

Ministry of Mines
National Mineral Exploration and Development Trust
Minutes of the 102nd Technical-cum-Cost Committee-1 (TCC-1) Meeting
held on 11th to 13th August 2026 through video conferencing

The 102nd 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 11th to 13th August 2026. Members of TCC-1, NMEDT and representatives from DGM Chhattisgarh, CGM Gujarat, DMR Meghalaya, MECL, NRD-TATA, M/s Critical Mineral Trackers, M/s South West Pinnacle Exploration Limited, M/s BMRC Geomining Solutions Pvt. Ltd., M/s S and S Geological Consultants, M/s Vibrant Techno Lab Private Limited, M/s. MMPL Private Limited, OMC, M/s. Geo Marine Solutions Pvt. Ltd., M/s Mining Tech Consultancy Services Limited, M/s GeoExpOre Pvt. Ltd., M/s Hindmetal Exploration Services Private Limited, M/s Envirogreen Consultants (India) Pvt. Ltd., M/s Shijay Projects India Private Limited, M/s Ecomen Mining Pvt. Ltd. and M/s Siddharth Geo Consultant have attended the meeting through their respective VC modes.

The list of participants is enclosed in Annexure-20.

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 102.1: Technical Evaluation of New Project Proposals

Agenda 102.1.1. Reconnaissance Survey (G-4 Stage) for REE & Associated Mineralization in Vellaturu Area (Area: 96.30 Sq Km), District-NTR & Eluru, Andhra Pradesh

Proposal ID: ME/DD/G4/AP/MECL/26-27/009

[Implementing Agency: MECL]

- a. The proposed block falls within Survey of India Toposheet Nos. 65D/10 and 65D/14. The major lithological units exposed in the study area comprise garnetiferous sillimanite gneiss (Khondalites), migmatites and pyroxene granulites belonging to the Eastern Ghats Mobile Belt (EGMB). Quartz reefs/veins occur as intrusive bodies within the Khondalites.
- b. Geochemical Mapping (FS 2017-18) in Toposheet No. 65D/14 covered 558 stream sediment samples, with Σ REE values ranging from 93.88 to 1,700 ppm, LREE from 78.81 to 1,573.66 ppm and HREE from 8.88 to 67.40 ppm.
- c. Specialized Thematic Mapping (STM) (FS 2024-25) on 1:25,000 scale identified anomalous REE concentrations of 700-1,055 ppm, with maximum values occurring as secondary concentrations over garnet-sillimanite gneiss (Khondalites) of the EGMB.

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- d. Reconnaissance Survey for secondary REE enrichment (FS 2021–24) established that REE mineralisation occurs mainly as heavy minerals in stream sediments. SEM studies identified monazite, zircon and allanite as the principal REE-bearing mineral phases.
- e. The REE enrichment is interpreted as secondary/alluvial placer-type concentration resulting from weathering and erosion of heavy-mineral-rich garnet-sillimanite gneiss and quartzites of the Eastern Ghats Belt and Gondwana sandstones. Several prospective zones have been delineated for further exploration.
- f. The agency informed the Committee that 28 stream sediment samples were collected from the Vellaturu area under NGCM, of which 15 samples (54%) recorded TREE+Sc+Y values >1,000 ppm. The maximum LREE and HREE values were 1,684.88 ppm and 105.41 ppm, respectively, with Lanthanum (416.02 ppm) and Gadolinium (59.04 ppm) as the major contributors.
- g. In view of the encouraging exploration results, the agency proposed the block for G-4 stage Reconnaissance Survey to assess the resource potential of REE and RM, involving 1:12500 scale geological mapping, geochemical sampling, pitting/trenching, ground geochemical survey and exploratory drilling for resource assessment under UNFC 334 category.
- h. The Committee reviewed the proposal and observed that 10% of the proposed block overlaps with a G-4 stage block of GSI, which was later excluded by the agency. The area was reduced to 88.0 sq. km.
- i. Considering the existing information, stream sediment sampling and auger drilling were not considered necessary. However, a few oriented pits may be carried out to understand the distribution of REE in the regolith.
- j. The Committee recommended that the exploration be undertaken in two phases. Initially, the work comprises detailed geological mapping (LSM), bedrock sampling (BRS), oriented pitting and trenching. Based on the results and identification of encouraging mineralization/anomalies, exploratory drilling will be taken up in following phase.
- k. 22% of proposed area falls in recorded forest area.

Sl. No.	Agency	Brief Comments
1	GSI	Approximately 10% of the southern part of the proposed NPEA area overlaps with an approved G4 REE, Graphite & associated mineralization project of GSI. Hence, the overlapping area may be excluded to avoid duplication of work.
2	MECL	NA
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 a some portion fall in Recorded Forest Area (approx. 22%).

Recommendations of TCC-1:

The committee recommended the proposal titled “Reconnaissance Survey (G-4) for REE in Vellaturu Area, District- Ntr & Eluru, Andhra Pradesh” for approval of PSC, NMEDT with an estimated cost of Rs. 154.35 lakhs (including GST) with a timeline of 10 months for carrying out the proposed work and submission of report as per Annexure – 1A & 1B. The item will be reviewed after 5 and 8 months.

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Annexure 1A

Reconnaissance Survey (G-4) for REE in Vellaturu Area, District- Ntr & Eluru, Andhra Pradesh
Total block area- 88.0 sq km; Completion Time- 10 Months, Scout Drilling: 500m, Review: after 05 months & 8 months

Sl. No.	Item of Work	Unit	Rates as per NMET SoC 2025		Estimated Cost of the Proposal		Remarks
			SoC-Item- S. No.	Rates as per SoC	Qty.	Total Amount (Rs)	
A	GEOLOGICAL MAPPING						
i	Large Scale Mapping (1:12,500)	per sq km	1.1	18300	88.00	1,610,400	
	OTHER GEOLOGICAL WORK/ ACTIVITIES						
i	Charges for one Geologist- Field	per day	1.2.1a (b)	14500	45	652,500	
ii	Charges for one Geologist - HQ	per day	1.2.1a (a)	10500	40	420,000	
iii	2 labours/ party	per day	5.8	556	90	50,040	
iv	Sampling -1 Samplers	per day	1.2.1b	7850	35	274,750	
v	4 labours/ party	per day	5.8	556	140	77,840	
	Sub-Total A					3,085,530	
B	PITTING & TRENCHING						
	Pitting	per cu. m.	2.1.3	4725	50	236250	50 pits (1m*1m*1m) (Orientation pits)
	Sub-Total B					236250	
C	EXPLORATORY DRILLING (In House)						
i	Core Drilling in hard rock	per m	2.2.1.1d	10,000	500	5,000,000	
ii	Miscellaneous Charges	One time	2.2.9	25% of drilling Charges		1,250,000	
v	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7	2,000	8	16,000.0	

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vi	Borehole Plugging	Lumpsum per borehole	2.2.8	10000	8	80,000.0	
vii	Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS	per point of observation	1.3.2	24,000	8	192,000.0	
viii	Land/crop compensation	per borehole	5.6	30,000	8	240,000.0	as per actual
ix	Core preservation	Per m	5.3	1,590	200	318,000.0	
	Sub Total- C					₹ 7,096,000.00	
D	LABORATORY STUDIES						
1	Chemical Analysis						
i	Analysis of 14 REE & 9 trace element by ICP-MS sequential technique	per sample	4.1.15	7400	205	1517000	Bedrock: 85, Pit Samples: 30, Drill core Samples: 75, Heavy Mineral Concentration: 15
ii	External (10%) Check samples from NABL Lab of 14 REE & 9 trace elements by ICP-MS sequential technique	per sample	4.1.15	7400	20	148000	
iii	Major Oxides (WD XRF) (oxides + traces-24 elements)	per sample	4.1.17a	4200	10	42000	
iv	Proximate Analysis		4.1.18	3614	65	234910	
v	Proximate Analysis		4.1.18	3614	6	21684	
2	Physical & Petrological Studies						
i	XRD analysis for identification of mineral phase	per sample	4.5.2	4000	10	40000	
ii	Preparation of polished section	per sample	4.3.2	800	5	4000	
iii	Complete mineragraphic study report	per sample	4.3.4	2800	5	14000	
iv	EPMA studies	Hrs	4.4.1	10500	10	105000	
v	Density studies (BH core)	Per Sample	4.8.3	2500	2	5000	

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	Sub-Total D					2,131,594	
	Total (A TO D)					1,25,49,374	
E	Geological Report Preparation	Nos	5.2ii		1	250,000	For the projects having cost exceeding Rs. 50 Lakhs but less than 150 lakhs
F	Preparation of Exploration Proposal	Nos	5.1		1	250,987	2% or Rs. 500000 whichever is less
G	Report Peer Review Charges	lumpsum	As per EC decision	30000	1	30,000	
H	Total Estimated Cost without GST					13,080,361	
I	Provision for GST (18%)					2,354,465	GST will be reimburse as per actual and as per notified prescribed rate
J	Total Estimated Cost with GST					15,434,827	
				Say, in Lakhs		154.35	
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 Item no. 6 of NMET SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency						

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Annexure 1B														
Time Schedule/ Action plan for Reconnaissance Survey (G-4) for REE in Vellaturu Area, District- Ntr & Eluru, Andhra Pradesh														
S. No.	Particulars	Months/ Days	1	2	3	4	5	Review	6	7	8	Review	9	10
1	Camp Setting	months												
2	Geological Mapping & sampling	months												
3	Pitting	cu.m												
4	Drilling	m												
5	Geologist days	m												
5	Sampling days	days												
6	Camp winding	days												
8	Laboratory Studies	months												
9	Geologist days, HQ	months												
10	Report Writing with Peer Review	days												

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Agenda 102.1.2. Preliminary Exploration (G-3 Stage) for Glauconite in Valka Mota Block, District- Kachchh, Gujarat (Area 7.86 Sq. Km).

Proposal ID: ME/DD/G3/GJ/MECL/26-27/015

[Implementing Agency: MECL]

- a. The proposed block falls within Survey of India Toposheet No. 41A/14. The major lithological units exposed in the area comprise medium- to coarse-grained sandstone, shale, clay, grit and conglomerate, with locally developed Trigonina-bearing fossiliferous horizons belonging to the Bhuj and Katrol Formations (Late Jurassic–Early Cretaceous). Glauconitic sandstone horizons occur as stratabound units interbedded with shale and sandstone.
- b. Occurrences of glauconite in the Mesozoic and Tertiary formations of the Kachchh Basin have been reported by several workers, establishing its widespread presence in sandstone and shale units.
- c. Investigations by Jain, R.L. (FS: 1994–95) identified glauconite-bearing bands with ~1.5 m cumulative thickness and 3–4 km strike continuity, estimating 0.02 million tonnes of glauconite with average 5.33% K₂O.
- d. GSI's G-4 reconnaissance survey (FS: 2016–17) around Umarsar–Guneru recorded K₂O values of 5.07–7.27% in glauconite samples, indicating the presence of potassic glauconite in the region.
- e. Detailed investigations by Basheer et al. (FS: 2014–15) around Guneri established glauconite resources across different grade brackets, with K₂O ranging from <2% to >4%, leading to placement of the Guneri block on the auction platform.
- f. MECL further informed that the MECL's G-4 Reconnaissance Survey (FY 2025–26) in the Ambara West Block established laterally persistent glauconite -bearing sandstone horizons, with 8 of 10 boreholes intersecting horizons containing >3% K₂O. Based on the exploration results, 212.11 million tonnes of Reconnaissance Mineral Resources (UNFC 334) averaging 4.30% K₂O were estimated over 18.44 sq. km. The proposed block is an upgradation of their previous G4 work.
- g. Analysis of 18 bedrock samples and 10 pit samples from the proposed block recorded K₂O values up to 6.14% and 6.19%, respectively, with several samples exceeding 4% K₂O, indicating widespread potassic enrichment and favourable glauconite mineralisation potential.
- h. In view of the encouraging exploration results, the agency proposed G-3 stage exploration in the block to assess the resource potential of glauconite. The proposed programme includes 1:4,000 scale detailed geological mapping, geochemical sampling, pitting/trenching, ground geochemical survey and exploratory drilling for resource assessment under UNFC 333 category.
- i. The Committee reviewed the proposal and recommended that the influence of boreholes drilled during the G-4 stage be duly considered while finalising the borehole plan. The proposed exploration comprises vertical boreholes up to 30 m depth, arranged in an 800 m × 800 m grid pattern.
- j. 1% of proposed area falls in recorded forest area

Sl. No.	Agency	Brief Comments
1	GSI	NA
2	MECL	NA
3	AMD	NA
4	State DMG/DGM/CGM	NA

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5	NMEDT	Proposed G3 Block is upgradation of NMEDT Funded Project of MECL (FS 2025-26, G4-Ambara west block). Present block is high-potential spin-off block from the Ambara West G-4 exploration. Only 1% of the proposed block falls in Recorded Forest Area.
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Recommendations of TCC-1:

The committee recommended the proposal titled “Preliminary Exploration (G-3 Stage) for Glauconite in Valka Mota Block, District- Kachchh, Gujarat” for approval of PSC, NMEDT with an estimated cost of Rs. 101.61 lakhs (including GST) with a timeline of 10 months for carrying out the proposed work and submission of report as per Annexure – 2A & 2B. The item will be reviewed after 3, 6 and 8 months.

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Annexure 2A

**Preliminary Exploration (G-3 Stage) for Glaucinite in Valka Mota Block, District- Kachchh, Gujarat
(Area 7.86 Sq. Km); Completion Time- 10 Months, Review after 3 months, 6 months & 8 months**

S. No.	Item of Work	Unit	Rates as per NMET SoC 2025-26		Estimated Cost of the Proposal		Remarks
			SoC-Item -SI No.	Rates as per SoC			
					Qty.	Amount (Rs)	
A	DETAIL GEOLOGICAL MAPPING (1:4000 scale)						
i	Geological mapping	Sq.Km	1.1	18,300	7.86	143,838	
B	OTHER GEOLOGICAL WORK						
i	Charges for one Geologist- Field	day	1.2.1a	14,500	90	1,305,000	
ii	2 labours/ party (As per rates of Central Labour Commissioner)	day	5.8	556	180	100,080	
iii	Core Sampling -1 Samplers Labour charge not included	day	1.2.1b	7,850	39	306,150	
iv	4 labours/ party (As per rates of Central Labour Commissioner)	day	5.8	556	156	86,736	
v	Demarcation of co-ordinates and Reduced Level (RL) of boreholes by DGPS	Nos.	1.3.2	24,000	20	480,000	10 Core BH and 10 Corner points
vi	Charges for one surveyor (1 Party)	day	1.3.1	10,500	30	315,000	Topographical Survey on 1:4000 scale
	4 labours/ party (As per rates of Central Labour Commissioner) for survey work	day	5.8	556	120	66,720	
iii	Charges for one Geologist per- HQ	day	1.2.1a	10,500	40	420,000	
	Sub Total- A+B					3,223,524	

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C	DRILLING (Inhouse)						
i	Drilling -Soft rock	m	2.2.1.1c	5,500	350	1,925,000	10 Bhs at an average depth 30m per borehole
ii	Land / Crop Compansation	per BH	5.6	30,000	10	300,000	
iii	Construction of concrete Pillar (12"x12"x30")	per BH	2.2.7	2,000	10	20,000	
iv	Borehole plugging by cement	Lumpsum per borehole	2.2.8	10,000	10	100,000	
v	Core Preservation	m	5.3	1,590	300	477,000	
vi	Miscellaneous Charges (Transportation of Drilling Rig, Accommodation for Drill Camp, Camp Setting and Winding, Construction of Approach Road)	Lump Sum	2.2.9	For Drilling cost less than 50 Lakhs: 25% of the Drilling Cost		481,250	
	Sub Total- C					3,303,250	
D	LABORATORY STUDIES						
1	Chemical Analysis						
a	i) Primary Sample for 8 radicals (K ₂ O, SiO ₂ , MgO, CaO, Na ₂ O, P ₂ O ₅ , Al ₂ O ₃ & Fe ₂ O ₃).	Nos	4.1.17a	4,200	280	1,176,000	By XRF Method
b	ii) 10% External check samples for 8 radicals (K ₂ O, SiO ₂ , MgO, CaO, Na ₂ O, P ₂ O ₅ , Al ₂ O ₃ & Fe ₂ O ₃).	Nos	4.1.17a	4,200	28	117,600	
c	Trace Element (34 elements)	Per sample	4.1.15a	7,400	30	222,000	
2	Physical & Petrological Studies						

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i	a) Preparation of thin polished section	Nos	4.3.2	800	10	8,000	
ii	b) Complete petrographic study report	Nos	4.3.4	2,800	10	28,000	
iii	c) Modal analysis of thin section	Nos	4.3.7	4,590	10	45,900	
vi	d) SEM Studies per hour	Per Hr	4.4.2	3,500	3	10,500	
vii	e) XRD Mineral Phase Analysis	Per sample	4.5.2	4,000	5	20,000	
viii	f) Bulk Density - Dry/Saturated	Nos	4.8.3	2,500	5	12,500	
	Sub Total- D					1,640,500	
	Total A to D					8,167,274.00	
E	Geological Report Preparation		5.2	For the projects having cost exceeding Rs. 50 lakhs - Rs. 150 lakhs		250,000	Reimbursement will be made after submission of the final Geological Report.
F	Peer review Charges		As per EC decision			30,000	
G	Preparation of Exploration Proposal	Soft Copy	5.1	2% of the Cost or Rs. 5.00 Lakhs whichever is lower		163,345	
H	Total Estimated Cost without GST					8,610,619	

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I	Provision for GST (18% of I)				1,549,911.51	GST will be reimbursed as per actual and as per notified prescribed rate
J	Total Estimated Cost with GST				10,160,530.99	
				or Say Rs. In Lakhs	101.61	
Note:						
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.					
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.					
3	If any part of the project is outsourced, the amount will be reimbursed as per the Item no. 6 of NMEDT SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.					
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.					
5	Any item of work not mentioned above shall be added as per SoC.					
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency					

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Annexure 2B																		
	Time Schedule/ Action Plan for Preliminary Exploration (G-3 Stage) for Glauconite in Valka Mota Block, District- Kachchh, Gujarat																	
S. No.	Particulars	Unit	1	2	3	Review	4	5	6	Review	7	8	Review	9	10			
1	Camp Setting	months																
2	Geological Mapping & Sampling	months																
3	Core Drilling	m																
4	Geologist days	days																
5	Sampling days	days																
6	Camp winding	months																
7	Laboratory Studies	months																
8	Geologist days HO	days																
9	Report Writing with Peer Review	months																

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Agenda 102.1.3. Preliminary Exploration (G-3 Stage) for Glaucinite in Valka Nana Block, District- Kachchh, Gujarat (Area 11.23 Sq. Km)
Proposal ID: ME/DD/G3/GJ/MECL/26-27/016

[Implementing Agency: MECL]

- a. The proposed block falls within Survey of India Toposheet No. 41E/02 and exposes mainly medium- to coarse-grained sandstone, shale, clay, grit and conglomerate, with locally developed Trigonina-bearing fossiliferous horizons of the Bhuj and Katrol Formations (Late Jurassic–Early Cretaceous). Glaucinitic sandstone occurs as stratabound horizons interbedded with shale and sandstone.
- b. Previous investigations by GSI and other workers have established the widespread occurrence of glauconite within the sandstone and shale units of the Mesozoic and Tertiary formations of the Kachchh Basin. Jain, R.L. (FS: 1994–95) estimated a tentative reserve of 0.02 million tonnes of glauconite with an average 5.33% K₂O, based on a ~1.5 m thick glauconite-bearing band having 3–4 km strike continuity.
- c. Basheer et al. (FS: 2014–15) carried out detailed investigations for potash in glauconite-bearing shale and sandstone around Guneri village, Kachchh District, estimating glauconite resources across different grade brackets with K₂O contents ranging from <2% to >4%. Based on the exploration results, the Guneri block was placed on the auction platform.
- d. MECL carried out G-4 stage reconnaissance exploration for glauconite in the Ambara West Block (143.15 sq. km), Kachchh District, during FY 2025–26. Resource estimation was undertaken by the Polygonal Method at >3.0% K₂O cut-off; exploration included 07 bedrock samples, 08 pit samples and 02 boreholes, which intersected glauconite-bearing mineralised zones of 2.00 m and 13.00 m cumulative thickness, respectively. The proposed block is an upgradation of their previous G4 work.
- e. Based on the two boreholes (MKAW-09 and MKAW-10) falling within the Valka Nana Block, total net in-situ Reconnaissance Mineral Resources (UNFC 334) of 51.77 million tonnes, with an average grade of 4.26% K₂O, have been estimated.
- f. In view of the encouraging exploration results, the agency proposed G-3 stage exploration in the block to assess the resource potential of glauconite. The proposed programme includes 1:4,000 scale detailed geological mapping, geochemical sampling, pitting/trenching, ground geochemical survey and exploratory drilling for resource assessment under UNFC 333 category.
- g. The Committee reviewed the proposal and recommended that the influence of boreholes drilled during the G-4 stage be duly considered while finalising the borehole plan. The proposed exploration comprises vertical boreholes up to 30 m depth, arranged in an 800 m × 800 m grid pattern.
- h. 21% of proposed area falls in recorded forest area.

Sl. No.	Agency	Brief Comments
1	GSI	NA
2	MECL	NA
3	AMD	NA
4	State DMG/DGM/CGM	NA

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5	NMEDT	Proposed G3 Block overlap with NMEDT Funded Project of MECL (FS 2025-26, G4-Ambara west block). Present block is high-potential spin-off block from the Ambara West G-4 exploration. About 21% of the proposed block falls in Recorded Forest Area.
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Recommendations of TCC-1:

The committee recommended the proposal titled “Preliminary Exploration (G-3 Stage) for Glauconite in Valka Nana Block, District- Kachchh, Gujarat” for approval of PSC, NMEDT with an estimated cost of Rs. 106.78 lakhs (including GST) with a timeline of 10 months for carrying out the proposed work and submission of report as per Annexure – 3A & 3B. The item will be reviewed after 3, 6 and 8 months.

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Annexure 3A

**Estimated Cost for Preliminary Exploration (G-3 Stage) for Glauconite in Valka Nana Block, District- Kachchh, Gujarat
(AREA 11.23 Sq. Km); Total Drilling Meterage: 380; No. of BH: 11 Completion Time- 10 Months, Review after 3 months, 6 months & 8 months**

S. No.	Item of Work	Unit	Rates as per NMET SoC 2025-26		Estimated Cost of the Proposal		Remarks
			SoC-Item -SI No.	Rates as per SoC			
					Qty.	Amount (Rs)	
A	DETAIL GEOLOGICAL MAPPING (1:4000 scale)						
i	Geological mapping	Sq.Km	1.1	18,300	11.23	205,509	(DM on 1:4000 scale with contouring)
B	OTHER GEOLOGICAL WORK						
i	Charges for one Geologist-Field	day	1.2.1a	14,500	90	1,305,000	
ii	2 labours/ party (As per rates of Central Labour Commissioner)	day	5.8	556	180	100,080	Minimum wages plus statutory contributions and taxes
iii	Core Sampling -1 Samplers Labour charge not included	day	1.2.1b	7,850	41	321,850	
iv	4 labours/ party (As per rates of Central Labour Commissioner)	day	5.8	556	164	91,184	Minimum wages plus statutory contributions and taxes
v	Demarcation of co-ordinates and Reduced Level (RL) of boreholes by DGPS	Nos.	1.3.2	24,000	17	408,000	11 Core BH and 06 Corner points
vi	Charges for one surveyor (1 Party)	day	1.3.1	10,500	30	315,000	Topographical Survey on 1:4000 scale
	4 labours/ party (As per rates of Central Labour Commissioner) for survey work	day	5.8	556	120	66,720	Minimum wages plus statutory contributions and taxes
iii	Charges for one Geologist per-HQ	day	1.2.1a	10,500	40	420,000	

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	Sub Total- A+B					3,233,343	
C	DRILLING (In House)						
i	Drilling -Soft rock	m	2.2.1.1c	5,500	380	2,090,000	11 Bhs at an average depth 30m per borehole
ii	Land / Crop Compansation	per BH	5.6	30,000	11	330,000	
iii	Construction of concrete Pillar (12"x12"x30")	per BH	2.2.7	2,000	11	22,000	
iv	Borehole plugging by cement	Lumpsum per borehole	2.2.8	10,000	11	110,000	
v	Core Preservation	m	5.3	1,590	350	556,500	1 complete BH + mineralised zone
vi	Miscellaneous Charges (Transportation of Drilling Rig, Accommodation for Drill Camp, Camp Setting and Winding, Construction of Approach Road)	Lump Sum	2.2.9	For Drilling cost less than 50 Lakhs: 25% of the Drilling Cost		522,500	
	Sub Total- C					3,631,000	
D	LABORATORY STUDIES						
1	Chemical Analysis						
a	i) Primary Sample for 8 radicals (K ₂ O, SiO ₂ , MgO, CaO, Na ₂ O, P ₂ O ₅ , Al ₂ O ₃ & Fe ₂ O ₃).	Nos	4.1.17a	4,200	300	1,260,000	By XRF Method (Core Samples)
b	ii) 10% External check samples for 8 radicals (K ₂ O, SiO ₂ , MgO, CaO, Na ₂ O, P ₂ O ₅ , Al ₂ O ₃ & Fe ₂ O ₃).	Nos	4.1.17a	4,200	30	126,000	
c	ICPMS	Per sample	4.1.15	7,400	30	222,000	

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2	Physical & Petrological Studies					-	
i	a) Preparation of thin polished section	Nos	4.3.2	800	10	8,000	
ii	b) Complete petrographic study report	Nos	4.3.4	2,800	10	28,000	
iii	c) Modal analysis of thin section	Nos	4.3.7	4,590	10	45,900	
vi	d) SEM Studies per hour	Per Hr	4.4.2	3,500	3	10,500	
vii	e) XRD Mineral Phase Analysis	Per sample	4.5.2	4,000	5	20,000	
viii	f) Bulk Density - Dry/Saturated	Nos	4.8.3	2,500	5	12,500	
	Sub Total- D					1,732,900	
	Total A to D					8,597,243.00	
E	Geological Report Preparation		5.2	For the projects having cost exceeding Rs. 50 lakhs - Rs. 150 lakhs		250,000	Reimbursement will be made after submission of the final Geological Report.
F	Peer review Charges		As per EC decision			30,000	
G	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. 5.00 Lakhs whichever is lower		171,945	
H	Total Estimated Cost without GST					9,049,188	

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I	Provision for GST (18% of I)	1,628,853.81	GST will be reimbursed as per actual and as per notified prescribed rate
J	Total Estimated Cost with GST	10,678,041.67	
or Say Rs. In Lakhs		106.78	
Note:			
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.		
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.		
3	If any part of the project is outsourced, the amount will be reimbursed as per the Item no. 6 of NMET SoC. In case of execution of the project by NEA 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 (G-3 Stage) for Glauconite in Valka Nana Block, District- Kachchh, Gujarat																
S. No.	Particulars	Unit	1	2	3	4	REVIEW	5	6	REVIEW	7	8	REVIEW	9	10		
1	Camp Setting	months															
2	Geological Mapping & Sampling	months															
3	Core Drilling	m															
4	Geologist days	days															
5	Sampling days	days															
6	Camp winding	months															
7	Laboratory Studies	months															
8	Geologist days HO	days															
9	Report Writing with Peer Review	months															

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Agenda 102.1.4. Preliminary Exploration (G3 Stage) for Graphite in Tumagara Area, Latehar and Palamu District, Jharkhand
Proposal ID: ME/DD/G3/JH/26-27/104

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

- a. The proposed block falls within Survey of India Toposheet No. 73A/05 and is underlain mainly by granite gneiss, biotite gneiss and porphyritic granite, with enclaves of mica schist, quartzite, amphibolite, quartz-garnet granulite and calc-silicate rocks belonging to the Chhotanagpur Gneissic Complex (CGC). These older rocks are overlain by sedimentary rocks of the Gondwana Sequence.
- b. GSI carried out G-4 stage reconnaissance exploration for graphite in the Chhotanagpur Gneissic Complex around Parsahi, Satbarwa and Ranki Kalan, Latehar District, Jharkhand (FS: 2019–20). Graphite mica schist occurs as linear, continuous to discontinuous bodies with 300 m–2 km strike length and 30–150 m width, with Fixed Carbon values ranging from 7.66–37.06% in bedrock samples and <1–37.28% in trench samples, indicating significant graphite mineralisation potential.
- c. Based on encouraging results, six potential graphite blocks—Adhmaniya, Karma, Siuri, Budhiyabagi, Ranki Kalan and Charwadih—were identified and recommended for further exploration; additional promising graphite values were also reported around Hurmur, Murma, Tumagara, Tewrahi, Agardih and Ekta villages, with the Hurmur band extending southwest beyond the surveyed area.
- d. In view of the encouraging exploration results, the agency proposed G-3 stage exploration for graphite, comprising 1:2000 scale detailed mapping, geochemical sampling, pitting/trenching, ground geochemical survey and exploratory drilling, to assess resources under UNFC 333 category. The agency proposal encompasses an area of 2.26 sq. km.
- e. The Committee reviewed the proposal. The representative of DMG, Jharkhand informed the Committee that DMG has undertaken exploration, including drilling, in the proposed area and proposed to take up the area for further exploration. Existing information on mining activities in the area was also shared with the Committee.
- f. DMG, Jharkhand informed that detailed mapping over 0.50 sq. km was completed in the proposed area during 2001–02, and 1.60 sq. km of the proposed area is proposed to be taken up by DMG for G-3 stage exploration.
- g. In view of the comments received from DMG, Jharkhand the proposal is not approved.

