommended extension of the project timeline up to 15.11.2026.

Recommendations of TCC-1:

The Committee recommended an extension of the project timeline up to 15.11.2026 for approval of PSC, NMEDT. The recommendation is for submission of the Geological Report.

Agenda 104.5.23. Reconnaissance survey (G4) for Lithium, Niobium, Tantalum, Titanium & REE Minerals in and around Bengpal–Ellingnar Kumakoleng Block, Sukhma, and Bastar Districts, Chhattisgarh

[Implementing Agency: UEIPL]

- a. The agency did not present the progress and request for review in next TCC meeting.

Recommendations of TCC-1:

The agency did not present the progress.

Agenda 104.5.24. Reconnaissance survey for Nickel, Cobalt, PGE and Chromium in and around Lungher and Sihai area, Ukhrul district, Manipur

[Implementing Agency: UEIPL]

- a. UEIPL informed that the project was approved in the 35th EC Meeting held on 16th May, 2024. The Sanction Order was issued on 6th June, 2024 with timeline of 12 months (up to 05.06.2025) and approved cost was INR 1,16,27,890/-. Timeline was extended upto 05.02.2026 by EC in its 42nd meeting and 05.06.2026 by PSC in its 3rd meeting.
- b. The agency informed that geological mapping at 1:12,500 scale has been completed over 15.25 sq. km against 34 sq. km, along with collection of 91 stream sediment, 21 soil and 59 bedrock samples, petrographic study of 26 samples and geochemical analysis of 71 samples. Overall, about 45% of the approved work has been completed.
- c. Ni values range from 69–5,165 ppm in soil and 55–3,847 ppm in stream sediments, while Cr values in soil range from 105–4,977 ppm.
- d. The agency informed that the Ni and Cr enrichment is mainly associated with ultramafic (peridotite) units of the ophiolite suite.
- e. The agency informed that the remaining work could not be completed due to local resistance from Sihai Khullen village and that, in view of the prevailing situation in Manipur, entry into the project area for field activities is presently not advisable. The agency requested an extension of the project timeline.
- f. The Committee noted the promising Ni and Cr values reported from the area and advised the agency to examine the possibility of supergene enrichment of Ni.
- g. The Committee advised the agency to initiate the remaining field activities at the earliest, subject to prevailing local conditions.
- h. The Committee advised the agency to carry out petrographic studies and to define the supergene enrichment of Ni and establish the presence and nature of Ni–Cr mineralisation.
- i. The Committee recommended extension of the project timeline up to 31.03.2027, subject to the following conditions:

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- (i) if the approved work is not completed or substantially progressed during the extended period, the project may be force-closed; and
- (ii) any development or change in the prevailing situation affecting field activities shall be promptly communicated to the NMEDT Secretariat.

Recommendations of TCC-1:

The Committee recommended an extension of the project timeline up to 31.03.2027 for approval of PSC, NMEDT. The recommendation is for completion of work and submission of the Geological Report.

Agenda 104.5.25. Preliminary Exploration for Nickel, Cobalt, Chromium & PGE minerals in Gamnom Block, Kamjong District, Manipur

[Implementing Agency: UEIPL]

- a. UEIPL 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 18 months (up to 05.07.2026) and approved cost was INR 6,11,99,849/-.
- b. The agency informed that fieldwork could not be initiated due to the fluctuating law and order situation and non-receipt of forest permission. The forest clearance proposal (Form-C, Part I) submitted on 12.03.2026 was recommended by the DFO on 21.03.2026 and is presently under consideration of the Additional PCCF (Nodal), Manipur; NOCs from local villages and the Forest Department are also under process.
- c. The agency informed that it has been advised not to enter the project area at present and expects the forest clearance by the end of September 2026.
- d. In view of the above constraints, the agency requested extension of the project timeline by one year, up to July 2027.
- e. The Committee noted that the fieldwork has not yet commenced and recommended extension of the project timeline by five months, up to 31.03.2027.
- f. The Committee observed that, if the agency is unable to execute the project within the extended period, the project may be foreclosed.
- g. The Committee advised the agency to communicate any developments regarding forest clearance and subsequent progress of the project to NMEDT.

Recommendations of TCC-1:

The Committee recommended extension of the project up to 31.03.2027 for approval of PSC of NMEDT.

