

Ministry of Mines
National Mineral Exploration and Development Trust
Minutes of the 98th Technical-cum-Cost Committee-1 (TCC-1) Meeting
held on 10th & 11th June 2026 through video conferencing

The 98th 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 10th & 11th June 2026. Members of TCC-1, NMEDT and representatives from DGM Chhattisgarh, DGM Maharashtra, CGM Gujarat, DMG Jharkhand, DMG Odisha, DGM MP, DGM Jharkhand, GSI, PRB InfraProjects Pvt. Ltd., MECL, M/s. MMPL Private Limited, Geovale Services Pvt. Ltd., M/s. Kartikay Exploration and Mining Services Pvt. Ltd., M/s. Indian Mine Planners & Consultants, Critical Mineral Trackers, M/s. Geo Marine Solutions Pvt. Ltd., Gems Project Pvt. Ltd., M/s Eartnenviro Lab Pvt. Ltd., Mining Associates Pvt. Ltd., M/s Gemcokati Exploration Pvt. Ltd., M/s Unised Research Consultants Private Ltd., M/s S & S Geological Consultants, M/s Deepsar Mineral Explorer, M/s GMMCO Technology Services Ltd., M/s Geo Exploration and Mining Solution, M/s United Exploration India Pvt. Ltd., Ocean Drilling Pvt. Ltd., M/s Vibrant Techno Lab Private Ltd. have attended the meeting through their respective VC modes.

The list of participants is enclosed in Annexure-16.

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 98.1: Technical evaluation of new project proposals

**Agenda 98.1.1. Preliminary Exploration (G3) for Bauxite in Garjanbija block,
Pushprajgarh Taluka, Anuppur District, Madhya Pradesh.
(Proposal ID: ME/IND/G3/MP/P/26-27/012).**

[Implementing Agency: M/s PRB Infraprojects Pvt. Ltd.]

- a. The proposed block in Toposheet No. 64F/05 is underlain by Deccan Trap basalts and intertrappean beds of the Amarkantak Formation, with widespread development of aluminous laterite and bauxite.
- b. Bauxite occurrences in the Amarkantak Plateau have been known since the late 19th century, with investigations by Hira Lal, Fermor, Fox, and Sinor establishing the geological setting and economic significance of the deposits.
- c. Previous exploration in Mandla, Dindori, Bilaspur, Rajnandgaon, Hazari Dadar and adjoining areas through mapping, pitting, trenching, and drilling has established


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- significant bauxite potential, with delineated resources ranging from a few million tonnes to over 173 million tonnes and Al₂O₃ content averaging up to 48.5%.
- d. Recent G4-stage investigations in the Tulra–Mediyaras–Benibari (FS: 2020–21) and Lamsarai–Kohka–Bicharpur (FS: 2022–23) areas identified substantial bauxite and aluminous laterite mineralization, including 3.72 million tonnes of inferred bauxite resources, 96.02 million tonnes of aluminous laterite, and several new bauxite-bearing zones in Anuppur District.
 - e. Analytical results indicate favourable bauxite mineralization (Al₂O₃ up to 43.47%) along with anomalous concentrations of critical minerals, including Vanadium (up to 1703 ppm), Gallium (up to 89 ppm), Lithium (up to 24 ppm), and TiO₂ (up to 9.67%).
 - f. Based on encouraging results from previous investigations, the agency proposed Preliminary Exploration (G3 Stage) to establish in-situ resources of bauxite and aluminous laterite in the area.
 - g. The project was earlier reviewed in the 95th TCC-I meeting, wherein the Committee accorded in-principle approval subject to comments from DGM, Madhya Pradesh. Subsequently, DGM, MP confirmed that there is no overlap with any previous or ongoing exploration project; however, one minor mineral lease for ochre covering 8.093 hectares falls within the proposed area.
 - h. The Committee reviewed the proposal and advised the agency to exclude the 8.093 ha ochre lease area from the proposed block. It further recommended adopting an initial drilling grid of 800 m × 800 m, with infill drilling at 400 m × 400 m to be undertaken only in the identified bauxite-bearing zones after completion of detailed mapping.
 - i. The Committee also permitted 12 additional boreholes for the infill drilling programme. Accordingly, the agency revised the block boundary, borehole locations, and drilling quantum.
 - j. It is observed that nearly 60% of the proposed area falls in forest (Recorded Forest Area as per PM Gatishakti portal).

Sl. No.	Agency	Brief Comments
1	GSI	The area fully overlaps with a previously explored G4 block. The results indicate potential bauxite mineralization, and considering the extent of laterite/bauxite cover, ridge elevations, and estimated ore-zone thickness, the area merits 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	There is one minor mineral (Ochre) concession area present in the 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) for Aluminous Laterite, Bauxite and Associated Critical minerals in Garjanbhija Block (14.0 Sq. km.) Pushprajgarh Taluka, Anuppur District, Madhya Pradesh” for approval of PSC, NMEDT with an estimated cost of Rs. 153.66 lakhs (including GST)

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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 4 and 8 months.


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Annexure 1A

Preliminary Exploration (G3) for Aluminous Laterite, Bauxite and Associated Critical minerals in Garjanbhija Block (14.0 Sq. km.)
Pushprajgarh Taluka, Anuppur District, Madhya Pradesh
(BH- 34 nos, Total drilling meterage: 535; Depth Range: 15-20 m)
Timeline: 10 months Review after 4 and 8 months

Item	Item of Work	Item	SOP Sr No & Rates		Estimated Cost		Remarks
Sr No.	Item	Unit	Sr.No.	Rates	Qty.	Amount(Rs)	
1st Phase: Mapping and Surface Sampling							
A	Survey work						
a	DGPS Survey BH fixation and RL determination (34 BHP& 19 BP)	Per Point	1.3.2	24,000	53	1272000	
b	Topographic Survey with 2m contour interval & Geological Mapping 1:4000 scale						
i	A) Charges of 1 Surveyor for Geological mapping & Topographic survey	per day	1.3.1	10,500	40	420000	
ii	B) 4 Labors for survey work;	day	5.8	556	160	88960	
Sub Total- A						1780960	
B	GEOLOGICALWORK (Mapping 1:4000 scale)						
i	Detailed mapping 1:4000 scale with contouring	Per sq. km	1.1	18300	14	256200	
ii	Charges for one Geologist-Field	day	1.2.1a	14,500	90	1305000	
iii	Charges for one Geologist per-HQ	day	1.2.1a	10,500	30	315000	
iv	2 labours / party	day	5.8	556	180	100080	
v	Sampling-1 Samplers	day	1.5.2	7,850	62	486700	
vi	Sampling 4 labours/party	day	5.8	556	248	137888	
Sub Total- B						2600868	
C	LABORATORY STUDIES						
a	Chemical Analysis						
i	A. Chemical Analysis; Primary Core samples for 6 radicals i.e. CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ and LOI (per borehole 10 sample)	Nos	4.1.17a	4,200	340	1428000	

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ii	B. Chemical Analysis;Primary(Surface) samples for 6 radicals i.e. CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ and LOI (BRS/Channel sample)	Nos	4.1.17a	4,200	60	252000	
iii	C. External Check sample for analysis of 6 radicals i.e. CaO, MgO, Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ and LOI (BRS and Core)	Nos	4.1.17a	4,200	40	168000	
iv	Determination of Trihydrate Alumina (THA-140°C)	Nos	4.1.19b	5,000	5	25000	
v	Determination of Monohydrate Alumina (THA-240°C)	Nos	4.1.19c	5,000	5	25000	
vi	Determination of Reactive Silica	Nos	4.1.19d	5,000	5	25000	
vii	Determination of bond work index	Nos	4.1.19e	15,000	1	15000	
b	Physical, Petrological, Mineralogical Studies						
i	XRD studies for identification of minerals (Random)	Nos	4.5.2	4000	5	20000	
ii	ICP-OES/ICP-MS(sequential technique) Sample packagee for 14 REE elements + 9 trace element (U, Ta, Ge, Be, Hf, Sn, As, Rb, Th) (per borehole 5 sample)	Nos	4.1.15	7400	50	370000	
iii	External Check sample for analysis ICP-OES/ICP-MS(sequential technique)	Nos	4.1.15	7400	5	37000	
iv	Preparation of standard thin section of rock	Nos.	4.3.1	500	5	2500	
v	Complete Petrographic / ore microscopic study / minerographic report of rock sample (along with 5Nos. Digital photo micrographs	Nos	4.3.4	2800	5	14000	
c	Geotechnical Laboratory						
i	Bulk Density Determinations	Nos	4.8.3	2500	5	12500	
						Sub Total- C	2394000
D	DRILLING (In house						
i	Core Drilling (BH 35 Nos) x Each 15 Mtr depth =Total 525 Mtrs (25m for deeper BH)	m	2.2.1.1c	5,500	535	2942500	
ii	Land/Crop Compensation (As Per Requirement)	Per BH	5.6	30,000	34	1020000	As per actuals, with 30000 being maximum ceiling
iii	Construction of concrete Pillar (34 BHP + 19 BP)	Per BH	2.2.7	2,000	53	106000	

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iv	Borehole plugging by cement	Lumpsum per borehole	2.2.8	10,000	34	340000		
v	Miscellaneous Charges (Transportation of Drilling Rig, Accommodation for Drill Camp, Camp Setting and winding, construction of Approach road	Lumpsum	2.2.9	-	-	735625		
vi	Core Preservation.	m	5.3	1,590	360	572400	1 complete BH + Mineralised Zone	
Sub Total- D						5716525		
Total A to D						12492353		
E	Geological Report Preparation (A minimum of Rs. 2.5 lakhs	1No.	5.2			250000		
F	Peer review Charges	1No.		30000		30000		
G	Preparation of Exploration Proposal (2% of the Cost or Rs.5 Lakhs whichever is lower)	1No.	5.1			249847.06		
H	Total Estimated Cost without GST						13022200.06	
I	Provision for GST (18%)						2343996.011	
J	Total Estimated Cost with GST						15366196.07	
						153.66	(in Lakh)	
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 1B

Time Schedule/ Action Plan for Preliminary Exploration (G3) for Aluminous Laterite, Bauxite and Associated Critical minerals in Garjanbhija Block (14.0 Sq. km.) Pushprajgarh Taluka, Anuppur District, Madhya Pradesh

Item of Work	1	2	3	4	Review	5	6	7	8	Review	9	10		
Pre field preparation / Camp Setting														
Geological Mapping (1:4000) and Sampling														
Topographic survey														
Drilling														
Laboratory Studies														
Interpretation of analytical data, finalization of lithologs, plates														
Review & report preparation / Peer review														
Final submission														

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**Agenda 98.1.2. Preliminary Exploration (G3) for Iron ore in Bhanu block,
Kanker District, Chhattisgarh
(Proposal ID: ME/DD/G3/CT/26-27/048)
[Implementing Agency: Kartikay Exploration and Mining Services Pvt. Ltd.]**

- a. The proposed block in Toposheet No. 64H/3 comprises amphibolites, metapelites, banded quartzite, BIF (mainly BMQ with iron ore bands), and metabasic rocks of the Bailadila Group, intruded by younger dolerite dykes, quartz-aplite veins, and basic to acidic intrusive bodies.
- b. Previous investigations, including systematic geological mapping (FS: 1980–82) and second-generation mapping (FS: 1989–90), reported primary gold mineralization within a sheared rhyolite zone west of Gurwandi village.
- c. Gold mineralization associated with pyrite, pyrrhotite, and arsenopyrite has been delineated along the rhyolite–rhyolitic tuff contact, with assays ranging from <0.10 to 1.23 g/t Au over an 18 m wide zone.
- d. Reconnaissance Survey (G4 Stage) carried out by GSI in the Parvi area during FS: 2008–09 delineated a BMQ horizon associated with a massive specularite–magnetite band in the north-western part of the area.
- e. Reconnaissance Survey in the Parvi area delineated NNW–SSE trending BMQ and iron ore bands associated with quartz-mica schist, micaceous quartzite, and gneisses, with discontinuous iron ore bodies extending over a cumulative length of about 750 m and assaying 58.83–66.01% Fe.
- f. Based on the encouraging results of earlier investigations, the area was recommended for detailed mapping, pitting/trenching, and drilling; accordingly, the agency proposed G3-stage exploration comprising detailed geological mapping (1:4000 scale), bedrock geochemical sampling, pitting/trenching, and exploratory drilling for resource estimation under the UNFC G3 category.
- g. The project earlier reviewed in 92nd TCC-1 meeting and the committee observed that the proposed block is prepared by combining the geological maps at two different scales. (1: 50K and 1: 25K) and hence the NW part of the block lacks geological clarity. The agency complied with the suggestion.
- h. The Committee was also advised to undertake a field visit and collect systematic channel samples from the GSI G4 exploration area and its north-western extension.
- i. Pursuant to the Committee's recommendation, the agency carried out field investigations and collected six samples from the identified iron ore bands; analytical results yielded Fe values ranging from 27.41% to 38.32%.
- j. The Committee reviewed the proposal and advised the agency to undertake detailed mapping at 1:2,000 scale and plan boreholes at 200 m intervals along the entire iron ore band.
- k. The first level of drilling shall target a vertical depth of 30 m, with selected second-level boreholes extending to 60 m vertical depth based on the results of the initial intersections.
- l. It is observed that nearly 30% of the proposed area falls in forest (Recorded Forest Area as per PM Gatishakti portal).

Sl. No.	Agency	Brief Comments
1	GSI	No overlapping found in the proposed Block with GSI previous works.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.

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3	AMD	AMD has carried out G4-stage uranium exploration in and around the proposed block, with analytical results of up to 0.02% U ₃ O ₈ and 0.32% ThO ₂ . Considering the known uranium potential of the area, uranium may be included in the analytical suite. Any boreholes drilled during exploration should be intimated to AMD for gamma-ray logging.
4	State DMG/DGM/CGM	DGM, Chhattisgarh informed during the meeting that there is no overlapping with their explored or ongoing blocks.
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) for Iron ore in Bhanu block, District- Uttar Bastar Kanker, Chhattisgarh” for approval of PSC, NMEDT with an estimated cost of Rs. 211.32 lakhs (including GST) with a timeline of 12 months for carrying out the proposed work and submission of report as per Annexure – 2A & 2B. The item will be reviewed after 3, 6 and 9 months.