Sl. No.	Agency	Brief Comments
1	GSI	The area is already explored by GSI for Graphite at G4 level, however, when its upgraded G3 Budhiyabagi block was proposed, DMG Jharkhand had communicated that the block is being investigated by them. If the block remains yet to be explored, GSI would like to take up the upgraded G3 Budhiyabagi block which was proposed earlier.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	0.50 sq. km was completed in the proposed area during 2001–02, and 1.60 sq. km of the proposed area is proposed to be taken up by DMG for G-3 stage exploration

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5	NMEDT	Two Mining Leases for Graphite are overlapping with the AOI of the proposed block. The proposed block do not overlap with NMEDT funded projects, however a some portion fall in Recorded Forest Area (approx. 11%).
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Recommendations of TCC-1:

The committee did not recommend the proposal as the proposed area overlaps with that of DMG Jharkhand.

Agenda 102.1.5. Preliminary Exploration (G3 Stage) for Graphite in Barham Area, Angul District, Odisha

Proposal ID: ME/DD/G3/OD/26-27/132

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

- The proposed block falls within Survey of India Toposheet No. 73D/09 and comprises khondalite, mafic granulite, charnockite, garnetiferous biotite gneiss and leptynite of the Eastern Ghat Mobile Belt, with khondalite as the principal host rock for graphite mineralisation.
- GSI's G-4 stage exploration (FS: 2022–23) in the Thakurgarh–Mindol area identified graphite-bearing zones, including 24.15% and 8.41% FC in pit samples from Badabar, a 2.10 m thick zone averaging 2.70% FC at Teleipathar, and a high 22.32% FC value south of Barham, warranting further exploration.
- G-3 stage exploration in the Mindol Block during FS: 2024–25 intersected a 3.80 m graphite zone in one of four boreholes. At 2% FC cut-off, a resource of 0.043 million tonnes with an average grade of 2.012% FC was estimated, with an indicated strike continuity of 81 m.
- In view of the previous works, the agency proposed G-3 stage exploration for graphite, comprising 1:2000 scale detailed geological mapping, geochemical sampling, pitting/trenching and exploratory drilling, to assess resources under UNFC 333 category.
- The Committee reviewed the proposal and observed that the proposed area has already been investigated by GSI at G-4 stage; however, no definite graphite bands/zones with established strike continuity and width were delineated within the proposed block.
- The Committee noted that the available evidence, based on limited pitting/trenching observations, is insufficient to establish the continuity and extent of graphite mineralisation. Further, the three mineralised zones identified by GSI lie outside the proposed block.
- In view of the recent G-4 investigation and absence of substantive evidence regarding the continuity, strike length and width of graphite mineralisation within the block, the Committee observed that the proposal does not have adequate geological justification for recommending G-3 stage exploration.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed graphite exploration area has already been explored by GSI at G4 stage (FS 2022-23) and G3 stage (Mindol Block, FS 2024-25). At G3 stage, only one of four boreholes intersected a 3.80 m graphite zone, with 0.043 MT resource at 2% FC cut-off and 2.012% average FC. Hence, the proposed block may be considered for G3-stage exploration on 1:2,000 scale after due evaluation of the Mindol G3 block.

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2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	The proposed area has been partially covered during F.S 1996-97 through geological mapping on 1:50000 scale. The proposed area is covered by Garnetiferous Granite Gneiss and Amphibolite. On examination of the group plan, it is observed that the area does not overlap with any other blocks.
5	NMEDT	The proposed block do not overlap with NMEDT funded projects, however a some portion fall in Recorded Forest Area (approx. 39%).

Recommendations of TCC-1:

The Committee did not recommend the proposal, as the available G-4 stage data do not provide sufficient geological evidence to justify its upgradation to G-3 stage exploration.

Agenda 102.1.6. Preliminary Exploration (G3 Stage) for Graphite in Badabar Area, Angul District, Odisha

Proposal ID: ME/DD/G3/OD/26-27/131

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

- The proposed block falls within Toposheet No. 73D/09 and is underlain by khondalite, mafic granulite, charnockite, garnetiferous biotite gneiss and leptynite of the Eastern Ghat Mobile Belt, with khondalite as the principal host for graphite mineralisation.
- GSI's G-4 investigation (FS: 2022–23) reported encouraging graphite values, including 24.15%, 8.41% and 22.32% FC in pit samples and mineralised zones in trench samples.
- GSI's subsequent G-3 exploration in the Mindol Block (FS: 2024–25) intersected a 3.80 m graphite zone in one of four boreholes and estimated 0.043 MT resource at 2% FC cut-off, with an average grade of 2.012% FC and 81 m strike continuity.
- The Committee noted that the Badabar Block has been partially investigated by DMG, Odisha through geological mapping at 1:50000 scale (FS: 1996–97) and 1:25000 scale (FS: 1982–85). The area is underlain by granite gneiss, sandstone, porphyritic granite, khondalite and alluvium, with manganese float occurrences reported around Mahulinali.
- In view of the previous works, the agency proposed G-3 stage exploration for graphite, comprising 1:2000 scale detailed geological mapping, geochemical sampling, pitting/trenching and exploratory drilling, to assess resources under UNFC 333 category.
- The Committee reviewed the proposal and observed that the graphite mineralisation occurs as pockety and sporadic occurrences within narrow khondalite bands, with no established strike continuity. The available analytical results are isolated and do not demonstrate significant continuity.
- The Committee noted that GSI had recently carried out exploration in the south-eastern part of the proposed area, but no significant extension or continuity of the mineralised zone was established.
- In view of the recent GSI investigation and absence of evidence for lateral continuity, the Committee considered the available data inadequate to establish a viable mineralised zone and did not recommend further exploration at the proposed stage.

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Sl. No.	Agency	Brief Comments
1	GSI	The proposed graphite exploration area has already been explored by GSI at G4 stage (FS 2022-23) and G3 stage (Mindol Block, FS 2024-25). At G3 stage, only one of four boreholes intersected a 3.80 m graphite zone, with 0.043 MT resource at 2% FC cut-off and 2.012% average FC. Hence, the proposed block may be considered for G3-stage exploration on 1:2,000 scale after due evaluation of the Mindol G3 block.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	AMD has carried out G4 stage of exploration for U (0.027% eU3O8) in and around the proposed block however, there is no ongoing exploration /reconnaissance project. In view of known potentiality, analysis of uranium may also be included in the analysis list.
4	State DMG/DGM/CGM	The proposed area was partially covered by GSI during FS 1982-85 and 1996-97 through 1:25,000 and 1:50,000 scale mapping, respectively. Mn float occurrences were observed in the Mahulinali area. However, the area slightly overlaps with the Ambasarmunda-Dhauragoth block, explored by GSI during FS 2018.
5	NMEDT	Proposed block shows overlap with ongoing project of GSI FS 2026-27 for Hydrocarbon, REE and other trace elements in Talcher and IB River coalfields, Odisha. The proposed block do not overlap with NMEDT funded projects.

Recommendations of TCC-1:

The Committee did not recommend the proposal for G-3 stage exploration, as the available data indicate only sporadic and pockety graphite mineralisation within narrow khondalite bands, without established strike or lateral continuity.

Agenda 102.1.7. Preliminary Exploration (G3 Stage) for REE & RM in Madaar Area, Udaipur District, Rajasthan

Proposal ID: ME/DD/G3/RJ/26-27/123

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

- The proposed block falls within Toposheet No. 45H/05 and comprises quartzite, schist, impure marble, calc-silicate rocks, gabbro and amphibolite of the South Delhi Fold Belt, with younger granitoid and related intrusives. Gabbro and amphibolite represent the Phulad Ophiolite Suite, while skarn zones developed near the Sendra–Ambaji granitoid make the area favourable for REE and associated mineralisation.
- GSI's G-4 reconnaissance survey (FS: 2023–24) in the Padrara–Sayra area recorded elevated REE concentrations in channel samples ranging from 15.13–2,457.78 ppm, averaging 647.29 ppm, with tREE+Y up to 2,489.81 ppm, indicating encouraging REE mineralisation potential.
- The Committee was further informed that the REE mineralisation is LREE-dominated, with significant enrichment in syenite, monzodiorite/monzonite and alkali feldspar-rich granite, with tREE values up to 4,288.55 ppm in core samples.
- In view of the previous works, the agency proposed G-3 stage exploration for graphite, comprising 1:2000 scale detailed geological mapping, geochemical

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sampling, pitting/trenching and exploratory drilling, to assess resources under UNFC 333 category.

- e. The Committee observed that the proposed blocks partly overlap the Eco-Sensitive Zone (ESZ) and directed that an appropriate buffer from the ESZ boundary be maintained while finalising the block boundaries.
- f. The Committee noted that the reported REE mineralisation is sporadic and largely based on isolated anomalous samples; therefore, the entire syenitic unit should not be considered mineralised solely on the basis of individual high values.
- g. The Committee advised that systematic geological investigation, bedrock sampling and subsurface exploration be undertaken to establish the continuity, thickness, grade distribution and resource potential of the REE mineralisation.
- h. The Committee advised that the proposed geological model should clearly establish the genetic and spatial relationship between syenitic/trachytic rocks, magmatic differentiation and K-rich metasomatism, supported by field, petrographic/mineralogical evidence and relevant references.
- i. Further DMG Rajasthan informed the Committee that the area falls under FSI Aravalli as per the guidelines dated 09.01.2006 and 25.08.2010, and advised that the extant applicable guidelines be followed until revised guidelines are issued by the Government.

Sl. No.	Agency	Brief Comments
1	GSI	Based on previous G4 exploration work in Padrara-Sayra area, Udaipur District by GSI, the proposed area seems favorable for REE-RM mineralization.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	The proposed block fall in Aravalli Range as per FSI report dated 25.08.2010 besides it also falls in Eco-Sensitive Zone of Kumbhalgarh Wildlife Sanctuary.
5	NMEDT	One Mining Leases for Minor Miner is overlapping with the AOI of the proposed block. The proposed block do not overlap with NMEDT funded projects however, it overlaps with Kumbhalgarh Wildlife Sanctuary (ESZ, approx. 1.31%)

Recommendations of TCC-1:

The Committee did not recommend the proposal, as the proposed area falls within the Aravalli Region and is subject to applicable regulatory restrictions.

Agenda 102.1.8. Preliminary Exploration (G3 Stage) for REE & RM in Vishma Area, Udaipur District, Rajasthan Proposal ID:ME/DD/G3/RJ/26-27/124

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

- a. The proposed block falls within Toposheet No. 45H/05 and comprises rocks of the South Delhi Fold Belt, including quartzite, schists, impure marble, calc-silicate rocks, gabbro and amphibolite, with younger granitoid, syenite, monzodiorite, monzonite and pegmatite intrusives. The Phulad Ophiolite Suite and skarn zones associated with the Sendra–Ambaji granitoid make the area favourable for REE mineralisation.
- b. GSI's regional stream-sediment geochemical mapping (FS: 2016–17) recorded significant REE and multi-element anomalies, including La, Ce, Nd, Gd, Ba, Zr, Cr, W and F, indicating LREE enrichment and multi-element mineral potential in the

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- area.
- GSI's G-4 reconnaissance survey (FS: 2023–24) in the Padrara–Sayra area recorded elevated REE concentrations of 15.13–2,457.78 ppm, averaging 647.29 ppm, with tREE+Y up to 2,489.81 ppm and LREE/HREE ratios of 2.45–25.58, indicating LREE-dominated mineralisation.
 - Significant REE enrichment was observed particularly in syenite, monzodiorite/monzonite and alkali feldspar-rich granite, with tREE values up to 4,288.55 ppm in core samples, indicating encouraging potential for further investigation.
 - In view of the previous works, the agency proposed G-3 stage exploration for graphite, comprising 1:2000 scale detailed geological mapping, geochemical sampling, pitting/trenching and exploratory drilling, to assess resources under UNFC 333 category.
 - The Committee observed that the proposed blocks overlap multiple held Mining Lease (ML) areas for minor minerals. The area also falls in Aravalli region as per FSI Report.

Sl. No.	Agency	Brief Comments
1	GSI	Based on previous G4 exploration work in Padrara-Sayra area, Udaipur District by GSI, the proposed area seems favorable for REE-RM mineralization.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	The area falls in FSI Aravalli as per FSI report, which is sub-judice at Hon'ble Supreme Court. 2 held minor mineral lease present in the area.
5	NMEDT	Multiple ML for Minor Minerals are present within the proposed block. Proposed block does not fall in ESZ & ESA, however, nearest Eco Sensitive zone is 319m away from the proposed block. The proposed block do not overlap with NMEDT funded projects.

Recommendations of TCC-1:

The Committee did not recommend the proposal, as the proposed area falls within the Aravalli Region and is subject to applicable regulatory restrictions.

Agenda 102.1.9. Preliminary Exploration (G3 Stage) for Graphite in Budah Area, Banswara District, Rajasthan

Proposal ID: ME/DD/G3/RJ/26-27/118

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

- The proposed block falls within Toposheet Nos. 46I/05 & 46I/06 and comprises migmatitic granite gneiss, amphibolite, calc-silicate rocks and pelitic schists of the Mangalwar Complex (Bhilwara Supergroup), along with garnetiferous mica schist, dolomitic marble, graphite schist, calc-silicate rocks and metaconglomerate of the Aravalli Supergroup.
- The Committee was informed that the proposed blocks fall within the Aravalli Region as per the Notification dated 25-08-2010 and the applicable regulatory restrictions. Hence, the proposal is not considered.

Sl. No.	Agency	Brief Comments
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1	GSI	Based on previous G4 exploration work in Bassi-Nagdala area, Udaipur District and G3 exploration work in Dukwara block, Banswara district by GSI, the proposed area seems favorable for graphite mineralization.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	This proposal area does not conflict with any mineral concession/ongoing/completed project other than part of proposal area conflicting with Forest and proposal area conflicting with Aravalli.
5	NMEDT	Proposed block shows overlapping with ongoing project of GSI FS 2025-26 titled RMT for P, Mn & associated minerals in Jamarkotra-Sallopata area, Udaipur, Dungarpur & Banswara district, Rajasthan. The proposed block do not overlap with NMEDT funded projects, however a some portion fall in Recorded Forest Area (approx. 63%).

Recommendations of TCC-1:

The Committee did not recommend the proposal, as the proposed area falls within the Aravalli Region and is subject to applicable regulatory restrictions.

Agenda 102.1.10. Preliminary Exploration (G3 Stage) for REE and RM in Kanji Ka Gurha Area, Udaipur District, Rajasthan
Proposal ID: ME/DD/G3/RJ/26-27/120

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

- The proposed block falls within Survey of India Toposheet No. 45H/05 and comprises quartzite, biotite schist, quartz-biotite schist, calc-biotite schist, impure marble, calc-silicate rocks, gabbro and amphibolite of the South Delhi Fold Belt, along with younger granitoid, syenite, monzodiorite, monzonite and pegmatite intrusives.
- The Committee was informed that the proposed blocks fall within the Aravalli Region as per the Notification dated 25-08-2010 and the applicable regulatory restrictions. Hence, the proposal is not considered.

Sl. No.	Agency	Brief Comments
1	GSI	Based on previous G4 exploration work in Padrara-Sayra area, Udaipur District by GSI, the proposed area seems favorable for REE-RM mineralization.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	The proposed block fall in Aravalli Range as per FSI report dated 25.08.2010.
5	NMEDT	The proposed block do not overlap with NMEDT funded projects.

Recommendations of TCC-1:

The Committee did not recommend the proposal, as the proposed area falls

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within the Aravalli Region and is subject to applicable regulatory restrictions.

Agenda 102.1.11. Preliminary Exploration (G3 Stage) for REE and RM in Sanchli Area, Udaipur District, Rajasthan

Proposal ID: ME/DD/G3/RJ/26-27/121

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

- a. The proposed block falls within Survey of India Toposheet No. 45H/05 and comprises quartzite, biotite schist, quartz-biotite schist, calc-biotite schist, impure marble, calc-silicate rocks, gabbro and amphibolite of the South Delhi Fold Belt, intruded by younger granitoids, syenite, monzodiorite, monzonite and pegmatite.
- b. The Committee was informed that the proposed blocks fall within the Aravalli Region as per the Notification dated 25-08-2010 and the applicable regulatory restrictions. Hence, the proposal is not considered.

Sl. No.	Agency	Brief Comments
1	GSI	Based on previous G4 exploration work in Padrara-Sayra area, Udaipur District by GSI, the proposed area seems favorable for REE-RM mineralization.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	The proposed block overlap with existing Mining Lease for Calcite Mineral (4.9 Ha) besides it fall in Aravalli Range as per FSI report dated 25.08.2010.
5	NMEDT	Multiple ML for Minor Minerals are present within the proposed block. The proposed block do not overlap with NMEDT funded projects.

Recommendations of TCC-1:

The Committee did not recommend the proposal, as the proposed area falls within the Aravalli Region and is subject to applicable regulatory restrictions.

Agenda 102.1.12. Preliminary Exploration (G3 Stage) of Barium, Vanadium and Associated Mineralization in Potri Dhek Block, Tehsil- Lohagarh, District - Champawat, Uttarakhand

Proposal ID: ME/IND/G3/UK/P/26-27/019

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

- a. The proposed block falls within Survey of India Toposheet No. 62C/03 and comprises mainly buff, grey and carbonaceous phyllites of the Gumalikhet Formation, Almora Group, along with leucocratic granite of the Champawat Granite.
- b. GSI carried out G-4 stage reconnaissance exploration for vanadium and allied metal mineralisation in the Almora Group around Chaura, Sirmoli and Lohaghat, Champawat District, Uttarakhand (FS: 2022-23).
- c. A total of 100 BRS and channel samples analysed by GSI recorded V values of 33-5,212 ppm, Ba 164-40,518 ppm, Y 23-444 ppm and Mo 0.85-288 ppm, indicating significant vanadium and associated metal enrichment.
- d. During the G-4 investigation, the agency collected 11 channel and 4 bedrock samples from the proposed block, recording V values of 69-2,134 ppm in bedrock and 85-2,705 ppm in channel samples, along with significant Ba and Mo values.

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- e. The proposed block thus indicates potential for vanadium and associated critical mineralisation, based on the anomalous V, Ba and Mo values obtained from the bedrock and channel samples.
- f. In view of the encouraging exploration results, the agency proposed G-3 stage exploration comprising 1:2000 scale detailed geological mapping, geochemical sampling, pitting/trenching and exploratory drilling to assess resources under UNFC 333 category.
- g. The proposal was earlier considered in the 100th TCC-1 meeting, wherein in-principle approval was accorded and the agency was advised to submit the DPR.
- h. The Committee recommended that the exploration programme be undertaken in two phases. Phase-I shall comprise 1:2,000 scale detailed geological mapping, systematic BRS, pitting/trenching and SP ground geophysical survey to delineate mineralised/carbonaceous phyllite zones and establish their continuity, strike and width.
- i. Based on encouraging Phase-I results, Phase-II may comprise detailed borehole planning and exploratory drilling, with an indicative target of 800 m through about 10 boreholes of 80 m depth, initially at 400 m spacing, followed by 200 m spacing, subject to modification based on Phase-I results and geological interpretation.
- j. The agency informed that the proposed block falls in Lohaghat Tehsil and not Lohagarh as earlier mentioned.
- k. The Committee recommended revising the proposal title to “Preliminary Exploration for the Vanadium, Graphite and Associated Mineral in Potri Dhek Block, Tehsil-Lohaghat, District - Champawat, Uttarakhand”.

Sl. No.	Agency	Brief Comments
1	GSI	Based on previous study by GSI, the values of V range from 33 ppm to 5212 ppm with Ba values ranging 164 ppm to 40,682 ppm. The higher values of V and Ba are recorded in Carbonaceous Phyllite and Phyllite-Grey Phyllite interbands. No exploration project is currently under execution within the proposed block. However, GSI carried out a G3-stage exploration during FS 2025-26 in the western part of the proposed block. The final report has not yet been circulated.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	Awaited
5	NMEDT	The proposed block do not overlap with NMEDT funded projects, ESA/ESZ, Tiger Corridor, Protected Area or RFA as per PM Gatishakti portal.

Recommendations of TCC-1:

The committee recommended the proposal titled “Preliminary Exploration for the Vanadium, Graphite and Associated Mineral in Potri Dhek Block, Tehsil-Lohaghat, District - Champawat, Uttarakhand” for approval of PSC, NMEDT with an estimated cost of Rs. 400.80 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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Annexure 4A

Preliminary Exploration for the Vanadium, Graphite and Associated Mineral in Potri Dhek Block, Tehsil-Lohaghat, District - Champawat, Uttarakhand

Area-2.73 sq.km, Scale:1:2,000; Drilling Meterage: 800 m, No. of BH: 10. Time Schedule: 12 months. Review after: 3, 6 and 9 months.

1st Phase: Mapping, Surface Sampling and GP survey; 2nd Phase Drilling

S. No.	Job Description	Unit *	Rates as per NMEDT SoC 2025-26		Estimated Cost of the Proposal As per Previous SoC	Total Amount (Rs) as per SoC 2025-26 (a*b = C)	Hilly terrain of Himalaya region (Total amount X 2)	Remarks
			SoC Item No.*	Rates as per SoC* (a)	Qty. (b)		(c*2)	
A	Geological Mapping (DM) (1:2000) with contouring							
1	Geological Mapping(DM) (1:2000 scale)with Contouring	Sq.km	1.1	18,300	2.73	49,959	99,918	
	Sub Total A					49,959	99,918	
B	Pitting/Trenching							
1	Trench	per cu m	2.1.1	4,125	50	206,250	412,500	5*1*1=5 cu.m. per trench (no. of trench= 10)
	Sub Total B					206,250	412,500	Himalayan Region Rate
C	Other Charges (During Geological mapping & Drilling)							
1	Geologist: In field	Mandays	1.2.1a	14,500	125	1,812,500	3,625,000	Himalayan Region Rate
2	Geologist: at HQ	Mandays	1.2.1a	10,500	40	420,000	420,000	
3	Charges for one sampler per day (for sample preparation)	Mandays	1.2.1b	7,850	44	345,400	690,800	Himalayan Region Rate

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4	Labour charges (Includes Geologist, Surveyor & Sampler)	Mandays	5.8	556	546	303,576	607,152	
7	Surveyor (for mapping & contouring)	Mandays	1.3.1	10,500	30	315,000	630,000	Himalayan Region Rate
8	Drone Topographic Survey	per sq Km	7b	70000	2.73	191,100	382,200	Himalayan Region Rate
9	Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS (including charges for labours deployed for the work)	Per point of Observation	1.3.2	24,000	16	384,000	768,000	Himalayan Region Rate 10BH + 6 Cardinal Points
	Sub Total C					3,771,576	7,123,152	Himalayan Region Rate
D	Geophysical Survey Work (Outsourced)							
1	Self Potential (8-20 Line Km)	Line km	3.3a	62,140	15	932,100	1,864,200	
	Sub Total-D					932,100	1,864,200	
E	DRILLING (Outsourced)							
1	Drilling up to 300m (Hard Rock), HQ	Meter	2.2.1.1d	10,000	800	8,000,000	16,000,000	Himalayan Region Rate
2	Drill core Preservation	Per meter	5.3	1,590	350	556,500	1,113,000	1 complete BH + Remaining mineralised zone
2	Land / Crop Compansation (in case the BH falls in agricultural Land)	Per BH	5.6	30,000	10	300,000	600,000	As per actuals with 30000 being the maximum ceiling
3	Borehole deviation survey by multi shot survey tool (interval 6 m ; azimuth and inclination to be recorded)	Per shot	2.2.5	330	133	43,890	87,780	Himalayan Region Rate
3	Construction of concrete Pillar (12"x12"x30")	Per BH	2.2.7	2,000	10	20,000	40,000	Himalayan Region Rate

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4	Borehole plugging by cement	Per BH	2.2.8	10,000	10	100,000	200,000	Himalayan Region Rate
	Sub Total E					9,020,390	18,040,780	Himalayan Region Rate
F	Borehole Geophysical Logging (Outsourced)							
1	Borehole Geophysical Logging (5 bh of 350m each)	(5 bh of 350m each)	3.12	1,088,941	0	0	0	Himalayan Region Rate
	Sub Total F					0	0	Himalayan Region Rate
G	LABORATORY STUDIES							
	Primary Samples							
1	Graphite Proximate Analysis (BRS & Trench)	Per sample	4.1.18	3,614	30	108,420	108,420	BRS10 + Trench 20samples
2	Graphite Proximate Analysis (10%) Check samples)	Per sample	4.1.18	3,614	3	10,842	10,842	
3	Analysis of BRS/Channel, Trench sample for quantitative analysis of 14 REE elements+9 Trace element (V, Ba, Ga, Mo, U, Cu, Pb, Zn, Y) by ICPMS	Per sample	4.1.15	7,400	75	555,000	555,000	BRS 25 + Trench 50 samples
4	BRS/Channel, Trench External (10%) Check samples)	Per sample	4.1.15	7,400	7	51,800	51,800	
5	Major oxides (WD XRF) -(oxides + traces- 24 elements)	Per sample	4.1.17a	4,200	0	0	0	
6	Major oxides (WD XRF) -(oxides + traces- 24 elements) (10%) Check samples)	Per sample	4.1.17a	4200	0	0	0	
	Core Drilling Analysis							
1	Analysis of core sample for quantitative analysis of 14 REE elements+9 Trace element (V, Ba, Ga, Mo, U, Cu, Pb, Zn, Y) by ICPMS	Per sample	4.1.15	7400	200	1,480,000	1,480,000	

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2	analysis of core sample for quantitative analysis of 14 REE elements+9 Trace element (V, Ba, Ga, Mo, U, Cu, Pb, Zn, Y) by ICPMS (10% Check Sample)	Per sample	4.1.15	7400	20	148,000	148,000	
3	Graphite Proximate Analysis core sample	Per sample	4.1.18	3614	50	180,700	180,700	
4	Graphite Proximate Analysis (10%) Check samples)	Per sample	4.1.18	3614	5	18,070	18,070	
5	XRD Studies	Per sample	4.5.2	4000	0	0	0	
	Physical & Petrological Studies	Nos						
1	Preparation & study of thin section	Nos	4.3.2	800	20	16,000	16,000	
2	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo microgrphs)	Nos	4.3.4	2,800	20	56,000	56,000	
3	EPMA	Nos	4.4.1	10,500	5	52,500	52,500	
4	Specific Gravity	Nos	4.8.1	2,500	3	7,500	7,500	
	Raman Spectroscopy	Nos	4.5.1	2,700	10	27,000	27,000	
5	Bulk Density	Nos	4.8.3	2,500	3	7,500	7,500	
	Sub Total G					2,719,332	2,719,332	
	Total A to G					16,699,607	30,259,882	
I	Total outsourced component (if any)					12,021,572	21,323,812	
	Miscellaneous Charges (Transportation of Drilling Rig, Accommodation for Drill Camp, Camp setting and winding and construction of Approach road		2.2.9	NA in case of outsourcing				
	In case of outsourcing of work, the Technical Supervision cost shall be 10% of the sum of all the outsourced		6	2,000,000	1		2,000,000	

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	work components with a maximum ceiling of ₹ 20 lakh							
J	Geological Report Preparation	Geological Report Preparation	5.2(iii)	750,000	1	750,000	750,000	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMEDT.
K	Peer review Charges		As per EC decision	30,000	1	30,000	30,000	
L	Tendering Process Cost						426,476	
M	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1	500,000	1	500,000	500,000	EA will be reimbursed after submission of the Hard Copies and the soft copy of the final proposal along with Maps and Plan as suggested by the TCC- NMEDT in its meeting while clearing the proposal.
N	Total Estimated Cost without GST					17,979,607	33,966,358	
O	Provision for GST (18%)					3,236,329	6,113,944	GST will be reimburse as per actual and as per notified prescribed rate
P	Total Estimated Cost with GST					21,215,936	40,080,302	
Q	Rs. In lacs					212.16	400.80	
Note:								
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.							

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2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 6 of NMEDT SoC. In case of execution of the project by NEA/NPEA on its own, a Certificate regarding non outsourcing of any component/project is required.
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.
5	Any item of work not mentioned above shall be added as per SoC.
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.