If the agency is unable to execute the project within the extended period, the project may be foreclosed. The agency shall communicate any developments regarding the forest clearance and the progress of the work to NMEDT.

Agenda 104.5.26. Reconnaissance Survey (G4) for Graphite and associated Minerals in Mankota North Area, District: Upper Siang, Arunachal Pradesh

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

- a. The agency informed that the project was approved in the 6th PSC Meeting held on 02nd March, 2026. The Sanction Order was issued on 26th March, 2026 with timeline of 6 months (up to 25.09.2026) and approved cost was INR 75,90,079/-.

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- b. The agency informed that geological mapping at 1:12,500 scale has been completed over 5 sq. km and 12 BRS samples have been collected and analysed, with fixed carbon (FC) values of up to 9.43%.
- c. Graphite occurrences were reported within garnetiferous staurolite-biotite graphite schist, particularly near the eastern boundary of the block and along Singa Nala.
- d. The agency informed that the remaining geological mapping could not be completed due to difficult terrain, the rainy season and the presence of poisonous snakes and insects.
- e. The agency further informed that, owing to the above field conditions, the local community advised stoppage of mapping activities, and that the remaining mapping would be resumed from 01.10.2026.
- f. The agency requested an extension of the project timeline up to 10.02.2027 to complete the remaining work.
- g. The Committee recommended extension of the project timeline up to 10.02.2027.
- h. The Committee advised the agency to carry out the remaining geological mapping along with systematic collection of channel samples from the graphite-bearing zones.

Recommendations of TCC-1:

The Committee recommended an extension of the project timeline up to 10.02.2027 for approval of PSC, NMEDT. The recommendation is for completion of work and submission of the Geological Report.

Agenda 104.5.27. Preliminary exploration (G3) for Graphite in the Patra graphite block, Jhabua district, Madhya Pradesh.

[Implementing Agency: MPSPMC]

- a. The Committee observed that the project has consistently been reviewed in TCC-II meetings and, therefore, considered that its review at TCC-I at this stage would not be appropriate.
- b. Accordingly, the Committee deferred the review of the project to TCC-II.

Recommendations of TCC-1:

The committee deferred the review of project to TCC-II of NMEDT.

Agenda 104.5.28. Preliminary exploration (G3) for PGE and Associated mineral in Mordongri-Jamtara Block in Chhindwara district, Madhya Pradesh.

[Implementing Agency: M/s MPSPMC]

- a. The Committee observed that the project has consistently been reviewed in TCC-II meetings and, therefore, considered that its review at TCC-I at this stage would not be appropriate.
- b. Accordingly, the Committee deferred the review of the project to TCC-II.

Recommendations of TCC-1:

The committee deferred the review of project to TCC-II of NMEDT.

Agenda 104.5.29. Reconnaissance survey (G4) for Phosphorite in Bijawar-Imiliya block, Chhattarpur district, Madhya Pradesh

[Implementing Agency: MPSPMC]

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- a. The Committee observed that the project has consistently been reviewed in TCC-II meetings and, therefore, considered that its review at TCC-I at this stage would not be appropriate.
- b. Accordingly, the Committee deferred the review of the project to TCC-II.

Recommendations of TCC-1:

The committee deferred the review of project to TCC-II of NMEDT.

Agenda 104.5.30. Preliminary Exploration (G3) for Bauxite, Vanadium, Gallium and associated minerals around Patgaon and Somlewadi villages (Patgaon Block), Sindhudurg district, Maharashtra.

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

- a. The agency informed that the project was approved during 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 2,28,15,398/-
- b. The project was reviewed in the 98th, 100th and 102nd TCC-I Meeting, wherein DGM, Maharashtra informed the Committee that the District Collector had issued written directions to discontinue the project due to local agitation.
- c. The committee had instructed the agency as well as DGM to provide the copy of communication that DC has made.
- d. State DGM has provided the copy of communication received from DC.
- e. The committee agreed for pre-closure of the project. The committee also recommended extension of timeline upto 15.10.2026 for submission of GR of the work carried out.

Recommendations of TCC-1:

The committee recommended pre-closure of project due to intense local agitation.

The committee recommended revision of cost of project from Rs. 228.51 lakhs to Rs. 4.49 lakh with a change in amount of (-) Rs 224.02 lakhs (~98.03% de-escalation), for approval of PSC, NMEDT as per Annexure 10.