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Annexure 2A

Preliminary Exploration (G3) for Iron ore in Bhanu block, District- Uttar Bastar Kanker, Chhattisgarh
Block area-3.30 sq.km; Total Borehole:9 Nos (7 nos. 1st level, 30 m; 2 nos. 2nd level, 60m, Total drilling meterage: 700m 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			Remarks
			SoC-Item-SI No.	Rates as per SoC	Proposal			
					Qty.	Additional cost	Amount (Rs)	
A	GEOLOGICALWORK (1:2000) (including mapping and contouring)	Per Sq km	1.1	18300	3.3	1	60390	
i	Charges for One Geologist for Field	Per day	1.2.1a	14,500	120	1	1,740,000	
ii	Charges for one Geologist per-HQ	Per day	1.2.1a	10,500	30	1	315,000	
iii	2 Labours/ Party	day	5.8	556	240	1	133,440	
iv	Sampling party days-1 Sampler (Labour charge not included)	Day	1.2.1b	7850	56	1	439,600	
v	4 labours/Party (sampling)	day	5.8	556	224	1	124,544	
vi	Charges for 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 & RL of the boreholes with total stations etc.	Charges for one surveyor per day	1.3.1	10500	40	1	420,000	
	4 labours/Party (survey)	day	5.8	556	160	1	88,960	

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		SubTotal-A						3,321,934.00	
B	Pitting/ Trenching								
i	Trenching	Cu m	2.1.1	4125	60	1	247,500	Depth 1m	
	Sub total-B						247,500		
C	DRILLING (In House)								
i	Drilling upto 300m (Very hard Rock)(2 rigs) HQ Size	m	2.2.1.1e	12,650	700	1	8,855,000		
ii	Construction of concrete Pillar (12"x12"x30")	Per borehole	2.2.7	2,000	9	1	18,000		
iii	Borehole plugging by cemrnt	per BH	2.2.8	10,000	9	1	90,000		
iv	Approach Road Making (Hilly)	Lumpsum	2.2.9			1	1500000		
v	Miscellaneous Charges (Transportation of drilling rig, Accommodation for Drill camp, camp setting and winding, construction of approach road)								
	Demarcation of lease boundary, fixation of borehole and determination of coordinates & RL of the boreholes by DGPS	Per BH	1.3.2	24000	14	1	336,000	9 Borehole+ 5 Boundary corner points	
	Core preservation	Per m	5.3	1590	300		477,000		
	Sub total-C						11,276,000		
D	LABORATORY STUDIES								
	Chemical analysis								
	(Surface samples+Core samples+ Check samples)								
1	a) Primary samples: Major oxides (WD XRF)- (Oxides+trace-24 elements)	Per sample	4.1.17a	4200	400	1	1,680,000	300 Samples from borehole and 60 from trench samples, 40	

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								from BRS (all channel samples)	
2	b) Check samples Major oxides (10%)	Per sample	4.1.17a	4200	40	1	168,000		
3	c) Analysis for Au & Ag by Fire assay	Nos	4.1.5a	3500	10	1	35,000		
4	d) Check sample Analysis for Au & Ag by Fire assay	Nos	4.1.5a	3500	1	1	3,500		
5	Preparation of thin section	Nos	4.3.1	500	0	1	0		
	Preparation of polished thin section of rock/wafer	Nos	4.3.2	800	10	1	8,000		
	Complete petrographic/ ore microscopic study/ minerographic report of rock sample (along with 5 no's digital photo micrographs)	Nos	4.3.4	2800	10	1	28,000		
	XRD analysis for identification of minerals	Nos	4.5.1	4000	5	1	20,000		
	Bulk density Determination	Nos	4.8.3	2500	2	1	5,000		
	Subtotal-D							1,947,500	
	Total of A to D							16,792,934	
	Geological Report Preparation	soft copies	5.2 (iii)	Total cost exceeding Rs. 50 lakh but less than 150 lakh Rs. 2.5 lakh		1	750,000	Reimbursement will be made after submission of the final Geological Report in soft copy to NMEDT.	
	Peer review Charges						30,000		
	Preparation of Exploration Proposal (soft copy)		5.1	2% of approved project cost or 5 lakh whichever is lower			335,859		
	Total Estimated Cost without GST							17,908,792.68	
	Provision for GST (18%ofI)							3,223,582.68	GST will be reimburse as per actual and as

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			per Notified prescribed rate
	Total Estimated Cost with GST	21,132,375.36	
			Or Say Rs. In Lakhs 211.32
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 (G3) for Iron ore in Bhanu block, District- Uttar Bastar Kanker, Chhattisgarh

S.No.	Description	1	2	3		4	5	6		7	8	9		10	11	12			
1	Camp Setting				Review				Review				Review						
2	Geological mapping																		
3	Topographical Surveying																		
4	Trenching and Preparation of Geological plan																		
5	Drilling																		
6	Sampling																		
7	Laboratory Studies																		
8	Report Writing with Review																		

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**Agenda 98.1.3. Preliminary Exploration (G3) for REE, RM and associated mineralization in Harmalpura Block, Tehsil- Siwana, District - Balotra, Rajasthan
(Proposal ID: ME/DD/G3/RJ/26-27/024)**

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

- 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	Based on positive values of REE & Rm in the area, proposed block may be prospective for REE and associated minerals.
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, however, AMD is carrying out G3 stage of exploration in Rebariyon ki Dhani Block which is 500m west of the proposed block.
4	State DMG/DGM/CGM	Consent for exploration for this proposal is given for area excluding 14 existing minor mineral mining leases area, Reserved and Exploration Blocks of Atomic Mineral, REE. NPEA is advised to obtain necessary clearances/permissions from Forest department, Government of Rajasthan.
5	NMEDT	Two Mining leases of Minor Minerals are present in the proposed block. The proposed block do not overlap with NMEDT funded projects,

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 98.1.4. Preliminary Exploration (G3) for REE, RM and associated mineralization in Singal Ki Pahari Block, South-West of Indrana Village, Tehsil- Siwana, District - Balotra, Rajasthan
(Proposal ID: ME/DD/G3/RJ/26-27/025)**

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

- 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

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- 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	Based on the analytical results of samples collected by GSI, most of the TREE values are within the range of 815.08 to 2425.41 ppm, with only a few samples having TREE values above 2000 ppm (n=3), indicating moderate REE mineralization potential in the 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, however, AMD is carrying out G3 stage of exploration in Buriwara Block which is 1.5Km west of the proposed block.
4	State DMG/DGM/CGM	Consent for exploration for this proposal is given for an area excluding held 06 minor mineral mining leases.
5	NMEDT	Several Mining leases of Minor Minerals are present in the proposed block. The proposed block do not overlap with NMEDT funded projects.

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 98.1.5. Preliminary Exploration (G3) for Graphite in Panjabali-Sarigibari Block, District-Rayagada, Odisha (Proposal ID: ME/DD/G3/OD/26-27/047)

[Implementing Agency: M/s My World Consultancy Services Pvt. Ltd.]

- The proposed block falls within Toposheet No. 65M/09 and is underlain by high-grade metamorphic rocks of the Eastern Ghats Mobile Belt (EGMB), comprising khondalites, charnockites, granite gneisses, pegmatites, and quartz veins.
- Previous geological investigations, including systematic mapping carried out between FS: 1940–41 and 1975–76, and subsequent 1:50000 scale mapping during FS: 1987–88, reported graphite occurrences in khondalites, granite gneisses, pegmatites, and quartz veins, with economically significant graphite mineralization primarily associated with migmatized khondalites.
- The proposed Panjabali–Sarigibari block lies within the Tumudibandh Graphite Belt, one of India's most significant graphite-bearing belts, where graphite occurrences have been reported in khondalites, granite gneisses, pegmatites, and quartz veins.
- Previous G4-stage investigations by the Directorate of Geology, Odisha identified high-grade flaky graphite mineralization at Karlangi, Garang, Goibali, and

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- Mundimaska, and recommended detailed exploration of these areas and adjoining blocks to evaluate subsurface graphite potential.
- e. Based on the encouraging graphite occurrences reported in the area, the agency proposed G3-stage exploration comprising detailed geological mapping (1:2000 scale), geochemical sampling, pitting/trenching, ground geophysical surveys, and exploratory drilling for resource estimation under the UNFC G3 category.
 - f. Preliminary sampling by the agency yielded Fixed Carbon (FC) values ranging from 3.63% to 6.74%, indicating the presence of graphite mineralization in the proposed block.
 - g. The Committee reviewed the proposal and recommended a phased approach for G3-stage exploration, with Phase-I comprising detailed mapping, surface sampling, and pitting/trenching, followed by Phase-II (SP surveys) and Phase-III (systematic drilling) based on the outcome of Phase-I investigations.
 - h. It is observed that nearly 50% of the proposed area falls in forest (Recorded Forest Area as per PM Gatishakti portal).

Sl. No.	Agency	Brief Comments
1	GSI	No exploration by GSI is currently underway in the proposed block. However, a G4-stage reconnaissance survey for graphite is being carried out in the adjoining Birli–Tempapadar Block during FS 2026–27. Considering the favorable indications, the proposed block may be taken up for G3-stage graphite 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	DoMG has conducted G4-stage exploration in the proposed area and reported graphite occurrences with FC values of 7–15%. However, the current proposal does not fully incorporate these results. The block may be upgraded to G3 stage with a suitably modified exploration scheme.
5	NMEDT	The proposed block share its boundary with NMEDT funded RMT project and some portion of the region fall in Recorded Forest Area.

Recommendations of TCC-1:

The committee recommended the proposal titled “Preliminary exploration (G3 Stage) for Graphite in Panjabali-Sarigibari Block, District- Rayagada, Odisha” for approval of PSC, NMEDT with an estimated cost of Rs. 209.41 lakhs (including GST) with a timeline of 12 months for carrying out the proposed work and submission of report as per Annexure – 3A & 3B. The item will be reviewed after 3, 6 and 9 months.

Preliminary exploration (G3 Stage) for Graphite in Panjabali-Sarigibari Block, District- Rayagada, Odisha

Area-4.85 sq. km, No. of BH:- 10 nos.

Borehole depth range: 60- 100m; Total Drilling meterage: 800 m

[Schedule timeline : 12 months; Review: After 3, 6 and 9 Months]

1st Phase: Mapping and surface sampling, 2nd Phase: Geophysical Study, 3rd phase: Drilling

S. No.	Item of Work *	Unit *	Rates as per Revised SoC dated 15-12-2025		Estimated Cost of the Proposal		Remarks
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	
A	Geological Mapping & Other Geological Work						
a.	Geological mapping, (1:2000 scale) with contouring & Trenching , drilling work	sq. km.	1.1	18,300	4.85	88,755	
b.	Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	per day	1.2.1a	14,500	120	1,740,000	
c.	Charges for Geologist per day (HQ)	per day	1.2.1a	10,500	30	315,000	
d.	Labours Charges; Base rate	Per day	5.8	556	240	133,440	
e.	Charges for one Sampler per day (1 Party)	Per day	1.2.1b	7,850	45	353,250	
f.	Labours (4 Nos)	Per day	5.8	556	180	100,080	
	Sub Total- A					2,730,525	
B	Ground Geophysical Survey						
a.	S.P. Survey	8-20 Line Km in hilly region	3.3a	62,140	15	932,100	In House
b.	Geophysicist party days (Field)	per day	3.18	4,500	-	-	

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c.	Surveyor	per day	1.3.1	10,500	-	-	
d	Geophysicist party days (HQ)	per day	3.18	10,500	-	-	
	Sub Total- B					932,100	
C	Survey work						
a.	Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS	Per Point of observation	1.3.2	24,000	14	336,000	4 cardinal points + 10 BH points
b.	Drone Topographic survey using Lidar	sq. km.	7.b	70,000	4.85	339,500	
	Sub-Total C					675,500	
D	Mineral Investigation						
2.1	Trenching/Pitting						
a.	Excavation of Trenches upto 2.0 m depth with back filling	per cu.m	2.1.1	4,125	50	206250	
b.	Excavation of Pit up to 2.0 m depth with backfilling	per cu.m	2.1.2	4,725	50	236250	
2.2	Drilling up to 300m (Hard Rock) (In House)						
a.	Drilling up to 300m (Hard Rock)	per m	2.2.1.1d	10,000	800	8,000,000	
b.	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	30,000	10	300,000	As per actuals, with 30000 being the maximum ceiling
c.	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7	2,000	10	20,000	
d.	Borehole plugging by cement	Lumpsum per borehole	2.2.8	10,000	10	100,000	
e.	Drill Core Preservation	Per m	5.3	1,590	300	477,000	1 complete BH + Mineralised zone

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f.	Miscellaneous Charges (Transportation of Drilling Rig, accommodation for Drilling Camp, Camp Setting and winding, construction of approach road and Drill core preservation	Lumpsum	2.2.9		1	1,500,000	
	Sub Total D					10,839,500	
E	LABORATORY STUDIES						
4.1	Chemical Analysis						
a.	Proximate Analysis of graphite (FC, Ash, M, VM)	Per sample	4.1.18	3,614	300	1,084,200	PTS:100nos.; CS: 150 nos.; BRS (Channel samples): 50 samples
	Check samples Proximate Analysis of graphite (FC, Ash, M, VM)	Per sample	4.1.18	3,614	30	108,420	
b.	Chemical Analysis 14 REE + Trace Elements (Sequential Technique)	Per sample	4.1.15	7,400	20	148,000	
	Check Samples	Per sample	4.1.15	7,400	2	14,800	
	WD- XRF (Major oxides)	Per sample	4.1.17	4,200	10	42,000	Channel samples/BRS
	Check Samples	Per sample	4.1.17	4,200	1	4,200	
4.3	Petrological Studies						
a.	Preparation of polished thin section of rock/ wafer	Per sample	4.3.2	800	10	8,000	
b.	Complete petrographic/ ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo micrographs)	Per sample	4.3.4	2,800	10	28,000	
4.4	EPMA/SEM Lab.						
a.	EPMA studies	Per hour	4.4.1	10,500	-	-	
4.5	Mineral Physics Studies						
a.	Raman Spectroscopy	Per hour	4.5.1	2,700	5	13,500	
b.	XRD analysis for identification of minerals (Random)	Per sample	4.5.2	4,000	-	-	
4.8	Geotechnical Study						

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a.	Bulk density	Per sample	4.8.3	2,500	2	5,000	
	Sub Total E					1,456,120	
	Total A to E					16,633,745	
F	Miscellaneous Charges						
a.	Preparation of Exploration Proposal		5.1	500,000	1	332,675	
b.	Geological Report Preparation	Soft copy	5.2	750,000	1	750,000	Reimbursement will be made after submission of the final Geological Report in the soft copy to NMEDT.
c.	Peer review Charges		As per EC decision			30,000	
	Subtotal F					1,112,675	
G	Total Estimated Cost without GST					17,746,420	
H	Provision for GST (18% of G)					3,194,356	GST will be reimbursed as per actual and as per notified prescribed rate
I	Total Estimated Cost with GST					20,940,775	
					or Say Rs. In Lakhs	209.41	
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 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 (G3 Stage) for Graphite in Panjabali-Sarigibari Block, District- Rayagada, Odisha

Sl. No.	Item of work	1	2	3		4	5	6		7	8	9		10	11	12
1	Camp setting and Geological Mapping (1:2000)															
2	Topographic Survey with Drone & DGPS, demarcation of lease boundary															
3	Excavation of Pit/ trench & Sample collection															
4	Geophysical Survey				REVIEW				REVIEW				REVIEW			
5	Scout Drilling, Collection of core samples & DGPS Survey for BH fixation				REVIEW				REVIEW				REVIEW			
6	Laboratory Studies (Proximate analysis, Major Oxides by WD-XRF, REE & Trace by ICP-MS)				REVIEW				REVIEW				REVIEW			
7	PS, OM & Raman Spectroscopy															
8	Interpretation of analytical data, Finalization of maps, plates, logs etc.															
9	Review and Preperation of the Report															
10	Peer Review and Final Submission of the report															

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**Agenda 98.1.6. Preliminary Exploration (G3) of Bauxite in Lasundra Block,
District: Kheda, Gujarat
(Proposal ID: ME/DD/G3/GJ/25-26/020)**

[Implementing Agency: GEMS Project Pvt. Ltd.]