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Preliminary Exploration for the Vanadium, Graphite and Associated Mineral in Potri Dhek Block, Tehsil-Lohaghat, District - Champawat, Uttarakhand															Annexur e 4B		
S. no.			Mo nth	Mo nth	Mo nth	R e v i e w	Mont h	Mo nth	Mo nth	R e v i e w	Mo nth	Mo nth	Mo nth	R e v i e w	Mo nth	Mo nth	M on th
	Activity	Month s/ Days	1	2	3		4	5	6		7	8	9		10	11	12
1	Camp setting	months															
2	Geological mapping and Sampling	days															
3	Topographic Survey	days															
4	Geophysical Survey	days															
5	Surface Drilling (2 rigs)	m															
6	Core logging and sampling																
9	Geologist Man Days (Field)	Days															
10	Geologist Man Days (HQ)	Days															
11	Sampler Man days	Days															
12	Laboratory studies	Nos.															
13	Report Writing with Peer Review	months															
14	Camp Winding	months															

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Agenda 102.1.13. Preliminary Exploration (G-3) for Limestone in Lakadong Block, East Jaintia Hills District, Meghalaya
Proposal ID: ME/DD/G3/ML/26-27/158

[Implementing Agency: Directorate of Mineral Resources]

- a. The proposed block falls within Survey of India Toposheet No. 62C/03 and is underlain mainly by limestone with associated shale and sandstone of the Jaintia Group.
- b. GSI carried out P-II stage preliminary appraisal (FS: 1996–97) for limestone around Lumshnong and Lakadong, Jaintia Hills District, Meghalaya, and delineated three major occurrences: Lakadong, Khaddum–Sakwa and Mynkree, based on their distribution, abundance and aerial extent.
- c. Analytical results indicate that Lakadong and Mynkree limestone are partly of chemical grade, while the Khaddum–Sakwa limestone is predominantly SMS grade. The reported average CaO values are 49.02%, 52.00% and 49.32%, respectively.
- d. DMR investigations in the region have established substantial limestone resources, including 92.44 million tonnes of cement-to-chemical grade limestone in the Lumshnong North Block and about 26 million tonnes of cement-grade limestone in the Syndai area.
- e. In view of the above exploration data, the agency proposed G-3 stage exploration to assess the limestone resource, comprising 1:10000 scale geological mapping, geochemical sampling, pitting/trenching and exploratory drilling for resource assessment under UNFC 333 category.
- f. The Committee reviewed the proposal and sought clarifications on the exploration methodology, borehole planning, phasing, execution strategy and basis of preparation of the proposal.
- g. The Committee observed that the representative of DMR, Meghalaya could not provide adequate technical details and justification for the proposed exploration programme and advised submission of comprehensive technical inputs.
- h. The Committee advised the agency to come adequately prepared for the TCC meeting with requisite details, including the proposed methodology, execution mechanism and credentials/role of the agency/personnel responsible for preparation and execution of the programme. Accordingly, the proposal was not considered.

Sl. No.	Agency	Brief Comments
1	GSI	GSI has 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 has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	NA
5	NMEDT	The proposed block do not overlap with NMEDT funded projects, ESA/ESZ, Tiger Corridor, Protected Area or RFA as per PM Gatishakti portal.

Recommendations of TCC-1:

The Committee did not recommend the proposal due to inadequate technical details and justification provided by DMR, Meghalaya. The agency was advised to submit comprehensive details on the exploration methodology, execution

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mechanism and credentials/role of the personnel/ agency responsible for preparation and execution of the programme for reconsideration.

**Agenda 102.1.14. Reconnaissance Survey (G-4 Stage) of Graphite in Barikul Block, Bankura District, West Bengal
Proposal ID: ME/DD/G4/WB/26-27/096**

[Implementing Agency: M/s MMPL Private Limited]

- a. The proposed block falls within Survey of India Toposheet Nos. 73J/13 & 73J/14, and the major lithological units exposed in the area comprise mica schist, pegmatite, hornblende schist and vein quartz.
- b. GSI carried out Specialised Thematic Mapping at 1:25,000 scale in the area between the Dalma Volcanics and Tamar–Porapahar Shear Zone covering parts of Medinipur, Purulia and Bankura districts, West Bengal (FS: 1990–91 to 1992–93), during which several occurrences of graphite-bearing graphite-sericite schist were reported.
- c. MECL, during its pre-selection studies for tungsten (2003–04), reported the occurrence of graphite flakes in mica schist and vein quartz in the area.
- d. GSI carried out G-4 stage reconnaissance exploration for gold in and around Maisamura and Shrinathpur areas of Bankura and Jhargram districts, West Bengal, during FS: 2022–23.
- e. M/s MMPL Pvt. Ltd. has carried out G-4 stage reconnaissance exploration for graphite in the Ranibandh Block, Bankura District, with NMEDT funding. The exploration estimated 0.898 million tonnes in Zone-A, with weighted average FC ranging from 2.15–9.69%, and 0.483 million tonnes in Zone-B, with weighted average FC ranging from 3.08–8.69%.
- f. The agency informed the Committee that seven samples were collected from in-situ exposures of graphite-bearing mica schist within the proposed block, which recorded Fixed Carbon (FC) values ranging from 3.83% to 7.15%.
- g. In view of the above exploration data, the agency presented the Barikul Block for G-4 stage reconnaissance exploration for graphite. The proposed work programme comprises 1:12,500 scale geological mapping, geochemical sampling, pitting/trenching and exploratory drilling for assessment of resources under UNFC 334 category.
- h. The Committee observed that the nature, continuity and extent of graphite mineralisation have not been adequately established, as the available evidence is based on only six largely grab/spot samples, which are insufficient to establish representative grade and continuity.
- i. Although a graphite-bearing band has been indicated in the northwestern part of the proposed area, its strike length, width and lateral continuity have not been adequately demonstrated.
- j. The Committee further noted that GSI has already undertaken G-4 and G-3 stage investigations covering parts of the proposed block. The findings of these investigations should be duly considered, as any significant and continuous graphite mineralisation established during the recent investigations would ordinarily have been reflected in the respective reports.
- k. The Committee noted that MECL has undertaken G-4/G-3 exploration for tungsten in the adjoining area and advised reviewing the block configuration, particularly towards the north of the MECL block, to identify any unexplored prospective extension.
- l. Considering the substantial overlap with areas recently investigated by different agencies, particularly in the southern part, the Committee advised rationalizing the proposed block to about 70–80 sq. km, avoiding duplication with previously explored areas.


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- m. The Committee suggested combining the unexplored area of Barikul Block with the proposed Sabuj Dweep Block and submitting a single block proposal for G-4 stage exploration.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed Barikul G4 block shows 10% overlap with MMPL Barikul G4 block proposal for Graphite (dated 15.04.2026) and 5% overlap with MMPL Ranibandh East Graphite block.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	The proposed exploration area does not overlap with any existing Field Season Programme (FSP) projects of the DMM, West Bengal. Considering the favourable geological setting and available field evidence, the proposal for Reconnaissance Survey (G4 Stage) in Barikul Block may be recommended
5	NMEDT	The proposed block slightly shares block boundary with NMEDT funded project, and some portion fall in Recorded Forest Area (approx. 35.75%).

Recommendations of TCC-1:

The Committee did not recommend the proposal, as the available data, based mainly on limited grab/spot sampling, are insufficient to establish the nature, continuity and extent of graphite mineralisation. The Committee suggested combining the unexplored area of Barikul Block with the proposed Sabuj Dweep Block and submitting a single proposal for G-4 stage exploration.

**Agenda 102.1.15. Reconnaissance Survey (G-4 Stage) of Graphite in Sabuj Dweep Block, Bankura District, West Bengal
Proposal ID: ME/DD/G4/WB/26-27/110**

[Implementing Agency: M/s MMPL Private Limited]

- The proposed block falls within Survey of India Toposheet No. 73J/13 and comprises mica schist, pegmatite, hornblende schist and vein quartz.
- GSI carried out Specialised Thematic Mapping at 1:25,000 scale in the area between the Dalma Volcanics and Tamar–Porapahar Shear Zone covering parts of Medinipur, Purulia and Bankura districts, West Bengal (FS: 1990–91 to 1992–93), during which several occurrences of graphite-bearing graphite-sericite schist were reported.
- MECL, during its pre-selection studies for tungsten (2003–04), reported the occurrence of graphite flakes in mica schist and vein quartz.
- GSI carried out G-4 stage reconnaissance exploration for gold in and around Maisamura and Shrinathpur areas of Bankura and Jhargram districts, West Bengal, during FS: 2022–23.
- M/s MMPL carried out G-4 stage reconnaissance exploration for graphite in the Ranibandh Block, Bankura District, with NMEDT funding. Resources of 0.898 million tonnes in Zone-A with weighted average FC of 2.15–9.69%, and 0.483 million tonnes in Zone-B with weighted average FC of 3.08–8.69%, were estimated.

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- f. The agency informed the Committee that eight samples were collected from in-situ exposures of graphite-bearing mica schist in the proposed block, recording Fixed Carbon (FC) values ranging from 4.26% to 11.89%.
- g. In view of the above exploration data, the agency proposed the Barikul Block for G-4 stage reconnaissance exploration for graphite. The proposed work programme comprises 1:12,500 scale geological mapping, geochemical sampling, pitting/trenching and exploratory drilling for assessment of resources under UNFC 334 category.
- h. The Committee reviewed the proposal and advised modification of the block boundary by extending it towards the west and excluding the eastern portion to avoid the major river traversing the area. The area covered under Proposal No. 10.2.1.14 was also advised to be incorporated to form a single consolidated proposal.
- i. The agency subsequently presented the revised consolidated proposal incorporating the Committee's suggestions. The Committee reviewed the revised proposal and found it suitable for consideration for G-4 stage exploration.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed Barikul G4 block shows 1% overlap with MMPL Ranibandh East Graphite block.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	AMD has carried out G4 stage of exploration for U (0.028% U ₃ O ₈ & 0.053% ThO ₂) in and around the proposed block however, there is no ongoing exploration /reconnaissance project. In view of known potentiality, analysis of uranium may also be included in the analysis list.
4	State DMG/DGM/CGM	Sufficient evidence equivalent to G4 stage exploration is not available to justify direct progression to G3 stage exploration. Accordingly, the block may be considered for G4 stage exploration first, and subsequent advancement to G3 stage may be taken.
5	NMEDT	The proposed block do not overlap with NMEDT funded projects, however a some portion fall in Recorded Forest Area (approx. 16%).

Recommendations of TCC-1:

The committee recommended the proposal titled "Reconnaissance survey (G-4 stage) of Graphite in Sonagara area, Bankura district, West Bengal" for approval of PSC, NMEDT with an estimated cost of Rs. 167.14 lakhs (including GST) with a timeline of 12 months for carrying out the proposed work and submission of report as per Annexure – 5A & 5B. The item will be reviewed after 3, 6 and 9 months.

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Annexure 5A

Estimated Cost for Reconnaissance survey (G-4 stage) of Graphite in Sonagara area, Bankura district, West Bengal

Total area - 125.43 Sq.km; Borehole - 8 ; Meterage - 500 m , Period of completion - 12 months,

Review - After 3, 6 and 9 months

SL.No	Item Of Work*	Unit*	Rate As Per NMET SOC 2020-21		Estimated Cost of the Proposal		Justification/ Remarks
			SOC. Item No	Rate As Per revised SOC* (a)	Qty. (b)	Total Amount (Rs) (a*b)	
A	Detailed Geological Mapping Other Geological Work & Surveying						
i	Large Scale Geological mapping on 1:12500 scale including surface outcrop sampling and trench sampling	Per Sq.km	1.1	₹ 18,300.00	125.43	₹ 2,295,369.00	
ii	a. Charges for 2 Geologist per day (Field) for Geological mapping & Trenching work, drilling activity (without labour)	day	1.2.1a	₹ 14,500.00	45	₹ 652,500.00	
iii	b. Labours charges; Base rate (for 2 labours per geologists)	day	5.8	₹ 556.00	90	₹ 50,040.00	As per SoC
iv	c. Charges for Geologist per day (HQ)	day	1.2.1a	₹ 10,500.00	40	₹ 420,000.00	
	Sub Total- A					₹ 3,417,909.00	
B	Trenching/Pitting						
i	Trenching	per cu.m	2.1.1	₹ 4,125.00	100	₹ 412,500.00	10 numbers of trenches of dimension 10m×1m×1m.
	Sub Total- B					₹ 412,500.00	
C	Survey work						
i	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.3.2	₹ 24,000.00	8	₹ 192,000.00	

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		of observation					
	Sub Total- C					₹ 192,000.00	
D	Ground Geophysical Survey (in- house)						
i	Charge for SP survey	Per L.km	3.3a	₹ 62,140.00	10	₹ 621,400.00	After review of Mapping work
	Sub Total- D					₹ 621,400.00	
E	Drilling (after review) (in-house)						After review of Mapping work
i	Systematic Drilling (hard rock) (HQ)	per m	2.2.1.1d	₹ 10,000.00	500	₹ 5,000,000.00	8 nos of boreholes (60 m borehole length each) with 20 m Buffer
ii	Land / Crop Compensation (in case the BH falls in agricultural Land)	per borehole	5.6	₹ 30,000.00	8	₹ 240,000.00	As per actuals. 30000 per BH being maximum ceiling
iii	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7	₹ 2,000.00	8	₹ 16,000.00	
iv	Miscellaneous charges (Transportation of drilling rigs, accomodation for drilling camp, camp setting and winding construction of approach road making and drill core preservation)	Lumpsum	2.2.9	Drilling cost less than 50 lakh : 25% of the drilling cost		₹ 1,250,000.00	
v	Charges for one Sampler per day (1 Party)	one sampler per day	1.2.1b	₹ 7,850.00	46	₹ 361,100.00	
vi	Charges for Labour	day	5.8	₹ 556.00	184	₹ 102,304.00	
	Drill core preservation	per m	5.3	₹ 1,590.00	250	₹ 397,500.00	1 complete BH + remaining mineralised zone
	Sub Total- E					₹ 7,366,904.00	
F	Laboratory Studies						
1	Chemical Analysis						
i)	Surface Samples						
a	Proximate analysis	Nos	4.1.18	₹ 3,614.00	100	₹ 361,400.00	

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b	Proximate analysis (10% external check)	Nos	4.1.18	₹ 3,614.00	10	₹ 36,140.00	
ii	Trench Samples						
a	Proximate analysis	Nos	4.1.18	₹ 3,614.00	80	₹ 289,120.00	
b	Proximate analysis (10% external check)	Nos	4.1.18	₹ 3,614.00	8	₹ 28,912.00	
iii)	BH Core samples						
a	Proximate analysis	Nos	4.1.18	₹ 3,614.00	160	₹ 578,240.00	Considering intersection of 20 m mineralization in each borehole
b	Proximate analysis (10% external check)	Nos	4.1.18	₹ 3,614.00	16	₹ 57,824.00	
c	Analysis by ICPMS (14 REE + 9 Trace element)	Nos.	4.1.15	₹ 7,400.00	25	₹ 185,000.00	To check the availability of REE elements associated with graphite if any
	1 addl trace element (V)		4.1.17 b	₹ 421.00	25	₹ 10,525.00	
e	Raman Spectroscopy	Hrs.	4.5.1	₹ 2,700.00	5	₹ 13,500.00	
2	Physical & Petrological Studies						
i	Preparation of polished thin section of rock	Nos	4.3.2	₹ 800.00	10	₹ 8,000.00	5 BRS samples, 5 Core samples
ii	Complete petrographic/ ore microscopic study/ mineragraphic report of rock sample (along with 5 nos. digital photo micrograph)	Nos	4.3.4	₹ 2,800.00	10	₹ 28,000.00	
iii	petrochemical studies	Nos	4.1.17a	₹ 4,200.00	0	₹ 0.00	To validate the petrographic analysis by chemical analysis result
iv	Bulk density analysis	Nos	4.8.3	₹ 2,500.00	2	₹ 5,000.00	
	Sub Total- F					₹ 1,601,661.00	
G	Total A to F					₹ 13,612,374.00	
H	Geological Report Preparation	Soft copy	5.2 (iii)	total cost of project exceeding 50 lakh but less than 150 lakh		₹ 250,000.00	

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I	Peer review Charges	As per EC decision		₹ 30,000.00	1	₹ 30,000.00	
J	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	Soft copy	5.1	2% of the Cost or Rs. 5 Lakhs whichever is lower		₹ 272,247.48	
K	Total Estimated Cost without GST					₹ 14,164,621.48	
L	Provision for GST (18% of L)					₹ 2,549,631.87	GST will be reimbursed as per actual and as per notified prescribed rate
M	Total Estimated Cost with GST					₹ 16,714,253.35	
	Rs. In Lakhs					₹ 167.14	
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 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 5B

Time Schedule/Action Plan Reconnaissance survey (G-4 stage) of Graphite in Sonagara area, Bankura district, West Bengal

S.No	Nature of Work	Months																
		1	2	3	REVIEW	4	5	6	REVIEW	7	8	9	REVIEW	10	11	12		
1	Camp Set up																	
2	Geological mapping on 1:12500 scale (LSM) (sq. km)																	
3	Geophysical SP survey																	
4	Surface exploration- Trenching																	
5	Proximate analysis of surface samples																	
7	DGPS survey for fixation of borehole points																	
8	Drilling of Scout boreholes																	
10	Proximate analysis of subsurface samples																	
11	Geological report preparation, peer review and submission																	

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Agenda 102.1.16. Reconnaissance Survey (G4 Stage) for Ni-Co-Cr-PGE-Magnetite in Fakim Block, Kiphire District, Nagaland

Proposal ID: ME/DD/G4/NL/26-27/114

[Implementing Agency: M/s MMPL Private Limited]

- a. The proposed block falls within Survey of India Toposheet No. 83K/13 and forms part of the Naga Hills Ophiolites (NHO). The area is predominantly underlain by low-to medium-grade metasedimentary rocks, including phyllitic schist, quartzite, marble, calc-silicate rocks, gneiss and sheared granite.
- b. The Committee was informed that DGM Nagaland have stated that, considering the special status of Nagaland with respect to land and resources, any private agency undertaking mineral exploration in the State is required to obtain prior permission from the Government of Nagaland. Accordingly, M/s. MMPL was advised to obtain the requisite permission before further consideration of the proposal.
- c. The Committee was further informed that part of the proposed area falls within a Wildlife Sanctuary.
- d. It was further informed that the proposed block also has an overlap of about 95% with an ongoing CMAP programme of GSI.
- e. In view of above, the TCC did not approve the proposal.

Sl. No.	Agency	Brief Comments
1	GSI	Previous works have established potentiality of Ni along with associated Cr and Co in the regolith developed over the ultramafics and GSI is taking up several projects in the area. The proposed Fakim block of MMPL through NMEDT covers ~95% of North Pekim block which is an ongoing CMAP project of GSI, FS 2026-27. Minor southern part of Chipur-Thongsongyu area also overlaps Fakim block of MMPL.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	as per the unique status of Nagaland with regard to the land and resource, any private agency intending to take exploration work mineral exploration within the state of Nagaland required to obtain prior permission from the Government of Nagaland.
5	NMEDT	The proposed block overlap with NMEDT funded G3 Salumi Block for Limestone exploration and Wildlife Sanctuary (Protected Area) constitutes approximately 12.59% (10.07 sq km) of the proposed block.

Recommendations of TCC-1:

The Committee did not recommend the proposal, in view of the comments of State DGM, Nagaland, that the agency must obtain the requisite permission from the Government of Nagaland before further consideration. The Committee also noted that the proposed area overlaps with the ongoing CMAP programme of GSI and partly falls within a wildlife sanctuary.

Agenda 102.1.17. Preliminary Exploration (G3 Stage) of Limestone in Sikilangso Block, Dima Hasao District, Assam

Proposal ID: ME/DD/G3/AS/26-27/095

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[Implementing Agency: M/s MMPL Private Limited]

- a. The proposed block falls within Survey of India Toposheet No. 83C/11 and is mainly underlain by Upper Sylhet Limestone Member of the Shella Formation, Jaintia Group (Palaeocene–Eocene).
- b. The limestone is light to dark grey, thickly bedded, highly fossiliferous and compact, with shale, sandstone and marl of the Kopili Formation occurring mainly in the eastern part.
- c. The proposed block is surrounded by areas with substantial established limestone resources, including North Boro Hundong (474.8 MT), South Boro Hundong (592.63 MT) and Northwest Boro Lakhindong (~498.96 MT), with significant cement-grade limestone.
- d. The adjoining North Boro Hundong Block includes about 178.53 MT of Portland cement grade and 195.40 MT of blendable/beneficial cement-grade limestone, indicating favourable regional limestone potential.
- e. Representative limestone samples from the northeastern, central and southwestern parts of the proposed block recorded CaO of 41.12–52.26%, MgO of 0.81–1.28% and SiO₂ of 1.36–5.44%, indicating carbonate-rich limestone with relatively low impurities.
- f. The occurrence of fossiliferous limestone at multiple locations, along with favourable analytical results, indicates the potential continuity and persistence of limestone-bearing horizons within the proposed block.
- g. Considering the favourable geological setting, adjoining established resources and encouraging surface sample results, the agency proposed G-3 stage exploration to establish the thickness, lateral continuity, grade variation and resource potential of limestone.
- h. The proposed exploration comprises 1:4,000 scale detailed geological mapping, topographic/DGPS survey, surface sampling and pitting, drilling of 10 vertical boreholes totalling ~1,000 m, followed by core logging, sampling, chemical/petrographic/mineralogical studies, bulk density determination and 3D ore-body modelling for resource assessment under the applicable MEMC Rules/UNFC framework.
- i. The committee reviewed the proposal and observed that the GSI have mentioned that about 30% of the area overlaps Umrangso Lake Reservoir.
- j. Clarification from DGM Assam was also sought regarding the proposal.
- k. DGM Assam stated that the name of area may be changed as the area falls in Dithur area instead of Sikilangso. Moreover, the Sikilangso Limestone block which was explored by GSI has been successfully auctioned. Also the proposed block does not overlap with any of the projects of DGM Assam.
- l. The committee suggested the agency to exclude reservoir/lake area and modify the exploration plan accordingly.
- m. The committee reviewed the modified proposal and recommended for approval.

Sl. No.	Agency	Brief Comments
1	GSI	Previous GSI exploration (FS 2022-23) in the Sikilangso Block established a shallow, thick limestone zone (25.20–81.20 m with 97% core recovery. Limestone contains 34–49.35% CaO, but relatively high SiO ₂ and a total resource of 349.58 MT was estimated. However, about 30% of the proposed 4.26 sq km Sikilangso Central block overlaps the Umrangso Lake reservoir, which may constrain exploration.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.

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3	AMD	AMD has carried out reconnaissance exploration (G4 stage) for uranium in and around the proposed block. No significant surface radioactive zone was delineated.
4	State DMG/DGM/CGM	The area name may be changed as the area falls in Dithur area instead of Sikilangso. Moreover, the Sikilangso Limestone block which was explored by GSI has been successfully auctioned. No overlap, ML or CL in the area.
5	NMEDT	One G3/G2 auctional block of Limestone overlap with AOI of the proposed block. The proposed block do not overlap with NMEDT funded projects, ESA/ESZ, Tiger Corridor, Protected Area or RFA as per PM Gatishakti portal.

Recommendations of TCC-1:

The committee recommended the proposal titled “Preliminary Exploration (G3 Stage) of Limestone in Dithur Block, Dima Hasao District, Assam” for approval of PSC, NMEDT with an estimated cost of Rs. 224.36 lakhs (including GST) with a timeline of 10 months for carrying out the proposed work and submission of report as per Annexure – 6A & 6B. The item will be reviewed after 4 and 8 months.

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Annexure 6A

PRELIMINARY EXPLORATION (G3 STAGE) OF LIMESTONE IN Dithur BLOCK, DIMA HASAO DISTRICT, ASSAM
Area 2.81 sq. km, No.of BH: 7, Borehole meterage - 750 m (1 stratigraphic BH of 150 m, Remaining of approx 100 m depth) ; Schedule & timeline- 10 months Review: After 4 and 8 Months

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	Total Amount multiplying 1.5X (Rs) (a*b)
A	Geological Mapping Other Geological Work & Surveying						
	Detailed Geological mapping with contouring (1:4000 scale)	Per Sq Km	1.1	18,300	2.81	51,423	77,135
	a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.2.1 a	14,500	100	14,50,000	21,75,000
	b. Labours Charges; Base rate	day	5.8	556	200	1,11,200	1,66,800
	c. Charges for Geologist per day (HQ)	day	1.2.1 a	10,500	40	4,20,000	4,20,000
	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.2.1b	7,850	84	6,59,400	9,89,100
	e. Labours (4 Nos)	day	5.8	556	336	1,86,816	2,80,224
	Sub Total- A					28,78,839	41,08,259
B	Survey work						

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	DGPS Survey for BH fixation & RL determination and lease boundary demarcation	Per Point of observation	1.3.2	24,000	11	2,64,000	3,96,000
	Charges of one qualified surveyor with Total Station for carrying out topographical survey in different RF and surface contouring at different interval, fixation of borehole and determination of co- ordinates & Reduced Level (RL) of the boreholes with total station etc.	one surveyor per day	1.3.1	10,500	40	4,20,000	6,30,000
	Labours Charges for survey work;	day	5.8	556	160	88,960	1,33,440
	Sub-Total B					7,72,960	11,59,440
C	DRILLING IN HOUSE (after review)						
	Systematic Drilling up to 300m (soft Rock)	m	2.2.1.1e	5,500	750	41,25,000	61,87,500
	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH	5.6	30,000	7	2,10,000	3,15,000
	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7	2,000	11	22,000	33,000
	Miscellaneous Charges (Drill camp setting / transportation etc.)	Lumpsum	2.2.9			8,25,000	12,37,500
	Drill Core Preservation	m	5.3	1,590	700	11,13,000	16,69,500
	Sub-Total C					62,95,000	94,42,500
D	LABORATORY STUDIES						
1	Chemical Analysis						

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	Major oxide (WD XRD) (Oxides+traces 24 elements)	per sample	4.1.17a	4,200	675	28,35,000	28,35,000
	Major oxide (WD XRD) (Oxides+traces 24 elements) (10% external)	per sample	4.1.17a	4,200	68	2,85,600	2,85,600
2	Physical & Petrological Studies						-
	Preparation of thin section	Nos	4.3.1	500	10	5,000	5,000
	Study of thin section	Nos	4.3.4	2,800	10	28,000	28,000
	Sp. Gravity	Nos	4.8.1	2,500	5	12,500	12,500
	Sub-Total D					31,66,100	31,66,100
E	Total A toD					1,31,12,899	1,78,76,299
F	Geological Report Preparation		5.2	5.2 (i/ii/iii/iv)		2,50,000	7,50,000
G	Peer review Charges		As per EC decision			30,000	30,000
H	Preparation of Exploration Proposal		5.1	2% of the Cost or Rs. 5 Lakhs whichever is lower		2,62,258	3,57,526
I	Total Estimated Cost without GST					1,36,55,157	1,90,13,824
J	Provision for GST (18%)					24,57,928	34,22,488
K	Total Estimated Cost with GST					1,61,13,085	2,24,36,313
M				or Say Rs. In Lakhs		161.13	224.36
Note:							

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1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.
3	If any part of the project is outsourced, the amount will be reimbursed as per the Item no. 6 of NMEDT SoC. In case of execution of the project by NEA on its own, a Certificate regarding non outsourcing of any component/project is required.
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.
5	Any item of work not mentioned above shall be added as per SoC.
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency

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Annexure 6B

Timeline: PRELIMINARY EXPLORATION (G3 STAGE) OF LIMESTONE IN Dithur BLOCK, DIMA HASAO DISTRICT, ASSAM

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

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**Agenda 102.1.18. Preliminary Exploration (G3 Level) for REE & Associated
Rare Metals in Guranal-2 Block, Balotra District, Rajasthan
Proposal ID: ME/DD/G3/RJ/26-27/130**

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

- a. The proposed block falls within Toposheet No. 45C/06 and is underlain by plutonic and volcanic rocks of the Neoproterozoic Malani Igneous Suite, predominantly comprising medium- to coarse-grained pink rhyolite with vesicles and green mafic minerals such as riebeckite, arfvedsonite, aegirine, and aegirine-augite.
- b. The area forms part of Siwana Ring Complex of Rajasthan.
- c. The Committee reviewed the proposal and observed that the proposed area falls within the main Siwana Ring Complex, where regional-scale rapid assessment of soil-covered terrains for identification of high-potential REE and RM mineralized zones is currently underway. Since, future exploration strategy will be finalized based on the outcome of this assessment, the Committee did not consider the proposal at this stage.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed NPEA block overlaps (0.01 sq km) with G3 and G2 projects of GSI taken in FS 2022-23 and FS 2026-27. Based on previous G4 exploration work in Siwana area (G4) 2017-18 and South of Gudanal (G3) 2022-23, the proposed area seems favourable for REE-RM mineralisation.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed Guranal-2 Block falls adjacent to the Nal Exploration Block notified in favour of AMD which is under active exploration for U & Critical minerals by AMD.
4	State DMG/DGM/CGM	Awaited
5	NMEDT	One Minor Mineral Mining lease overlaps with the proposed block and the block fall in Siwana Ring Complex area where NMEDT has already allotted projects to various exploration agencies.

Recommendations of TCC-1:

The Committee did not approve the proposal, as the area falls within the main Siwana Ring Complex where regional-scale rapid assessment and delineation of high-potential REE and RM mineralized zones in soil-covered terrains are currently in progress. Further, exploration will be planned based on the outcome of this ongoing study.

**Agenda 102.1.19. Preliminary Exploration (G3 Level) for REE & Associated
Rare Metals in South of Gugrot Block, Balotra District, Rajasthan
Proposal ID: ME/DD/G3/RJ/26-27/127**

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

- a. The proposed block falls within Toposheet No. 45C/06 and is underlain by plutonic and volcanic rocks of the Neoproterozoic Malani Igneous Suite, predominantly comprising medium- to coarse-grained pink rhyolite with vesicles and green mafic minerals such as riebeckite, arfvedsonite, aegirine, and aegirine-augite.