The Committee also recommended timeline extension upto 15.10.2026 for approval of PSC of NMEDT. Extension of timeline is recommended for submission of GR.

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Annexure 10

Cost Estimates for Preliminary Exploration (G3) for Bauxite, Vanadium, Gallium and associated minerals around Patgaon and Somlewadi villages (Patgaon Block), Sindhudurg district, Maharashtra.
Total Area - 7.0 Sq. Km; Drilling- 40 BH,800m, Completion Time - 12 Months, Review: after 4 & 8 months

S. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Revised Qty.	Revised Amount	Remarks
			SoC-Item -Sl No.	Rates as per SoC	Qty.	Total Amount (Rs)			
A	Geological Mapping Other Geological Work & Surveying								
	Geological mapping, (1:4,000 scale)								
i	a. Charges for Geologist per day (Field)	day	1.3	11,000	140	1,540,000	22	242,000	11 days field work x 2 geol.s
ii	b. Labours Charges; Base rate	day	5.7	541	280	151,480	44	23,804	
	c. Charges for Geologist per day (HQ)	day	1.3	9,000	40	360,000	0	-	
	d. Charges for one Sampler per day (1 Party)	one sampler per day		5,100	105	535,500	0	-	
	Labours Charges; Base rate	day	5.7	541	420	227,220	0	-	
	Sub Total- A					2,814,200		265,804	
C	Survey work								

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a	Surveyor for topographic survey/DGPS Survey and for BH fixation & RL determination	Per Point of observation	1.6.2	19,200	44	844800	0	-	
b	Charges of Surveyor (1 party) for topographic mapping in 1:4000 scale	one surveyor per day	1.6.1a	8,300	30	249000	11	91,300	11 survey man days
c	Labours Charges for survey work(4 labourers)	day	5.7	541	120	64920	44	23,804	
	Sub-Total C					1,158,720		115,104	
E	DRILLING								
1	Drilling in medium hard rock 20 m,or upto bedrock whichever is occuring first (42 BH *20)	m	2.2.1.3a	10,100	800	8,080,000	0	-	
2	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH					0	-	
3	Transportation of Drill Rig & Truck associated per drill (1 rigs)	Km	2.2.8	36	#####	36,720	0	-	
4	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month	2.2.9	50,000	5	250,000	0	-	
5	Drilling Camp Setting Cost	Nos	2.2.9a	#####	1	250,000	0	-	
6	Drilling Camp Winding up Cost	Nos	2.2.9b	#####	1	250,000	0	-	
7	Drill core Preservation	m	5.3	1,590	800	1,272,000	0	-	
	Sub Total E					10,138,720		0	
G	LABORATORY STUDIES								
1	Chemical Analysis								
v)	BH Core samples								

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	Primary Sample for major oxides and LOI by XRF technique	Nos	4.1.15a	4,200	640	2,688,000	0	-	
	10 % Check Sample for major oxides and LOI by XRF technique	Nos	4.1.15a	4,200	64	268,800	0	-	
	b.Primary samples For REE ,Ga,V ,Sc,Y,Nb,Ta,Li and other Trace elements : by ICPMS 34 elements : by ICPMS	Nos	4.1.14	7,731	100	773,100	0	-	
	check samples For REE ,Ga,V ,Sc,Y,Nb,Ta,Li and other Trace elements : by ICPMS 34 elements : by ICPMS	Nos	4.1.15	7,731	10	77,310	0	-	
	Combined determination of Trihydrate Alumina(THA-140°C), Monohydrate Alumina(MHA-240°C)& Reactive Silica	Nos	4.1.17a	6,700	5	33,500	0	-	
	Determination of Trihydrate Alumina (THA-140°C)	Nos	4.1.17b	2,000	5	10,000	0	-	
	Determination of Monohydrate Alumina(MHA-240°C)	Nos	4.1.17c	3,500	5	17,500	0	-	
	Determination of Reactive Silica	Nos	4.1.17d	1,500	5	7,500	0	-	
	Determination of Bond Work Index	Nos	4.1.17e	10,000	5	50,000	0	-	
2	<u>Physical & Petrological Studies</u>							-	
i	Preparation of thin section	Nos	4.3.1	2,353	10	23,530	0	-	
iii	Preparation of polished section	Nos	4.3.3	1,185	10	11,850	0	-	
ii	petrographic/ore microscopic study	Nos	4.3.4	4,232	20	84,640	0	-	
v	Digital Photographs	Nos	4.3.7	280	20	5,600	0	-	