- a. The proposed block falls within SOI Toposheet No. 46F/1 and comprises Deccan Trap basalt, laterite and bauxite, where bauxite occurs as pocket-type deposits associated with ferruginous/aluminous laterite.
- b. Concretionary limestone directly overlies the trap sequence and varies from a few centimetres to a few metres in thickness, while greenish-grey and yellowish shales of probable Miocene age occur below alluvial cover.
- c. Two varieties of laterite are identified in the area, namely ferruginous laterite enriched in iron and nodular/bouldery laterite comparatively enriched in alumina and associated with bauxite mineralization.
- d. DGM Gujarat carried out investigation for bauxite and associated minerals during FS 1969–70 through geological mapping, aerial photo interpretation, dug well section studies and test drilling.
- e. The investigation identified promising bauxite occurrences at Ratnagar Hill and Amratpura–Kajipura areas along with sub-bentonite clay (shale) occurrences near Mirapura and Mohamadpura, the latter having been auctioned for mining lease.
- f. DGM Gujarat carried out investigation for bauxite in Thasra taluka, Kheda district during FS 1970–71 and demarcated 11 bauxite pockets covering 997,560 sq. m. divided into 24 sub-blocks, with estimated reserves of 0.860 million tonnes including about 0.413 million tonnes of metallurgical grade bauxite.
- g. CGM Gujarat subsequently carried out exploration around Ladvel and Dujevare villages during FS 1998–99 involving pitting, sampling and petrographic studies, wherein chemical analysis indicated metallurgical grade bauxite with Al₂O₃ 52.03%, SiO₂ 3.48%, Fe₂O₃ 6.52% and TiO₂ 8.31%.
- h. The proposal was earlier discussed in the 96th TCC-I meeting, wherein the Committee observed that canals and major highways fall within the proposed block area. As further inputs from CGM, Gujarat were required to finalize the block boundary and area, the proposal was kept on hold.
- i. The Committee reviewed the proposal and, based on discussions with CGM, Gujarat, recommended taking up G3-stage exploration in two modified blocks, namely Lasundra-A (2.21 sq. km) and Lasundra-B (1.10 sq. km), after excluding canals, highways, and the requisite buffer zones. CGM, Gujarat agreed to provide consent for the revised block area.
- j. No Forest area recorded in the area, as per PM Gatishakti portal.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed block has no overlapping with the ongoing or completed blocks of GSI.
2	MECL	The proposed block has no overlapping with the ongoing or completed blocks of MECL.
3	AMD	NA
4	State DMG/DGM/CGM	The block was allotted by CGM, Gujarat to M/s. GEMS Project Pvt. Ltd. during a one-day workshop titled “Gujarat’s Mineral Wealth- A responsible Exploration and Development Paradigm” on 17.08.2024 for G3 stage exploration with an area of 9.54 sq.km.
5	NMEDT	There are no NMEDT funded blocks overlapping with the proposed area, however, area overlaps with the item

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		"Report on the Preliminary mineral investigation in part of Kaira District, Gujarat state".
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Recommendations of TCC-1:

The committee recommended the proposal titled "Preliminary Exploration (G3) of Bauxite in Lasundra Block A (2.21 Sq. Km) and Lasundra Block B (1.1 Sq. Km), District- Kheda, Gujarat" for approval of PSC, NMEDT with an estimated cost of Rs. 113.91 lakhs (including GST) with a timeline of 10 months for carrying out the proposed work and submission of report as per Annexure – 4A & 4B. The item will be reviewed after 3, 6 and 9 months.


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Annexure 4A

**Preliminary Exploration (G3) of Bauxite in Lasundra Block A (2.21 Sq. Km) and Lasundra Block B (1.1 Sq.Km),
District- Kheda , Gujarat**

**Block A : No.of BH: 10 (Depth Range: 25m) , Borehole Total meterage- 250m; Block B: 5 Bhs (Depth 25 m), Meterage : 125 m
Schedule timeline- 10 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 * (a)	Qty. (b)	Total Amount (Rs) (a*b)	
A	Geological Mapping Other Geological Work & Surveying						
	Geological mapping & Contouring on 1:4,000 scale & Trenching , drilling work	Per Sq Km	1.1	18,300	3.31	60,573	
	a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.2. 1a	14,500	100	1,450,000	
	b. Labours Charges; Base rate	day	5.8	556	200	111,200	
	c. Charges for Geologist per day (HQ)	day	1.2.1a	10,500	30	315,000	
	d. Charges for one Sampler per day (1 Party)	day	1.2.1b	7,850	37	290,450	
	e. Labours Charges; Base rate	day	5.8	556	148	82,288	
	Sub Total- A					2,309,511	
B	Survey work						
a	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.3.2	24,000	31	744000	Block A: 8 Block Boundaries& 10Bore Holes, Block B: 8 boundy points and 5 BHs

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b	Charges of Surveyor (1 party)	one surveyor per day	1.3.1	10,500	30	315000	
c	Labours Charges for survey work;	day		556	120	66720	
	Sub-Total B					1,125,720	
C	Trenching/Pitting						
	b) Excavation of Pits	per cu.m	2.1.3	4,725	180	850500	10 PitsX12 Cum each [2x2x3] (Tentative)+ 5 pits (block B)
	Sub-Total C					850500	
D	DRILLING (after review) (In House)						
1	Drilling up to 300m (Soft Rock)	m	2.2.1.1c	5,500	375	2,062,500	
2	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH	5.6	30,000	15	450,000	As per actuals with 30000 being maximum ceiling per BH
3	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7	2,000	31	62,000	Block A: 8 Block Boundaries& 10Bore Holes, Block B: 8 boundry points and 5 BHs
4	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			515,625	25% of Drilling cost.
5	Borehole plugging by cement	lumpsum per borehole	2.2.8	10,000	15	150,000	

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6	Drill core preservation	Per m	5.3	1,590	185	294,150	1 complete BH+mineralised zone= Block A: 125m, Block B : 60m
Sub Total D						3,534,275	
E	LABORATORY STUDIES						
1	Chemical Analysis						
	Pit , BRS & Core Samples						
	Major oxides	Nos	4.1.17a	4,200	255	1,071,000	Block A: Pit:50 ; BRS:20 ; Core:100, Block B: Pit: 25, BRS: 10, Core: 50
ii)	Pit , BRS & Core check Samples						
	Major oxides	Nos	4.1.17a	4,200	26	109,200	
	ICPMS	Nos	4.1.15	7,400	15	111,000	Block A : 10, Block B: 5
2	Physical & Petrological Studies						
i	Preparation of thin section	Nos	4.3.1	500	10	5,000	Block A : 5, Block B: 5
ii	Study of thin section	Nos	4.3.4	2,800	10	28,000	Block A : 5, Block B: 5
viii	Bulk Density	Nos	4.8.3	2,500	4	10,000	Block A : 2, Block B: 2
x	Reactive Silica	Nos	4.1.19d	5,000	7	35,000	Block A : 5, Block B: 2
Sub Total E						1,369,200	
F	Total A to E					9,189,206	
I	Geological Report Preparation	soft copy	5.2	5.2 (ii)		250,000	Reimbursement will be made after submission of the final Geological Report in soft copy to NMEDT.
J	Peer review Charges		As per EC decision			30,000	

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K	Preparation of Exploration Proposal (Soft copy)	soft copy	5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is less		183,784	
L	Total Estimated Cost without GST					9,652,990	
M	Provision for GST (18% of J)					1,737,538.22	GST will be reimburse as per actual and as per notified prescribed rate
N	Total Estimated Cost with GST					11,390,528	
				or Say Rs. In Lakhs		113.91	
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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**Time Schedule/ Action Plan for Preliminary Exploration (G3) of Bauxite in Lasundra Block A (2.21 Sq. Km) and Lasundra Block B (1.1 Sq.Km),
District- Kheda , Gujarat**

Sl. No.	Item of work	Months																
		1	2	3	REVIEW	4	5	6	REVIEW	7	8	8	REVIEW	9	10			
1	Camp Setting/Mobilization					REVIEW					REVIEW					REVIEW		
2	Geologist Days (Field)																	
3	Pitting/Trenching																	
4	Survey Days (01 party)																	
5	Drilling																	
6	Sampling Days																	
7	Laboratory Studies																	
8	Camp winding																	
9	Geologist Days, HQ																	
10	Preparation of Geological report																	
11	Peer review & Report Final Submission																	

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**Agenda 98.1.7. Preliminary Exploration (G3) for Graphite and associated minerals in Chadranga Block, District-Rayagada, Odisha
(Proposal ID: ME/DD/G3/OD/26-27/030)**

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

- a. The proposed block falls within Toposheet Nos. 65M/5 and 65M/6 and is underlain by khondalites, quartzites, granulites, granite gneisses, and migmatites belonging to the Eastern Ghats Supergroup.
- b. Previous reconnaissance surveys carried out by GSI in Koraput and Phulbani districts (FS: 1985–86) reported stratigraphically controlled graphite mineralization within khondalite horizons and graphitic schist bands, with rich graphite zones assaying about 7–10% fixed carbon (FC).
- c. G4-stage exploration carried out by DoMG, Odisha during FS: 1990–91 covered 75 sq. km through systematic geological mapping (1:25,000 scale) in the Bissam-Cuttack area of present-day Rayagada District.
- d. The investigation identified 15 graphite occurrences around Bijabandali, Chhandranga, Pajibali, Asuraparha, Kansari, Sarabali, Sunakhunti, Dhepagurha, and Dembesi, and trial excavations were undertaken to assess their subsurface continuity.
- e. Graphite mineralization occurs as crystalline to flaky disseminations within migmatized khondalites, with fixed carbon values ranging from 29.50% to 30.72%, and the area was recommended for further exploration to upgrade the exploration status of the Maguni graphite occurrence.
- f. Based on encouraging graphite occurrences reported in the area, the agency proposed G3-stage exploration comprising detailed geological mapping (1:2000 scale), geochemical sampling, pitting/trenching, ground geophysical surveys, and exploratory drilling for resource estimation under the UNFC G3 category.
- g. The agency informed that the block forms part of two legacy reports of State DGM/DMG allotted to M/s Earthenviro Lab Pvt. Ltd. during the 3rd Joint TCC-I & II meeting for exploration upgradation.
- h. Preliminary field investigations by the agency included collection of six grab samples from the proposed block, which yielded Fixed Carbon (FC) values ranging from 4.02% to 11.70%, indicating graphite mineralization in the area.
- i. The Committee reviewed the proposal and recommended a phased approach for G3-stage exploration, with Phase-I comprising detailed geological mapping, surface sampling, and pitting/trenching, followed by Phase-II (SP surveys) and Phase-III (systematic drilling). Phase-II and Phase-III activities shall be undertaken based on the outcome of Phase-I investigations.
- j. It is observed that nearly 15 % of the proposed area falls in forest (Recorded Forest Area, as per PM Gatishakti portal).

Sl. No.	Agency	Brief Comments
1	GSI	The work in this area for graphite was exclusively carried out by the DoMG, Odisha during 1990-91. In this regard, opinion of DoMG, Odisha may be sought.
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 ongoing or completed projects of AMD.
4	State DMG/DGM/CGM	There is no overlapping with any ML/CL Block. The Proposed area of exploration need to be revised taking into account all the previously reported occurrences for

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		upgrading to G-3 instead of exploring in small blocks as per suggestion by NPEA in view of Auction.
5	NMEDT	Buffer zone of the proposed block is overlap with the Auctionable G4-GM blocks for the commodity of Manganese. 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) for Graphite in Chadranga Block, District- Raygada, Odisha” for approval of PSC, NMEDT with an estimated cost of Rs. 202.26 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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Preliminary Exploration (G3) for Graphite in Chadranga Block, District- Raygada, Odisha
[Total area-4.4 sq km, Nos. of Boreholes-10; Total Drilling: 700 m (8 BH 1st level 30 m intersection, 2nd level 60 m intersection) Schedule
time line- 12 months; Review after 3, 6 and 9 months]
1st Phase: Mapping & surface Sampling; 2nd Phase: Geophysics; 3rd Phase: Drilling

S. No.	Item of Work	Unit	Rates as per		Estimated		Remarks
			SoC-Item - SI	Rates as per SoC	Qty.	Total Amount (Rs)	
1st Phase							
A	Geological Mapping and contouring on 1:2000 scale, other Geological Work and Topographical Survey	Sq. km	1.1	18300	4.4	80,520	In house
i	Charges for one Geologist - HQ	Man days	1.2.1a	10500	30	315,000	
ii	Charges for two Geologist- Field	Man days	1.2.1a	14500	90	1,305,000	
iii	Labour charge for sample collection, packaging, carrying(2Nos)	Man days	5.8	556	180	100,080	
iv	Charges for one Sampler per day for BRS, Pits, Trenches & BHS sample Preparation	Man days	1.2.1b	7,850	66	518,100	
v	Labour Charges (4 Nos) for sample Preparation Base rate -	Man days	5.8	556	264	146,784	
vi	Topographic Survey/Surveyor	Man days	1.3.1	10500	30	315,000	
viii	Labour for Survey work	Man days	5.8	556	120	66,720	
viii	Demarcation of Block Boundary point by DGPS including Labour deployed for work	Per Point of Observation	1.3.2	24000	14	336,000	10 BH + 4 Cardinal Points
	Sub Total- A					3,183,204	
B	Pitting/Trenching						
ii	Trenching	Cu m	2.1.2	4,125	100	825,000	
	Sub Total B					825,000	