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- b. The area forms part of Siwana Ring Complex of Rajasthan.
- c. The Committee reviewed the proposal and observed that the proposed area falls within the main Siwana Ring Complex, where regional-scale rapid assessment of soil-covered terrains for identification of high-potential REE and RM mineralized zones is currently underway. Since, future exploration strategy will be finalized based on the outcome of this assessment, the Committee did not consider the proposal at this stage.

Sl. No.	Agency	Brief Comments
1	GSI	Based on previous G4 exploration work in Siwana area (G4) and Chhappan-ka-Pahar, (G4) and Sukleshwar ka Mandir (G3), the proposed area seems favorable for REE-RM mineralization.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed South of Gugrot Block falls adjacent to the Nal Exploration Block notified in favor of AMD which is under active exploration for U & Critical minerals by AMD.
4	State DMG/DGM/CGM	Awaited
5	NMEDT	The block fall in Siwana Ring Complex area where NMEDT has already allotted projects to various exploration agencies apart from that the proposed area falls within the Recorded Forest Area (approx. 95%)

Recommendations of TCC-1:

The Committee did not approve the proposal, as the area falls within the main Siwana Ring Complex where regional-scale rapid assessment and delineation of high-potential REE and RM mineralized zones in soil-covered terrains are currently in progress. Further, exploration will be planned based on the outcome of this ongoing study.

Agenda 102.1.20. Preliminary Exploration (G3 Level) for REE & Associated Rare Metals in South of Siner South Block, Balotra District, Rajasthan

Proposal ID: ME/DD/G3/RJ/26-27/128

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

- a. The proposed block falls within Toposheet No. 45C/06 and is underlain by plutonic and volcanic rocks of the Neoproterozoic Malani Igneous Suite, predominantly comprising medium- to coarse-grained pink rhyolite with vesicles and green mafic minerals such as riebeckite, arfvedsonite, aegirine, and aegirine-augite.
- b. The area forms part of Siwana Ring Complex of Rajasthan.
- c. The Committee reviewed the proposal and observed that the proposed area falls within the main Siwana Ring Complex, where regional-scale rapid assessment of soil-covered terrains for identification of high-potential REE and RM mineralized zones is currently underway. Since, future exploration strategy will be finalized based on the outcome of this assessment, the Committee did not consider the proposal at this stage.

Sl. No.	Agency	Brief Comments
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1	GSI	The proposed NPEA block overlaps (0.04 sq km) with G3 projects of GSI taken in FS 2022-23. Based on previous G4 exploration work in Siwana area (G4) and Chhappan-ka-Pahar, (G4), and Kalor ka Danta (G3), the proposed area seems favorable for REE-RM mineralisation.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed South of Gugrot Block falls adjacent to the Nal Exploration Block notified in favor of AMD which is under active exploration for U & Critical minerals by AMD.
4	State DMG/DGM/CGM	Awaited
5	NMEDT	The block fall in Siwana Ring Complex area where NMEDT has already allotted projects to various exploration agencies apart from that the proposed area falls within the Recorded Forest Area (approx. 95%)

Recommendations of TCC-1:

The Committee did not approve the proposal, as the area falls within the main Siwana Ring Complex where regional-scale rapid assessment and delineation of high-potential REE and RM mineralized zones in soil-covered terrains are currently in progress. Further, exploration will be planned based on the outcome of this ongoing study.

Agenda 102.1.21. Preliminary Exploration (G3) for Base Metals and Associated Minerals in and around Narvakatipalle Block, Y.S.R. Kadapa District, Andhra Pradesh

Proposal ID: ME/IND/G3/AP/P/26-27/011

[Implementing Agency: M/s GeoExpOre Pvt Ltd]

- The proposed block falls within SOI Toposheet No. 57J/15 and exposes lithounits belonging to the Cumbum Formation of the Nallamalai Group, Cuddapah Supergroup.
- The agency informed the Committee that GSI had undertaken G-4 stage reconnaissance exploration during 2019–20, wherein 278 bedrock samples, 50 PTS samples and 10 petrochemical samples were collected and analysed for Cu, Pb, Zn, Au, Ag, Sn, W, Co, Mo, As and Ni.
- During the investigation, GSI delineated several dolomite bands associated with Pb–Zn mineralisation in the Cumbum Formation.
- The Cumbum Formation in the study area exhibits a series of alternating antiform and synform structures. The associated deformation and remobilisation have favoured concentration of mineralisation, particularly along the fold cores and hinge zones, which acted as favourable dilation zones for mineral deposition.
- Within the proposed block, 12 potential dolomite bands trending NNW–SSE, with low to steep easterly to westerly dips, have been identified based on geochemical data. These bands have a cumulative strike length of approximately 6.82 km and widths ranging from 15–30 m.
- The identified dolomite bands recorded Zn values of 15 ppm–9.25% (average 2.59%), Pb values of 5 ppm–5.12% (average 0.93%), and combined Pb+Zn values of 20 ppm–11.00% (average 3.53%), indicating significant Pb–Zn mineralisation potential.

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- g. The proposal was earlier discussed in the 97th TCC-1 meeting, wherein the Committee advised the agency to submit a comprehensive, phased exploration plan and compile and plot all available geological and geophysical data on appropriate maps for integrated interpretation. The agency complied with the suggestions of TCC.
- h. The Committee had accorded in-principle approval, subject to comments from DGM, Andhra Pradesh. DGM has provided the comments on the proposal.
- i. The committee reviewed the proposal and DGM, Andhra Pradesh has provided comments and it was informed that no there is no CL/ML for Major/Minor minerals in the proposed area.
- j. The committee suggested the agency to carry out the exploration work in two phases, phase-1 involving Detailed Geological mapping, systematic channel samples, pitting & trenching, Geophysical survey (IP) and phase-2 involving systematic drilling as per MEMC norms. Drilling will be carried out for 60 m vertical intersection of the mineralized zone with 800 m drilling for 10 boreholes and each borehole of 80 m depth.

Sl. No.	Agency	Brief Comments
1	GSI	The area was covered by G4 stage of exploration during FS: 2019-20. At present no G3 stage exploration work is undertaken in the proposed block. The area may be considered feasible for further exploration.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	The proposed Block has no overlap with previous exploration work of DMG. Dolomite is identified as an associated mineral, and the area is considered prospective for mineral occurrences. No Composite Licence or Mining Lease has been granted in the block area.
5	NMEDT	The proposed block do not overlap with NMEDT funded projects, however a some portion fall in Recorded Forest Area.

Recommendations of TCC-1:

The committee recommended the proposal titled “Preliminary Exploration (G3 Stage) for Base Metals and Associated Minerals in Narvakatipalle Block, Y.S.R Kadapa District, Andhra Pradesh” for approval of PSC, NMEDT with an estimated cost of Rs. 263.86 lakhs (including GST) with a timeline of 12 months for carrying out the proposed work and submission of report as per Annexure – 7A & 7B. The item will be reviewed after 3, 6 and 9 months.

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Annexure 7A

Preliminary Exploration (G3 Stage) for Base Metals and Associated Minerals in Narvakatipalle Block, Y.S.R Kadapa District, Andhra Pradesh

Area of 4.76 Sq. Km, Scale: 1:2,000, No. of BH:10 nos., Borehole depth: 80 m depth ; Total drilling - 800 m; Schedule timeline - 12 months
Review: After 3, 6 and 9 Months

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2025-26		Estimated Cost of the Proposal		Remarks
			SoC-Item No. *	Rates as per SoC *	Qty.	Total Amount (Rs)	
				(a)	(b)	(a*b)	
	1st Phase						
A	Geological Mapping, Other Geological Work & Surveying						
i	Geological mapping with contouring, (1:2,000 scale)	Per sq. km	1.1	18,300	4.76	87,108	
ii	Charges for Geologist per day (Field) for geological mapping & trenching work	day	1.2.1a	14,500	140	2,030,000	For Mapping, Trenching and Drilling
iii	Labours Charges (2 Nos.); Base rate	day	5.8	556	280	155,680	
iv	Charges for Geologist per day (HQ)	day	1.2.1a	10,500	40	420,000	
v	Charges for surveyor for mapping	Day	1.3.1	10,500	40	420,000	
vi	Labours for Surveyor (4 Nos.)	Day	5.8	556	160	88,960	
vii	Charges for one Sampler per day	one sampler per day	1.2.1b	7,850	68	533,800	
viii	Labours (4 Nos) (for sample processing)	day	5.8	556	272	151,232	
	Sub Total – A					3,886,780	
B	Ground Geophysical Survey						
i	Induced Polarisation	L. Km	3.4a	69950	20	1,399,000	
	Sub Total – B					1,399,000	
C	Trenching/Pitting						
i	Excavation of Trenches	per cu..m	2.1.1	4,125	100	412,500	10 trenches (10*1*1)
	Sub Total – C					412,500	
D	Survey work						

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i	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.3.2	24,000	14	336,000	10 Boreholes + 4 Cardinal points = 14
	Sub Total – D					336,000	
E	LABORATORY STUDIES						
1	Chemical Analysis						
i)	Geochemical Sampling-Surface samples (Bedrock/Soil/SS)						
a)	BRS/Channel Samples - Base metal elemental analysis – Trace by ICP MS Method	Nos.	4.1.15	7,400	100	740,000	Surface bedrock samples
ii)	Surface Check samples (10% External)						
a)	BRS - Base metal elemental analysis – Trace by ICP MS Method	Nos.	4.1.15	7,400	10	74,000	10 % of the Primary samples
iii)	Trench & Check Samples from Trench						
	Trench Samples						
a)	Base metal elemental analysis – Trace ICP MS Method	Nos.	4.1.15	7,400	80	592,000	
iv)	Trench Check samples (10% External)						
a)	Trench Samples - Base metal elemental analysis – Trace by ICP MS Method	Nos.	4.1.15	7,400	8	59,200	10 % of the Primary samples
	Sub Total – E					1,465,200	
	2 nd Phase						
G	Drilling (in-House) (After Review)						
i	Drilling (Very Hard rock) (HQ size)	Per m	2.2.1.1d	10,000	800	8,000,000	
ii	Land / Crop compensation (in case the BH falls in agricultural Land)	Per BH	5.6	30,000	10	300,000	As per actuals as certified by local authorities subject to a maximum of 30,000 per bore hole

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iii	Construction of concrete pillar (12” x 12” x 30”)	Per BH	2.2.7	2,000	10	20,000	As per actuals
iv	Borehole plugging by cement	Lumpsum per BH	2.2.8	10,000	10	100,000	per borehole
v	Drill Core Preservation	per m	5.3	1,590	400	636,000	(400 m to be preserved, 1 complete BH + mineralised zones from other boreholes
vi	Miscellaneous charges (Transportation of Drilling Rig, Accommodation for Drill camp, Camp setting and winding construction of Approach Road and Drill core preservation)	Lumpsum	2.2.9	For Drilling cost more than 50 lakh and upto 1 Cr: 20% of the Drilling Cost with a maximum ceiling of ₹ 20 lakh.		1,500,000	
	Sub Total - G					10,556,000	
H	LABORATORY STUDIES						
1	Chemical Analysis						
v)	BH Core samples						
a)	Base metal elemental analysis – Trace by ICP MS Method	Nos.	4.1.15	7,400	350	2,590,000	
vi)	BH Core samples (10%External)						
a)	Base metal elemental analysis – Trace by ICP MS Method	Nos.	4.1.15	7,400	35	259,000	10 % of the Primary samples
b)	XRD Studies	Nos.	4.5.2	4,000	10	40,000	
d)	Major oxides (WD XRF) – (oxides + Traces -24 elements)	Nos.	4.1.17 a	4,200	10	42,000	
e)	Analysis for Au by Fire Assay method	Nos.	4.1.5a	3,500	5	17,500	
2	Physical & Petrological Studies						
i	Preparation of Polished cum. thin section	Nos	4.3.1	800	10	8,000	

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ii	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo micrographs)	Nos	4.3.4	2,800	10	28,000	
iii	Bulk Density	Nos	4.8.3	2,500	5	12,500	
iv	EPMA studies	per hour	4.4.1	10,500	10	105,000	
	Sub Total - H					3,102,000	
I	Total A to H					21,157,480	
H	Preparation of Exploration Proposal		5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is less		423,150	
I	Geological Report Preparation a soft copy)	Cost per 5 Hard copies with a soft copy	5.2	5.2 (iii)		750,000	Total cost of the project exceeding ₹150 lakh ₹7.5 lakh
J	Peer review Charges		As per EC decision			30,000	
K	Total Estimated Cost without GST					22,360,630	22,057,996
L	Provision for GST (18% of L)					4,024,913	GST will be reimbursed as per actual and as per notified prescribed rate
M	Total Estimated Cost with GST					26,385,543	
				or Say Rs. In Lakhs		263.86	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						

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2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 6 of NMEDT SoC. In case of execution of the project by NEA/NPEA on its own, a Certificate regarding non outsourcing of any component/project is required.
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.
5	Any item of work not mentioned above shall be added as per SoC.
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.

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Annexure 7B															
Time Schedule Preliminary Exploration (G3 Stage) for Base Metals and Associated Minerals in Narvakatipalle Block, Y.S.R Kadapa District, Andhra Pradesh															
Item of Work	1	2	3		4	5	6		7	8	9		10	11	12
Camp Setting				REVIEW				REVIEW				REVIEW			
Geological Mapping (1:2,000 SCALE)															
Bed Rock / Channel Sampling (BRS)															
Trenching															
Laboartary Studies															
I.P Geophysical Survey (20 line k.m)															
Explotary Drilling Boreholes 10 Nos.(800meter)															
Camp Winding															
Geological Report Writing with Peer Review and submission															

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Agenda 102.2: Project Evaluation for In-Principle Approval

Agenda 102.2.1. Preliminary Exploration (G-3 Stage) for Bauxite, Vanadium and Associated Minerals in South of Jampani, Tehsil: Bajag, District – Dindori, Madhya Pradesh Proposal ID: ME/IN/G3/MP/P/26-27/152

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

- The proposed block falls within Survey of India Toposheet Nos. 64F/05 and 64F/06 and is underlain by the Tirodi Gneissic Complex (Archean), Lameta Formation, basaltic lava flows of the Amarkantak Group of the Deccan Supergroup, and bauxite/laterite caps developed over the basaltic flows.
- Pandhare, S.A. (FS: 1969–70) carried out investigations for bauxite and laterite in parts of Toposheet No. 64F/06 around Chara village, Dindori District (then Mandla District), and classified the laterites into different types, including massive, pisolitic and recemented conglomeratic laterites.
- G.L. Rahangdaley (FS: 1969–70 & 1973–74) conducted detailed investigations for bauxite and laterite around Khamera, Khapripani, Jalda and Chara villages, Dindori District, and estimated a resource of 7.98 million tonnes.
- GSI carried out G-4 stage reconnaissance exploration for bauxite and aluminous laterite mineralisation around Vikrampur Mal, Dhanoli Mal, Gorkahpur Mal and Mohtara, Dindori District, Madhya Pradesh, during FS: 2022–23.
- Analytical results of BRS samples from bauxite and aluminous laterite recorded Al_2O_3 values of 19.65–60.38%, SiO_2 of 1.76–29.67%, $\text{Fe}_2\text{O}_3\text{T}$ of 3.5–41.8% and TiO_2 of 2.25–11.22%. Vanadium values ranged from 182.39–1,906.2 ppm and Ga from 30.47–105.07 ppm, indicating enrichment of associated elements.
- During mapping, 13 BRS and 4 pit samples were collected from the Jampani area. The BRS samples recorded 537.24–1,449.03 ppm V and 21.43–46.62% Al_2O_3 , while pit samples recorded 860.58–1,369.08 ppm V and 27.16–30.24% Al_2O_3 .
- In view of the above exploration results, the agency proposed G-3 stage exploration to assess the resource potential of bauxite, vanadium and associated minerals, comprising 1:4,000 scale detailed mapping, geochemical sampling, pitting/trenching, ground geochemical survey and exploratory drilling for resource assessment under UNFC 333 category.
- The Committee reviewed the proposal and observed that the major part of the proposed area is covered by basalt, with only thin and discontinuous occurrences of bauxite and aluminous laterite, which were considered insufficient to justify undertaking G-3 stage exploration.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed area lies within the Bauxite-anomalous block and shares similar geological, lithological, and structural characteristics, which may be feasible for taking up Bauxite and associated minerals exploration in the proposed area.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	Awaited

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5	NMEDT	The proposed block does not overlap with NMEDT funded projects however, one NMEDT funded block is present beside the proposed block. The whole (100%) area of proposed block fall in Recorded Forest Area.
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Recommendations of TCC-1:

The Committee did not recommend the proposal for G-3 stage exploration, as the proposed area is predominantly covered by basalt, with only thin and discontinuous occurrences of bauxite and aluminous laterite, which are insufficient to justify G-3 stage exploration.

Agenda 102.2.2. Preliminary Exploration (G-3 Stage) for Bauxite, Vanadium and Associated Minerals in Lakahnpur, Tehsil- Bajag, District – Dindori, Madhya Pradesh

Proposal ID: ME/IN/G3/MP/P/26-27/160

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

- The proposed block falls within Survey of India Toposheet Nos. 64F/05 and 64F/06 and is underlain mainly by the Tirodi Gneissic Complex (Archean), Lameta Formation, basaltic lava flows of the Amarkantak Group of the Deccan Supergroup, and bauxite/laterite caps developed over the basaltic flows.
- Pandhare, S.A. (FS: 1969–70) carried out investigations for bauxite and laterite around Chara village, Dindori District (then Mandla District), and classified the laterites into different types, including massive, pisolitic and recemented conglomeratic laterites.
- G.L. Rahangdaley (FS: 1969–70 & 1973–74) conducted detailed investigations for bauxite and laterite around Khamera, Khapripani, Jalda and Chara villages, Dindori District, and estimated a resource of 7.98 million tonnes.
- GSI carried out G-4 stage reconnaissance exploration for bauxite and aluminous laterite mineralisation around Vikrampur Mal, Dhanoli Mal, Gorkahpur Mal and Mohtara, Dindori District, Madhya Pradesh, during FS: 2022–23.
- Analytical results of BRS samples from bauxite and aluminous laterite recorded Al_2O_3 values of 19.65–60.38%, SiO_2 of 1.76–29.67%, $\text{Fe}_2\text{O}_3\text{T}$ of 3.5–41.8%, TiO_2 of 2.25–11.22%, V of 182.39–1,906.2 ppm and Ga of 30.47–105.07 ppm, indicating enrichment of alumina and associated elements.
- During mapping around Lakhanpur village, 08 BRS and 06 pit samples were collected. The BRS samples recorded 496.38–1,590.95 ppm V and 31.40–53.83% Al_2O_3 , while pit samples recorded 574.53–1,158.12 ppm V and 32.24–39.01% Al_2O_3 .
- In view of the above exploration data, the agency proposed G-3 stage exploration to assess the resource potential of bauxite, vanadium and associated minerals, comprising 1:2000 scale detailed mapping, geochemical sampling, pitting/trenching, ground geochemical survey and exploratory drilling for resource assessment under UNFC 333 category.
- The Committee reviewed the proposal and observed that the major part of the proposed area is covered by basalt, with only a few thin, lensoidal and discontinuous occurrences of bauxite and aluminous laterite, which are considered insufficient to justify G-3 stage exploration.

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Sl. No.	Agency	Brief Comments
1	GSI	The proposed area lies within the Bauxite-anomalous block and shares similar geological, lithological, and structural characteristics, which may be feasible for taking up Bauxite and associated minerals exploration in the proposed area.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	Awaited
5	NMEDT	The proposed block does not overlap with NMEDT funded projects however, one NMEDT funded block is present beside the proposed block. The whole (96%) area of proposed block fall in Recorded Forest Area.

Recommendations of TCC-1:

The Committee did not recommend the proposal for G-3 stage exploration, as the proposed area is predominantly covered by basalt, with only a few thin, lensoidal and discontinuous occurrences of bauxite and aluminous laterite, which are insufficient to justify G-3 stage exploration.

Agenda 102.2.3. Reconnaissance Survey (G4) for Glauconite in Punamnagar area, Jaisalmer District, Rajasthan

Proposal ID: ME/IN/G4/RJ/P/26-27/164

[Implementing Agency: M/s Shijay Projects India Private Limited]

- The proposed block falls within Survey of India Toposheet No. 40I/12 and is underlain by sedimentary rocks of the Jaisalmer Basin, comprising fossiliferous limestone, calcareous sandstone, glauconitic and bentonitic clay, shale, grit and conglomerate.
- GSI carried out G-4 stage reconnaissance exploration for low-silica SMS/cement-grade limestone in the South Khuiala Block, Jaisalmer District, Rajasthan (FS: 2017–18). Based on 500 m of drilling in six boreholes, a resource of 31.27 million tonnes of cement-grade limestone was estimated, with average CaO of 46.43% and SiO₂ of 9.08%.
- GSI conducted G-2 stage general exploration in the Kamiyon Ki Beri Block (FS: 2018–19), involving 1,320 m of drilling in 32 vertical boreholes on a 400 m grid. An indicated resource of 180.40 million tonnes of cement-grade limestone was estimated, with average CaO of 49.54% and SiO₂ of 6.44%.
- G-2 stage exploration was also carried out in the Bharmal Ki Tekri Block (FS: 2018–19), involving 910 m of drilling through 23 boreholes on a 400 m grid. An indicated resource of 32.151 million tonnes of cement-grade limestone was estimated, with average CaO of 48.57% and SiO₂ of 5.78%.
- In view of the above exploration data, the agency proposed G-4 stage reconnaissance exploration to assess the glauconite mineralisation potential, comprising 1:12500 scale detailed geological mapping, geochemical sampling, pitting/trenching and exploratory drilling for resource assessment under UNFC 334 category.
- The Committee reviewed the proposal and observed that, as per the information furnished by DGM, Rajasthan, the proposed block falls within the Great Indian Bustard boundary area and exploration is not allowed for now.

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g. The committee did not recommend proposal as the area falls within GIB boundary.

Sl. No.	Agency	Brief Comments
1	GSI	Previous GSI exploration focused on cement- and SMS-grade limestone, with no Glauconite unit reported. The area may be considered for Glauconite exploration after detailed geological studies confirm its presence and extent.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	Written communication awaited. However, representative from DMG stated that the area falls within GIB boundary
5	NMEDT	Mining Lease for Minor Mineral is overlapping with the proposed block however, the proposed block do not overlap with NMEDT funded projects.

Recommendations of TCC-1:

The Committee did not recommend the proposal, as the proposed area falls within the Great Indian Bustard (GIB) boundary.

Agenda 102.2.4. Detailed Investigations for Glauconite and Limestone around Mashuriyan Area, Jaisalmer District, Rajasthan Proposal ID: ME/IN/G2/RJ/P/26-27/165

[Implementing Agency: M/s Shijay Projects India Private Limited]

- The proposed block falls within Survey of India Toposheet Nos. 40J/06 and 40J/10 and is underlain by sedimentary rocks of the Jaisalmer Basin, comprising fossiliferous limestone, calcareous sandstone, glauconitic and bentonitic clay, shale, grit and conglomerate.
- GSI carried out investigations for glauconite in the Mashuhiyan area, Jaisalmer District (FS: 1983–84). Subsurface drilling totalling 938.35 m, along with geological mapping, identified glauconite-bearing horizons within the Sanu Formation, particularly its argillaceous members comprising shale, clay, glauconitic-pyritic sandstone and carbonaceous shale with marine fossils.
- Subsurface drilling confirmed glauconite mineralisation within the Sanu Formation at depths of 73–110 m, with moderate K₂O values. The investigation estimated possible reserves of 21.53 million tonnes, averaging 4.51% K₂O, along with associated limestone horizons in the Khuiala Formation and related units.
- GSI also carried out G-4 stage reconnaissance exploration for low-silica SMS/cement-grade limestone in the Nibh Dungar area, Jaisalmer District (FS: 2019–20), estimating 325.81 million tonnes of cement-grade limestone with average 48.73% CaO, 6.98% SiO₂ and 0.88% MgO, at an average thickness of 9.33 m.
- In view of the above exploration data, the agency presented the proposed block for assessment of its glauconite mineralisation potential.
- The Committee observed that clarification from DGM, Rajasthan regarding whether the proposed block falls within the Great Indian Bustard (GIB) area/Desert National Park and associated Eco-Sensitive Area is awaited.
- The Committee advised the agency to undertake a field visit, establish the physical occurrence of glauconite horizons/bands, collect representative samples and submit an in-principle proposal with analytical results, subject to receipt of the requisite clarification from DGM, Rajasthan.

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Sl. No.	Agency	Brief Comments
1	GSI	Previous GSI exploration (1983-84) considered the Mashuriyan Glauconite deposit a low-priority target due to water scarcity, harsh desert conditions and deeper occurrence. As adjacent areas are prospective for cement- and SMS-grade limestone, the area may be considered for limestone exploration.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	Awaited
5	NMEDT	The proposed block do not overlap with NMEDT funded projects, however a some portion fall in Eco Sensitive Zone, Recorded Forest Area (44%), and Protected Area (National Park- 38%) as per PM Gatishakti Portal.

Recommendations of TCC-1:

The Committee did not recommend the proposal at this stage, as clarification from DGM, Rajasthan regarding the status of the proposed block with respect to the Great Indian Bustard Boundary and associated Eco-Sensitive Area is awaited.

The agency was advised to undertake a field visit, establish the occurrence of glauconite horizons/bands through field evidence and sampling, and submit an in-principle proposal with analytical data, subject to the requisite clarification from DGM, Rajasthan.

**Agenda 102.2.5. Preliminary Survey for REE, RM and Associated Minerals in Dantala Block, Tehsil Siwana, Balotra District, Rajasthan (G3)
Proposal ID: ME/IN/G3/RJ/P/26-27/137**

[Implementing Agency: M/s South West Pinnacle Exploration Limited]

- The proposed block falls within Toposheet No. 45C/06 and is underlain by plutonic and volcanic rocks of the Neoproterozoic Malani Igneous Suite, predominantly comprising medium- to coarse-grained pink rhyolite with vesicles and green mafic minerals such as riebeckite, arfvedsonite, aegirine, and aegirine-augite.
- The area forms part of Siwana Ring Complex of Rajasthan.
- The Committee reviewed the proposal and observed that the proposed area falls within the main Siwana Ring Complex, where regional-scale rapid assessment of soil-covered terrains for identification of high-potential REE and RM mineralized zones is currently underway. Since, future exploration strategy will be finalized based on the outcome of this assessment, the Committee did not consider the proposal at this stage.

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Sl. No.	Agency	Brief Comments
1	GSI	Previous GSI exploration recorded Σ REE+Y concentrations of 265–8,985 ppm, with significant enrichment of associated rare metals, including Zr (10,173 ppm), Nb (853 ppm), Hf (666 ppm) and Th (77 ppm). The area therefore shows good potential for REE and rare-metal mineralization.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block overlaps with already explored (G1 stage) Dantala Block of AMD and the notified Dantala – Bijaliya - Durgapura block of AMD (map enclosed). Further, G3 stage exploration in Dantala Block is under progress. In view of the above, the proposed block is not recommended to avoid duplication of work.
4	State DMG/DGM/CGM	Awaited
5	NMEDT	NMEDT has allotted projects to various exploration agencies within the Siwana Ring Complex area. Hence, the proposal can be deferred/rejected till the completion of already allotted work.

Recommendations of TCC-1:

The Committee did not approve the proposal, as the area falls within the main Siwana Ring Complex where regional-scale rapid assessment and delineation of high-potential REE and RM mineralized zones in soil-covered terrains are currently in progress. Further, exploration will be planned based on the outcome of this ongoing study.

Agenda 102.2.6. Preliminary Survey for REE, RM and Associated Minerals in Lalana Block, Tehsil Siwana, Balotra District, Rajasthan (G3) Proposal ID: ME/IN/G3/RJ/P/26-27/138

[Implementing Agency: M/s South West Pinnacle Exploration Limited]

- The proposed block falls within Toposheet No. 45C/06 and is underlain by plutonic and volcanic rocks of the Neoproterozoic Malani Igneous Suite, predominantly comprising medium- to coarse-grained pink rhyolite with vesicles and green mafic minerals such as riebeckite, arfvedsonite, aegirine, and aegirine-augite.
- The area forms part of Siwana Ring Complex of Rajasthan.
- The Committee reviewed the proposal and observed that the proposed area falls within the main Siwana Ring Complex, where regional-scale rapid assessment of soil-covered terrains for identification of high-potential REE and RM mineralized zones is currently underway. Since, future exploration strategy will be finalized based on the outcome of this assessment, the Committee did not consider the proposal at this stage.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed NPEA block overlaps 1.29 sq km with GSI's approved G3 projects (FS 2027-28), while the total block area of 7.62 sq km is considered large for G3 exploration. Previous GSI exploration recorded Σ REE+Y up to 9,765 ppm in Rhyolite, with an average of 1,845 ppm, and 1,400 ppm in felsic/Rhyolitic dykes, indicating

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		favorable potential for REE and Rare-Metal mineralization.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block falls adjacent to the Bhatikhhera Block explored by AMD. Geological Report on exploration carried out by AMD in Bhatikhhera area has been submitted to Government of Rajasthan and Ministry of Mines vide letter dated 20.12.2024. The Bhatikhhera Block has been explored by AMD at G2 stage, wherein substantial REO resources have been established.
4	State DMG/DGM/CGM	Awaited
5	NMEDT	NMEDT has allotted projects to various exploration agencies within the Siwana Ring Complex area. Hence, the proposal can be deferred/rejected till the completion of already allotted work.