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	XRD	Nos	4.5.1	4,000	10	40,000	0	-	
	Determination of insitu bulk density	Nos	4.1	3,540	5	17,700	0	-	
	Sub Total G					4,109,030		0	
H	Total A to H					18,220,670		380,908	
I	Geological Report Preparation	5 Hard copies with a soft copy	5.2	Exploration cost exceeding 150 lakh but less than 300 lakh : A Minimum of ₹7.5 lakh or 3% of the work whichever is more		750,000	0	-	Only 3 sq. km of mapping was done. These charges hence not considered.
J	Peer review Charges		As per EC decision			30,000	-	-	
K	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is less		364,413	0	0	
L	Total Estimated Cost without GST					19,365,083		380,908	
M	Provision for GST (18% of J)					3,485,715		68,563	
N	Total Estimated Cost with GST					22,850,798		449,471	
				or Say Rs. In Lakhs		228.51		4.49	

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						Change in amount (in lakh)	224.02	
Note:							98.03% de-escalation	
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.							
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.							
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and 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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Agenda 104.5.31. Preliminary Exploration (G-3) for Bauxite, Vanadium, Gallium and associated minerals around Pendhri village (Pendhri Block), Sindhudurg District, Maharashtra.

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

- a. The agency informed that the project was approved during 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 2,26,33,992/-
- b. The project was reviewed in the 98th, 100th and 102nd TCC-I Meeting, wherein DGM, Maharashtra informed the Committee that the District Collector had issued written directions to discontinue the project due to local agitation.
- c. The committee had instructed the agency as well as DGM to provide the copy of communication that DC has made.
- d. State DGM has provided the copy of communication received from DC.
- e. The committee agreed for surrender of the project as the project could not be initiated. The committee also recommended extension of timeline upto 15.10.2026.

Recommendations of TCC-1:

The committee recommended surrender of project due to intense local agitation.

The Committee also recommended timeline extension upto 15.10.2026 for approval of PSC of NMEDT.

Agenda 104.5.32. Reconnaissance Survey (G-4) For Diamond in Part of a Palaeo-Channel in Krishna Basin near Mangalagiri, Guntur Dist, Andhra Pradesh

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

- 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. The cost was further revised to 2,01,75,306.34/- during 12th meeting of PSC. Timeline was also extended upto 30.06.2026 and 31.08.2026 during 3rd and 10th PSC meetings respectively.
- c. The agency informed the committee that GR has been submitted.
- d. The agency sought approval for the lower core recovery observed in the block (approximately 80%). Upon review, it was noted that the rock type in the area is inherently unsuitable for achieving high core recovery.
- e. The committee accepted the resource estimation at lower (approximately 80%) core recovery.

Recommendations of TCC-1:

The committee accepted the lower (approximately 80%) core recovery.

Agenda 104.5.33. Reconnaissance Survey, G-4 for Graphite and associated mineralization in Phandka-Ghatakhera Area, Betul District, Madhya Pradesh

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[Implementing Agency: M/s Vardan Environet LLP.]

- a. The agency informed that the project was approved in the 1st PSC Meeting held on 9th October, 2025. The Sanction Order was issued on 13th November, 2025 with timeline of 10 months (up to 12.09.2026) and approved cost was INR 2,11,15,804/-.
- b. The agency informed that geological mapping (23.17 sq. km at 1:12500 scale), SP survey (30-line km), and trenching (103 cu. m in five trenches) have been completed.
- c. The agency further informed that 570 m of drilling against the approved 600 m and 380 m of borehole geophysical logging against 600 m have been completed.
- d. Graphite schist bands of 1–15 m thickness, with FC values of approximately 3.5–10.4%, have been delineated, while trenching exposed graphite schist up to 16.08 m in thickness.
- e. The agency informed that analytical results of the surface samples have been received, whereas the analytical results of the borehole samples are still awaited.
- f. In view of the pending borehole analytical results, the agency requested an extension of the project timeline by three months.
- g. The committee reviewed the progress of work and agreed for extension of timeline upto 15.11.2026.

Recommendations of TCC-1:

The Committee also recommended timeline extension upto 15.11.2026 for approval of PSC of NMEDT. Extension of timeline is recommended for submission of GR.