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2nd Phase							
C	Geophysical Survey						
i	Self Potential	Line Km (8-10 km)	3.4b	62140	15	932,100	15 L km
	Sub Total- C					932,100	
3rd Phase							
D	DRILLING (out Source)						
i	Drilling HQ Size (Hard Rock)	per m	2.2.1.4a	10,000	700	7,000,000	
ii	Concrete Pillar Construction	per Bore Hole	2.2.7	2,000	10	40,000	
iii	Borehole plugging by cement (HQ)	Lump sum per Borehole	2.2.8	10,000	10	200,000	
iv	Drill Core Preservation	Per m	5.3	1,590	300	954,000	1 complete BH + Remaining mineralized core
	Sub Total- D					8,194,000	
E	LABORATORY STUDIES(Primary & Check samples)						
1a	Primary samples(Pitting/Trench/BRS/Core)for Proximate Analysis for Graphite(Pr)	No.	4.1.18	3614	450	1626300	BRS-50, TRS-100, BH-300
1b	Proximate Analysis for Graphite(Ch) External check samples from NABL Lab	No.	4.1.18	3614	45	162630	10%
2a	Whole rock analysis (Oxide and trace) by XRF	No.	4.1.17 a	4200	10	42000	
2b	Whole rock analysis(Ch) (Oxide and trace) by XRF	No.	4.1.17 a	4200	1	4200	
3	ICPMS by sequential Technique	No.	4.1.15	7400	20	148000	
4	ICPMS (check samples)	per sample	4.1.15	7400	2	14800	
5	XRD Analysis for identification of Minerals	No.	4.5.2	4000	0	0	
6	Physical & Petrographic studies						

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i	Preparation of polished thin sections	No.	4.3.2	800	10	8000		
ii	Complete Petrographic/Ore Microscopic study/ Mineragraphic Report of Rock Sample	No.	4.3.4	2800	10	28000		
iii	Determination of Bulk Density	Per Sample	4.8.3	2500	2	5000		
iv	Raman Spectroscopic Study/MCT	per Hour	4.5.1	2700	10	27000		
	Sub Total - E					2065930		
	Total-A+B+C+D+E						15,200,234	
	Total Outsourced Component					7,000,000		
	Tendering Cost					140,000		
	Technical Supervision Cost in case of Outsourced components					700,000		
G	Total Cost					16,040,234		
H	Preparation of Exploration Proposal	1	5.1	2% of approved project cost or 5 lakh whichever is lower		320804.68		
I	Geological Report Preparation(5Hard copies with a soft copy)	1	5.2(iii)	Total cost of Project exceeding 150 Lakh :7.5 Lakh	1	750000		
J	Peer review Charges		As per EC decision	10000	3	30,000		
K	Project Cost without GST					17,141,039		
L	Provision for GST (18%)					3,085,387		
M	Total Estimated Cost with GST					20,226,426		
N	Rs. In Lakhs					202.26		
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 Item no. 6 of NMET SoC. In case of execution of the project by NPEA on its own, a Certificate regarding non outsourcing of any component/project is required.
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.
5	Any item of work not mentioned above shall be added as per SoC.
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency

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Time Schedule/Action Plan for Preliminary Exploration (G3) for Graphite in Chadranga Block, District- Raygada, Odisha																			
S.No	Activity Plan	1	2	3		4	5	6		7	8	9		10	11	12			
1	Topographical Survey	■	■	■	REVIEW-1				REVIEW-2				REVIEW-3						
2	Lithological Mapping(1:4000 scale) and Sampling	■	■	■															
3	Pitting, Trenching		■	■			■												
4	Sample Preparation for chemical anaysis		■	■			■	■											
First Review by TCC on progress and outcome																			
5	Geophysical Survey							■		■									
Second Review by TCC on progress and outcome																			
6	Exploratory Drilling, Borehole collar survey											■		■	■				
7	Logging, Sampling, Bulk Density determination											■		■	■				
8	Chemical Analysis													■	■		■		
9	Mineragraphic, XRD, Trace Element Study and other studies														■		■		
Final Review by TCC on progress and outcome																			
10	Data Synthesis and draft report preparation													■	■				
11	Peer Review													■	■				
12	Final Report Preparation and Submission															■			

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Agenda 98.1.8. Preliminary exploration (G3) for cement grade limestone in Fatehpur Block, District: Chittorgarh, Rajasthan.

[Implementing Agency: Ocean Drilling Pvt. Ltd.]

- a. The proposed block falls within Toposheet No. 45O/4 and is predominantly underlain by limestone of the Bhandar Group of the Vindhyan Supergroup.
- b. Previous geological mapping and limestone investigations in the Mandalgarh–Dabi–Kota region established extensive Bhandar Limestone occurrences, covering about 260 sq. km with a strike length of ~28 km.
- c. NGCM stream sediment sampling in Toposheet No. 45O/04 reported high CaO values in limestone-bearing areas, further indicating significant limestone potential.
- d. Exploration carried out by DMG, Rajasthan during FS: 2016–17 to 2019–20 involved mapping of 32.5 sq. km and drilling of five boreholes (303 m), which indicated limestone with CaO values ranging from 26.15% to 38.34%, SiO₂ from 15.34% to 42.47%, and MgO below 2%.
- e. Reconnaissance Survey (G4 Stage) for cement-grade limestone carried out during FS: 2022–23 involved large-scale mapping of 100 sq. km, collection of 203 bedrock samples and 50 m³ of pitting samples, with chemical analyses indicating favourable limestone quality having CaO values up to 52.95% (average 46.59%) and low MgO content.
- f. Based on IBM classification, 100 bedrock samples were categorized as Portland cement-grade limestone with CaO values ranging from 44.98% to 52.95% (average 48.30%), and the area around Fatehpur, south of Jogania Mata Mandir, and north of Rayta village was recommended for detailed exploration of cement-grade limestone and dolomite.
- g. In view of the above, the agency presented the proposed block for G3-stage exploration to assess the limestone mineralization potential. The proposed work comprises detailed geological mapping (1:4,000 scale), geochemical sampling, pitting/trenching, and exploratory drilling with sampling to evaluate subsurface mineral resources under the UNFC G3 category.
- h. The proposal was discussed earlier in the 91st TCC-I meeting, wherein the representative of DMG, Rajasthan informed the Committee that the area falls under the State's five-year exploration plan and is proposed to be taken up in the coming years. The Committee advised DMG, Rajasthan to communicate its exploration programme for FY 2026–27 to NMEDT. It was further observed that, if the proposed block is not approved under the State programme for FY 2026–27, the agency may submit a DPR for consideration.
- i. The Committee reviewed the proposal, and DMG, Rajasthan informed that exploration work is currently in progress in the Fatehpur area. The Committee advised DMG, Rajasthan to communicate the details of the ongoing exploration, including the block boundary and extent of the area, to NMEDT. It was further observed that any portion of the proposed Fatehpur block not covered under the ongoing exploration programme of DMG, Rajasthan may be considered for exploration by the agency, subject to its geological potential.
- j. In view of the comments received from DMG Rajasthan, the project was not approved.

Sl. No.	Agency	Brief Comments
1	GSI	As per G4 investigation carried out by GSI during FS 2022-23, the area is potential for cement grade limestone mineralization.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	NA

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4	State DMG/DGM/CGM	Comments from DMG Received after meeting, and they have informed that the work is undergoing in the area for FS 2026-27.
5	NMEDT	The proposed block do not overlap with NMEDT funded projects.

Recommendations of TCC-1:

The committee did not approve the proposal as the area overlaps with ongoing project of DMG Rajasthan.

Agenda 98.1.9. Preliminary exploration for Vanadium, Graphite, Barium and other associated minerals in Sundungra Block, Champawat District, Uttarakhand.

[Implementing Agency: Ocean Drilling Pvt. Ltd.]

- a. The proposed block falls within Survey of India Toposheet No. 53O/15 and comprises Proterozoic rocks of the Gumalikhhet Formation (Almora Group), with minor exposures of Champawat Granite.
- b. It was observed that carbonaceous phyllite occurs as thinly foliated bands within grey phyllite, with widths varying from a few centimetres to about 80 m, indicating variable depositional conditions.
- c. Reconnaissance Survey (G4 stage) for vanadium and allied metals in the Chaura, Sirmoli, and Lohaghat areas was carried out during F.S. 2022–23. Analytical results of 100 samples indicated vanadium values ranging from 33 to 5212 ppm (median: 578 ppm) and barium values ranging from 164 to 40,518 ppm (median: 4798 ppm). Yttrium values ranged from 23 to 444 ppm (median: 103 ppm), while molybdenum values ranged from 0.85 to 288 ppm (median: 63 ppm).
- d. In view of the above, the agency proposed G3-stage exploration involving detailed geological mapping (1:2000 scale), pitting/trenching, and assessment of mineral potential.
- e. The proposal was recommended by TCC-I in its 93rd meeting wherein the Committee had reviewed the proposal and suggested that the exploration activities be carried out in two phases. Phase-I should include detailed geological mapping on 1:2,000 scale, systematic sampling, PTS, and ground geophysical surveys. Systematic sampling should be undertaken to define the width and lateral continuity of graphite- and vanadium-bearing bands within each carbonaceous phyllite horizon. Phase-II should comprise drilling of 1500 m, including first-level boreholes followed by second-level drilling. The extent of geophysical investigations and sub-surface drilling should be finalized based on the outcome of detailed mapping and systematic surface sampling, after review. Tentatively, 15 first-level boreholes may be planned at 30 m vertical intersection up to a depth of 60 m, followed by 4 second-level boreholes at 60 m vertical intersection up to a depth of 100 m.
- f. The proposal was deferred in the 8th PSC meeting, as the agency was already carrying out exploration in an adjacent block and it was considered appropriate to await the analytical results from that area. However, with a view to expediting exploration activities, the Committee decided to proceed with the proposal. Accordingly, the TCC recommended the proposal for approval by the PSC.
- g. It is observed that nearly **20%** of the proposed area falls in FSI polygon as per PM Gatishakti portal.

Sl. No.	Agency	Brief Comments
1.	GSI	The encouraging values of V, Ba, Y and Mo in the area indicate a promising potential for V and allied metals. The area needs to be further explored both

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		in terms of further reconnaissance work in the strike continuity of the existing carbonaceous phyllite bands as well as G-3 stage investigation for resource estimation.
2.	MECL	MECL does not have any overlap with the proposed block.
3.	AMD	NA
4.	State DMG/DGM/CGM	No overlap with any previous/current exploration or any CL/ML
5.	NMEDT	The proposed block is not overlapping with NMEDT funded block.

Recommendations of TCC-1:

The committee recommended the proposal titled "Preliminary Exploration (G3) for Graphite, Vanadium and associated critical minerals in Sundungra Block, District: Champawat, Uttarakhand" for approval of PSC, NMEDT with an estimated cost of Rs. 714.46 lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure – 6A & 6B. The item will be reviewed after 3, 6 and 9 months.

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Annexure 6A

Preliminary Exploration (G3) for Graphite, Vanadium and associated critical minerals in Sundungra Block, District: Champawat, Uttarakhand
Area: 2.4 sq.km, Scale:1:2,000. Drilling: 1500 m, (1st level BH: 15, 30 m vertical intersection and 5 BH of 60 m vertical intersection)
(Schedule timeline: 12 months Review: After 03, 06 & 09 Months)

S. No.	Item of Work *	Unit *	Rates as per NMEDT SoC (2025-26)		Estimated Cost of the Proposal			Remarks
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	Hilly terrain of Himalaya region (Total amount X 2)	
A	Geological Mapping Other Geological Work & Surveying							
1	Detailed mapping (1:2000) with topographic contouring	per sq. km.	1.1	28,600	2.4	68640	68640	Drilling and core sampling in 2nd Phase. Rest Geological work in 1st Phase
	a. Charges for Geologist per day (Field) for geological mapping, drilling work, core logging & sample marking	day	1.2.1a (b)	14,500	180	26,10,000	52,20,000	
	b. Labours Charges; Base rate	day	5.8	541	360	1,94,760	3,89,520	
	c. Charges for Geologist per day (HQ)	day	1.2.1a (a)	10,500	50	5,25,000	5,25,000	
2	a. Charges for one Sampler per day (1 Party)	one sampler per day	1.2.1b	7,850	213	16,72,050	33,44,100	
	b. Labours (4 Nos)	day	5.8	541	852	4,60,932	9,21,864	
	Sub Total- A					54,62,742	1,04,69,124	
B	Survey work (1st Phase)							
1	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.3.2	24,000	24	576000	1152000	20 nos. of BH plus 4 Boundary points

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2	Charges of Surveyor (1 party) for topographic mapping in 1:2000 scale and contouring at 3m interval	one surveyor per day	1.3.1	10,500	50	525000	1050000	
3	Labors Charges for survey work (4 laborers)	day	5.8	541	200	108200	216400	
Sub-Total B						12,09,200	24,18,400	
C	MINERAL INVESTIGATION (In house DRILLING) (2nd Phase)							
1	Excavation of trenches upto 2.0m depth (1st Phase)	per cu.m	2.1.1	4125	150	618750	1237500	Trenching work to be done after completion of SP Survey
2	Core Drilling (Hard rock in NQ size) (2nd Phase)	m	2.2.1.1d	10,000	1,500	15000000	3,00,00,000	1st level BH: 15, 30 m vertical intersection and 5 BH of 60 m vertical intersection. The depth of boreholes maybe revised after establishing geological continuity of Vanadium & graphite bands in first few boreholes. 2. Depth of borehole will vary due to undulating topography
5	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	30,000	20	6,00,000	12,00,000	
6	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7	2000	20	40,000	80,000	
7	Borehole plugging by cement	Lumpsum per borehole	2.2.8	10000	20	2,00,000	4,00,000	
8	Miscellaneous Charges (Transportation of Drilling Rig, Accommodation for Drill	Lumpsum	2.2.9			25,00,000	25,00,000	For drilling cost more than 2 Cr: 10% of cost with maximum ceiling of 25 lakhs.