Recommendations of TCC-1:

The Committee did not approve the proposal, as the area falls within the main Siwana Ring Complex where regional-scale rapid assessment and delineation of high-potential REE and RM mineralized zones in soil-covered terrains are currently in progress. Further, exploration will be planned based on the outcome of this ongoing study.

Agenda 102.2.7. Preliminary Survey for REE, RM and Associated Minerals in Siner Block, Tehsil Siwana, Balotra District, Rajasthan (G3) Proposal ID: Proposal ID: ME/IN/G3/RJ/P/26-27/139

[Implementing Agency: M/s South West Pinnacle Exploration Limited]

- The proposed block falls within Toposheet No. 45C/06 and is underlain by plutonic and volcanic rocks of the Neoproterozoic Malani Igneous Suite, predominantly comprising medium- to coarse-grained pink rhyolite with vesicles and green mafic minerals such as riebeckite, arfvedsonite, aegirine, and aegirine-augite.
- The area forms part of Siwana Ring Complex of Rajasthan.
- The Committee reviewed the proposal and observed that the proposed area falls within the main Siwana Ring Complex, where regional-scale rapid assessment of soil-covered terrains for identification of high-potential REE and RM mineralized zones is currently underway. Since, future exploration strategy will be finalized based on the outcome of this assessment, the Committee did not consider the proposal at this stage.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed NPEA block overlaps 7 sq km with GSI's G3/G2 projects (FS 2022-23, 2025-26 and approved FS 2027-28), while the total area of 16.50 sq km is considered large for G3 exploration. Previous GSI exploration recorded $\Sigma\text{REE}+\text{Y}$ values of 265–8,985 ppm, with significant Zr, Nb, Hf and Th enrichment, indicating favorable potential for REE and rare-metal mineralization.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.

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3	AMD	The proposed block partially overlaps with notified block of AMD. Grab samples (n=17) from Nal block analysed REO av. 0.79%; Nb ₂ O ₅ av. 0.089% and ZrO ₂ av. 1.92%. In view of the above, the boundary of the proposed block may be modified to avoid duplication of work.
4	State DMG/DGM/CGM	Awaited
5	NMEDT	NMEDT has allotted projects to various exploration agencies within the Siwana Ring Complex area. Hence, the proposal can be deferred/rejected till the completion of already allotted work.

Recommendations of TCC-1:

The Committee did not approve the proposal, as the area falls within the main Siwana Ring Complex where regional-scale rapid assessment and delineation of high-potential REE and RM mineralized zones in soil-covered terrains are currently in progress. Further, exploration will be planned based on the outcome of this ongoing study.

**Agenda 102.2.8. Preliminary Survey for REE, RM and associated Minerals in Nal Block, Tehsil Siwana, Balotra District of Rajasthan (G3)
Proposal ID: ME/IN/G3/RJ/P/26-27/140**

[Implementing Agency: M/s South West Pinnacle Exploration Limited]

- The proposed block falls within Toposheet No. 45C/06 and is underlain by plutonic and volcanic rocks of the Neoproterozoic Malani Igneous Suite, predominantly comprising medium- to coarse-grained pink rhyolite with vesicles and green mafic minerals such as riebeckite, arfvedsonite, aegirine, and aegirine-augite.
- The area forms part of Siwana Ring Complex of Rajasthan.
- The Committee reviewed the proposal and observed that the proposed area falls within the main Siwana Ring Complex, where regional-scale rapid assessment of soil-covered terrains for identification of high-potential REE and RM mineralized zones is currently underway. Since, future exploration strategy will be finalized based on the outcome of this assessment, the Committee did not consider the proposal at this stage.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed NPEA block overlaps 0.1 sq km with GSI's G3 project (FS 2022-23), while the total area of 10.27 sq km is considered large for G3 exploration. Previous GSI exploration recorded ΣREE+Y values of 265–8,985 ppm, along with significant Zr, Nb, Hf and Th enrichment, indicating favorable potential for REE and rare-metal mineralization.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block overlaps with notified block of AMD. Grab samples (n=17) from Nal block analysed REO av. 0.79%; Nb ₂ O ₅ av. 0.089% and ZrO ₂ av. 1.92%. In view of the above, the proposed block is not recommended to avoid duplication of work.

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4	State DMG/DGM/CGM	Awaited
5	NMEDT	NMEDT has allotted projects to various exploration agencies within the Siwana Ring Complex area. Hence, the proposal can be deferred/rejected till the completion of already allotted work.

Recommendations of TCC-1:

The Committee did not approve the proposal, as the area falls within the main Siwana Ring Complex where regional-scale rapid assessment and delineation of high-potential REE and RM mineralized zones in soil-covered terrains are currently in progress. Further, exploration will be planned based on the outcome of this ongoing study.

Agenda 102.2.9. Preliminary Survey for REE, RM and Associated Mineral in South of Lalana Block, Tehsil Siwana, Balotara District of Rajasthan (G3)

Proposal ID: ME/IN/G3/RJ/P/26-27/141

[Implementing Agency: M/s South West Pinnacle Exploration Limited]

- The proposed block falls within Toposheet No. 45C/06 and is underlain by plutonic and volcanic rocks of the Neoproterozoic Malani Igneous Suite, predominantly comprising medium- to coarse-grained pink rhyolite with vesicles and green mafic minerals such as riebeckite, arfvedsonite, aegirine, and aegirine-augite.
- The area forms part of Siwana Ring Complex of Rajasthan.
- The Committee reviewed the proposal and observed that the proposed area falls within the main Siwana Ring Complex, where regional-scale rapid assessment of soil-covered terrains for identification of high-potential REE and RM mineralized zones is currently underway. Since, future exploration strategy will be finalized based on the outcome of this assessment, the Committee did not consider the proposal at this stage.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed NPEA block overlaps 1.36 sq km with GSI's approved G3 project (FS 2027-28), while its total area of 11.08 sq km is considered large for G3 exploration. Previous GSI exploration recorded $\Sigma\text{REE}+\text{Y}$ up to 9,765 ppm in Rhyolite and 7,679 ppm in felsic/rhyolitic dykes, indicating favorable potential for REE and rare-metal mineralization.
2	MECL	The proposed block is surrounded by NB series of blocks distributed in the 5th Meeting of Joint TCC which are presently under progress. The eastern corner of the proposed block is marginally intruded into MECL's NB9&10 block which may be avoided.
3	AMD	The proposed block overlaps with AMD's Bhatikhera Block, explored at G2 stage, where an REO resource of ~94,000 tonnes has been established over 0.50 sq km. As the exploration report was submitted in December 2024, the proposed block is not recommended to avoid duplication of work.
4	State DMG/DGM/CGM	Awaited

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5	NMEDT	NMEDT has allotted projects to various exploration agencies within the Siwana Ring Complex area. Hence, the proposal can be deferred/rejected till the completion of already allotted work.
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Recommendations of TCC-1:

The Committee did not approve the proposal, as the area falls within the main Siwana Ring Complex where regional-scale rapid assessment and delineation of high-potential REE and RM mineralized zones in soil-covered terrains are currently in progress. Further, exploration will be planned based on the outcome of this ongoing study.

Agenda 102.2.10. Proposal for (G3) level of exploration for Khaitwas Basemetal Block in Khetri-Cu belt in state of Rajasthan

Proposal ID: ME/IN/G3/RJ/P/26-27/162

[Implementing Agency: M/s Hindmetal Exploration Services Private limited]

- The proposed block falls within Survey of India Toposheet No. 45M/07 and forms part of the Khetri Copper Belt, Rajasthan.
- GSI carried out G-4 stage reconnaissance exploration for base metal and REE mineralisation in the Ganeshpura area, Sikar District (FS: 2023–24), targeting the base metal and REE potential of the Albitite Line. A total of 404.6 m of scout drilling was carried out through three boreholes, with 72 core samples collected for analysis.
- Chemical analysis of the core samples from Ganeshpura recorded Cu values of 5–120 ppm, Zn values of 5–110 ppm and total REE values of 84–563 ppm, indicating REE enrichment along with low-level base metal values.
- During FS: 2023–24, GSI also carried out G-4 stage reconnaissance exploration for base metal and REE mineralisation in the Palsana area, Sikar District, including 301.30 m of scout drilling through two boreholes and collection of 50 core samples.
- Analysis of 40 BRS samples from Palsana recorded Cu values of 10–70 ppm and Zn values of 5–105 ppm, while total REE values ranged from 44.08–503.37 ppm (mean 232 ppm), with LREE predominance. Core samples recorded elevated total REE values of 175.8–707.12 ppm.
- In view of the above exploration results, the agency proposed the block for G-3 stage exploration for REE and RM mineralisation, comprising 1:2,000 scale detailed geological mapping, geochemical sampling, pitting/trenching, ground geophysical surveys and exploratory drilling for resource assessment under UNFC 333 category.
- The Committee observed that the data presented by the agency, based on limited/single assay results, are insufficient to justify undertaking G-3 stage exploration. The Committee also noted that the proposed area conflicts with 46 minor mineral leases, while about 1.7 sq. km falls within forest area and overlaps the FSI Aravalli region.
- b. The Committee advised the agency to revisit and rationalise the proposal, excluding areas already covered by GSI, minor mineral lease areas and the FSI Aravalli/forest area; undertake a field visit and additional sampling, integrate available baseline and legacy geoscience data, and submit a G-4 stage proposal with adequate database and justification for in-principle consideration.

Sl. No.	Agency	Brief Comments
1	GSI	Based on previous findings of GSI, the block may be considered prospective for copper and associated mineralization. However, the 54.1 sq km area proposed by

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		NPEA is considered excessively large for undertaking G3-level exploration work.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	AMD has carried out reconnaissance exploration (G4 stage) for uranium in and around the proposed block. No significant surface radioactive zone was delineated.
4	State DMG/DGM/CGM	The proposal overlaps 46 minor mineral leases, with 1.7 sq km falling under forest area and conflict with the FSI Aravalli layer. Exploration may be permitted excluding existing MLs, subject to obtaining necessary forest clearances. Exploration within the FSI Aravalli area will also be subject to the Hon'ble Supreme Court's decision.
5	NMEDT	Multiple Minor Mineral Mining lease blocks are present within the proposed block. The proposed block do not overlap with NMEDT funded projects, however The proposed area comprises approximately 3.09% Recorded Forest Area (RFA).

Recommendations of TCC-1:

The Committee did not recommend the proposal for G-3 stage exploration, as the available database is insufficient to justify a G-3 programme.

The agency was advised to revisit and rationalise the block, undertake field verification and additional sampling, integrate baseline and legacy geoscience data, exclude the FSI Aravalli area, and submit a G-4 stage proposal with adequate data and justification for in-principle consideration.

Agenda 102.2.11. Reconnaissance Survey (G-4 Stage) for Aluminous Laterite, Vanadium Titanium and Associated Critical Minerals in Kandapath-Udni area, Jharkhand Proposal ID: ME/IN/G3/JH/P/26-27/166

[Implementing Agency: M/s MMPL Private Limited]

- The proposed block falls within Survey of India Toposheet No. 73A/03 and forms part Deccan Trap Volcanic Province.
- The committee reviewed the comments from different agencies and noted that DGM Jharkhand has stated that the proposed area overlaps with two of their blocks where the work is undergoing.
- In wake of this the DGM Jharkhand has not given its consent for G4 level exploration to avoid duplicacy of work.
- The committee did not approve the proposal.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed block overlaps with GSI's planned/approved exploration areas, including the Dokhat block under FS 2027-28. Since GSI has already identified the area for further investigation and there is an overlap between proposals of different agencies, GSI has stated that the block cannot be spared for the proposed exploration.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.

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3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	The proposed block overlaps with ongoing Udni-I and Udni-II block of DGM and hence consent is not given
5	NMEDT	The proposed block do not overlap with NMEDT funded projects, however The proposed area comprises approximately 6% Recorded Forest Area (RFA), 15% Eco-Sensitive Zone (ESZ), 17% Protected Area (Wildlife Sanctuary), and 13% Tiger Corridor

Recommendations of TCC-1:

The Committee did not recommend the proposal, as the proposed area overlaps with ongoing exploration projects of DGM, Jharkhand.

Agenda 102.2.12. In-Principle Proposal for Preliminary Survey (G-3 Stage) for Aluminous Laterite, Vanadium Titanium and Associated Critical Minerals in Chormanwa-Bansatoli area, Jharkhand

Proposal ID: ME/IN/G3/JH/P/26-27/167

[Implementing Agency: M/s MMPL Private Limited]

- The proposed block falls within Survey of India Toposheet No. 73A/03 and forms part Deccan Trap Volcanic Province.
- The committee reviewed the comments from different agencies and noted that DGM Jharkhand has stated that the proposed area completely overlaps with G3 block of 2026-27.
- The committee did not approve the proposal.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed block overlaps with GSI's planned/approved exploration areas, including the Dokhat block under FS 2027-28. Since GSI has already identified the area for further investigation, the block cannot be spared for the proposed exploration.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	The proposed area completely overlaps with G3 block of DGM Jharkhand of FS 2026-27.
5	NMEDT	The proposed block do not overlap with NMEDT funded projects, however The proposed area comprises approximately 9% Recorded Forest Area (RFA), 41% Eco-Sensitive Zone (ESZ), 45% Protected Area (Wildlife Sanctuary), and 39% Tiger Corridor.

Recommendations of TCC-1:

The Committee did not recommend the proposal, as the proposed area overlaps with ongoing exploration projects of DGM, Jharkhand.

Agenda 102.2.13. Proposal for Limestone in Kullu Bihara Limestone Block, Rewa District, Madhya Pradesh for G-3 Stage Exploration

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Proposal ID: ME/IN/G3/MP/P/26-27/172

[Implementing Agency: M/s S and S Geological Consultants]

- a. The proposed block falls within Survey of India Toposheet Nos. 63H/02 & 63H/06 and forms part of the Vindhyan Supergroup, comprising the Ganurgarh Shale and Nagod Limestone Formations of the Bhandar Group.
- b. GSI carried out investigations for limestone and flux-grade limestone deposits in the Rewa–Satna area, Madhya Pradesh during FS: 1966–67.
- c. G-3 stage exploration in the adjoining Chhipta Block (FS: 2023–24), involving large-scale geological mapping, bedrock sampling, pitting, trenching, exploratory drilling and chemical analysis, established the presence of laterally persistent limestone horizons and significant cement-grade limestone mineralisation.
- d. The investigation estimated approximately 36.99 million tonnes of blendable/beneficial cement-grade limestone, with average CaO of 39.98% and MgO of 3.56%. Portland cement-grade and localized white cement-grade limestone were also identified.
- e. Bedrock samples collected from exposed limestone horizons in and around Kullu-Bihara recorded CaO values of 26.00–51.57%. Pitting and trenching in Birwa, Pathargarhi, Banjarahara, Mohani, Bamhauri and adjoining areas further confirmed the continuity of limestone horizons within the proposed block.
- f. In view of the above exploration results, the agency proposed the block for G-3 stage exploration for limestone, comprising 1:4,000 scale detailed geological mapping, geochemical sampling, pitting/trenching, ground geophysical surveys and exploratory drilling for resource assessment under UNFC 333 category.
- g. The Committee reviewed the proposal and observed that about 60% of the proposed block overlaps with a GSI-explored block, along with a G-3 stage auctionable limestone block. The agency has excluded the overlapping areas from the proposal.
- h. b. The Committee advised the agency to consult the adjoining GSI report (FS: 2025–26), undertake a field visit and collect representative bedrock samples. If the analytical results are encouraging, the agency may submit the DPR in the forthcoming TCC-1 meeting. The Committee accorded in-principle approval to the project.

Sl. No.	Agency	Brief Comments
1	GSI	More than 60% proposed area is overlapping with the earlier explored block. The area is having similar lithological set up as earlier explored block therefore proposed area may be feasible for taking up the further exploration activities.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	Awaited
5	NMEDT	The proposed block do not overlap with NMEDT funded projects, ESA/ESZ, Tiger Corridor, Protected Area or RFA as per PM Gatishakti portal.

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Recommendations of TCC-1:

The Committee accorded in-principle approval for the proposal and advised the agency to consult the adjoining GSI report (FS: 2025–26), undertake a field visit and collect representative bedrock samples.

If the analytical results are encouraging, the agency may submit the DPR within 2 months. The in-principle approval is subject to comments from DGM, MP.

102.3: Review of Ongoing Exploration Project & Timeline Extension

Agenda 102.3.1. Reconnaissance Survey (G4 Stage) for Graphite in and around Dumburuneli area, Rayagada District, Odisha

[Implementing Agency: M/s MMPL Private Limited]

- a. MMPL Pvt. Ltd. informed that the project was approved in the 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 10th February, 2025 with timeline of 10 months (up to 09.12.2025) and approved cost was INR 1,37,69,756/-
- b. Timeline was extended upto 31.05.2026, 31.07.2026 and 15.08.2026 during 7th, 9th and 11th meetings of PSC respectively.
- c. The agency informed the committee that GR has been peer reviewed and comments of peer reviewers has been attended.
- d. The committee discuss the comments of peer reviewer and its compliance in detail and agreed for submission of GR.

Recommendations of TCC-1:

The committee agreed for submission of GR.

Agenda 102.3.2. Reconnaissance Survey (G4) for REE, RM and Other Critical Minerals in Udaipur-Ramgarh area, Sarguja District, Chhattisgarh

[Implementing Agency: M/s MMPL Private Limited]

- a. MMPL 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 12 months (up to 05.03.2027) and approved cost was INR 1,34,92,791/-
- b. The agency apprised the Committee that geological mapping (150 sq. km), 30 bedrock samples and 20 stream-sediment samples have been completed. Pitting is 20% complete (40 of 200 cu.m) with 40 pit samples collected, while drilling, core sampling, surface check sampling and petrographic studies are yet to commence; heavy-mineral separation is partly completed, with 20 of 50 samples sent for analysis.
- c. The agency informed the committee that XRF analysis of selected BRS samples recorded SiO₂ values of 56.6–78.0%, with Fe₂O₃ up to 19.09% and Al₂O₃ up to 12.16%; trace-element analysis further indicated significant elemental enrichment. REE analysis of the selected BRS samples recorded a maximum Total REE (TREE) value of 320.88 ppm, indicating anomalous REE enrichment.
- d. The committee reviewed the progress of work and suggested the agency may target alluvial cover too.
- e. The agency was further advised to do systematic sampling and based on analytical results so obtained, the drilling will be targeted. The agency should also identify catchment area based on analytical results of SS.

Recommendations of TCC-1:

The committee advised the agency to come with analytical results in upcoming TCC for review.


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Agenda 102.3.3. Preliminary Exploration (G-3) for Iron and Manganese ore in Silpunji Block, Jamda-Koira Valley Iron Ore Belt, District- West Singhbhum, Jharkhand

[Implementing Agency: MECL]

- a. MECL informed that the project was approved in the 33rd EC Meeting held on 19th February, 2024. The Sanction Order was issued on 27th February, 2024 with timeline of 10 months (up to 26.12.2024) and approved cost was INR 1,62,42,997/-.
- b. MECL informed that they have applied for FC in 2025, which is still pending with DFO.
- c. The agency requested for extension of timeline to complete project.
- d. The committee suggested agency to submit a self-contained note citing all the reasons of delay and the chronology of the FC issue. The committee will review with these data in next TCC meeting and an appropriate decision would be taken up.

Recommendations of TCC-1:

The committee will review project in next TCC meeting after the required documents are submitted to NMEDT.

Agenda 102.3.4. Preliminary exploration (G3) for molybdenum in Mannadipatti South Block & Ponnaiyar North Block (4.75 sq.km.), Uttangarai Sector, Harur-Uttangarai Belt, District-Krishnagiri, Tamil Nadu

[Implementing Agency: MECL]

- a. MECL informed that the project was approved in the 42nd EC Meeting held on 2nd June, 2025. The Sanction Order was issued on 11th August, 2025 with timeline of 12 months (up to 10.08.2026) and approved cost was INR 7,99,63,464/-
- b. The agency informed that mapping GP survey has been completed with collection of 40 BRS samples.
- c. The agency informed that the FC is awaited and 3700 m of drilling to be done and sought timeline extension upto 28.02.2027.
- d. The committee suggested agency to submit a self-contained note citing all the reasons of delay and the chronology of the FC issue. The committee will review with these data in next TCC meeting and an appropriate decision would be taken up.

Recommendations of TCC-1:

The committee will review project in next TCC meeting after the required documents are submitted to NMEDT.

Agenda 102.3.5. Reconnaissance Survey (G4) for Bauxite, Aluminous Laterite and associated Critical Minerals in Golardih area, Khairagarh Chhuikhadan -Gandai districts, Chhattisgarh

[Implementing Agency: DGM Chhattisgarh]

- a. DGM Chhattisgarh informed that the project was approved in the 3rd PSC Meeting held on 15th December, 2025. The Sanction Order was issued on 2nd January, 2026, with timeline of 10 months (up to 01.11.2026) and approved cost was INR 75,84,977/-.
- b. DGM CG, presented the progress of work and informed that Large-Scale Mapping (LSM) over 70 sq. km has been completed. A total of 234 surface samples were analysed for major oxides by ED-XRF at DGM Laboratory, while 116 samples were analysed for 34 elements by ICP-MS at NGRI, Hyderabad.


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- c. Chemical analysis of bauxite/laterite samples indicates high-grade bauxite potential, with Al_2O_3 values up to 58.30% (average 43.07%), along with enrichment in associated critical minerals including V, Ga and Sc.
- d. Significant base and precious metal anomalies were recorded, including elevated Ni, Cu, Cr, Co, Zn, Zr, Au, Pd and TREE values, indicating potential for polymetallic mineralisation.
- e. A gossan zone has been identified within the block, with associated samples showing elevated PGE, Au, Cr, Co and Ni values, indicating possible base-metal sulphide mineralisation.
- f. The agency proposed drilling of 5 boreholes, with an increase in the drilling quantum from 75 m to 160 m, including extension of one borehole to 100 m depth within the gossan zone to investigate possible secondary sulphide enrichment at depth.
- g. Six pits of 1 m $\times$ 1 m $\times$ 1 m dimensions were also proposed at selected anomalous locations to assess the subsurface continuity of Ni-Cu sulphide mineralisation, particularly in soil-covered areas with limited surface exposure.
- h. The committee reviewed the progress of work and observed that highly anomalous values are recorded, particularly for PGE, Au, Ni and Sc.
- i. The committee also observed that GP survey was not given as quantum of work and hence suggested to agency to incorporate NGPM data, if available for interpretation.
- j. The committee agreed for additional drilling and pitting. 5 additional BH with a total of 225 m of drilling is recommended. 30 cu. m. of pitting is also recommended. Accordingly, chemical analysis quantum also increased.
- k. The committee also suggested that 1 BH each must be drilled in identified Sulphide and Gossan Zones
- l. The cost of project was accordingly revised and recommended for approval of PSC.

Recommendations of TCC-1:

The committee recommended revision of cost of project from Rs. 75.85 lakhs to Rs. 128.09 lakh with a change in amount of (+) Rs 52.24 lakhs (~68.87% escalation), for approval of PSC, NMEDT as per Annexure 8.


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Annexure 8

**Revised Cost Estimate for Reconnaissance Survey (G4) for Bauxite, Aluminous Laterite and associated Critical Minerals in Golardih area, Khairagarh
Chhuikhadan -Gandai districts, Chhattisgarh**

-	-	-	<u>Sanctioned Estimation</u>				-	<u>Revised Estimation</u>				
S. No	Item of work	Unit	Rates as per NMET SoC 2020-21		Total		Remar k	Rates as per NMET SoC 2020-21		Total		
			SoC Item - S. No.	Rates as per SoC	Qty	Amount		SoC Item - S. No.	Rates as per SoC	Qty.	Amount	
A.	GEOLOGICAL WORK											
1	Survey Party Days (1 party)	Day	1.6.1a	8300	0	0		1.6.1a	8300	0	0	
2	Labour charges for Survey work	Per Labour	5.7	541	0	0		5.7	541	0	0	
3	Geologist Party Days (1 Party) Field	Day	1.3	11000	0	0		1.3	11000	0	0	
4	Geologist Party Days (1 Party) HQ	Day	1.3	9000		0		1.3	9000		0	
5	Labour charges for Geological Field work	Per Labour	5.7	541	300	162300		5.7	541	300	162300	
6	Sampler	Day	1.5.2	5100	76	387600		1.5.2	5100	125	637500	
7	Labour for Sampling	Per Labour	5.7	541	304	164464		5.7	541	500	270500	
8	DGPS for borehole fixation	per point of observatio n	1.6.2	19200	5	96000		1.6.2	19200	7	134400	

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	Sub Total A					810364					1204700	
B.	PITTING											
1	Excavation Pit upto a depth of 1.0 m	Cu.m.	2.1.2					2.1.2	4725	30	141750	As the component is added its costing as per revised SoC)
	Sub Total B										141750	
C.	DRILLING											
1	Surface drilling (1 rigs)	Meter	2.2.1.3 a	10100	75	757500		2.2.1.3 a	10100	300	3030000	To test the Gossan Zone and Sulphide zone 3 addl BH is added
2	Road making (Rugged-Hilly terrain)	Per km	2.2.10b	32200	10	322000		2.2.10b	32200	15	483000	
3	Transportation (2 rigs)	Per km	2.2.8	36	325	11700		2.2.8	36	325	11700	
4	Monthly Accommodation charges for drilling camp	Monthly basis	2.2.9	50000	2	100000		2.2.9	50000	2	100000	
5	Camp Establishment cost	Per Drill	2.2.9a	250000	1	250000		2.2.9a	250000	1	250000	
6	Camp Winding	Per Drill	2.2.9b	250000	1	250000		2.2.9b	250000	1	250000	
7	Drill Core Preservation	Per Meter	5.3	1590	75	119250		5.3	1590	300	477000	
	Sub Total C					1810450					4601700	
D.	LABORATORY STUDIES											
a	Bulk density	per sample	4.8.1	1605	5	8025		4.8.1	1605	5	8025	
b.	Chemical Analysis											
1	Primary + Check Samples											

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(i) Primary Samples (Al ₂ O ₃ , TiO ₂ , MgO%, SiO ₂ , , Fe ₂ O ₃ %, P ₂ O ₅ , & LOI, V, Ga,)	per sample	4.1.15a	4200	355	1491000	280 BRS + 75 core samples	4.1.15a	4200	500	2100000	234 BRS + 16 pit sample + 250 core samples
(ii) For Check Samples (Al ₂ O ₃ , TiO ₂ , MgO%, SiO ₂ , , Fe ₂ O ₃ %, P ₂ O ₅ , & LOI, V, Ga,)	per sample	4.1.15a	4200	35	147000	10% of total samples	4.1.15a	4200	50	210000	10% of total samples
(iii) For Composite samples (Al ₂ O ₃ , TiO ₂ , MgO%, SiO ₂ , , Fe ₂ O ₃ %, P ₂ O ₅ , & LOI, V, Ga,)	per sample	4.1.15a	4200	0	0		4.1.15a	4200	0	0	
(iv) Combined determination of Trihydrate alumina (THA- 144° C), Monohydrate alumina (MHA- 240° C) & reactive silica	per sample	4.1.17a	6700	15	100500	20% of samples of boreholes	4.1.17a	6700	15	100500	
(v) Analysis for 34 elements (REE and others including Sc) by ICPMS	per sample	4.1.14	7,731	200	1546200	Analysis for Scandium for all samples	4.1.14	7,731	200	1546200	Analysis for 34 elemental studies for all samples

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	Fire assay for Gold						4.1.5a	3,500	20	70000	new SoC
	Ni-S Fire assay for PGE						4.1.6	13,600	5	68000	new SoC
	(vi) Preparation of standard thin section	per sample	4.3.1	2353	10	23530	4.3.1	2353	10	23530	
	(vii) Petrological study	per sample	4.3.4	4232	10	42320	4.3.4	4232	10	42320	
	Sub Total D					3358575				4168575	
E.	Total A + B + C + D				-	5979389			-	10116725	
F.	Peer review					30000				30000	
	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	1	1,19,588	5.1	2% of the project cost or Rs 3.8 lakh whichever is lower	1	2,02,335	
	Geological Report Preparation	Copy per 5 Hard copies of report along with soft copy	5.2	For the projects having cost upto Rs 150 lakhs : A Minimum of Rs.2.5 lakhs or 5% of the value of work whichever is more	1	2,98,969	5.2	For the projects having cost upto Rs 150 lakhs : A Minimum of Rs.2.5 lakhs or 5% of the value of work whichever is more	1	5,05,836	
	Sub Total F					448557				738171	
	Grand Total E+F					6427946				10854896	

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	GST 18%					1157030					1953881	
	Grand Total: with GST 18%					7584977					12808777	
						Say 75.85 Lakhs				Say 128.09 Lakhs		
						Difference in cost		(+ 52.24 lakhs		68.87% of escalation		

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Agenda 102.3.6. Reconnaissance survey (G4) for Copper Bearing Minerals around Musabani, Dumriya, and Maheshpur areas in East Singhbhum District, Jharkhand
[Implementing Agency: NRD-TATA]

- a. The agency did not present material as the project has been discussed in TCC-II till now. The committee deferred the project to TCC-II for further deliberations.