Agenda 104.5.34. Preliminary Exploration (G3) for REE and Associated Critical Minerals in NB-15 Block (2.00 sq. km.) in the northern part of the Siwana Ring Complex, Balotra District, Rajasthan.

[Implementing Agency: M/s Ocean Drilling.]

- a. The agency informed that the project was approved in the 3rd PSC Meeting held on 15th December, 2025. The Sanction Order was issued on 9th January, 2026 with timeline of 12 months (up to 08.01.2027) and approved cost was INR 6,21,44,384/-.
- b. The agency apprised the Committee that the drilling plan for Phase-II drilling is yet to be approved and informed that the drilling rig has already been deployed at the project site and is presently idle.
- c. The Committee advised that the agency may commence drilling in the immediate vicinity of the existing boreholes so as to avoid idling of the deployed rig and maintain continuity of the exploration programme.
- d. The Committee further advised that the detailed drilling plan and approval of the remaining Phase-II boreholes would be discussed and considered in the forthcoming Joint Meeting of TCC-I and TCC-II.

Recommendations of TCC-1:

The committee approved the drilling of next borehole and suggested the agency to present the work for review of progress of work in upcoming meeting of Joint TCC-1 and TCC-2.

Agenda 104.5.35. Preliminary Exploration (G3) for Limestone in Shantipara A Block, Junagadh District, Gujarat" (1.49 sq. km).

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[Implementing Agency: M/s MAPL]

- a. The agency informed that the project was approved in the 8th PSC Meeting held on 30th April, 2026. The Sanction Order was issued on 11th May, 2026 with timeline of 6 months (up to 10.11.2026) and approved cost was INR 66,17,172/-.
- b. The agency informed that geological mapping at 1:4,000 scale has been completed over 1.49 sq. km. The area is largely covered by alluvium and agricultural land, and due to limited surface exposures, only 5 out of the 20 approved BRS samples could be collected.
- c. Of the samples analysed, four limestone samples recorded CaO of 51.93–53.80%, with low MgO (0.34–0.50%), SiO₂ (1.20–3.17%), Fe₂O₃ and Al₂O₃, indicating high-calcium, low-magnesium limestone. The remaining sample was identified as ferruginous/aluminous lateritic material.
- d. The agency informed that the DGPS survey commenced on 28.07.2026 but was suspended on 31.07.2026 due to resistance from villagers. The survey remains partially completed, and the approved 210 m drilling has not yet commenced.
- e. Despite repeated discussions and intervention by the CGM, Gujarat and the Additional District Collector, Junagadh, no resolution has been reached with the villagers of Shantipara and Januda, and exploration activities remain temporarily suspended.
- f. The Committee advised the agency to continuously monitor and follow up on the progress towards resolution of the issue between the villagers and the District Administration.
- g. In view of the limited progress achieved by the agency, the Committee deferred further review of the project to the forthcoming TCC meeting.

Recommendations of TCC-1:

In view of the limited progress achieved by the agency, the Committee deferred further review of the project to the forthcoming TCC meeting.

Agenda 104.5.36. Preliminary Exploration (G3) for Limestone in Shantipara B Block, Junagadh District, Gujarat” (1.76 sq. km).

[Implementing Agency: M/s MAPL]

- a. The agency informed that the project was approved in the 8th PSC Meeting held on 30th April, 2026. The Sanction Order was issued on 11th May, 2026 with timeline of 6 months (up to 10.11.2026) and approved cost was INR 63,65,241/-.
- b. The agency informed that geological mapping at 1:4,000 scale has been completed over 1.76 sq. km, and all 20 approved BRS samples have been collected and analysed. The limestone occurs as nearly horizontal, laterally persistent beds and has been classified into lower limestone, middle impure limestone and upper pure limestone units.
- c. The analysed samples recorded CaO of 48.22–54.25%, with low MgO (0.27–0.97%), Fe₂O₃ (0.22–2.36%), Al₂O₃ (0.35–3.17%) and SiO₂ (0.18–5.42%), indicating predominantly high-calcium, low-magnesium limestone. Results of two check samples are awaited.
- d. The agency informed that the topographic survey and approved drilling of 180 m have not yet commenced due to objections from the Sarpanchs and villagers of Shantipara and Januda.