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	Camp, Camp setting and winding, construction of Approach road)							Also as per SoC, maximum ceiling is Rs. 25,00,000
9	Drill Core Preservation	per m	5.3	1,590	500	7,95,000	7,95,000	1 complete BH and remaining mineralised zones
	Sub Total C					1,91,35,000	3,62,12,500	
D	Ground Geophysical Survey (1st Phase)							
1	SP survey	lkm	3.3a	1,55,350	10	15,53,500	31,07,000	
6	Expert charges for Geophysicist in HQ	day	3.18	10,500	10	1,05,000	1,05,000	
7	Expert charges for Geophysicist in Field	day	3.18	14,500	-	-	-	
	Sub Total D					16,58,500	32,12,000	
E	LABORATORY STUDIES							
1	Chemical Analysis							
i)	Primary samples							
	a. BRS/Channel sample by Major oxides (WD XRF)- (oxides+ traces -24 elements)	Nos	4.1.17a	4,200	100	4,20,000		200m*20 grid channel sampling; 100 samples
	b. Check samples Internal (10%)	Nos	4.1.17a	4,200	10	42,000		
ii)	Trench samples							
	a. Trench sample by Major oxides (WD XRF)- (oxides+ traces -24 elements)	Nos	4.1.17a	4,200	150	6,30,000		a. 1m sample length from trench
	b. Check samples Internal (10%)	Nos	4.1.17a	4,200	15	63,000		
iii)	Core samples							
	a. Core sample by Major oxides (WD XRF)- (oxides+ traces -24 elements)	Nos	4.1.17a	4,200	500	21,00,000		

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	b. Check samples Internal (10%)	Nos	4.1.17a	4,200	50	2,10,000		
iv)	a.Graphite Proximate Analysis	Nos	4.1.18	3,614	750	27,10,500		500 BH + 100 BRS + 150 Trench Samples
	b. Check samples Internal (10%)	Nos	4.1.18	3,614	75	2,71,050		
2	Petro Chemical Samples							
i)	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS	Nos	4.1.15	7400	50	3,70,000		Including BRS, PTS and Core samples
	b. Check samples Internal (10%)	Nos	4.1.15	7400	5	37,000		
3	XRD analysis for identification of minerals (Random)	Nos	4.5.2	4,000	10	40,000		
4	Physical & Petrological Studies							
i	Preparation of polished thin section	Nos	4.3.2	800	10	8,000		
ii	Study of thin section	Nos	4.3.4	2,800	10	28,000		
iii	Preparation of polished section	Nos	4.3.2	800	-	-		
iv	Study of polished thin section	Nos	4.3.4	2,800	-	-		
v	Raman Spectrometry (graphite crystallinity)	hrs	4.5.1	2,700	5	13,500		
5	Sp. Gravity	Nos	4.8.1	2,500	5	12,500		
6	EPMA	hrs	4.4.1	10,500	-	-		
						69,55,550	69,55,550	
H						3,44,20,992	5,92,67,574	

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I	Geological Report Preparation	Soft copy	5.2			7,50,000		Reimbursement will be made after submission of the final Geological Report in soft copy to NMEDT.
J	Peer review Charges		As per EC decision			30,000		
K	Preparation of Exploration Proposal (5 Hard copies with a soft copy)	Soft copy	5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is less		5,00,000		
L	Total Estimated Cost without GST						6,05,47,574	
M	Provision for GST (18% of J)						1,08,98,563.32	GST will be reimbursed as per actual and as per notified prescribed rate
N	Total Estimated Cost with GST					-	7,14,46,137	
				or Say Rs. In Lakhs		-	714.46	
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 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.							
*	SoC Item No, Unit and Rate for each item of work must be as mentioned in the SoC.							

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Time Schedule/ Action Plan for Preliminary Exploration (G3) for Graphite, Vanadium and associated critical minerals in Sundungra Block, District: Champawat, Uttarakhand

S.No.																	
			1	2	3		4	5	6		7	8	9		10	11	12
1	Camp Setting	Months/Days															
2	Geological Mapping & Sampling	days															
3	Surface Drilling (2 rigs)	m															
4	Core logging and sampling																
5	Ground Geophysical survey	m															
6	Geophysicist party days (HQ) for data interpretation & Report	Days				Review				Review				Review			
7	Survey Party days	days															
8	Geologist Man days (Field)	days															
9	Geologist Man days (HQ)	days															
10	Sampler Man days	days															
11	Laboratory Studies	Nos.															
12	Report Writing with Peer Review	months															
13	Camp Winding	months															

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Agenda 98.1.10. Reconnaissance Survey (G4) for Bauxite/Aluminous Laterite in Rangasgre-Dajugre area, West Garo Hills District, Meghalaya [Implementing Agency: Mining Associates Pvt. Ltd.]

- a. The proposed block falls within Survey of India Toposheet No. 78K/1 and is characterized by alumina-rich gneisses, granitoids, and associated basic intrusives belonging to the Assam–Meghalaya Gneissic Complex (AMGC).
- b. Regional geological studies conducted in Toposheet No. 78K/1 have reported lateritic and bauxitic clay cappings developed over porphyritic gneisses and basic intrusives, indicating favourable conditions for lateritisation and bauxite mineralization.
- c. NGCM studies (FS 2020–21) in Toposheet No. 78K/01 recorded anomalous TREE values (142–694 ppm) along with elevated Al_2O_3 , Fe_2O_3 , Cr, Ni, and Ga, indicating mineralization potential in the area.
- d. Specialized thematic mapping carried out during FS 2024–25 in parts of Toposheet No. 78K/01 reported significant enrichment of REE (up to 1,825 ppm), Al_2O_3 (~26.9%), Fe_2O_3 (up to 54.41%), Cr (up to 8,133 ppm), and Ni (up to 1,007 ppm), indicating the mineral potential of the area.
- e. G4-stage exploration carried out during FS 2024–25 in the nearby Solanggiri–Rongmasogiri area delineated 10.96 sq. km of laterite and bauxitic clay cappings (thickness 0.2–1.2 m) developed over the Assam–Meghalaya Gneissic Complex (AMGC), indicating bauxite and associated trace-element potential.
- f. Analytical results of Bed Rock Samples (BRS) ($n = 80$) collected from bauxite/laterite capping over porphyritic gneiss yielded Al_2O_3 contents ranging from 3.05% to 40.46% (average: 28.03%), Fe_2O_3 from 0.85% to 51.16%, SiO_2 from 29.74% to 59.66% (average: 50.54%), and TiO_2 from 0.16% to 6.50% (average: 2.78%). Associated trace elements include V (23–425 ppm; average: 111.21 ppm), Nb (8–92 ppm; average: 41.76 ppm), Zn (11–60 ppm; average: 21.15 ppm), and Ga (21–85 ppm; average: 38.69 ppm).
- g. Analytical results of pitting and trench samples ($n = 30$) yielded Al_2O_3 values ranging from 17.31% to 27.76% (average: 21.76%), Fe_2O_3 from 7.53% to 21.08% (average: 11.66%), SiO_2 from 41.68% to 61.33% (average: 51.55%), and TiO_2 from 1.0% to 1.5% (average: 1.2%). Total REE contents in BRS samples from laterite and bauxitic clay range from 56.47 ppm to 3238.22 ppm (average: 431.42 ppm), while regolith samples recorded Total REE values ranging from 40.47 ppm to 561.59 ppm (average: 334.43 ppm).
- h. In view of the above, the agency proposed G4-stage exploration comprising large-scale geological mapping (1:12500 scale) and systematic surface sampling to delineate bauxite/aluminous laterite zones and assess associated trace-element potential under the UNFC G4 category.
- i. The proposal was earlier discussed in the 93rd TCC-I meeting, wherein the Chairman informed the Committee that the GSI project approved for F.S. 2026–27 had been dropped as per the directions of the Secretary, Ministry of Mines, and the area could therefore be taken up by NPEAs. In view of this, the Committee advised the agency to submit a DPR for consideration.
- j. The Committee reviewed the proposal and observed that certain areas in the western part of the originally approved GSI block had been excluded. The Committee advised the agency to expand the block boundary to include these areas and to incorporate the associated critical minerals in the project title. The agency revised the proposal accordingly.
- k. It is observed that nearly 80% of the proposed area falls in FSI polygon as per PM Gatishakti portal.


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Sl. No.	Agency	Brief Comments
1	GSI	The proposed NMET block does not overlap with any previous GSI exploration blocks. An approved G4 item in the area was initially overlapping but has since been dropped from FS 2026–27.
2	MECL	NA
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	The proposed block has no overlapping with the DMR Meghalaya ongoing or completed projects. There is no existing CL/ML in the proposed area.
5	NMEDT	The proposed block do not overlap with NMEDT funded projects.

Recommendations of TCC-1:

The committee recommended the proposal titled “Reconnaissance Survey (G4) for Bauxite/Aluminous Laterite and associated Critical Minerals in Rangsgre-Dajugre Area, West Garo Hills District, Meghalaya” for approval of PSC, NMEDT with an estimated cost of Rs. 157.96 lakhs (including GST) within time schedule 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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Reconnaissance Survey (G4) for Bauxite/Aluminous Laterite and associated Critical Minerals in Rangisagre-Dajugre Area, West Garo Hills District, Meghalaya
Area: 70.97 sq. kms., Total Drilling: ~250 m, No. of BH: 10 nos, Average BH depth range ~25 m, Schedule timeline: 12 months; Review after: 3, 6 and 9 months

S. No.	Item of Work *	Unit *	Rates as per NMEDT SoC		Qty.	Total Amount	Total Amount Multiplying factor-1.5 (Rs) (wherever applicable)	Remarks	
			SoC-Item No.	Rates as per SoC					
A	Geological Work								
i	Geological mapping, (1:12500 scale)	Per sq. km.	1.1	18,300	70.97	1298751	1948127		
ii	a) Charges for Geologists in Field (without labour)	Per day Per Geologist	1.2.1a	14,500	60	870000	1305000		
iii	b) Charges for Geologists at HQ	Per day Per Geologist	1.2.1b	10,500	40	420000	420000		
iv	Labours Charges; Base rate	Per day Per Labour	5.8	556	120	66720 0	100080 0		
	Charges for one Sampler per day	Charges for one sampler per day	1.2.1b	7,850	150	1177500	1766250		
	Labours (4 Nos)	Per day Per Labour	5.8	556	600	333600	500400		
	Sub Total-A							6039857	
B	Survey work								
i	Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes	Per point of observation	1.3.2	24,000	10	240000	360000	(10 Borehole points)	

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	by DGPS (including labour charge)							
	Sub Total-B						360000	
C	Pitting and Trenching (after 1st Review)							
i	Excavation of ~70 pits upto 2 m depth with back filling (1m*1m*2m)	Per cu.m	2.1.2	4,725	140	661500	992250	
	Sub Total-C						992250	
D	SCOUT DRILLING (In House) (after 2nd review)							
i	Core Drilling: Average Depth: ~25m, No. of BH: 10	Per m	2.2.1.1c	5,500	250	1375000	2062500	
ii	Borehole Pillaring (12" *12" *30")	Per borehole	2.2.7	2,000	10	20000	30000	
iii	Borehole Plugging by Cement	Per borehole	2.2.8	10,000	10	100000	150000	
iv	Drill core preservation	Per m	5.3	1,590	200	318000	477000	
vi	Land/Crop compensation	Per borehole	5.6	30,000	10	300000	450000	As per actuals with maximum ceiling of 30000 per BH
vii	Miscellaneous charges (Transportation of Drilling rig, Accommodation of Drilling camp, Camp setting and winding, construction of approach road)	Lumpsum	2.2.9	515,625		343750	515625	For drilling cost less than 50 lakhs: 25% of the Drilling Cost.
	Sub Total-D						3685125	
E	Laboratory Studies							
1	Chemical Analysis							
i	Primary samples analysis for 5 radicals viz. Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , TiO ₂ , LOI	Nos	4.1.8a	2,506	490	1227940	1227940	Includes BRS (150), pit (140), and

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								drill core samples (200)	
ii	External check samples for 5 radicals viz., Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , TiO ₂ , LOI.	Nos	4.1.15a	2,506	49	122794	122794	(10% of total samples)	
	Analysis for Bauxite								
i	Combined determination of Tri hydrate Alumina (THA-40°C) and Mono hydrate Alumina (MHA-240°C) & Reactive Silica (per BH 2 Sample)	Nos.	4.1.19a	7,500	5	37500	37500		
2	Physical, Petrological & Mineralogical studies								
i	Analysis for quantitative analysis of 14 REE elements + 9 trace by ICP-MS (sequential technique)	Nos.	4.1.15	7,400	40	296000	296000		
	10%Check samples	Nos.	4.1.15	7,400	4	29600	29600		
	Thin section Preparation		4.3.1	500	10	5000	5000		
ii	Complete Petrographic/ore micrographic study/mineragraphic report of of rock sample (along with 5 nos. digital photo microscope)	Nos.	4.3.4	2800	10	28000	28000		
iii	XRD Analysis for Identification of Minerals (Random)	Nos.	4.5.2	4000	5	20000	20000		
iv.	Specific Gravity Determination	Nos.	4.8.1	2500	2	5000	5000		
	Sub Total-E						1771834		
	Total Outsourced								
H		TOTAL						12849066	

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I	Preparation of Exploration Proposal	One time	5.1	2% of the approved project cost or 5 Lakh whichever is lower	1		256981		
J	Geological Report Preparation	soft copy	5.2	Total Cost of Project exceeding 50 lakhs but less than 150 lakhs: 2.5 lakh	1		250000	These charges shall be paid after the final approved report is uploaded on NGDR by MAPL	
K	Peer Review	Per review	--	As per EC decision	--		30000		
L	Total Estimated Cost without GST							13386047	
M	Provision for GST (18% of M)							2409488	
N	Total Estimated Cost with GST (in lakhs)							15795535	
						in lakh	157.96		
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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Time Schedule/ Action Plan for Reconnaissance Survey (G4) for Bauxite/Aluminous Laterite and associated Critical Minerals in Rangisagre-Dajugre Area, West Garo Hills District, Meghalaya

S. No.	Items	Units	1	2	3	Review	4	5	6	Review	7	8	9	Review	10	11	12			
1	Camp Setting	Month	■																	
2	Geological Mapping & Sampling	Months	■	■	■															
5	Survey	Days	■										■							
6	Pitting	cu.m						■	■		■									
7	Scout Drilling	m											■		■	■				
8	Geologist Man days (HQ)	Days	■								■								■	■
9	Sampler Man days	Days							■		■		■		■	■				
10	Camp Winding	Month																■		
11	Laboratory Studies	Nos.		■	■								■		■	■		■	■	■
12	Report Writing	Months																	■	■

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Agenda 98.1.11. Preliminary Exploration of Titanium (Ti), Vanadium (V), and Phosphate (P) in Kalapati Block, Purulia District, West Bengal

[Implementing Agency: MMPL Pvt. Ltd.]