Recommendations of TCC-1:

The committee deferred the project to TCC-II for further deliberations.

Agenda 102.3.7. Preliminary Exploration (G3) for Bauxite, Vanadium, Gallium and associated minerals around Patgaon and Somlewadi villages (Patgaon Block), Sindhudurg district, Maharashtra
[Implementing Agency: 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 and 100th 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 not communicated the decision yet.
- e. The committee reserved its decision for upcoming TCC meeting.

Recommendations of TCC-1:

The committee reserved its decision for upcoming TCC meeting.

Agenda 102.3.8. Preliminary Exploration (G-3) for Bauxite, Vanadium, Gallium and associated minerals around Pendhri village (Pendhri Block), Sindhudurg District, Maharashtra
[Implementing Agency: 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 and 100th 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 not communicated the decision yet.
- e. The committee reserved its decision for upcoming TCC meeting.

Recommendations of TCC-1:

The committee reserved its decision for upcoming TCC meeting.

Agenda 102.3.9. Reconnaissance Survey (G-4) For Diamond in Part of a Palaeo-Channel in Krishna Basin near Mangalagiri, Guntur Dist, Andhra Pradesh.

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[Implementing Agency: 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. 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 peer reviewed and comments of peer reviewers has been attended.
- d. The committee discuss the comments of peer reviewer and its compliance in detail and agreed for submission of GR.
- e. The agency also requested for final costing of project.
- f. The committee revised the cost of project.

Recommendations of TCC-1:

The committee recommended revision of cost of project from Rs. 201.84 lakh to Rs. 201.75 lakh with a change in amount of (-) Rs 0.09 lakhs (~0.04 % de-escalation), for approval of PSC, NMEDT as per Annexure 9.


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Annexure 9

Revised Cost Sheet for Reconnaissance Survey (G-4) For Diamond In Part of A Palaeo-Channel In Krishna Basin Near Mangalagiri, Guntur Dist, Andhra Pradesh

S. No.	Item of Work *	Unit *		Qty Approved.	Rate as per SoC	Approved Amount	Qty proposed for revision	Rate as per SoC	Cost Proposed for Revision	Remarks
			SoC-Item No. *							
A	Geophysical Mapping Other Geological and Geophysical Work & Surveying									
	Geophysical Survey & drilling work	22.6 sq.km								
i	a. Charges for Geophysicist (30*1 Geophysicist -seismic, 20*1 Geophysicist - sounding, 60*1 Geophysicist -profiling)	day	3.18	110	11,000	0	110	11,000	0	

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ii	b. Labours Charges; Base rate- 2 labourer per day (5 labourer*30- seismic; 6 labourer *60- electrical profiling.; 5 labourer *20 - elec.sounding)	day		610	522	0	610	522	0	
iii.	c. Charges for 2 Geophysicist per day (HQ) for data processing	day	3.18	30	9,000	2,70,000	30	9,000	2,70,000	
i	a. Charges for Geologist per day (Field) for drilling work	day	1.2	60	11,000	6,60,000	60	11,000	6,60,000	
ii	b. Labours Charges; Base rate (2 labourers)	day		120	541	64,920	120	541	64,920	
	c. Charges for Geologist per day (HQ)	day		45	9,000	4,05,000	45	9,000	4,05,000	
	Sub Total- A					13,99,920			13,99,920	
B	Ground Geophysical Survey									
1.b	High resolution Seismic Survey- A. Source: Hammer/Weight drop & Equip: 24 Channel- 2. Group Interval: 5m (12 Foldage) & within 300 m depth	Per Line km	3.13b	12.00	3,03,437	36,41,244.00	12.00	3,03,437	36,41,244.00	
	Elec Resistivity (sounding)	stn	3.5.a	15.00	70,650	10,59,750.00	15.00	70,650	10,59,750.00	
	Resistivity profiling	l km	3.6.c	20.00	3,00,000	60,00,000.00	20.00	3,00,000	60,00,000.00	
	Sub Total- B					1,07,00,994			1,07,00,994	
C	Survey work									

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a	DGPS Survey for BH - RL fixing	day	1.6.1a	10	8300	83000	10	8300	83000	
b	Labours Charges for DGPS survey;2 labourers	day		40	541	21640	40	541	21640	
Sub-Total C						104640			104640	
E	DRILLING (after review)									
1	Drilling	Per m	2.2.1.1b	300	7,168	21,50,400	300	7,168	21,50,400	
5	Transportation of Drill Rig & Truck associated per drill	Km	2.2.8	2048	36	73728	2048	36	73728	
6	Monthly Accommodation Charges for drilling Camp	month	2.2.9	2	50,000	1,00,000	2	50,000	1,00,000	
7	Drilling Camp Setting Cost	Nos	2.2.9a	1	2,50,000	250000	1	2,50,000	250000	
8	Drilling Camp Winding up Cost	Nos	2.2.9b	1	2,50,000	250000	1	2,50,000	250000	
9	sample processing incl marking of samples, core splitting , packing and labelling, preparation of duplicate samples etc	day	1.5.2	20	5,100	1,02,000	20	5,100	1,02,000	
	Labours Charges; Base rate (4 labourers)	day		80	541	43,280	80	541	43,280	
10	Drill Core Preservation	per m	5.3	300	1,590	4,77,000	300	1,590	4,77,000	
Sub-Total E						34,46,408			34,46,408	
G	LABORATORY STUDIES									
1	Chemical Analysis									

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	Separation of heavy minerals from sediment samples of 2mm size through gravity and two level magnetic separation	per sample	4.3.6b	20	13,820	2,76,400	20	13,820	2,76,400	
	XRD analysis for identification of minerals (random)	per sample	4.5.1	10	4000	40000	-	4000	-	
	Cost Per OTS testing and Gem Identification	per sample	4.3.13	20	1,820	36,400	-	1,820	-	
	Preparation of polished section	per sample	4.3.2			-	8	800	6,400	As per 99th TCC suggestion
	EPMA	per hour	4.4.1			-	6	10,500	63,000	As per 99th TCC suggestion
	Sub-Total G					3,52,800			3,45,800	
H	Total A to G					1,60,04,762.00			1,59,97,762.00	
I	Geological Report Preparation	5 Hard copies with a soft copy	5.2			7,50,000.00			7,50,000.00	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
J	Peer review Charges		As per EC decision			30000			30000	

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K	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	5 Hard copies with a soft copy	5.1		3,20,095.24			3,19,955.24	
L	Total Estimated Cost without GST				1,71,04,857.24			1,70,97,717.24	
M	Provision for GST (18% of L)				30,78,874.30			30,77,589.10	
N	Total Estimated Cost with GST				2,01,83,731.54			2,01,75,306.34	
					201.84 lakh			201.75 lakh	
			Change in amount		0.09 lakh			(0.04% de-escalation)	

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Agenda 102.3.10. Preliminary Exploration (G-3) for Limestone in Chhasra Block, Kachchh District, Gujarat

[Implementing Agency: CGM Gujarat]

- a. CGM Gujarat 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 6 months (up to 27.08.2024) and approved cost was INR 1,74,04,577/-.
- b. Timeline was extended upto 28.02.2025 and 27.08.2025 by EC in its 39th and 42nd meetings respectively. Timeline was further extended upto 31.07.2026 and 31.08.2026 by PSC in its 10th and 11th meetings respectively.
- c. The GR of project has been submitted. However, during 100th meeting of TCC-I, the agency was instructed to modify the recommendations made in report and recommend block as auctionable rather than upgradable.
- d. The agency has modified the report accordingly.
- e. The final costing of the project was revised based on the actual quantum of work achieved and the corresponding expenditure.

Recommendations of TCC-1:

The committee recommended revision of cost of project from Rs. 174.05 lakh to Rs. 34.11 lakh with a change in amount of (-) Rs 139.94 lakhs (~80.4 % de-escalation), for approval of PSC, NMEDT as per Annexure 10.


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Revised cost Sheet - Preliminary Exploration (G-3) for Limestone in Chhasra Block, Kachchh District, Gujarat

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Achived Work	Applicable cost	Remark
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	Qty. (c)	Total Amount (Rs) (a*c)	
A	Geological Mapping Other Geological Work & Surveying				35.37 sq. km		35.37 sq. km		DGPS survey and Geological mapping successfully completed across the entire block.
	Geological mapping, (1:4000 scale) & Trenching , drilling work								
i	a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.2.a.	11,000	60	6,60,000	25	2,75,000	The total block area was revised. Due to local agitation drilling could not be carried out in the private land, and as such the total drilling meterage was reduced from 900 mtr to 176 mtr, the number of boreholes reduced from 45 to 5, and accordingly field geology work reduced from 60 days to 25 days.

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ii	b. Labours Charges; Base rate	day	5.7	504	120	60,480	50	25,200	
iii	c. Charges for Geologist per day (HQ)	day	1.2.b.	9,000	30	2,70,000	20	1,80,000	Due to reduction in block area, the HQ geologist's work was reduced from 30 days to 20 days .
iv	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2.	5,100	110	5,61,000	10	51,000	Due to reduction in total meterage (176 mtr/900 mtr) and number of boreholes, the sampler days were reduced from 110 to 10 .
v	e. Labours (4 Nos)	day	5.7	504	440	2,21,760	40	20,160	Due to reduction in total meterage (176 mtr/900 mtr) and number of boreholes, the labour days were reduced from 440 to 40 .
Sub Total- A						17,73,240		5,51,360	
B	Ground Geophysical Survey								
i	Gravity-Magnetic Method	per station	3.1.b.	4,500	-	-	-		
ii	Geophysicist party days (Field)	per day	3.18.b.	11,000	-	-	-		
iii	c. Labours Charges	day	5.7	504	-	0			
iv	Geophysicist party days (HQ)	per day	3.18.a.	9,000	-	-	-		

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	Sub Total- B					-	-		
C	Survey work								
i	DGPS Survey for BH fixation & RL determination	Per Point of observation							
ii	Charges of Surveyor (1 party) for Geophysical survey layout work & Block boundary demarcation	one surveyor per day	1.6.1.a.	8,300	20	166000	20	1,66,000	
iii	Labours Charges for survey work;	day	5.7	504	80	40320	80	40,320	
	Sub-Total C					2,06,320		2,06,320	
D	Trenching/Pitting								
i	a) Excavation of Pitting	per cu.m							
E	DRILLING								
i	Surface drilling	m	2.2.1.1b	6,775	900	60,97,500	176	11,92,400	Due to local agitation drilling could not be carried out in the private land, and as such the total drilling meterage was reduced from 900 mtr to 176 mtr, the number of boreholes from 45 to 5 .
ii	Borehole deviation Survey by Multishot Camera	m							
iii	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH							

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iv	Construction of concrete Pillar (12"x12"x30")	per borehole							
v	Transportation of Drill Rig & Truck associated per drill (2 rigs)	Km							
vi	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month							
vii	Drilling Camp Setting Cost	Nos							
viii	Drilling Camp Winding up Cost	Nos							
ix	Road Making (Flat Terrain)	Km							
x	Drill Core Preservation	per m	5.3	1,590	800	12,72,000	176	2,79,840	Total drilling carried out is 176 mtr only.
	Sub Total E					73,69,500		14,72,240	
F	Borehole Geophysical Logging	5 Bhs of 350m each							
G	LABORATORY STUDIES								
1	Chemical Analysis								
i)	Geochemical Sampling-Surface samples (Bedrock/Channel /Soil/Stream sediment)								
	a. Major oxides by XRF	Nos.	4.1.15.a.	4,200	-	-	-		

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	b. XRD analysis for identification of minerals	Nos	4.5.1.	4,000	-	-	-		
ii)	Surface Check samples (10% External)				-				
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	-	-	-		
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-	-		
iii)	Trenches & Check Samples from Trenches								
	Trenches samples								
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	-	-	-		
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-	-		
iv)	Trench Check samples (10% External)								
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	-	-	-		
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-	-		
v)	BH Core samples								
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	800	33,60,000	94	3,94,800	Total drilling meterage was reduced from 900 mtr to 176 mtr, and as such the total number of samples collected was also reduced

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									from 800 nos. to 94 nos.
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-	-		
vi)	BH Core samples (10%External)								
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	80	3,36,000	10	42,000	Total we have collected 94 samples, with 10 samples taken for 10% cross-check analysis.
	b. XRD analysis for identification of minerals	Nos	4.5.1.	4,000	-	-	-		
2	<u>Physical & Petrological Studies</u>								
i	Preparation of thin section	Nos	4.3.1.	2,353	5	11,765	1	2,353	Total drilling meterage was reduced from 900 mtr to 176 mtr, and as such the total number of samples collected was also reduced from 800 nos. to 94 nos., and accordingly we prepared limited thin sections and photographs.
ii	Study of thin section	Nos	4.3.4.	4,232	5	21,160	1	4,232	
iii	Preparation of polish section	Nos				-	-		
iv	study of polished section	Nos				-	-		
v	Digital Photographs	Nos	4.3.7.	280	10	2,800	2	560	
vi	Whole Rock Analysis	Nos				-	-		
vii	Sp. Gravity/Bulk density	Nos	4.8.1.	3,540	5	17,700	5	17,700	

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viii	SEM Studies	per hour				-			
ix	EPMA studies	per hour				-			
						37,49,425		4,43,945	
H	Total A to G					1,30,98,485		26,73,865.00	
I	Geological Report Preparation	5 Hard copies with a soft copy	5.2	5.2 (i/ii/iii/iv)		6,54,924	1	1,33,693	
J	Peer review Charges		As per EC decision	30,000		30,000	1	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		2,61,970	1	53,477.30	
L	Tender Process					1,21,950		-	
M	Operational Charges					5,82,313		-	
N	Total Estimated Cost without GST					1,47,49,642		28,91,035.55	
O	Provision for GST (18% of N)					26,54,935.56		5,20,386.40	
P	Total Estimated Cost with GST					1,74,04,577.56		34,11,421.95	
				Round Off		1,74,04,577		34,11,422	
				or Say Rs. In Lakhs		174.05		34.11	
				Change in amount			(-) 139.94 lakh		80.4 % of de-escalation

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**Agenda 102.3.11. Preliminary Exploration (G-3) for Limestone in Vayor Block,
Kachchh District, Gujarat**

[Implementing Agency: CGM Gujarat]

- a. CGM Gujarat 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 6 months (up to 27.08.2024) and approved cost was INR 94,28,274/-.
- b. Timeline was extended upto 28.02.2025 and 27.08.2025 by EC in its 39th and 42nd meetings respectively. Timeline was further extended upto 31.07.2026 and 31.08.2026 by PSC in its 10th and 11th meetings respectively.
- c. The GR of project has been submitted. However, during 100th meeting of TCC-I, the agency was instructed to modify the recommendations made in report and recommend block as auctionable rather than upgradable.
- d. The agency has modified the report accordingly.
- e. The final costing of the project was revised based on the actual quantum of work achieved and the corresponding expenditure.

Recommendations of TCC-1:

The committee recommended revision of cost of project from Rs. 94.98 lakh to Rs. 60.34 lakh with a change in amount of (-) Rs 33.94 lakhs (~36.0 % de-escalation), for approval of PSC, NMEDT as per Annexure 11.


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Revised Cost Estimate Preliminary Exploration (G-3 stage) for Limestone in Vayor Block, Kachchh District, Gujarat

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Achived Work	Applicable cost	Remark
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	Qty. (c)	Total Amount (Rs) (a*c)	
A	Geological Mapping Other Geological Work & Surveying				20.68		20.68		DGPS Survey & Geological Mapping in entire block
	Geological mapping, (1:4000 scale) & Trenching , drilling work								
i	a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.2.a.	11,000	45	4,95,000	45	4,95,000	
ii	b. Labours Charges; Base rate	day	5.7	504	90	45,360	90	45,360	
	c. Charges for Geologist per day (HQ)	day	1.2.b.	9,000	30	2,70,000	30	2,70,000	

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	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2.	5,100	55	2,80,500	25	1,27,500	The block area was revised, based on TCC's recommendation, dividing it into five sub-blocks (A to E) due to high silica content. Out of these, work was carried out in three sub-blocks, while the remaining two could not be covered because of local agitation. Drilling was conducted in the three sub-blocks, where 10 boreholes were drilled out of the planned 18 borehole., drilling meterage achieved was 310 mtr out of 450 mtr.
	e. Labours (4 Nos)	day	5.7	504	220	1,10,880	100	50,400	Due to the reduction in total meterage (310 mtr/450 mtr) and number of boreholes(10/18), the labour days were reduced from 220 days to 100 days.
	Sub Total- A					12,01,740		9,88,260	
B	Ground Geophysical Survey								
1	Gravity-Magnetic Method	per station	3.1.b.	4,500	-	-	-		

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3	Geophysicist party days (Field)	per day	3.18.b.	11,000	-	-	-		
4	c. Labours Charges	day	5.7	504	-	-	-		
5	Geophysicist party days (HQ)	per day	3.18.a.	9,000	-	-	-		
	Sub Total- B					-	-		
C	Survey work								
a	DGPS Survey for BH fixation & RL determination	Per Point of observation							
b	Charges of Surveyor (1 party) for Geophysical survey layout work & Block boundary demarcation	one surveyor per day	1.6.1.a.	8,300	30	249000	30	2,49,000	
c	Labours Charges for survey work;	day	5.7	504	120	60480	120	60,480	
	Sub-Total C					3,09,480		3,09,480	
D	Trenching/Pitting								
	a) Excavation of Pitting	per cu.m							
E	DRILLING								
1	Surface drilling	m	2.2.1.1b	6,775	450	30,48,750	310	21,00,250	Drilling was carried out for 10 boreholes out of the planned 18, but the remaining could not be completed due to local agitation. The total drilling meterage achieved was 310 mtr out of 450 mtr.
2	Borehole deviation Survey by Multishot Camera	m							

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3	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH							
4	Construction of concrete Pillar (12"x12"x30")	per borehole							
5	Transportation of Drill Rig & Truck associated per drill (2 rigs)	Km							
6	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month							
7	Drilling Camp Setting Cost	Nos							
8	Drilling Camp Winding up Cost	Nos							
9	Road Making (Flat Terrain)	Km							
10	Drill Core Preservation	per m	5.3	1,590	400	6,36,000	310	4,92,900	The total drilling carried out was 310 mtr.
	Sub Total E					36,84,750		25,93,150	
F	Borehole Geophysical Logging	5 Bhs of 350m each							
G	LABORATORY STUDIES								
1	Chemical Analysis								
i)	Geochemical Sampling- Surface samples (Bedrock/Channel /Soil/Stream sediment)								
	a. Major oxides by XRF	Nos.	4.1.15.a.	4,200	-	-	-		
	b. XRD analysis for identification of minerals	Nos	4.5.1.	4,000	-	-	-		
ii)	Surface Check samples (10% External)				-				
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	-	-	-		

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	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-	-		
iii)	Trenches & Check Samples from Trenches								
	Trenches samples								
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	-	-	-		
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-	-		
iv)	Trench Check samples (10% External)								
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	-	-	-		
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-	-		
v)	BH Core samples								
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	400	16,80,000	175	7,35,000	The total drilling meterage was reduced from 450 mtr to 310 mtr, and accordingly the total number of samples collected was also reduced from 400 nos. to 175 nos.
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-	-		
vi)	BH Core samples (10%External)								
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	40	1,68,000	17	71,400	In total, 175 samples collected , with 17 samples prepared for 10%

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									cross-check analysis.
	b. XRD analysis for identification of minerals	Nos	4.5.1.	4,000	-	-	-		
2	<u>Physical & Petrological Studies</u>								
i	Preparation of thin section	Nos	4.3.1.	2,353	5	11,765	5	11,765	
ii	Study of thin section	Nos	4.3.4.	4,232	5	21,160	5	21,160	
iii	Preparation of polish section	Nos				-	-		
iv	study of polished section	Nos				-	-		
v	Digital Photographs	Nos	4.3.7.	280	10	2,800	10	2,800	
vi	Whole Rock Analysis	Nos				-	-		
vii	Sp. Gravity/Bulk density	Nos	4.8.1.	3,540	5	17,700	5	17,700	
viii	SEM Studies	per hour				-			
ix	EPMA studies	per hour				-			
						19,01,425		8,59,825	
H	Total A to G					70,97,395		47,50,715.00	
I	Geological Report Preparation	5 Hard copies with a soft copy	5.2	5.2 (i/ii/iii/iv)		3,54,870	1	2,37,536	
J	Peer review Charges		As per EC decision	30,000		30,000	1	30,000	

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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		1,41,948	1	95,014.30	
L	Tender Process					60,975		-	
M	Operational Charges					3,04,875		-	
N	Total Estimated Cost without GST					79,90,063		51,13,265.05	
O	Provision for GST (18% of N)					14,38,211.34		9,20,387.71	
P	Total Estimated Cost with GST					94,28,274		60,33,653	
				or Say Rs. In Lakhs		94.28		60.34	
				Change in cost (in lakhs)		33.94			36.0% of de-escalation

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**Agenda 102.3.12. Preliminary Exploration (G-3) for Limestone in Jadva Block,
Kachchh District, Gujarat.**

[Implementing Agency: CGM Gujarat]

- a. CGM Gujarat 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 6 months (up to 27.08.2024) and approved cost was INR 60,97,512/-.
- b. Timeline was extended upto 28.02.2025 and 27.08.2025 by EC in its 39th and 42nd meetings respectively. Timeline was further extended upto 31.07.2026 and 31.08.2026 by PSC in its 10th and 11th meetings respectively.
- c. The GR of project has been submitted. However, during 100th meeting of TCC-I, the agency was instructed to modify the recommendations made in report and recommend block as auctionable rather than upgradable.
- d. The agency has modified the report accordingly.
- e. The final costing of the project was revised based on the actual quantum of work achieved and the corresponding expenditure.

Recommendations of TCC-1:

The committee recommended revision of cost of project from Rs. 60.98 lakh to Rs. 47.31 lakh with a change in amount of (-) Rs 13.67 lakhs (~22.42 % de-escalation), for approval of PSC, NMEDT as per Annexure 12.


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Revised Cost Estimate Sheet - Preliminary Exploration (G-3 stage) for Limestone in Jadv Block, Kachchh District, Gujarat

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Achived Work	Applicable cost	Remark
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	Qty. (c)	Total Amount (Rs) (a*c)	
A	Geological Mapping Other Geological Work & Surveying								
	Geological mapping, (1:4000 scale) & Trenching , drilling work				10.3 sq km		10.3 sq km		DGPS Survey and Geological Mapping were carried out in the entire block
i	a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.2.a.	11,000	30	3,30,000	30	3,30,000	
ii	b. Labours Charges; Base rate	day	5.7	504	60	30,240	60	30,240	
	c. Charges for Geologist per day (HQ)	day	1.2.b.	9,000	30	2,70,000	30	2,70,000	
	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2.	5,100	35	1,78,500	15	76,500	Due to reduction in total meterage (229 mtr/280 mtr) and number of boreholes (06/14) , the sampler days were

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									reduced from 35 days to 15 days.
	e. Labours (4 Nos)	day	5.7	504	140	70,560	60	30,240	Due to reduction in total meterage (229 mtr/280 mtr) and number of of boreholes (06/14), the number of labours days were reduced from 140 days to 60 days.
	Sub Total- A					8,79,300		7,36,980	
B	Ground Geophysical Survey								
1	Gravity-Magnetic Method	per station	3.1.b.	4,500	-	-	-		
3	Geophysicist party days (Field)	per day	3.18.b.	11,000	-	-	-		
4	c. Labours Charges	day	5.7	504	-	-	-		
5	Geophysicist party days (HQ)	per day	3.18.a.	9,000	-	-	-		
	Sub Total- B					-	-		
C	Survey work								
a	DGPS Survey for BH fixation & RL determination	Per Point of observation							
b	Charges of Surveyor (1 party) for Geophysical survey layout work & Block boundary demarcation	one surveyor per day	1.6.1.a.	8,300	20	166000	20	1,66,000	
c	Labours Charges for survey work;	day	5.7	504	80	40320	80	40,320	

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	Sub-Total C					2,06,320		2,06,320	
D	Trenching/Pitting								
	a) Excavation of Pitting	per cu.m							
E	DRILLING								
1	Surface drilling	m	2.2.1.1b	6,775	280	18,97,000	229	15,51,475	The total block area was revised to 294 ha (deducting 44 ha. of forest land and 692 ha. overlapping with the existing lease), and because of this the remaining area was only 294 ha., hence drilling was carried out for 6 boreholes out of 14, with a drilling meterage of 229 mtr out of 280 mtr, as the mineralized zone occurs in vertical continuity.
2	Borehole deviation Survey by Multishot Camera	m							
3	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH							
4	Construction of concrete Pillar (12"x12"x30")	per borehole							
5	Transportation of Drill Rig & Truck associated per drill (2 rigs)	Km							

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6	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month							
7	Drilling Camp Setting Cost	Nos							
8	Drilling Camp Winding up Cost	Nos							
9	Road Making (Flat Terrain)	Km							
10	Drill Core Preservation	per m	5.3	1,590	250	3,97,500	229	3,64,110	The drilling was carried out for 229 mtr.
	Sub Total E					22,94,500		19,15,585	
F	Borehole Geophysical Logging	5 Bhs of 350m each							
G	LABORATORY STUDIES								
1	Chemical Analysis								
i)	Geochemical Sampling-Surface samples (Bedrock/Channel /Soil/Stream sediment)								
	a. Major oxides by XRF	Nos.	4.1.15.a.	4,200	-	-	-		
	b. XRD analysis for identification of minerals	Nos	4.5.1.	4,000	-	-	-		
ii)	Surface Check samples (10% External)				-		-		
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	-	-	-		

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	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-	-		
iii)	Trenches & Check Samples from Trenches								
	Trenches samples								
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	-	-	-		
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-	-		
iv)	Trench Check samples (10% External)								
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	-	-	-		
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-	-		
v)	BH Core samples								
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	250	10,50,000	175	7,35,000	The drilling meterage was reduced from 229 mtr to 280 mtr, and as such the total number of samples collected was also reduced from 250 nos to 175 nos.
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-	-		
vi)	BH Core samples (10%External)								

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	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	25	1,05,000	18	75,600	Total, we collected 175 samples, with 18 samples taken for 10% cross-check analysis.
	b. XRD analysis for identification of minerals	Nos	4.5.1.	4,000	-	-	-		
2	Physical & Petrological Studies								
i	Preparation of thin section	Nos	4.3.1.	2,353	5	11,765	4	9,412	The total drilling meterage was reduced from 280 mtr to 229 mtr, and as such the total number of samples collected was also reduced from 250 nos. to 175 nos., accordingly, we prepared limited thin sections and photographs.
ii	Study of thin section	Nos	4.3.4.	4,232	5	21,160	4	16,928	
iii	Preparation of polish section	Nos				-	-		
iv	study of polished section	Nos				-	-		
v	Digital Photographs	Nos	4.3.7.	280	10	2,800	8	2,240	
vi	Whole Rock Analysis	Nos				-	-		
vii	Sp. Gravity/Bulk density	Nos	4.8.1.	3,540	5	17,700	6	21,240	
viii	SEM Studies	per hour				-			
ix	EPMA studies	per hour				-			
						12,08,425		8,60,420	
H	Total A to G					45,88,545		37,19,305	

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I	Geological Report Preparation	5 Hard copies with a soft copy	5.2	5.2 (i/ii/iii/iv)		2,29,427	1	1,85,965	
J	Peer review Charges		As per EC decision	30,000		30,000	1	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		91,771	1	74,386	
L	Tender Process					37,940		-	
M	Operational Charges					1,89,700		-	
N	Total Estimated Cost without GST					51,67,383		40,09,656	
O	Provision for GST (18% of N)					9,30,128.94		7,21,738.14	
P	Total Estimated Cost with GST					60,97,512		47,31,394	
				or Say Rs. In Lakhs		60.98		47.31	
				Change in amount (In Lakhs)		(-) 13.67		22.42% de-escalation	

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**Agenda 102.3.13. Preliminary Exploration for Bauxite in Mothala Block,
Kachchh District, Gujarat**

[Implementing Agency: CGM Gujarat]

- a. CGM Gujarat 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 8 months (up to 21.06.2025) and approved cost was INR 2,25,60,284/-.
- b. Timeline was extended upto 31.07.2026 and 31.08.2026 by PSC in its 10th and 11th meetings respectively.
- c. The GR of project has been submitted. However, during 100th meeting of TCC-I, the agency was instructed to modify the recommendations made in report and recommend block as auctionable rather than upgradable.
- d. The agency has modified the report accordingly.
- e. The final costing of the project was revised based on the actual quantum of work achieved and the corresponding expenditure.

Recommendations of TCC-1:

The committee recommended revision of cost of project from Rs. 225.60 lakh to Rs. 90.37 lakh with a change in amount of (-) Rs 135.23 lakhs (~59.94 % de-escalation), for approval of PSC, NMEDT as per Annexure 13.