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- e. Despite discussions with the CGM, Gujarat and Additional District Collector, Junagadh, no resolution has been reached, and the exploration activities remain temporarily suspended.
- f. The Committee advised the agency to continuously monitor and follow up on the progress towards resolution of the issue between the villagers and the District Administration.
- g. In view of the limited progress achieved by the agency, the Committee deferred further review of the project to the forthcoming TCC meeting.

Recommendations of TCC-1:

In view of the limited progress achieved by the agency, the Committee deferred further review of the project to the forthcoming TCC meeting.

Agenda 104.5.37. Preliminary Exploration (G3) for Limestone in Lambora Block, Junagadh District, Gujarat” (9.97 sq. km)

[Implementing Agency: M/s MAPL]

- a. The agency informed that the project was approved in the 8th PSC Meeting held on 30th April, 2026. The Sanction Order was issued on 11th May, 2026 with timeline of 10 months (up to 10.03.2027) and approved cost was INR 1,06,24,660/-.
- b. The agency informed that geological mapping at 1:4,000 scale has been completed over 9.97 sq. km, and all 30 approved BRS samples have been collected and analysed. The limestone occurs as laterally persistent, nearly horizontal, fossiliferous beds, probably underlain by Deccan Trap basalt.
- c. The analysed samples recorded CaO of 42.95–54.21%, with low MgO (0.23–0.52%), Al₂O₃ (0.39–2.16%) and Fe₂O₃ (0.58–4.83%), while SiO₂ ranges from 0.61–17.85%, indicating predominantly good-quality limestone. Results of three check samples are awaited.
- d. The agency informed that the DGPS survey commenced on 28.07.2026 but was suspended on 03.08.2026 due to stiff resistance from villagers, and the approved 300 m drilling has not yet commenced.
- e. The Sarpanchs of Lambora, Chotlividi, Kotda Juna and Virpur submitted written representations against the exploration to the Mamlatdar, Mangrol on 05.08.2026, and the field team was physically obstructed by the villagers.
- f. Despite repeated discussions and intervention by the CGM, Gujarat and the Additional District Collector, Junagadh, no resolution has been reached with the villagers and exploration activities remain temporarily suspended.
- g. The Committee advised the agency to continuously monitor and follow up on the progress towards resolution of the issue between the villagers and the District Administration.
- h. In view of the limited progress achieved by the agency, the Committee deferred further review of the project to the forthcoming TCC meeting.

Recommendations of TCC-1:

In view of the limited progress achieved by the agency, the Committee deferred further review of the project to the forthcoming TCC meeting.

Agenda 104.5.38. Preliminary Exploration (G3) for Limestone in Mankhetra Block, Junagadh District, Gujarat” (8.903 sq. km).

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[Implementing Agency: M/s MAPL]

- a. The agency informed that the project was approved in the 8th PSC Meeting held on 30th April, 2026. The Sanction Order was issued on 11th May, 2026 with timeline of 10 months (up to 10.03.2027) and approved cost was INR 1,06,31,308/-.
- b. The agency informed that geological mapping at 1:4,000 scale has been completed over 8.903 sq. km. Due to extensive alluvium, vegetation and agricultural cover, only 11 of the 30 approved BRS samples could be collected from isolated exposures.
- c. The analysed samples recorded CaO of 43.53–51.51%, with low MgO (0.33–0.76%) and Al₂O₃ (1.04–2.16%), while SiO₂ ranged from 3.67–13.80% and Fe₂O₃ from 0.59–11.61%. The result of one check sample is awaited.
- d. The agency informed that the topographic survey and approved drilling of 375 m have not commenced due to objections from the Sarpanchs and villagers.
- e. On 18.08.2026, around 400–500 villagers assembled at the Mamlatdar Office, Mangrol and submitted a written representation opposing the survey and exploration, with further protests and hunger strikes threatened if the work continued.
- f. Despite repeated discussions and intervention by the CGM, Gujarat and the Additional District Collector, Junagadh, no resolution has been reached with the villagers and exploration activities remain temporarily suspended.
- g. The Committee advised the agency to continuously monitor and follow up on the progress towards resolution of the issue between the villagers and the District Administration.
- h. In view of the limited progress achieved by the agency, the Committee deferred further review of the project to the forthcoming TCC meeting.

Recommendations of TCC-1:

In view of the limited progress achieved by the agency, the Committee deferred further review of the project to the forthcoming TCC meeting.