- a. The proposed block falls within Survey of India Toposheet No. 73J/09 and comprises mica schists of the Chaibasa Formation of the Chota Nagpur Gneissic Complex (CGC), along with ultramafic intrusive bodies such as gabbro, pyroxenite, melano-gabbro, and amphibolites equivalent to the Dalma Volcanics of the Singhbhum Mobile Belt.
- b. GSI's specialized thematic mapping (FS 1990–93) reported anomalous titanium (>1%), vanadium, and PGE values (99.20–1,291.60 ppb) from basic and ultramafic rocks, along with occurrences of basic and ultrabasic bodies associated with metasedimentary rocks between the Dalma Volcanics and the Tamar–Porapahar Shear Zone. Whole-rock analyses of ultramafic and amphibolite rocks recorded TiO₂ values ranging from 1.0% to 1.25%.
- c. G3-stage exploration carried out during FS 2022–23 in the nearby Katim Block, East Singhbhum District, identified Ti, V, and P mineralization hosted within gabbro and pyroxenite of the Dalma Group, indicating the prospectivity of similar lithologies in the region.
- d. Geochemical analyses from the nearby Katim Block recorded significant TiO₂ enrichment in pyroxenite (2.68–4.71%; 42 samples >4%) and gabbro (0.97–3.44%), along with elevated V (up to 642 ppm) and P₂O₅ (up to 3.54%), confirming the Ti–V–P mineralization potential of the host lithologies.
- e. G3-stage exploration in the nearby Katim Block estimated titanium resources of 83.841 million tonnes at 2% TiO₂ cut-off and 52.633 million tonnes at 4% TiO₂ cut-off, along with an inferred vanadium resource of 29.116 million tonnes at an average grade of 535.18 ppm V (0.13% V₂O₅).
- f. Field traverses carried out by MMPL Pvt. Ltd. in the proposed block identified gabbro and amphibolite exposures. Analysis of 19 amphibolite samples recorded Ti values ranging from 25,492 ppm to 331,966 ppm.
- g. In view of the above, the agency proposed G3-stage exploration comprising detailed geological mapping (1:4000 scale), geochemical sampling, ground geophysical surveys, and exploratory drilling to delineate Ti–V mineralization and assess mineral resources under the UNFC G3 category.
- h. The project was earlier discussed in the 91st TCC-I meeting, wherein it was observed that the mineralogical phases hosting Ti and V had not been established. The agency was therefore advised to undertake petrological and mineralogical studies and present the findings in a subsequent TCC-I meeting.
- i. The Committee reviewed the proposal and observed that the geological setting, lithological assemblage, and analytical results for Ti, V, and P₂O₅ were not sufficiently encouraging to justify G3-stage exploration in the proposed area. The Committee further noted that no additional data or information had been furnished by the agency in response to the observations made during the 91st TCC-I meeting. Accordingly, the proposal was not recommended for further consideration.

Sl. No.	Agency	Brief Comments
1	GSI	76 %overlap with GSI's G4 stage Gold investigation block carried out during FS 2016-17. The block has already been handed over to DMM, West Bengal as GM. The proposed Kalapati G-3 block is having 26% overlap with GSI G4 stage Gold investigation block carried out during FS 2023-24
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	Kalapati Block (1.7 sq. km) is situated between two NMET-approved ongoing graphite exploration blocks being explored by MMPL. As the block is small in extent and lacks adequate G4-level baseline data for Titanium (Ti) and Vanadium (V), it is recommended to undertake G4-stage reconnaissance exploration with limited geophysical surveys and scout drilling. Based on the results, the exploration may subsequently be upgraded to G3 stage.
5	NMEDT	NMEDT funded block shares its boundary with the proposed block.

Recommendations of TCC-1:

The Committee did not approve the proposal, as the geological setting, lithological assemblage, and analytical results for Ti, V, and P₂O₅ were not considered sufficiently encouraging to justify G3-stage exploration in the proposed area.

Agenda 98.2: Technical Evaluation of Mineral Exploration Proposals of Geological Survey of India

Agenda 98.2.1. Preliminary Exploration for Gondwana Coal in Budhuchak Sector, Northern extension of Hura Coalfield, Rajmahal Coalfields, Bhagalpur District, Bihar.

[Implementing Agency: GSI, Eastern Region (ER)]

- a. The proposed block falls in SOI TS No. 720/7 and lie along the western fringe of the Rajmahal-Purnea Basin, much of which is buried under Rajmahal Traps, Tertiary sediments, and Gangetic alluvium.
- b. The Barakar Formation, the main coal-bearing unit, appears in isolated patches along the western slope of the Rajmahal hills and rests against the Chhotanagpur Gneissic Complex along a major fault.
- c. The committee was informed that, during FS 2024–25, G4-stage regional exploration for coal was carried out in the Khawaspur area over an extent of about 30 sq. km.
- d. A total drilling meterage of 1,295 m was completed in two boreholes (RBKA-1 and RBKA-2), intersecting cumulative coal thicknesses of 47.43 m and 83.07 m, respectively.
- e. Subsurface drilling data delineated four major coal seam zones (A, B, C, and D), indicating significant coal potential in the area.
- f. Borehole RBKA-1 was drilled to a depth of 550 m and intersected four coal seam zones (A–D), with seam-zone thicknesses ranging from 18.1 m to 105.6 m and a maximum coal seam thickness of 6.70 m.
- g. The committee was further informed that Borehole RBKA-2 was drilled to a depth of 745 m and intersected all four coal seam zones (A–D), with seam-zone thicknesses ranging from 20.0 m to 169.45 m and a maximum coal seam thickness of 10.55 m.
- h. In view of the encouraging results from the Khawaspur area, the Budhuchak Sector has been proposed for G3-stage exploration during FS 2026–27 to establish the

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strike and dip continuity of the regional Barakar coal seams and delineate the northern extension of the Hura Coalfield.

- i. The project was approved in 65th meeting of CGPB.
- j. The proposal envisages a cumulative drilling target of 2200 m in 4 boreholes with depth varying between 500-650 m for each BH.
- k. The committee deliberated the proposal and recommended for approval of PSC, NMEDT for funding of outsourced components of the proposal.

Recommendations of TCC-1:

The committee recommended the proposal titled “Preliminary Exploration for Gondwana Coal in Budhuchak Sector, Northern Extension of Hura Coalfield, Rajmahal Coalfields, Bhagalpur District, Bihar (G3)” for approval of PSC, NMEDT with an estimated cost of Rs. 207.03 lakhs (including GST) within time schedule till 31.03.2027 for carrying out the proposed work and submission of report as per Annexure – 8A & 8B. The item will be reviewed after 3 , 6 and 9 months


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Annexure 8A

Preliminary Exploration for Gondwana Coal in Budhuchak Sector, Northern Extension of Hura Coalfield, Rajmahal Coalfields, Bhagalpur District, Bihar (G3)

1		Drilling	2200 m	In case of outsourced				
Item of Work	Unit	SoC-Item -SI No. NMEDT	Rates as per NMEDT SoC 2025	Rates of GSI for NMEDT work	Estimated Cost			
					Qty.	Total Amount (Rs)		
Drilling - OUT SOURCED								
	Drilling for Coal	m	2.2.1.1b	7,975.00		2200	₹ 17,545,000.00	
Total Cost D- outsourced							₹ 17,545,000.00	
Total Cost of the project (Survey Work + Drilling Work)							₹ 17,545,000.00	
GST @18%							₹ 3,158,100.00	
NMEDT Funding requested							₹ 20,703,100.00	
							In Lakhs	207.03
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 8B

Time Schedule/ Action Plan for Preliminary Exploration for Gondwana Coal in Budhuchak Sector, Northern Extension of Hura Coalfield, Rajmahal Coalfields, Bhagalpur District, Bihar (G3).

S.No.	Activities	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Jan-27	Feb-27	Mar-27
		1	2	3	4	5	6	7	8	9	10	11	12
1	Sub-surface Exploration: Core Drilling (2200 m)												

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98.2.2. Preliminary Exploration for Bauxite and associated Critical minerals in Anganewadi Block, Sindhudurg District, Maharashtra.
(Proposal ID: ME/DD/G3/MH/26-27/065)
[Implementing Agency: GSI, Central Region (CR)]

- a. The proposed block falls in SOI TS No. 47H/8 & 47H/12 and geologically, the area represents four distinct litho units. These include metasedimentary rocks of Dharwar Supergroup, sedimentary rocks of Kaladgi Supergroup, basalts of Purandargarh Formation belonging to Sahyadri Group of Deccan Trap Supergroup and laterites of Cenozoic age. Most of the laterites have developed over the Deccan basalts as capping. In the area bauxite occur as lensoidal and patchy capping over the aluminous laterite.
- b. During FS 2024–25, reconnaissance surveys in the Anganewadi area involved systematic collection of bedrock, pit/trench, and channel samples, along with REE, reactive silica, XRD, petrological, and ore microscopy studies.
- c. Analytical results indicated the presence of 36 bauxite samples and 63 aluminous laterite samples, based on the Ministry of Mines threshold criteria of $\text{Al}_2\text{O}_3 \geq 30\%$ and $\text{SiO}_2 \leq 7\%$ for bauxite, and $\text{Al}_2\text{O}_3 \geq 20\%$ for aluminous laterite.
- d. Bauxite samples recorded Al_2O_3 values of 36.67–53.83% (avg. 46.77%), with associated enrichment of TiO_2 (up to 4.72%), Ga (up to 82 ppm), and V (up to 1,818 ppm), while aluminous laterite samples showed Al_2O_3 values of 20.8–53.10% (avg. 38.6%) with comparable TiO_2 , Ga, and V contents.
- e. Of the 50 pit and trench samples, 23 were classified as bauxite and 27 as aluminous laterite, with Al_2O_3 values ranging from 34.17% to 58.68% in bauxite samples and 32.50% to 45.24% in aluminous laterite samples. Associated enrichment of TiO_2 (~3%), Ga (~61 ppm), and V (up to 2,602 ppm) was also recorded.
- f. Geochemical analyses indicate significant enrichment of critical elements, with 94% of bedrock samples recording TiO_2 values greater than 2% (up to 5.16%) and 87% of samples containing Ga values exceeding 50 ppm, along with elevated V contents, highlighting the critical mineral potential of the Anganewadi area.
- g. In view of the encouraging results from the Anganewadi area, G3 exploration is proposed in northern part of Anganewadi area for assessment of bauxite and associated critical mineral resource in Anganewadi block.
- h. The project was approved in 65th meeting of CGPB.
- i. The proposal envisages a cumulative drilling target of 400 m in 26 boreholes with depth varying between 15-20 m for each BH.
- j. The committee deliberated the proposal and recommended for approval of PSC, NMEDT for funding of outsourced components of the proposal.

Recommendations of TCC-1:

The committee recommended the proposal titled “Preliminary Exploration for Bauxite and Associated Critical Mineral in Anganewadi Block, Sindhudurg District, Maharashtra (G3)” for approval of PSC, NMEDT with an estimated cost of Rs. 25.96 lakhs (including GST) within time schedule till 31.03.2027 for carrying out the proposed work and submission of report as per Annexure – 9A & 9B. The item will be reviewed after 3 , 6 and 9 months.


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Preliminary Exploration for Bauxite and Associated Critical Mineral in Anganewadi Block, Sindhudurg District, Maharashtra (G3)

Item of Work	Unit	SoC-Item - SI No. NMEDT	Rates as per NMET SoC 2025	Estimated Cost		Remarks
				Qty.	Total Amount (Rs)	
1	Drilling	400 m	26 Vertical boreholes with 15/20 m depth for each borehole			
Drilling - OUT SOURCED						
DRILLING	Drilling in/ Drilling in Soft rock/ Strata: HQ size borehole upto 400m Depth and NQ Size beyond 400m depth in case of NQ size drilling is done before 400m depth, the rate shall decrease by 20%	m	2.2.1.1c	5,500.00	400	₹ 2,200,000.00
Total Cost D- outsourced						₹ 2,200,000.00
Total (Drilling)						₹ 2,200,000.00
GST 18%						₹ 396,000.00
Total Fund Required inclusive of 18% GST						₹ 2,596,000.00
						25.96 Lakh
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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Time Schedule/ Action Plan for Preliminary Exploration for Bauxite and Associated Critical Mineral in Anganewadi Block, Sindhudurg District, Maharashtra (G3)

S. No.	Activities	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Jan-27	Feb-27	Mar-27
		1	2	3	4	5	6	7	8	9	10	11	12
1	Sub-surface Exploration: Core Drilling (400 m)												

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Agenda 98.2.3. Preliminary Exploration for Glauconitic Shale/ Sandstone and associated REE mineralization in Banskurah- Birbira Block, Mahasamund District, Chhattisgarh
Proposal ID: ME/DD/G3/CT/26-27/075)
[Implementing Agency: GSI, Central Region (CR)]

- a. The proposed block falls in SOI TS No. 64K/4 and is largely occupied by the sedimentary rocks of the Chandarpur Group of Chhattisgarh Supergroup of meso- neo-Proterozoic age. A small part of NW-SE trending Dongargarh granite is also present in the area.
- b. The Banskurah–Birbira block forms part of the sedimentary succession of the Chhattisgarh Supergroup, specifically represented by rocks of the Chandarpur Group, comprising shale/siltstone horizons of the Chaporadih Formation, which are known to host glauconite mineralization.
- c. The committee was apprised that reconnaissance survey (G4 stage) carried out during FS 2024–25 established the presence of glauconite-bearing horizons with associated REE enrichment, with channel samples recording TREE values of up to 286.69 ppm and K₂O contents of up to 6.18 wt%, indicating favourable potash and REE potential.
- d. Trench sampling in the Chaporadih Formation recorded encouraging subsurface mineralization, with TREE values ranging from 206.98 ppm to 401.77 ppm and K₂O values between 5.60 wt% and 6.35 wt%, confirming the continuity and enrichment of glauconite-bearing horizons.
- e. GSI further informed that the consistent surface and subsurface geochemical anomalies associated with glauconite-bearing shale/siltstone horizons indicate favourable potential for REE and associated mineralization, warranting systematic subsurface evaluation.
- f. In view of the encouraging results obtained during G4-stage investigation, GSI proposed G3-stage exploration to evaluate the lateral and vertical continuity, thickness variation, and grade distribution of glauconite-bearing horizons and associated REE mineralization.
- g. The project was approved in 65th meeting of CGPB.
- h. The proposal envisages a cumulative drilling target of 900 m in 18 boreholes.
- i. The committee deliberated the proposal and recommended for approval of PSC, NMEDT for funding of outsourced components of the proposal.

Recommendations of TCC-1:

The committee recommended the proposal titled “Preliminary exploration for glauconitic shale/sandstone and associated REE mineralization in Banskurah- Birbira block, Mahasamund District, Chhattisgarh” for approval of PSC, NMEDT with an estimated cost of Rs. 58.41 lakhs (including GST) within time schedule till 31.03.2027 for carrying out the proposed work and submission of report as per Annexure – 10A & 10B. The item will be reviewed after 3, 6 and 9 months.