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Annexure 13

Revised Cost for Preliminary Exploration for Bauxite in Mothala block, Kachchh, Gujarat

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Achieved Work		Remark
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	Qty. (b)	Applicable Cost	
A	Geological Mapping Other Geological Work & Surveying	Sq km			7.47		7.47		DGPS survey and Geological mapping were successfully completed across the entire block.
	Geological mapping, (1:4000 scale) & Trenching, drilling work								
i	a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.3b	11,000	90	9,90,000	60	6,60,000	During drilling, it was observed local agitation across several parts of the block. Therefore, instead of continuing with the planned close-spaced grid, boreholes were selectively positioned at wider intervals to test.
ii	b. Labours Charges; Base rate	day	5.7	522	180	93,960	120	62,640	Drilling was carried out for 23 boreholes out of the sanctioned 43(398 mtr/1110 mtr), and therefore the number of working days was reduced from the originally approved schedule.
	c. Charges for Geologist per day (HQ)	day	1.3a	9,000	40	3,60,000	30	2,70,000	
	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2.	5,100	138	7,03,800	60	3,06,000	
	e. Labours (4 Nos)	day	5.7	522	552	2,88,144	240	1,25,280	
	Sub Total- A					24,35,904		14,23,920	

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B	Ground Geophysical Survey							-	
1	Gravity-Magnetic Method	per station	3.1.b.	4,500	-	-	-		
3	Geophysicist party days (Field)	per day	3.18.b.	11,000	-	-	-		
4	c. Labours Charges	day	5.7	522	-	0			
5	Geophysicist party days (HQ)	per day	3.18.a.	9,000	-	-	-		
	Sub Total- B					-	-		
C	Survey work							-	
a	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.6.2	19,200	43	825600	23	4,41,600	Drilling was carried out for 23 out of 43 numbers of boreholes.
b	Charges of Surveyor (1 party) for Geophysical survey layout work & Block boundary demarcation	one surveyor per day	1.6.1.a.	8,300	30	249000	30	2,49,000	
c	Labours Charges for survey work;	day	5.7	522	120	62640	120	62,640	
	Sub-Total C					11,37,240		7,53,240	
D	Trenching/Pitting							-	
	a) Excavation of Pitting	per cu.m						-	
E	DRILLING							-	

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1	Surface drilling	m	2.2.1.1b	7,168	1,100	78,84,800	398	28,52,864	During drilling, it was observed local agitation across several parts of the block. Therefore, instead of continuing with the planned close-spaced grid, boreholes were selectively positioned at wider intervals to test. Drilling was carried out for 23 out 43 borehole(398 mtr/1100 mtr)
2	Borehole deviation Survey by Multishot Camera	m	-	-	-	-	-		
3	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH	-	-	-	-	-		
4	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7 a	2,000	-	-	-		
5	Transportation of Drill Rig & Truck associated per drill (2 rigs)	Km	-	-	-	-	-		
6	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month	-	-	-	-	-		
7	Drilling Camp Setting Cost	Nos	-	-	-	-	-		
8	Drilling Camp Winding up Cost	Nos	-	-	-	-	-		
9	Road Making (Flat Terrain)	Km	-	-	-	-	-		
10	Drill Core Preservation	per m	5.3	1,590	1,000	15,90,000	398	6,32,820	The total drilling carried out was 398 mtr.
	Sub Total E					94,74,800		34,85,684	
F	Borehole Geophysical Logging	5 Bhs of 350m each	-	-	-	-	-		

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G	LABORATORY STUDIES						-		
1	Chemical Analysis						-		
i)	Geochemical Sampling- Surface samples (Bedrock/Channel /Soil/Stream sediment)								
	a. Major oxides by XRF	Nos.	4.1.15.a.	4,200	-	-	-		
	b. XRD analysis for identification of minerals	Nos	-	-	-	-	-		
ii)	Surface Check samples (10% External)				-		-		
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	-	-	-		
	b. XRD analysis for identification of minerals	Nos	-	-	-	-	-		
iii)	Trenches & Check Samples from Trenches								
	Trenches samples								
	a. Au by Fire Assay	Nos	-	-	-	-	-		
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos	-	-	-	-	-		
iv)	Trench Check samples (10% External)								
	a. Au by Fire Assay	Nos	-	-	-	-	-		
	b. For Ag, Ni, Co, Cr, Cu, Pb, Zn, V, Ti by AAS Method	Nos	-	-	-	-	-		
	c. For PGE	Nos.	-	-	-	-	-		
v)	BH Core samples							-	

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	a. Major oxides (Major oxides by XRF techniques)	Nos	4.1.15.a.	4,200	1,000	42,00,000	321	13,48,200	The total drilling meterage was reduced from 1,100 mtr to 398 mtr, and accordingly the total number of samples collected was also reduced from 1,000 nos to 321 nos.
	Combined determination of trihydrate Alumina (THA-140° C). Monohydrate Alumina (MHA-240° C) & Reactive silica	Nos	4.1.17 a	6,700	10	67,000	-		
vi)	BH Core samples (10%External)							-	
	a. Major oxides (Major oxides by XRF techniques)	Nos	4.1.15.a.	4,200	100	4,20,000	25	1,05,000	Total we have collected 321 nos of samples and 10% cross check samples was 25 nos.
	Combined determination of trihydrate Alumina (THA-140° C). Monohydrate Alumina (MHA-240° C) & Reactive silica	Nos	4.1.17 a	6,700	-	-	-		
2	<u>Physical & Petrological Studies</u>								
i	Preparation of thin section	Nos	4.3.1.	2,353	5	11,765	-		Thin sections were not prepared because the encountered bauxite and aluminous laterite were highly friable in nature, making the preparation of thin sections technically unsuitable.
ii	Study of thin section	Nos	4.3.4.	4,232	5	21,160	-		
iii	Preparation of polish section	Nos				-	-		
iv	study of polished section	Nos				-	-		
v	Digital Photographs	Nos	4.3.7.	280	5	1,400	-		

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vi	Whole Rock Analysis	Nos				-		-	
vii	Sp. Gravity/Bulk density	Nos	4.8.1.	3,540	5	17,700	4	14,160	The number of samples collected was reduced to 321 nos. out of the 1,000 nos. accordingly we have prepared 4 number of samples
viii	SEM Studies	per hour				-		-	
ix	EPMA studies	per hour				-		-	
	Sub Total G					47,39,025		14,67,360	
H	Total A to G					1,77,86,969		71,30,204	
I	Geological Report Preparation	5 Hard copies with a soft copy	5.2	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		7,50,000	1	3,56,510	
J	Peer review Charges		As per EC decision	30,000		30,000	1	30000	
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		3,55,739	1	1,42,604.08	
L	Tender Process		2.3			1,57,696			
M	Operational Charges		6			7,88,480			
N	Total Estimated Cost without GST					1,91,18,884		76,59,318	

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O	Provision for GST (18% of N)				34,41,399.12		13,78,677.29	
P	Total Estimated Cost with GST				2,25,60,283.12		90,37,995.57	
				Round Off	2,25,60,284.00		90,37,996.00	
				or Say Rs. In Lakhs	225.60		90.37	
				Change in amount (In Lakhs)	(-) 135.23	59.94% de-escalation		

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**Agenda 102.3.14. Preliminary Exploration for Limestone in Lodhva Block, Gir
Somanth District, Gujarat**

[Implementing Agency: CGM Gujarat]

- a. CGM Gujarat 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 8 months (up to 21.06.2025) and approved cost was INR 46,63,578/-
- b. Timeline was extended upto 31.12.2025 by EC in its 43rd meeting. Timeline was
- c. further extended upto 31.07.2026 and 31.08.2026 by PSC in its 10th and 11th meetings respectively.
- d. The GR of project has been submitted. However, during 100th meeting of TCC-I, the agency was instructed to modify the recommendations made in report and recommend block as auctionable rather than upgradable.
- e. The agency has modified the report accordingly.
- f. The final costing of the project was revised based on the actual quantum of work achieved and the corresponding expenditure.

Recommendations of TCC-1:

The committee recommended revision of cost of project from Rs. 46.64 lakh to Rs. 37.66 lakh with a change in amount of (-) Rs 8.98 lakhs (~19.25 % de-escalation), for approval of PSC, NMEDT as per Annexure 14.


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Revised Cost Estimate Sheet - Preliminary Exploration (G-3 stage) for Limestone in Lodhva Block, Gir Somnath District, Gujarat

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Achieved Work		Remark
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	Qty. (b)	Applicable Cost	
A	Geological Mapping Other Geological Work & Surveying	Sq km			3		3		DGPS survey and Geological mapping were successfully completed across the entire block.
	Geological mapping, (1:4000 scale) & Trenching, drilling work								
i	a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.2.a.	11,000	60	6,60,000	60	6,60,000	
ii	b. Labours Charges; Base rate	day	5.7	522	120	62,640	120	62,640	
	c. Charges for Geologist per day (HQ)	day	1.2.b.	9,000	30	2,70,000	30	2,70,000	
	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2.	5,100	23	1,17,300	20	1,02,000	Due to the reduction in total drilling meterage (103 mtr/140 mtr), the sampler days were reduced from 23 to 20.

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	e. Labours (4 Nos)	day	5.7	522	92	48,024	80	41,760	Due to the reduction in total drilling meterage (103 mtr/140 mtr), the Labours days were also reduced from 92 to 80.
	Sub Total- A					11,57,964		11,36,400	
B	Ground Geophysical Survey						-		
1	Gravity-Magnetic Method	per station	3.1.b.	4,500	-	-	-		
3	Geophysicist party days (Field)	per day	3.18.b.	11,000	-	-	-		
4	c. Labours Charges	day	5.7	522	-	0	-		
5	Geophysicist party days (HQ)	per day	3.18.a.	9,000	-	-	-		
	Sub Total- B					-	-		
C	Survey work								
a	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.6.2	19,200	7	134400	7	1,34,400	
b	Charges of Surveyor (1 party) for Geophysical survey layout work & Block boundary demarcation	one surveyor per day	1.6.1.a.	8,300	20	166000	20	1,66,000	
c	Labours Charges for survey work;	day	5.7	522	80	41760	80	41,760	
	Sub-Total C					3,42,160		3,42,160	
D	Trenching/Pitting							-	

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	a) Excavation of Pitting	per cu.m						-	
E	DRILLING							-	
1	Surface drilling	m	2.2.1.1b	7,168	140	10,03,520	103	7,38,304	Due to limited mineralization zone drilling meterage achieved was 103 mtr instead of 140 mtr.
2	Borehole deviation Survey by Multishot Camera	m						-	
3	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH						-	
4	Construction of concrete Pillar (12"x12"x30")	per borehole						-	
5	Transportation of Drill Rig & Truck associated per drill (2 rigs)	Km						-	
6	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month						-	
7	Drilling Camp Setting Cost	Nos						-	
8	Drilling Camp Winding up Cost	Nos						-	
9	Road Making (Flat Terrain)	Km						-	
10	Drill Core Preservation	per m	5.3	1,590	140	2,22,600	103	1,63,770	Total drilling carried out is 103 mtr only.

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	Sub Total E					12,26,120		9,02,074	
F	Borehole Geophysical Logging	5 Bhs of 350m each						-	
G	LABORATORY STUDIES							-	
1	Chemical Analysis							-	
i)	Geochemical Sampling-Surface samples (Bedrock/Channel /Soil/Stream sediment)							-	
	a. Major oxides by XRF	Nos.	4.1.15.a.	4,200	30	1,26,000	16	67,200	Limited exposure of limestone was found across the block, hence only 16 samples were collected out of the planned 30.
	b. XRD analysis for identification of minerals	Nos	4.5.1.	4,000	-	-		-	
ii)	Surface Check samples (10% External)				-			-	
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	3	12,600	-		
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-			
iii)	Trenches & Check Samples from Trenches						*		
	Trenches samples								

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	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	-	-	-		
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-	-		
iv)	Trench Check samples (10% External)								
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	-	-	-		
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-	-		
v)	BH Core samples							-	
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	140	5,88,000	103	4,32,600	Total drilling meterage was reduced from 140 mtr to 103 mtr, and as such the total number of samples collected was also reduced from 140 nos to 103 nos.
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-		-	
vi)	BH Core samples (10%External)							-	
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	14	58,800	11	46,200	Total we have collected 103 samples, with 11 samples taken for 10% cross-check analysis.
	b. XRD analysis for identification of minerals	Nos	4.5.1.	4,000	-	-		-	
2	Physical & Petrological Studies							-	

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i	Preparation of thin section	Nos	4.3.1.	2,353	5	11,765	3	7,059	Total drilling meterage was reduced from 140 mtr to 103 mtr, and as such the total number of samples collected was also reduced from 140 nos to 103 nos, and accordingly we prepared limited thin sections and photographs.
ii	Study of thin section	Nos	4.3.4.	4,232	5	21,160	3	12,696	
iii	Preparation of polish section	Nos				-		-	
iv	study of polished section	Nos				-		-	
v	Digital Photographs	Nos	4.3.7.	280	5	1,400	3	840	
vi	Whole Rock Analysis	Nos				-		-	
vii	Sp. Gravity/Bulk density	Nos	4.8.1.	3,540	2	7,080	2	7,080	
viii	SEM Studies	per hour				-		-	
ix	EPMA studies	per hour				-		-	
						8,26,805		5,73,675	
H	Total A to G					35,53,049		29,54,309	
I	Geological Report Preparation	5 Hard copies with a soft copy	5.2	5.2 (i/ii/iii/iv)		1,77,652	1	1,47,715	
J	Peer review Charges		As per EC decision	30,000		30,000	1	30000	
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		71,061	1	59,086.18	

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L	Tender Process					20,070			
M	Operational Charges					1,00,352			
N	Total Estimated Cost without GST					39,52,184		31,91,111	
O	Provision for GST (18% of N)					7,11,393.12		5,74,399.91	
P	Total Estimated Cost with GST					46,63,577.12		37,65,510.54	
Round Off						46,63,578.00		37,65,511.00	
or Say Rs. In Lakhs						46.64		37.66	
Change in amount (in Lakhs)							(-) 8.98	19.25% de escalation	

B.L.S., 29.08.26

Sanj 29/08/2026

**Agenda 102.3.15. Preliminary Exploration for Limestone in Matana Block, Gir
Somnath District, Gujarat**

[Implementing Agency: CGM Gujarat]

- a. CGM Gujarat 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 8 months (up to 21.06.2025) and approved cost was INR 57,46,896/-
- b. Timeline was extended upto 31.12.2025 by EC in its 43rd meeting. Timeline was further extended upto 31.07.2026 and 31.08.2026 by PSC in its 10th and 11th meetings respectively.
- c. The GR of project has been submitted. However, during 100th meeting of TCC-I, the agency was instructed to modify the recommendations made in report and recommend block as auctionable rather than upgradable.
- d. The agency has modified the report accordingly.
- e. The final costing of the project was revised based on the actual quantum of work achieved and the corresponding expenditure.

Recommendations of TCC-1:

The committee recommended revision of cost of project from Rs. 57.47 lakh to Rs. 23.50 lakh with a change in amount of (-) Rs 33.97 lakhs (~59.11% de-escalation), for approval of PSC, NMEDT as per Annexure 15.


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Annexure 15

Revised Cost Estimate Sheet - Preliminary Exploration (G-3 stage) for Limestone in Matana Block, Gir Somnath District, Gujarat

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		achieved Work		Remark
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	Qty. (b)	Applicable Cost	
A	Geological Mapping Other Geological Work & Surveying	Sq km			1.42		1.42		DGPS survey and Geological mapping successfully completed across the entire block.
	Geological mapping, (1:4000 scale) & Trenching , drilling work								
i	a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.2.a.	11,000	60	6,60,000	50	5,50,000	Due to the reduction in total drilling meterage (40 mtr/200 mtr), the working days were also reduced.
ii	b. Labours Charges; Base rate	day	5.7	522	120	62,640	100	52,200	Due to the reduction in total drilling meterage(40 mtr/200 mtr), the labour charges were also reduced.
	c. Charges for Geologist per day (HQ)	day	1.2.b.	9,000	30	2,70,000	30	2,70,000	
	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2.	5,100	32	1,63,200	7	35,700	Due to the reduction in total drilling meterage(40 mtr/200 mtr), the working days were also reduced.
	e. Labours (4 Nos)	day	5.7	522	128	66,816	28	14,616	

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	Sub Total- A					12,22,656		9,22,516	
B	Ground Geophysical Survey							-	
1	Gravity-Magnetic Method	per station	3.1.b.	4,500	-	-	-		
3	Geophysicist party days (Field)	per day	3.18.b.	11,000	-	-	-		
4	c. Labours Charges	day	5.7	522	-	0	-		
5	Geophysicist party days (HQ)	per day	3.18.a.	9,000	-	-	-		
	Sub Total- B					-	-		
C	Survey work						-		
a	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.6.2	19,200	4	76800	4	76,800	
b	Charges of Surveyor (1 party) for Geophysical survey layout work & Block boundary demarcation	one surveyor per day	1.6.1.a.	8,300	20	166000	20	1,66,000	
c	Labours Charges for survey work;	day	5.7	522	80	41760	80	41,760	
	Sub-Total C					2,84,560		2,84,560	
D	Trenching/Pitting							-	
	a) Excavation of Pitting	per cu.m						-	
E	DRILLING							-	

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1	Surface drilling	m	2.2.1.1b	7,168	200	14,33,600	40	2,86,720	Due to limited mineralization zone drilling meterage achieved was 40 mtr instead of 200 mtr.
2	Borehole deviation Survey by Multishot Camera	m						-	
3	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH						-	
4	Construction of concrete Pillar (12"x12"x30")	per borehole						-	
5	Transportation of Drill Rig & Truck associated per drill (2 rigs)	Km						-	
6	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month						-	
7	Drilling Camp Setting Cost	Nos						-	
8	Drilling Camp Winding up Cost	Nos						-	
9	Road Making (Flat Terrain)	Km						-	
10	Drill Core Preservation	per m	5.3	1,590	200	3,18,000	40	63,600	Total drilling carried out is 40 mtr only.
	Sub Total E					17,51,600		3,50,320	
F	Borehole Geophysical Logging	5 Bhs of 350m each						-	

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G	LABORATORY STUDIES							-	
1	Chemical Analysis							-	
i)	Geochemical Sampling-Surface samples (Bedrock/Channel /Soil/Stream sediment)							-	
	a. Major oxides by XRF	Nos.	4.1.15.a.	4,200	30	1,26,000	15	63,000	Limited exposure of limestone was found across the block, hence only 15 samples were collected out of the planned 30.
	b. XRD analysis for identification of minerals	Nos	4.5.1.	4,000	-	-		-	
ii)	Surface Check samples (10% External)				-			-	
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	3	12,600	-		
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-	-		
iii)	Trenches & Check Samples from Trenches						-		
	Trenches samples						-		
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	-	-	-		
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-	-		

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iv)	Trench Check samples (10% External)						-		
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	-	-	-		
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-	-		
v)	BH Core samples							-	
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	200	8,40,000	40	1,68,000	Total drilling meterage was reduced from 200 mtr to 40 mtr, and as such the total number of samples collected was also reduced from 200 nos to 40 nos samples.
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-		-	
vi)	BH Core samples (10% External)							-	
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	20	84,000	4	16,800	Total we have collected 40 samples, with 4 samples taken for 10% cross-check analysis.
	b. XRD analysis for identification of minerals	Nos	4.5.1.	4,000	-	-		-	
2	<u>Physical & Petrological Studies</u>							-	
i	Preparation of thin section	Nos	4.3.1.	2,353	5	11,765	3	7,059	Total drilling meterage was reduced from 200 mtr to 40 mtr, and as such the total number of
ii	Study of thin section	Nos	4.3.4.	4,232	5	21,160	3	12,696	

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iii	Preparation of polish section	Nos				-		-	samples collected was also reduced from 200 nos to 40 nos , and accordingly we prepared limited thin sections and photographs.
iv	study of polished section	Nos				-		-	
v	Digital Photographs	Nos	4.3.7.	280	5	1,400	3	840	
vi	Whole Rock Analysis	Nos				-		-	
vii	Sp. Gravity/Bulk density	Nos	4.8.1.	3,540	2	7,080	2	7,080	
viii	SEM Studies	per hour				-		-	
ix	EPMA studies	per hour				-		-	
						11,04,005		2,75,475	
H	Total A to G					43,62,821		18,32,871	
I	Geological Report Preparation	5 Hard copies with a soft copy	5.2	5.2 (i/ii/iii/iv)		2,18,141.05	1	91,643.55	
J	Peer review Charges		As per EC decision	30,000		30,000	1	30,000.00	
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		87,256.42	1	36,657.42	
L	Tender Process					28,672			
M	Operational Charges					1,43,360			
N	Total Estimated Cost without GST					48,70,250		19,91,172	

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O	Provision for GST (18% of J)				8,76,645.08		3,58,410.95	
P	Total Estimated Cost with GST				57,46,895.55		23,49,582.92	
				Round off	57,46,896.00		23,49,583.00	
				or Say Rs. In Lakhs	57.47		23.5	
			Change in amount (in Lakhs)		(-) 33.97	59.11 % de-escalation		

B.L.S., 29.08.26

Sau
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Agenda 102.3.16. Preliminary Exploration (G-3 Level) for Limestone in Simar Block, Gir Somanth District, Gujarat

[Implementing Agency: CGM Gujarat]

- a. CGM Gujarat 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 6 months (up to 21.04.2025) and approved cost was INR 29,52,153/-.
- b. Timeline was extended upto 31.12.2025 by EC in its 43rd meeting. Timeline was further extended upto 31.07.2026 and 31.08.2026 by PSC in its 10th and 11th meetings respectively.
- c. The GR of project has been submitted. However, during 100th meeting of TCC-I, the agency was instructed to modify the recommendations made in report and recommend block as auctionable rather than upgradable.
- d. The agency has modified the report accordingly.
- e. The final costing of the project was revised based on the actual quantum of work achieved and the corresponding expenditure.

Recommendations of TCC-1:

The committee recommended revision of cost of project from Rs. 29.52 lakh to Rs. 21.84 lakh with a change in amount of (-) Rs 7.68 lakhs (~26.02% de-escalation), for approval of PSC, NMEDT as per Annexure 16.

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Revised Cost Estimate Sheet - Preliminary Exploration (G-3 stage) for Limestone in Simar Block, Gir Somnath District, Gujarat

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		achieved Work		Remark
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	Qty. (b)	Applicable Cost	
A	Geological Mapping Other Geological Work & Surveying	Sq km			1.75		1.75		DGPS survey and Geological mapping successfully completed across the entire block.
	Geological mapping, (1:4000 scale) & Trenching , drilling work								
i	a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.2.a.	11,000	50	5,50,000	40	4,40,000	Due to the reduction in total drilling meterage(35.25 mtr/60 mtr), the working days were also reduced.
ii	b. Labours Charges; Base rate	day	5.7	522	100	52,200	80	41,760	Due to the reduction in total drilling meterage(35.25 mtr/60 mtr), the labour charges were also reduced.
	c. Charges for Geologist per day (HQ)	day	1.2.b.	9,000	30	2,70,000	30	2,70,000	
	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2.	5,100	12	61,200	10	51,000	Due to the reduction in total drilling meterage(35.25 mtr/60 mtr), the working days were also reduced.
	e. Labours (4 Nos)	day	5.7	522	48	25,056	40	20,880	

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	Sub Total- A					9,58,456		8,23,640	
B	Ground Geophysical Survey							-	
1	Gravity-Magnetic Method	per station	3.1.b.	4,500	-	-	-		
3	Geophysicist party days (Field)	per day	3.18.b.	11,000	-	-	-		
4	c. Labours Charges	day	5.7	522	-	0	-		
5	Geophysicist party days (HQ)	per day	3.18.a.	9,000	-	-	-		
	Sub Total- B					-	-		
C	Survey work							-	
a	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.6.2	19,200	4	76800	4	76,800	
b	Charges of Surveyor (1 party) for Geophysical survey layout work & Block boundary demarcation	one surveyor per day	1.6.1.a.	8,300	20	166000	20	1,66,000	
c	Labours Charges for survey work;	day	5.7	522	80	41760	80	41,760	
	Sub-Total C					2,84,560	104	2,84,560	
D	Trenching/Pitting								
	a) Excavation of Pitting	per cu.m							
E	DRILLING								

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1	Surface drilling	m	2.2.1.1b	7,168	60	4,30,080	35.25	2,52,672	Due to limited mineralization zone drilling meterage achieved was 35.25 mtr instead of 60 mtr.
2	Borehole deviation Survey by Multishot Camera	m						-	
3	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH						-	
4	Construction of concrete Pillar (12"x12"x30")	per borehole						-	
5	Transportation of Drill Rig & Truck associated per drill (2 rigs)	Km						-	
6	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month						-	
7	Drilling Camp Setting Cost	Nos						-	
8	Drilling Camp Winding up Cost	Nos						-	
9	Road Making (Flat Terrain)	Km						-	
10	Drill Core Preservation	per m	5.3	1,590	60	95,400	35.25	56,048	Total drilling carried out is 35.25 mtr only.
	Sub Total E					5,25,480		3,08,720	
F	Borehole Geophysical Logging	5 Bhs of 350m each						-	

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G	LABORATORY STUDIES							-	
1	Chemical Analysis							-	
i)	Geochemical Sampling-Surface samples (Bedrock/Channel /Soil/Stream sediment)							-	
	a. Major oxides by XRF	Nos.	4.1.15.a.	4,200	30	1,26,000	12	50,400	Limited exposure of limestone was found across the block, hence only 12 samples were collected out of the planned 30.
	b. XRD analysis for identification of minerals	Nos	4.5.1.	4,000	-	-		-	
ii)	Surface Check samples (10% External)				-			-	
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	3	12,600	-		
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-		-	
iii)	Trenches & Check Samples from Trenches							-	
	Trenches samples							-	
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	-	-	-		
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-	-		

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iv)	Trench Check samples (10% External)						-		
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	-	-	-		
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-	-		
v)	BH Core samples							-	
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	60	2,52,000	47	1,97,400	Total drilling meterage was reduced from 60 mtr to 35.25 mtr, and as such the total number of samples collected was also reduced from 60 nos to 47 nos samples.
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-		-	
vi)	BH Core samples (10% External)							-	
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	6	25,200	4	16,800	Total we have collected 47 samples, with 4 samples taken for 10% cross-check analysis.
	b. XRD analysis for identification of minerals	Nos	4.5.1.	4,000	-	-	-		
2	Physical & Petrological Studies							-	
i	Preparation of thin section	Nos	4.3.1.	2,353	5	11,765	2	4,706	Total drilling meterage was reduced from 60 mtr to 35.25 mtr, and as such the total number of
ii	Study of thin section	Nos	4.3.4.	4,232	5	21,160	2	8,464	

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iii	Preparation of polish section	Nos				-	-		samples collected was also reduced from 60 nos to 47 nos , and accordingly we prepared limited thin sections and photographs.
iv	study of polished section	Nos				-	-		
v	Digital Photographs	Nos	4.3.7.	280	5	1,400	2	560	
vi	Whole Rock Analysis	Nos				-		-	
vii	Sp. Gravity/Bulk density	Nos	4.8.1.	3,540	2	7,080	2	7,080	
viii	SEM Studies	per hour				-		-	
ix	EPMA studies	per hour				-		-	
						4,57,205		2,85,410	
H	Total A to G					22,25,701		17,02,330	
I	Geological Report Preparation	5 Hard copies with a soft copy	5.2	5.2 (i/ii/iii/iv)		1,50,000	1	85,116	
J	Peer review Charges		As per EC decision	30,000		30,000	1	30000	
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		44,514	1	34,046.59	
L	Tender Process					8,602		-	

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M	Operational Charges					43,008		-	
N	Total Estimated Cost without GST					25,01,825		18,51,493	
O	Provision for GST (18% of N)					4,50,328.50		3,33,268.66	
P	Total Estimated Cost with GST					29,52,153.50		21,84,761	
				Round Off		29,52,153.00		21,84,761	
				or Say Rs. In Lakhs		29.52		21.84	
			Difference in amount (Lakhs)			(-) 7.68	26.02% de-escalation		

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Agenda 102.3.17. Detailed Exploration (G-3 Level) for Limestone in Bolas Block, Gir Somanth District, Gujarat

[Implementing Agency: CGM Gujarat]

- a. CGM Gujarat 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 6 months (up to 21.04.2025) and approved cost was INR 39,97,365/-
- b. Timeline was extended upto 31.12.2025 by EC in its 43rd meeting. Timeline was further extended upto 31.07.2026 and 31.08.2026 by PSC in its 10th and 11th meetings respectively.
- c. The GR of project has been submitted. However, during 100th meeting of TCC-I, the agency was instructed to modify the recommendations made in report and recommend block as auctionable rather than upgradable.
- d. The agency has modified the report accordingly.
- e. The final costing of the project was revised based on the actual quantum of work achieved and the corresponding expenditure.

Recommendations of TCC-1:

The committee recommended revision of cost of project from Rs. 39.97 lakh to Rs. 30.03 lakh with a change in amount of (-) Rs 9.94 lakhs (~24.87% de-escalation), for approval of PSC, NMEDT as per Annexure 17.