Agenda 104.5.39. Reconnaissance Survey (G4) for Aluminous laterite and associated critical minerals in Nakhare area, Ratnagiri District, Maharashtra.

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

- a. The agency informed that the project was approved in the 2nd PSC Meeting held on 11th November, 2025. The Sanction Order was issued on 4th December, 2025 with timeline of 10 months (up to 03.10.2026) and approved cost was INR 1,03,26,771/-.
- b. The agency informed that geological mapping has been completed over 41.63 sq. km against 76 sq. km, with 44 BRS/channel samples and 26 pit samples collected; 71 samples have been analysed by XRF and ICP-MS.
- c. Preliminary results indicate V of 2,390–3,120 ppm, Al₂O₃ of 33.67–50.19%, Ga of 170–270 ppm, Cr of 710–1,130 ppm and TiO₂ up to 5%. The approved 150 m drilling has not yet commenced.
- d. The agency informed that, during the 67th SGPB meeting, the State Secretary assured that the issues related to local agitation would be addressed by the State Government. However, the agency has not made any written communication with the State Government in this regard.
- e. The agency requested for extension of timeline for completion of project.

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- f. The Committee observed that only about 40% of the approved geological mapping has been completed and that no progress has been made during the past five months.
- g. The Committee recommended extension of the project timeline up to 03.01.2027 and observed that, if the approved work is not completed by the extended timeline, the project may be suspended.

Recommendations of TCC-1:

The Committee recommended timeline extension upto 03.01.2027 for approval of PSC of NMEDT. Extension of timeline is recommended for drilling, completion of work and submission of GR.

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Annexure- 11

List of participants who attended the 104th Meeting of Technical-cum-cost Committee (TCC-I) of NMEDT held on 15th, 16th & 17th September, 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. K. Koteswara Rao	Dy. Director General (Retd.), GSI	kkrao1957@gmail.com	9000117969	Member TCC-1
4	Shri. M. Mohan	Dy. Director General (Retd.), GSI	mariappan.mohan@gmail.com	9423686547	Member TCC-1
5	Dr. E.V.S.S.K. Babu	Scientist (G), NGRI	evsskbabu@ngri.res.in	9441535852	Member TCC-1
6	Shri A. R. Mukundhan	Regional Director, AMD, South Central Region	mukuagaram@rediffmail.com	6303606347	Member TCC-1
7	Sh. S K Adhikari	Chief Mining Geologist, IBM, Nagpur	skadhikari@ibm.gov.in	7588690545	Member TCC-1
8	Smt. Vandana	Cost Accounts Officer, RSAS, Bangalore, GSI	vandana@gsi.in	8660939235	Member TCC-1
9	Shri S Dhanendran	Director, GSITI & Member Secretary, TCC-I	s.dhanendran@gsi.gov.in	9944882204	Member TCC-1
10	Sh. Paras Mahajan	Assistant Geologist	stategeologistchd@gmail.com	9814483208	DMG Punjab
11	O P Jangid	Suptdg.Geologist	adghq.mg@rajasthan.gov.in	7014276783	DMG Rajasthan
12	Budhaditya Biswas	Assistant Geologist	budhaditya.biswas401@gmail.com	7980371441	Directorate of Mines and Minerals, WB.
13	Shri Shrikant Sharma	HoD (Exploration)	shrikantsharma@mecl.gov.in	9131229758	MECL
14	Shri. Naveen Kumar Pala	DGM (Exploration)	naveenpala.mecl@gmail.com	7738368657	MECL
15	Shri S. K. Satapathy	Senior Manager (Geology)	sksatapathy4u@gmail.com	9993617090	MECL
16	Shri Swarup Dhara	Senior Manager (Geology)	swarupdhara@gmail.com	9630307282	MECL
17	Shri Ashish Singh	Senior Manager (Geology)	ashishsingh@mecl.gov.in	9929960301	MECL

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18	Shri Bhuneshwar Kumar	Manager (Geology)	bhuneshwarkumar@mecl.gov.in	9237063532	MECL
19	Md Intazar Alam	Manager (Geology)	intazar.geol1189@gmail.com	9483914347	MECL
20	Shri Sayandeep Chakraborty	Asst Manager (Geology)	Sayanchak2011@gmail.com	9038956935	MECL
21	Shri Saptarshi Ghosh	Manager (Geology)	saptarshighosh@mecl.co.in	7498632937	MECL
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