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Preliminary exploration for glauconitic shale/sandstone and associated REE mineralization in Banskurah-Birbira block, Mahasamund District, Chhattisgarh

Item of Work	Unit	SoC-Item -SI No. NMEDT	Rates as per NMET SoC 2025	Estimated Cost		Remarks
				Qty.	Total Amount (Rs)	
Drilling - OUT SOURCED						
DRILLING	m	2.2.1.1c	5,500.00	900	₹ 4,950,000.00	
Total Cost D- outsourced					₹ 4,950,000.00	
Total (Drilling)					₹ 4,950,000.00	
GST 18%					₹ 891,000.00	
Total Fund Required inclusive of 18% GST					₹ 5,841,000.00	
					58.41	Lakh

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 10B

Time Schedule/ Action Plan for Preliminary exploration for glauconitic shale/sandstone and associated REE mineralization in Banskurah-Birbira block, Mahasamund District, Chhattisgarh

S.No.	Activities	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Jan-27	Feb-27	Mar-27
		1	2	3	4	5	6	7	8	9	10	11	12
1	Sub-surface Exploration: Core Drilling (900 m)												

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**Agenda 98.2.4. Preliminary Exploration for Bauxite and associated critical minerals in Basni Block, Ratnagiri District, Maharashtra
(Proposal ID: ME/DD/G3/CT/26-27/067)
[Implementing Agency: GSI, Central Region (CR)]**

- a. The proposed block falls in SOI TS No. 47G/8 and exposes basaltic flows of the Sahyadri Group of Deccan Trap Supergroup. Intense tropical weathering of the basaltic flows has resulted in the development of thick laterite profiles, which form the principal target horizon for bauxite and associated critical minerals.
- b. G4-stage investigation carried out during FS 2024–25 in the Bhandarpule–Mirajole area identified the Basni Block as a favourable laterite-capped plateau (12–15 m thick) with significant enrichment of Al_2O_3 , TiO_2 , vanadium, scandium, and gallium, particularly within the duricrust horizon.
- c. GSI informed that the surface sampling in the Basni Block (bedrock, trench, and channel samples) recorded Al_2O_3 values ranging from 27.50% to 44.28% and vanadium values from 630 ppm to 1,793 ppm, indicating favourable bauxite mineralization.
- d. It was further informed that the associated critical mineral enrichment was also recorded, with Cr values up to 1,217 ppm, Ga up to 64 ppm, Sc up to 28 ppm, and Zr up to 396 ppm, confirming the potential of the Basni Block for bauxite and associated critical mineral resources and warranting G3-stage exploration.
- e. The drilling is proposed to assess the thickness, grade and continuity of the lateritic profile and bauxite/aluminous horizons.
- f. The project was approved in 65th meeting of CGPB.
- g. The proposal envisages a cumulative drilling target of 468 m in 36 boreholes with depth varying between 12-15 m for each borehole.
- h. The committee deliberated the proposal and recommended for approval of PSC, NMEDT for funding of outsourced components of the proposal.

Recommendations of TCC-1:

The committee recommended the proposal titled “Preliminary Exploration for Bauxite and Associated Critical Minerals in Basni Block, Ratnagiri District, Maharashtra (G3)” for approval of PSC, NMEDT with an estimated cost of Rs. 30.37 lakhs (including GST) within time schedule till 31.03.2027 for carrying out the proposed work and submission of report as per Annexure – 11A & 11B. The item will be reviewed after 3, 6 and 9 months.


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Annexure 11A

Preliminary Exploration for Bauxite and Associated Critical Minerals in Basni Block, Ratnagiri District, Maharashtra (G3)							
1	Drilling		468 m	36 Boreholes with 12 to 15m depth for each borehole			
Item of Work	Unit	SoC-Item - SI No. NMEDT	Rates as per NMET SoC 2025	Estimated Cost			
				Qty.	Total Amount (Rs)		
D. Drilling - OUT SOURCED							
DRILLING	Drilling in/ Drilling in Soft rock/ Strata: HQ size borehole upto 400m Depth and NQ Size beyond 400m depth in case of NQ size drilling is done before 400m depth, the rate shall decrease by 20%	m	2.2.1.1c	5,500.00	468	₹ 2,574,000.00	
Total Cost D- outsourced						₹ 2,574,000.00	
Total (Drilling)						₹ 2,574,000.00	
GST 18%						₹ 463,320.00	
Total Fund Required inclusive of 18% GST						₹ 3,037,320.00	
					lakh	30.37	
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 11B

Time Schedule/ Action Plan for Preliminary Exploration for Bauxite and Associated Critical Minerals in Basni Block, Ratnagiri District, Maharashtra (G3)

S.No.	Activities	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Jan-27	Feb-27	Mar-27
		1	2	3	4	5	6	7	8	9	10	11	12
1	Sub-surface Exploration: Core Drilling (468 m)												

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Agenda 98.2.5. Preliminary Exploration for Bauxite and associated critical minerals in Nandrukh Block, Sindhudurg, District, Maharashtra (Proposal ID: ME/DD/G3/CT/26-27/063)
[Implementing Agency: GSI, Central Region (CR)]

- a. The proposed block falls in SOI TS No. 47H/8 & 47H/12 and geologically, the area represents four distinct litho units. These include metasedimentary rocks of Dharwar Supergroup, sedimentary rocks of Kaladgi Supergroup, basalts of Purandargarh Formation belonging to Sahyadri Group of Deccan Trap Supergroup and laterites of Cenozoic age. Most of the laterites have developed over the Deccan basalts as capping. In the area bauxite occur as lensoidal and patchy capping over the aluminous laterite.
- b. During FS 2024–25, reconnaissance surveys in the Anganewadi area involved systematic collection of bedrock, pit/trench, and channel samples, along with REE, reactive silica, XRD, petrological, and ore microscopy studies.
- c. Analytical results indicated the presence of 36 bauxite samples and 63 aluminous laterite samples, based on the Ministry of Mines threshold criteria of $\text{Al}_2\text{O}_3 \geq 30\%$ and $\text{SiO}_2 \leq 7\%$ for bauxite, and $\text{Al}_2\text{O}_3 \geq 20\%$ for aluminous laterite.
- d. Bauxite samples recorded Al_2O_3 values of 36.67–53.83% (avg. 46.77%), with associated enrichment of TiO_2 (up to 4.72%), Ga (up to 82 ppm), and V (up to 1,818 ppm), while aluminous laterite samples showed Al_2O_3 values of 20.8–53.10% (avg. 38.6%) with comparable TiO_2 , Ga, and V contents.
- e. Of the 50 pit and trench samples, 23 were classified as bauxite, recording Al_2O_3 values of 34.17–58.68% (avg. 51.30%), TiO_2 values of 2.37–4.52% (avg. 3.06%), Ga values of 61–77 ppm, and V values of 171–2,288 ppm, indicating significant enrichment of critical minerals.
- f. Based on the encouraging geochemical results, an area of 25.93 sq. km (Nandrukh Block) has been delineated as prospective for bauxite and associated critical minerals.
- g. In the Nandrukh Block, bauxite-grade bedrock and pit/trench samples recorded Al_2O_3 values of 36.67–51.34% and 48.41–50.15%, respectively, along with significant enrichment of TiO_2 (up to 3.93%), Ga (up to 82 ppm), and V (up to 1,818 ppm), indicating favourable potential for bauxite and associated critical minerals.
- h. In view of the encouraging results from the Anganewadi area, G3 exploration is proposed in Nandrukh Block, for assessment of bauxite and associated critical mineral resource.
- i. The project was approved in 65th meeting of CGPB.
- j. The proposal envisages a cumulative drilling target of 500 m in 35 boreholes with depth varying between 15-20 m for each BH.
- k. The committee deliberated the proposal and recommended for approval of PSC, NMEDT for funding of outsourced components of the proposal.

Recommendations of TCC-1:

The committee recommended the proposal titled “Preliminary Exploration for Bauxite and Associated Critical Mineral in Nandrukh Block, Sindhudurg, District, Maharashtra” for approval of PSC, NMEDT with an estimated cost of Rs. 32.45 lakhs (including GST) within time schedule till 31.03.2027 for carrying out the proposed


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work and submission of report as per Annexure – 12A & 12B. The item will be reviewed after 3, 6 and 9 months.


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Annexure 12A

Preliminary Exploration for Bauxite and Associated Critical Mineral in Nandruk Block, Sindhudurg, District, Maharashtra.

		Drilling	500 m	35 Vertical boreholes with 15/20 m depth for each borehole			
In case of outsourced							
Item of Work	Unit	SoC- Item -SI No. NMEDT	Rates as per NMET SoC 2025	Estimated Cost			
				Qty.	Total Amount (Rs)		
D. Drilling - OUT SOURCED							
Drilling in/ Drilling in Soft rock/ Strata: HQ size borehole upto 400m Depth and NQ Size beyond 400m depth in case of NQ size drilling is done before 400m depth, the rate shall decrease by 20%	m	2.2.1.1c	5,500.00	500	₹ 2,750,000.00		
Total Cost D- outsourced					₹ 2,750,000.00		
Total (Drilling)					₹ 2,750,000.00		
GST 18%					₹ 495,000.00		
Total Fund Required inclusive of 18% GST					₹ 3,245,000.00		
					Lakh	32.45	
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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Time Schedule/ Action Plan for Preliminary Exploration for Bauxite and Associated Critical Mineral in Nandrukh Block, Sindhudurg, District, Maharashtra

S. No.	Activities	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Jan-27	Feb-27	Mar-27
		1	2	3	4	5	6	7	8	9	10	11	12
1	Sub-surface Exploration: Core Drilling (500 m)												

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Agenda 98.2.6. Preliminary Exploration for Bauxite, Aluminous Laterite and associated critical minerals in Salel Block, Sindhudurg, District, Maharashtra

(Proposal ID: ME/DD/G3/CT/26-27/066)

[Implementing Agency: GSI, Central Region (CR)]

- a. The proposed block falls in SOI TS No. 47H/12 and geologically, the area exposes sandstones of Badami Group of Kaladgi Supergroup, basalts of Deccan Trap, laterite and/or aluminous laterite and bauxite within laterite cappings. More than 90% of the area is covered by laterite cappings.
- b. GSI informed that during FS 2024–25, a critical mineral mapping study covering about 20 sq. km in the Chauke Block identified laterite-capped basalt and sandstone terrain, with laterite profiles 16–20 m thick comprising ferruginous laterite, aluminous laterite, and bauxite, indicating favourable conditions for critical mineral enrichment.
- c. Geochemical analyses recorded Al_2O_3 values of up to 48.56% in bedrock samples, 54.42% in pit/trench samples, and 54.11% in groove samples. Several samples met bauxite-grade criteria, with associated enrichment of Cr (up to 1,778 ppm), Ga (up to 84 ppm), Ni (up to 161 ppm), and V (up to 1,804 ppm), indicating potential for bauxite and associated critical mineral mineralization.
- d. Based on encouraging outcome of Chauke block (CMAP, FS: 2024-25), GSI has proposed the Salel G3 block as a seamless upgradation to assess the potentiality of Bauxite, Aluminous Laterite and associated Critical Minerals.
- e. The project was approved in 65th meeting of CGPB.
- f. The proposal envisages a cumulative drilling target of 500 m in 35 boreholes with depth varying between 15-20 m for each BH.
- g. The committee deliberated the proposal and recommended for approval of PSC, NMEDT for funding of outsourced components of the proposal.

Recommendations of TCC-1:

The committee recommended the proposal titled “Preliminary Exploration for Bauxite, Aluminous Laterite and Associated Critical Minerals in Salel Block, Sindhudurg District, Maharashtra” for approval of PSC, NMEDT with an estimated cost of Rs. 27.91 lakhs (including GST) within time schedule till 31.03.2027 for carrying out the proposed work and submission of report as per Annexure – 13A & 13B. The item will be reviewed after 3, 6 and 9 months.


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Preliminary Exploration for Bauxite, Aluminous Laterite and Associated Critical Minerals in Salel Block, Sindhudurg District, Maharashtra (G3)

1		Drilling	430 m	28 Vertical boreholes				
Item of Work	Unit	SoC-Item -SI No. NMEDT	Rates as per NMET SoC 2025	Estimated Cost		Remarks		
				Qty.	Total Amount (Rs)			
D. Drilling - OUT SOURCED								
DRILLING	Drilling in/ Drilling in Soft rock/ Strata: HQ size borehole upto 400m Depth and NQ Size beyond 400m depth in case of NQ size drilling is done before 400m depth, the rate shall decrease by 20%	m	2.2.1.1c	5,500.00	430	₹ 2,365,000.00		
Total Cost D- outsourced						₹ 2,365,000.00		
Total (Drilling)						₹ 2,365,000.00		
GST 18%						₹ 425,700.00		
Total Fund Required inclusive of 18% GST						₹ 2,790,700.00		
						27.91	In Lakh	
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 excusion of the project by NEA on its own, a Certifiante 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 13B

Time Schedule/ Action Plan for Preliminary Exploration for Bauxite, Aluminous Laterite and Associated Critical Minerals in Salel Block, Sindhudurg District, Maharashtra Stage G3 stage

S.No.	Activities	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Jan-27	Feb-27	Mar-27
		1	2	3	4	5	6	7	8	9	10	11	12
1	Sub-surface Exploration: Core Drilling (430 m)												

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**Agenda 98.2.7. Preliminary Exploration for Phosphorite and associated mineralization in Tumgaon- Bhorong Block, Mahasamund District, Chhattisgarh
(Proposal ID: ME/DD/G3/CT/26-27/068)
[Implementing Agency: GSI, Central Region (CR)]**

- a. The proposed block falls in SOI TS No. 64K/4. Rock exposures in the proposed area mainly belongs to Charmuria formation (Raipur Group) of Chhattisgarh Supergroup and the sandstone units belongs to Chandarpur Group of Chhattisgarh Supergroup of meso-neo-Proterozoic age.
- b. In Chhattisgarh basin, many of the blocks have been explored at various UNFC stage to establish the resource of phosphorite and associated mineralization.
- c. Previous exploration in adjoining blocks (Raipura and Semhardih) established phosphorite resources of up to 5.98 MT and limestone resources of up to 428.89 MT, demonstrating the phosphorite–limestone potential of the region.
- d. G4-stage investigations in the Khaira–Nawagaon and Latabor–Dewinawagaon areas delineated substantial resources of phosphorite, cement-grade and beneficiable limestone, glauconitic sandstone (up to 345.78 MT at ~5.5% K₂O), and vanadium-bearing aluminous laterite (540.80 MT at ~700 ppm V₂O₅).
- e. The cumulative exploration results from the adjoining blocks indicate a favourable geological setting with significant potential for phosphorite, limestone, glauconitic sandstone (potash), and associated critical minerals.
- f. Drilling in the Parsadih–Bhorong area intersected a 4 m thick phosphatic clay horizon averaging 6.43% P₂O₅, along with 6.0 m and 6.15 m thick glauconite-bearing sandstone/siltstone horizons averaging 5.71% and 6.18% K₂O, respectively, indicating phosphorite and potash potential.
- g. GSI informed that G3 level exploration in Tumgaon-Bhorong block is proposed to check the subsurface potentiality and to estimate the resource of phosphorite and associated mineralization.
- h. The project was approved in 65th meeting of CGPB.
- i. The proposal envisages a cumulative drilling target of 660 m in 11 boreholes with average depth 60±10 m for each BH.
- j. The committee deliberated the proposal and recommended for approval of PSC, NMEDT for funding of outsourced components of the proposal.

Recommendations of TCC-1:

The committee recommended the proposal titled “Preliminary exploration for Phosphorite and associated mineralization in Tumgaon-Bhorong block, Mahasamund District, Chhattisgarh (G3)” for approval of PSC, NMEDT with an estimated cost of Rs. 42.83 lakhs (including GST) within time schedule till 31.03.2027 for carrying out the proposed work and submission of report as per Annexure – 14A & 14B. The item will be reviewed after 3, 6 and 9 months.