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Annexure 17

Revised Cost Estimate Sheet - Preliminary Exploration (G-3 stage) for Limestone in Bolas Block, Gir Somnath District, Gujarat

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		achieved Work		Remark
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	Qty. (b)	Applicable Cost	
A	Geological Mapping Other Geological Work & Surveying	Sq km			2.03		2.03		DGPS survey and Geological mapping successfully completed across the entire block.
	Geological mapping, (1:4000 scale) & Trenching , drilling work								
i	a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.2.a.	11,000	60	6,60,000	50	5,50,000	Due to the reduction in total drilling meterage (68 mtr/100 mtr) , the working days were also reduced.
ii	b. Labours Charges; Base rate	day	5.7	522	120	62,640	100	52,200	Due to the reduction in total drilling meterage(68 mtr/100 mtr), the labour charges were also reduced.
	c. Charges for Geologist per day (HQ)	day	1.2.b.	9,000	30	2,70,000	30	2,70,000	

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	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.5.2.	5,100	21	1,07,100	20	1,02,000	Due to the reduction in total drilling meterage(68 mtr/100 mtr), the working days were also reduced.
	e. Labours (4 Nos)	day	5.7	522	84	43,848	80	41,760	
	Sub Total- A					11,43,588		10,15,960	
B	Ground Geophysical Survey								
	Gravity-Magnetic Method	per station	3.1.b.	4,500	-	-	-		
	Geophysicist party days (Field)	per day	3.18.b.	11,000	-	-	-		
	c. Labours Charges	day	5.7	522	-	0	-		
	Geophysicist party days (HQ)	per day	3.18.a.	9,000	-	-	-		
	Sub Total- B					-	-		
C	Survey work						-		
a	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.6.2	19,200	5	96000	5	96,000	
b	Charges of Surveyor (1 party) for Geophysical survey layout work & Block boundary demarcation	one surveyor per day	1.6.1.a.	8,300	20	166000	20	1,66,000	
c	Labours Charges for survey work;	day	5.7	522	80	41760	80	41,760	
	Sub-Total C					3,03,760		3,03,760	
D	Trenching/Pitting								
	a) Excavation of Pitting	per cu.m							
E	DRILLING								

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1	Surface drilling	m	2.2.1.1b	7,168	100	7,16,800	68	4,87,424	Due to limited mineralization zone drilling meterage achieved was 68 mtr instead of 100 mtr.
2	Borehole deviation Survey by Multishot Camera	m							
3	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH							
4	Construction of concrete Pillar (12"x12"x30")	per borehole							
5	Transportation of Drill Rig & Truck associated per drill (2 rigs)	Km							
6	Monthly Accomodation Charges for drilling Camp (up to 2 Rigs)	month							
7	Drilling Camp Setting Cost	Nos							
8	Drilling Camp Winding up Cost	Nos							
9	Road Making (Flat Terrain)	Km							
10	Drill Core Preservation	per m	5.3	1,590	100	1,59,000	68	1,08,120	Total drilling carried out is 68 mtr only.
	Sub Total E					8,75,800		5,95,544	
F	Borehole Geophysical Logging	5 Bhs of 350m each							
G	LABORATORY STUDIES								
1	Chemical Analysis								

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i)	Geochemical Sampling- Surface samples (Bedrock/Channel /Soil/Stream sediment)								
	a. Major oxides by XRF	Nos.	4.1.15.a.	4,200	50	2,10,000	15	63,000	Limited exposure of limestone was found across the block, hence only 15 samples were collected out of the planned 50.
	b. XRD analysis for identification of minerals	Nos	4.5.1.	4,000	-	-			
ii)	Surface Check samples (10% External)				-				
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	5	21,000	-		
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-			
iii)	Trenches & Check Samples from Trenches								
	Trenches samples								
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	-	-	-		
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-	-		
iv)	Trench Check samples (10% External)						-		
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	-	-	-		
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-	-		
v)	BH Core samples								

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	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	100	4,20,000	78	3,27,600	Total drilling meterage was reduced from 100 mtr to 68 mtr, and as such the total number of samples collected was also reduced from 100 nos to 78 nos samples.
	b. XRD analysis for identification of minerals	Nos	4.5.1.	7,731	-	-			
vi)	BH Core samples (10%External)								
	a. Major oxides by XRF	Nos	4.1.15.a.	4,200	10	42,000	4	16,800	Total we have collected 68 samples, with 4 samples taken for 10% cross-check analysis.
	b. XRD analysis for identification of minerals	Nos	4.5.1.	4,000	-	-			
2	<u>Physical & Petrological Studies</u>								
i	Preparation of thin section	Nos	4.3.1.	2,353	5	11,765	3	7,059	Total drilling meterage was reduced from 100 mtr to 68 mtr, and as such the total number of samples collected was also reduced from 100 nos to 78 nos, and accordingly we prepared limited
ii	Study of thin section	Nos	4.3.4.	4,232	5	21,160	3	12,696	
iii	Preparation of polish section	Nos				-		-	
iv	study of polished section	Nos				-		-	
v	Digital Photographs	Nos	4.3.7.	280	5	1,400	3	840	

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									thin sections and photographs.
vi	Whole Rock Analysis	Nos				-		-	
vii	Sp. Gravity/Bulk density	Nos	4.8.1.	3,540	2	7,080	2	7,080	
viii	SEM Studies	per hour				-			
ix	EPMA studies	per hour				-			
						7,34,405		4,35,075	
H	Total A to G					30,57,553		23,50,339	
I	Geological Report Preparation	5 Hard copies with a soft copy	5.2	5.2 (i/ii/iii/iv)		1,52,878	1	1,17,517	
J	Peer review Charges		As per EC decision	30,000		30,000	1	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		61,151	1	47,006.78	
L	Tender Process					14,336			
M	Operational Charges					71,680			
N	Total Estimated Cost without GST					33,87,598		25,44,863	
O	Provision for GST (18% of J)					6,09,767.64		4,58,075.29	

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P	Total Estimated Cost with GST				39,97,365.64		30,02,938	
				Round Off	39,97,365		30,02,938	
				or Say Rs. In Lakhs	39.97		30.03	
			Difference in amount (Lakhs)		(-) 9.94	24.87% de-escalation		

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Agenda 102.3.18. Keluamali, District- Kalahandi, Odisha

[Implementing Agency: OMC]

- a. The committee was informed that the project was approved in the 11th EC Meeting held on 11th February, 2019.
- b. The project was discussed during 99th TCC-I meeting where the agency was instructed that GR may be submitted. The committee has recommended downgrading of GR from G3 to G4.
- c. The pre-closure of project was approved during 9th meeting of PSC. Timeline of project was also extended upto 31.07.2026.
- d. The agency informed that the GR has been prepared.
- e. The committee suggested the agency to submit GR for peer review.
- f. The committee agreed for extension of timeline upto 30.09.2026 for submission of GR.

Recommendations of TCC-1:

The committee recommended timeline extension upto 30th September, 2026 for approval of PSC, NMEDT. Timeline extension is recommended for submission of GR.

The committee also recommended downgrading of GR from G3 to G4 stage, for approval of PSC, NMEDT.

Agenda 102.3.19. Majhingamali, District- Rayagada & Kalahandi, Odisha

[Implementing Agency: OMC]

- a. The committee was informed that the project was approved in the 11th EC Meeting held on 11th February, 2019.
- b. The project was discussed during 99th TCC-I meeting where the agency was instructed that GR may be submitted. The committee has recommended downgrading of GR from G3 to G4.
- c. The pre-closure of project was approved during 9th meeting of PSC. Timeline of project was also extended upto 31.07.2026.
- d. The agency informed that the GR has been prepared.
- e. The committee suggested the agency to submit GR for peer review.
- f. The committee agreed for extension of timeline upto 30.09.2026 for submission of GR.

Recommendations of TCC-1:

The committee recommended timeline extension upto 30th September, 2026 for approval of PSC, NMEDT. Timeline extension is recommended for submission of GR.

The committee also recommended downgrading of GR from G3 to G4 stage, for approval of PSC, NMEDT.

Agenda 102.3.20. Reconnaissance Survey (G4) for REE and Associated Minerals in Maddur area, Narayanpet District, Telangana

[Implementing Agency: M/s Critical Mineral Trackers]

- a. Critical Mineral Trackers informed that the project was approved in the 43rd EC meeting held on 14th August, 2025. The Sanction Order was issued on 4th September, 2025 with timeline of 10 months (up to 03.07.2026) and approved cost was INR 1,31,12,292/-. Timeline of project was extended upto 31.07.2026 during 10th meeting of PSC.
- b. It was further informed that the agency has submitted GR within stipulated time.


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- c. The agency informed that they have carried out SEM analysis in place of EPMA studies. The agency informed that they could not get slot for EPMA in GSI. The agency requested to consider SEM analysis results in place of EPMA.
- d. The committee accepted the SEM analysis in place of EPMA. The committee also specified that since SEM is being added after new SoC came to force, so this component will be calculated as per revised SoC. The cost was revised accordingly and revision of cost was recommended for approval of PSC, NMEDT.

Recommendations of TCC-1:

The committee recommended revision of cost of project from Rs. 131.12 lakh to Rs. 58.00 lakh with a change in amount of (-) Rs 73.12 lakhs (~55.77% de-escalation), for approval of PSC, NMEDT as per Annexure 18.

The committee also recommended SEM analysis in place of EPMA for approval of PSC, NMEDT.


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Annexure 18

Revised Cost Sheet for Reconnaissance Survey (G4) for REE and Associated Minerals in Maddur area, Narayanpet District, Telangana

S.No	Item of Work	Unit	Rates as per NMET SoC		Estimated Cost of the Proposal		Achieved Quantity		Remarks
			SoC-Item-SI No.	Rates as per SOC	Quantum	Total Amount(Rs)	Quantity	Amount (Rs)	
A	Geological Work								
1	Geological Mapping(LSM): (1:12500) & sampling — Geologist field-days	One Geologist Per Day	1.	11000	150	1650000	120	1320000	
2	Geologists(HQ)days, pre & post field interpretation 15 +30 days One	Geologist Per Day	1.	9000	40	360000	40	360000	
3	Pitting	Per Cu.m	2.1.2	3800	150	570000	150	570000	
4	Trenching	Per Cu.m	2.1.1			0		0	
5	Charges for one Sampler per day	day	1.5.2	5100	53	270300	45	229500	
6	Labour(4 labour) attached to sampler	day	1.5.2/5.7	541	212	114692	180	97380	
7	Labour (150Field days) per team:2 workers : 150*2 for two geologist teams	day	6.	541	300	162300	240	129840	
	Sub-Total -A					3127292		27,06,720	
B	Survey Work:								
1	DGPS/GPS Surveyor (Fixation of borehole poins)	Per point of observation	1.6.2	19,200	6	115200	0	0	Total 6 points for Borehole
	Sub-total-B					115200		0	
C	Core Drilling (In-house)								

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1	Drilling (hard rock)	Per meter	2.2.1.4	11,500	300	3450000	0	0	300m,Hard rock (6 Boreholes after review)
2	Construction of BH pillar (12"*12"*30")	Per pillar	2.2.7a	2000	6	12000	0	0	6 pillars
3	Transportation of Drill Rig	per km	2.2.8	310	36	11160	0	0	Hyderabad to Maddur-155km
4	Monthly accommodation charges for drilling camp	Monthly basis	2.2.9	50000	3	150000	0	0	4 months
5	Drilling camp setting cost	lumpsum	2.2.9a	lumpsum	1	250000	0	0	lumpsum
6	Drilling camp winding cost	lumpsum	2.2.9b	lumpsum	1	250000	0	0	lumpsum
7	Approach road making	per km	2.2.10a	22020	6	132120	0	0	Approx. 6km (As per actuals)
8	Land/Crop Compensation	Per bore hole	6.	20,000	6	120000	0	0	6 BHs (As per actuals)
9	Drill core preservation in GI core boxes	Per meter	5.	1590	150	238500	0	0	285m core(excl.soil/wz)
	Sub total-C					4613780	0	0	
D	Laboratory Studies								
1	Bedrock samples (quantitative REE analysis (14 REE elements/radicals by ICP-MS)	Per sample	4-1-13	5380	115	618700	115	618700	As per field evidences
2	Pitting samples (quantitative REE analysis (14 REE elements/radicals by ICP-MS)	Per sample	4-1-13	5380	150	807000	150	807000	
3	10 percent check samples (quantitative REE analysis (14 REE elements/radicals by ICP-MS)	Per sample	4-1-13	5380	27	145260	27	145260	

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4	Core drilling Samples (quantitative REE analysis (14 REE elements/radicals by ICP-MS)	Per sample	4-1-13	5380	100	538000	0	0	
5	10 percent check samples (quantitative REE analysis (14 REE elements/radicals by ICP-MS)	Per sample	4-1-13	5380	10	53800	0	0	
6	Samples for Au,As,Sb,Bi,Ag (First 5 radicals by AAS method)	Per sample	4.1.7 a	2506	20	50120	20	50120	Au, As,Sb,Bi,Ag
7	10 percent check samples for Au,As,Sb,Bi,Ag (First 5 radicals by AAS method)	Per sample	4.1.7 a	2506	2	5012	2	5012	Au, As,Sb,Bi,Ag
8	Preparation of standard thin section	Per sample	4.3.1	2353	30	70590	30	70590	
9	Complete petrographic/ore microscopic/mineragraphic studies	Per sample	4.3.4	4232	30	126960	30	126960	
10	EPMA Studies per hour	Per sample	4.4.1	8540	10	85400			
11	SEM Studies per hour	Per sample	4.4.2	3500			10	35000	The rate is as per new SoC as this component is being added after revised SoC came into force
	Sub- Total-D					2500842		1858642	
	TOTAL (A+B+C+D)					10357114		45,65,362	
F	Preparation of Exploration Proposal (5 Hard copies with a soft copy)		2% of the project cost subject to a maximum of 5 lakhs		1	207142		91307.24	2% of the Project cost.
G	Geological Report (5 Hard copies with a soft copy)		5% of the Project cost		5	517856		228268.1	5% of the Project Cost.

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	Peer review charges					30000		30000	
H	Project Cost without GST					11112112		4914937	
I	18% GST					2000180		884689	
J	Total Project Cost					13112292		5799626	
K	Rs. In Lacs					131.12		58.00	
				Change in cost (in Lakhs)			(-) 73.12	55.77 % 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 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 102.3.21. Reconnaissance Survey (G4) for Critical & Associated Minerals in Kanore-Bari Sadri area in Udaipur & Chittorgarh districts, Rajasthan

[Implementing Agency: M/s Envirogreen Consultants (India) Pvt. Ltd.]

- a. The agency 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 10 months (up to 05.01.2027) and approved cost was INR 2,05,40,557/-.
- b. The agency apprised the Committee that Large-Scale Mapping (LSM) over 120 sq. km has been completed. Pitting, trenching and surface sampling have also been completed, along with the chemical analysis of collected samples.
- c. The agency informed that Vanadium (as V₂O₅) and Copper emerged as the most significant anomalies, with Copper values reaching as high as 8.61% and 3.85% (XRF) at two locations in the northern and central part of the block, and Vanadium showing above-cut-off values (>500 ppm) at 34 of 54 ICPMS locations and all 19 XRF locations tested. Silver (AAS) also returned above cut-off values at 67 of 86 locations tested.
- d. Based on integrated interpretation of ICP-MS and XRF geochemical data with lithology, ten mineralised zones (MZ-A to MZ-J) have been delineated across the block by agency.
- e. Five scout boreholes, each up to 50 m depth, have been proposed near the identified mineralised zones to investigate mineralisation hosted by dolerite, amphibolite, granite/granitic gneiss and the andesite pyroclastic tuff–basalt–rhyolite–carbonate sequence in the southeastern part of the block.
- f. The Committee reviewed the progress and advised the agency to specifically identify hydrothermally altered and brecciated Granite–Dolerite contact zones, as such zones may represent conducive settings for Cu mineralisation.
- g. The agency was further instructed to identify the controls of mineralisation in field.
- h. The committee further suggested that the agency may consult GR of Tintini Cu-prospect, which has similar geological setting.
- i. The agency was further advised to visit field and collect channel samples from proposed BH locations, get it analysed and identify the controls of mineralisation.
- j. The agency was instructed to come for review in next month with analytical results as suggested.

Recommendations of TCC-1:

The Committee advised the agency to undertake field verification and collect and analyse channel samples at the proposed borehole locations to establish the controls of mineralisation, and to present the analytical results in the next review meeting.

Agenda 102.3.22. Preliminary Exploration (G-3) for Iron and Manganese mineralization in Ramghad Block, Bellari District, Karnataka

[Implementing Agency: M/s Ecomen Mining Pvt. Ltd.]

- a. The agency informed that the project was approved in the 35th EC Meeting held on 16th May, 2024. The sanction order was issued on 10.06.2024 with timeline of 12 months (up to 09.06.2025) and approved cost was INR 1,64,36,127/-.
- b. The timeline of project was extended upto 9.12.2025 during 77th meeting of TCC-I.


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- c. However, the notification of NPEA was expired on 28.09.2025. Prior to de-notification, the agency has completed Geological Mapping, Topographic Survey and collection and analysis of BRS.
- d. The agency has been re-notified on 20.07.2026.
- e. The agency sought timeline extension upto 31st May, 2027 for completion of work.
- f. The committee deliberated the issue and agreed to recommend timeline extension upto 28.02.2027.
- g. The timeline extension was recommended for completion of remaining work and submission of GR.

Recommendations of TCC-1:

The committee recommended timeline extension upto 28.02.2027 for approval of PSC, NMEDT. Timeline extension is recommended for completion of work and submission of GR.

**Agenda 102.3.23. Detailed Exploration (G2) for Bauxite and Aluminous Laterite in Byndoor Block, Udipi District, Karnataka
[Implementing Agency: M/s Ecomen Mining Pvt. Ltd.]**

- a. The agency informed that the project was approved in the 42nd EC Meeting held on 02.06.2025. The sanction order was issued on 1.07.2025 with timeline of 10 months (up to 30.04.2026) and approved cost was INR 2,25,47,386/-.
- b. However, the notification of NPEA was expired on 28.09.2025. The agency has been re-notified on 20.07.2026.
- c. The committee observed that the work was not initiated prior to de-notification. The committee opined that since the work has not been initiated in the project, the cost may be revised as per revised SoC (2025-26) of NMEDT and a fresh sanction order may be issued after PSC approval.
- d. The committee also observed that the project was allotted for G2 stage and opined that G3 work may be taken up instead. The agency was instructed to submit the revised proposal.
- e. Accordingly, the quantum and cost of project was revised and recommended for approval of PSC.

Recommendations of TCC-1:

The committee revised the quantum of work and cost as per Annexure 19 for approval of PSC NMEDT.

The committee recommended the revised proposal titled "Preliminary (G3) Exploration for Bauxite/Aluminous Laterite mineralization in Byndoor Block, Udipi District, Karnataka" for approval of PSC, NMEDT with an estimated revised cost of Rs. 97.39 lakhs (including GST) with a timeline of 10 months for carrying out the proposed work and submission of report as per Annexure – 19A & 19B. The project will be reviewed after 4th and 8th months.

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Annexure 19A

**Preliminary (G3) Exploration for Bauxite/Aluminous Laterite mineralization in Byndoor Block, Udupi District, Karnataka
Area 1.3962 sq. km, No. of BH: 18, Average borehole depth range- 20 m, Schedule timeline- 10 months, Review: After 4th & 8th months**

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2025		Estimated Cost of the Proposal		Remarks
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	
A	Geological Work						
	a. Geological mapping with contouring on 1:4000 scale	Sq.Km	1.1	18,300	1.396	25,550	
	c. Geologist Field days	day	1.2.1a	14,500	60	8,70,000	
	d. Labours Charges; Base rate (2 labours/party)	day	5.8	556	120	66,720	
	e. Geologist days at HQ	day	1.2.1a	10,500	30	3,15,000	
	f. Charges for one Sampler per day (1 Party)	one sampler per day	1.2.1b	7,850	51	4,00,350	
	g. Labour for sampling (4 Nos)	day	5.8	556	204	1,13,424	
	Sub Total-A					17,91,044	
B	Survey work						
	Charges for one surveyor per day (topographic survey 1:4000 Scale)	day	1.3.1	10,500	20	2,10,000	
	Labour (4 Nos.) per party	day	5.8	556	80	44,480	

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	Demarcation of block boundary, Fixation of Borehole and determination of co-ordinates & Reduced Level (RL) of the borehole by DGPS	Per Point of observation	1.3.2	24,000	29	6,96,000	18BH + 11 Cardinal points
	Sub Total-B					9,50,480	
C	DRILLING (after review) (In House)						
	Miscellaneous Charges (Transportation Drilling Rig, Accommodation for Drill Camp, Camp setting and winding)	lumpsum	2.2.9	For Drilling upto 50 Lakhs: 25% of the Drilling Cost		495000	
	Core Drilling (18 BH)	m	2.2.1.1a	5500	360	19,80,000	
	Drill Core preservation	m	5.3	1590	300	4,77,000	1 complete BH + Remaining mineralised zone
	Sub Total-D					29,52,000	
D	Laboratory Studies (outsource)						
1	Chemical Analysis						
	BRS Samples analysis WD XRF (oxides+ traces - 24 elements)	Nos.	4.1.17a	4200	60	2,52,000	
	Drill core samples analysis WD XRF (oxides+ traces -24 elements)	Nos	4.1.17a	4200	300	12,60,000	
	External check samples analysis WD XRF (oxides+ traces -24 elements)	Nos	4.1.17a	4200	36	1,51,200	
2	Physical, Petrological & Mineralogical studies						
	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace elements (U, Ta, Ge, Be, Hf, Sn, As, Rb, Th) by ICP-Ms (Sequential Technique)	Nos.	4.1.15	7400	50	3,70,000	
	2 addl. Trace samples V and Ga		4.1.17 b	421	100	42,100	
	Preparation of polished thin section	Nos.	4.3.1	800	10	8,000	

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	Study of thin section	Nos.	4.3.4	2800	10	28,000	
	Bulk density determination	Nos.	4.8.3	2500	5	12,500	
	Sub Total-E					21,23,800	
E	TOTAL A to D					78,17,324	
F	Preparation of Exploration Proposal	soft copy	5.1	2% of approved project cost or 5 lakh whichever is lower		1,56,346	
G	Geological Report Preparation	soft copy	5.2	Total cost of the project exceeding Rs. 50 lakh but less than 150 lakh		2,50,000	
H	Peer review	Per review	--	As per EC decision	--	30,000	
J	Total Estimated Cost without GST					82,53,671	
K	Provision for GST (18%)					14,85,661	
L	Total Estimated Cost with GST					97,39,332	
	or Say Rs. In Lakhs					97.39	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 6 of NMEDT SoC. In case of execution of the project by NEA/NPEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.						

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Annexure 19B

Time Schedule for Preliminary (G3) Exploration for Bauxite/Aluminous Laterite mineralization in Byndoor Block, Udupi District, Karnataka

S. No.			1	2	3	4		5	6	7	8		9	10
1	Camp Setting	Months/Days												
2	Geological Mapping & Sampling	days												
3	Survey Party days	days												
4	Surface Drilling (1 rig)	m												
5	Geologist Man days	days												
6	Sampler Man days	days												
7	Camp Winding	months												
8	Laboratory Studies	Nos.												
9	Report Writing	months												

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Agenda 102.3.24. Reconnaissance Survey (G4) for Rare Metals in and around Mundwal-Puspal- Marjum areas, Sukhma, Baster and Dakshin Baster Dantewada Districts, Chhattisgarh
[Implementing Agency: M/s Siddharth Geo Consultant]

- a. The agency informed that the project was approved in the 7th PSC Meeting held on 27.03.2026. The sanction order was issued on 15.04.2026 with timeline of 12 months (up to 14.04.2027) and approved cost was INR 2,84,92,897/-.
- b. The agency has come for the 1st scheduled review of the project.
- c. The agency has completed compilation of previous geological data, catchment-area delineation and prioritisation for stream-sediment sampling, LISS data processing for delineation of alteration zones indicative of concealed pegmatite bodies, and vegetation suppression to identify secondary deposit zones for heavy-mineral sampling.
- d. The agency further informed that forest permission requests were submitted to the respective DFOs on 19.04.2026, camp establishment was completed on 21.05.2026, and forest permission was received on 25.05.2026. Field orientation survey and ground-truthing were initiated; however, the agency was directed to stop the work on 04.06.2026 due to local agitation.
- e. The agency informed the Committee that the exploration work could not be carried out due to intense local agitation in the area.
- f. The committee opined that the agency may take up the matter in the upcoming SGPB meeting and coordinate with local administration to resolve the issue.
- g. The agency to present deliberation in the next TCC meeting.

Recommendations of TCC-1:

The Committee advised the agency to take up the matter in the upcoming SGPB meeting and coordinate with the local administration for resolution of the issue. The agency was further directed to present the outcome of the deliberations in the next TCC meeting.

Agenda 102.3.25. Preliminary Exploration (G3) for Nickel, Chromium & Rare Metals in Vemula Block, YSR (Kadapa) District, Andhra Pradesh
[Implementing Agency: M/s Mining Tech Consultancy Services Limited]

- a. MTCS Ltd. informed that the project was approved in the 42nd EC Meeting held on 2nd June, 2025. The Sanction Order was issued on 1st July, 2025 with timeline of 12 months (up to 30.06.2026) and approved cost was INR 4,80,32,955/-.
- b. Time line of project was extended upto 31.08.2026 by PSC in its 9th meeting.
- c. The agency presented the progress of work and apprised the committee that overall physical progress is 60–70%, with geological, geophysical and topographical surveys and bedrock sampling completed, while analytical studies are 45–80% complete. Trenching, trench sampling and IP-resistivity surveys are progressing below target, and Phase-II core drilling (1,250 m) with associated sampling/analysis is yet to commence.
- d. Geological mapping over 3.80 sq. km identified gabbro, peridotite, siliceous dolomite and stromatolitic limestone/marble with NW–SE trending foliation/bedding and E–W joints; anomalous geochemical values were recorded in melanocratic olivine gabbro (MOG).
- e. Four trenches totalling 50 cu.m (33% of target) have been excavated at locations selected through integrated geological, geochemical, magnetic, gravity and IP data,

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targeting high magnetic and gravity anomalies associated with ultramafic melanocratic gabbro.

- f. Geochemical results indicate significant Ni and Cr enrichment, with 44 of 100 samples recording Ni values of 1,000–1,500 ppm and 68 of 100 samples recording Cr values >2,000–3,000 ppm, highlighting strong Cr enrichment across the block.
- g. Integrated magnetic, gravity and IP surveys delineated NW–SE trending anomalies associated with probable ultramafic/high-density bodies; IP responses coinciding with geochemical anomalies were used to prioritise potential mineralised/altered zones for trenching.
- h. The agency further apprised the committee that FC has not been received till date yet and IP Survey is also halted due to heavy rainfall.
- i. The committee reviewed the progress of work and agreed for extension of timeline.

Recommendations of TCC-1:

The committee recommended timeline extension upto 28.02.2027 for approval of PSC, NMEDT. Timeline extension is recommended for completion of work and submission of GR.

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Annexure-20

**List of participants who attended the 102nd Meeting of Technical-cum-cost Committee
(TCC-I) of NMEDT held on 11th to 13th August 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.	Dr. S. K. Kulshrestha	DDG-RMH-III, NER, GSI, Shillong	s.kulshrestha@gsi.gov.in	9413330658	Member TCC-1
5.	Shri A. R. Mukundhan	Regional Director, AMD, South Central Region	mukuagaram@rediffmail.com	6303606347	Member TCC-1
6.	Dr. E.V.S.S.K. Babu	Scientist (G), NGRI	evsskbabu@ngri.res.in	9441535852	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.	Representatives from MECL				
11.	Representatives from CGM Gujarat				
12.	Representatives from DMR Meghalaya				
13.	Representatives from DMG Rajasthan				
14.	Representatives from DGM Jharkhand				
15.	Representatives from OMC				
16.	Representatives from Siddharth Geo Consultant				
17.	Representatives from M/s Vibrant Techno Lab Pvt Ltd.				
18.	Representatives from M/s S & S Geological Consultants				
19.	Representatives from M/s Geo Marine Solutions Pvt Ltd.				
20.	Representatives from M/s Ecomen Mining Pvt. Ltd.				
21.	Representatives from M/s GeoExpOre Pvt Ltd.				
22.	Representatives from M/s Envirogreen Consultants (India) Pvt. Ltd.				
23.	Representatives from M/s South West Pinnacle Exploration Ltd.				
24.	Representatives from M/s Mining Tech Consultancy Services				
25.	Representatives from M/s Hindmetal Exploration Services Pvt Ltd.				
26.	Representatives from M/s BMRC Geomining Solutions Pvt Ltd				
27.	Representatives from M/s Critical Mineral Trackers				
28.	Representatives from M/s Shijay Projects India Pvt Ltd.				
29.	Representatives from M/s MMPL Pvt. Ltd.				
30.	Ms. Bishakha	Sr. Geologist	sr.geologist1-nmet@gov.in	8126541605	NMEDT
31.	Smt. Palak Kapoor	Sr. Geologist	nmet-mines@gov.in	8851742488	NMEDT

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