26.06.26


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Preliminary exploration for Phosphorite and associated mineralization in Tumgaon-Bhoring block, Mahasamund District, Chhattisgarh (G3)							
	Drilling	660 m	11 Boreholes with 60m depth for each borehole				
Item of Work	Unit	SoC-Item -SI No. NMEDT	Rates as per NMET SoC 2025	Estimated Cost		Remarks	
				Qty.	Total Amount (Rs)		
D. Drilling - OUT SOURCED							
Drilling in/ Drilling in Soft rock/ Strata: HQ size borehole upto 400m Depth and NQ Size beyond 400m depth in case of NQ size drilling is done before 400m depth, the rate shall decrease by 20%	m	2.2.1.1c	5,500.00	660	₹ 3,630,000.00		
Total Cost D- outsourced					₹ 3,630,000.00		
Total (Drilling)					₹ 3,630,000.00		
GST 18%					₹ 653,400.00		
Total Fund Required inclusive of 18% GST					₹ 4,283,400.00		
					₹ 42.83	In Lakh	
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

Time Schedule/ Action Plan for Preliminary exploration for Phosphorite and associated mineralization in Tumgaon-Bhoring block, Mahasamund District, Chhattisgarh. Stage 3)

S.No.	Activities	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Jan-27	Feb-27	Mar-27
		1	2	3	4	5	6	7	8	9	10	11	12
1	Sub-surface Exploration: Core Drilling (660 m)												

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Agenda 98.2.8. Preliminary Exploration for Lithium and associated mineralization in Tukupakhna Block, Jashpur District, Chhattisgarh

[Implementing Agency: GSI, Central Region (CR)]

- a. The proposed block falls in SOI TS No. 64N/10. The present area of exploration occupies the western part of Chhotanagpur Gneissic Complex (CGC) and constitute the eastern sector of the CITZ. The area is bounded by two shear zones viz. GTSZ and CISZ. Granodiorite constitute the major lithology of the area with minor Gabbro and Chlorite-schist bodies intervened with mineralized pegmatite bodies and quartz veins.
- b. During FS 2022–23, G4-stage investigation in the Mirzapur area reported lithium values ranging from 2,100 ppm to 2,400 ppm from pegmatite–aplite vein bedrock samples, indicating lithium mineralization potential.
- c. During FS 2024–25, Mishra and Badapanda carried out a G4-stage reconnaissance survey for lithium, REE, and associated mineralization in the Chaurama–Shekharpur area, identifying 27 rare-element (REL) Li-type pegmatite bodies in the Raghunathpur–Tukupakhna–Diwanpur sector.
- d. The identified pegmatite dykes and lenses intrude NNE–SSW trending joint planes within granodiorite and gabbro host rocks, with thicknesses ranging from 0.15 m to 2 m and strike lengths varying from 5 m to 230 m.
- e. Exploration delineated a mineralized zone of approximately 3 km × 1 km, exhibiting significant lithium, cesium, rubidium, and tantalum values in both bedrock and channel samples.
- f. Based on the encouraging results, GSI proposed a G3-stage preliminary exploration programme in the Tukupakhna Block to assess the subsurface continuity of pegmatite bodies and estimate lithium and associated rare-metal resources.
- g. The project was approved in 65th meeting of CGPB.
- h. The proposal envisages a cumulative drilling target of 700 m in 15 boreholes.
- i. The committee deliberated the proposal and recommended for approval of PSC, NMEDT for funding of outsourced components of the proposal.

Recommendations of TCC-1:

The committee recommended the proposal titled “Preliminary exploration for Lithium and associated mineralization in Tukupakhna Block, Jashpur District, Chhattisgarh (G3)” for approval of PSC, NMEDT with an estimated cost of Rs. 82.60 lakhs (including GST) within time schedule till 31.03.2027 for carrying out the proposed work and submission of report as per Annexure – 15A & 15B. The item will be reviewed after 3, 6 and 9 months.

 26.06.26

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Preliminary exploration for Lithium and associated mineralization in Tukupakhna Block, Jashpur District, Chhattisgarh (G3)							
1	Drilling	700 m	15 Vertical boreholes. Host Rock: Pegmatites				
Item of Work	Unit	SoC-Item -SI No. NMEDT	Rates as per NMET SoC 2025	Estimated Cost		Remarks	
				Qty.	Total Amount (Rs)		
Drilling - OUT SOURCED							
	Drilling in/ Drilling in Hard rock/ Strata: HQ size borehole upto 400m Depth and NQ Size beyond 400m depth in case of NQ size drilling is done before 400m depth, the rate shall decrease by 20%	m	2.2.1.1d	10,000.00	700	₹ 7,000,000.00	
Total Cost D- outsourced						₹ 7,000,000.00	
Total (Drilling)						₹ 7,000,000.00	
GST 18%						₹ 1,260,000.00	
Total Fund Required inclusive of 18% GST						₹ 8,260,000.00	
						82.60	In Lakh
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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Time Schedule/ Action Plan for Preliminary exploration for Lithium and associated mineralization in Tukupakhna Block, Jashpur District, Chhattisgarh. (STAGE G-3)

S.No.	Activities	Apr-26	May-26	Jun-26	Jul-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26	Jan-27	Feb-27	Mar-27
		1	2	3	4	5	6	7	8	9	10	11	12
1	Sub-surface Exploration: Core Drilling (700 m)												

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26/06/26

Agenda 98.3: Project Evaluation for In-Principle Approval

Agenda 98.3.1. Reconnaissance Survey (G4) for Magnetite, REE and associated Critical Minerals in Kharadih area, District: Jajpur, Odisha

(Proposal ID: ME/IN/G4/OD/P/26-27/062)

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

- a. The proposed block falls within Survey of India Toposheet No. 73H/13 and is located in the contact zone between the Singhbhum Craton (SC) and the Eastern Ghats Mobile Belt (EGMB).
- b. The area comprises silici-clastic sediments, metavolcanic rocks, metamorphosed ultramafic rocks, banded black chert, banded cherty quartzite, and arenaceous to argillaceous phyllites forming the basal sequence.
- c. The area comprises Banded Iron Formation (BIF) units of the Singhbhum Craton, represented by BHQ/BMQ, BHJ, and banded cherts, while granulite facies rocks of the Eastern Ghats Supergroup are represented by khondalites, charnockites, and leptynites.
- d. GSI carried out Regional Mineral Targeting (FS 2021–23) in the Telkoi Valley–Mankarchua sector for greenstone-hosted gold, conglomerate-hosted gold, and REE mineralization. The EGMB–Iron Ore Craton contact zone is characterized by intense brecciation, silicification, migmatization, and intrusive bodies including gabbro, granophyre/microgranite, pyroxinite, and ultramafics, indicating potential for REE mineralization.
- e. Abandoned iron ore quarries near Kharadih indicate iron mineralization associated with ferruginous quartzite and magnetite-rich gabbro, with Fe values ranging from 53.05% to 59.76%. The region is also known for nickel and cobalt enrichment within laterite caps developed over ultramafic rocks of the Sukinda Belt.
- f. Based on the geological evidence, the agency proposed a G4-stage exploration programme comprising large-scale geological mapping (1:12500), geochemical sampling, pitting/trenching, and exploratory drilling. Preliminary fieldwork yielded 13 samples with Fe(T) values ranging from 27.62% to 68.83% and TREE values ranging from 21.67 to 491.88 ppm, with one sample recording 1041.12 ppm.
- g. GSI in its comments stated that the proposed block overlaps with several ongoing/completed GSI exploration projects, resulting in duplication of exploration efforts and reducing the justification for a separate G4-stage investigation.
- h. The REE potential cited by the agency is primarily associated with ultramafic/ultrabasic rock units, which are not considered favourable host rocks for significant REE mineralization in the present geological context; therefore, the rationale for proposing the block is not adequately substantiated.
- i. The Committee reviewed the proposal and observed that a part of the proposed area overlaps with ongoing/completed GSI projects.
- j. The Committee further noted that the agency had not presented sufficient geological data or adequate justification to establish the mineral potential of the area and, therefore, did not support taking up the project in its present form.


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Sl. No.	Agency	Brief Comments
1	GSI	The proposed block overlaps with several GSI projects. Besides, REE potential has been identified in the areas dominated by ultramafic/ultrabasic rocks which is not acceptable. Besides no information has been provided regarding previous work on REE or any critical mineralisation in the proposed area. In view of the above observations the block is not recommended for exploration of REE and other critical minerals.
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	Part area of the proposed block is covered by DoMG during F.S 1986-87 at G-4 stage through geological mapping on 1:25000 scale. It is also observed that a small portion on the north-west side of the proposed area overlaps with the Girmagomali-Madhuban block explored by Geological Survey of India under F.S. 2025-26 and a small portion on the east side of the proposed area overlaps with the Dangadi block, for which NOC has already been issued.
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 did not approve the proposal as the agency failed to present sufficient geological data and convincing justification to establish the mineral potential of the area and warrant undertaking the project.

Agenda 98.3.2. Reconnaissance Survey (G4 stage) for Vanadium, Titanium Bearing Aluminous Laterite in Mandwa Block (75 sq.km), Chandrapur District, Maharashtra.

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

- The proposed block falls within Survey of India Toposheet No. 56M/2 and is characterized by limestone and shale of the Penganga Group, overlain by Deccan Trap basalt flows.
- Laterite capping developed over the basalt flows is reported from the area, indicating significant weathering and surface alteration.
- Previous GSI mapping (FS 1964-65 and 1965-68) over an area of about 516 sq. km identified several bauxite occurrences associated with laterite cappings, with laterite thickness varying from 5 m to 45 m. Chip samples from laterite analysed Al_2O_3 values ranging from 25.52% to 57.12% and TiO_2 from 3.34% to 7.09%.
- The proposed block lies adjacent to an ongoing GSI reconnaissance survey for aluminous laterite and associated mineralization in the Sengaon-Nagarla area. Preliminary sampling by the agency (4 samples) returned Al_2O_3 values of 20.49-

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25.37%, TiO₂ of 2.20–3.54%, V₂O₅ of 500–1900 ppm, Scandium of 16.27–49.75 ppm, and Gallium of 23.69–49.12 ppm within the laterite cover.

- e. Based on the available geological evidence and encouraging geochemical results, the agency has proposed the block for G4-stage exploration to evaluate its mineral potential.
- f. The proposed work programme includes large-scale geological mapping (1:12500 scale), bedrock and geochemical sampling, pitting/trenching, and exploratory drilling to assess the mineralization under the UNFC G4 category.
- g. The Committee reviewed the proposal and observed that a small portion of the southern part of the proposed block overlaps with the buffer zone of an existing G4 General Minerals (GM) block.
- h. The Committee further noted that the laterite occurrences within the proposed area are patchy and isolated in nature, and the reported vanadium and TiO₂ values are not sufficiently encouraging to justify a separate G4-stage exploration programme.

Sl. No.	Agency	Brief Comments
1	GSI	No reconnaissance/exploration work has been carried out by GSI in the proposed area. The block has been proposed based on TiO ₂ values reported during geological mapping (FS 1964–65), where laterite capping over Deccan basalts yielded TiO ₂ values ranging from 3.34% to 7.09% and Al ₂ O ₃ values from 25.52% to 57.12%.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	NA
4	State DMG/DGM/CGM	Awaited
5	NMEDT	The proposed block do not overlap with NMEDT funded projects.

Recommendations of TCC-1:

The Committee did not consider the proposal, as the proposed area comprises patchy and isolated laterite pockets with limited lateral continuity, and the reported vanadium and TiO₂ values are not sufficiently encouraging to justify undertaking a G4-stage exploration programme.

Agenda 98.3.3. Reconnaissance Survey (G4) for Limestone in Bundu area, Hazaribagh District, Jharkhand (Proposal ID: ME/IN/G4/JH/P/26-27/055)

[Implementing Agency: M/s Unised Research Consultants Private Ltd.]

- a. The proposed block falls within Survey of India Toposheet No. 73E/6 and is underlain by metamorphic rocks of the Chotanagpur Gneissic Complex, intruded by dolerite dykes and overlain in parts by Gondwana Supergroup formations.
- b. Occurrences of limestone, predominantly crystalline limestone and calcareous schists, have been reported near Bundu–Basaria and Kurkula–Raligara, where limestone exposures are observed.

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- c. GSI carried out a G4-stage investigation for flux-grade limestone in the Mandu area of Hazaribagh district during FS 1960–61, delineating limestone occurrences over an area of about 13 sq. km near Bundu–Basaria, Banskudra, Suiyadih, and Tongi villages.
- d. Subsequent investigations by GSI during FS 1967–68 estimated approximately 3 million tonnes of limestone resources through selective sampling, including about 0.16 million tonnes of flux-grade limestone in the Benti area and about 1 million tonnes of non-flux-grade limestone in the Benti and Bicha areas.
- e. Based on the available geological evidence and reported limestone occurrences, the agency proposed the block for G4-stage exploration to assess its limestone potential.
- f. The proposed programme includes regional-scale reconnaissance through geological mapping, remote sensing studies, and limited geochemical sampling to identify favourable limestone-bearing zones for follow-up G3/G2 stage exploration.
- g. The Committee reviewed the proposal and was informed by representative of DGM, Jharkhand present in meeting, that exploration up to the G2 stage had already been carried out in the proposed Bundu and Khelari limestone blocks.
- h. DGM, Jharkhand further stated that the blocks could not be auctioned due to the highly siliceous nature of the limestone.
- i. The comments from DGM Jharkhand also received which stated that the area has already been explored on G4 level.
- j. Accordingly, the Committee did not approve the proposal.

Sl. No.	Agency	Brief Comments
1	GSI	GSI has previously completed limestone exploration in this area. Consequently, GSI is not currently conducting or planning any exploration activities within or adjacent to the proposed NMET limestone 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 block is already explored by DMG Jharkhand on G4 Level.
5	NMEDT	Proposed block overlaps with already G4 explored area for Limestone. 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 did not approve the proposal, as the proposed block has already been explored by the State Directorate of Geology and Mining (DGM) up to the G4 stage, and therefore undertaking a fresh G4-stage investigation would result in duplication of exploration efforts.

Agenda 98.3.4. Reconnaissance Survey (G4) for Aluminiferous Laterite/Bauxite and Vanadium in Gumla District, Jharkhand (Proposal ID: ME/IN/G4/JH/P/26-27/054)

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[Implementing Agency: M/s Unised Research Consultants Private Ltd.]

- a. The proposed block falls within Survey of India Toposheet No. 73A/7 and is underlain by rocks of the Singhbhum Group, represented by the Chaibasa and Dalbhum Formations, with laterite and bauxite cappings developed over the Rajmahal Trap basalts.
- b. GSI carried out investigations for bauxite in the Lohardaga area during FS 1961–62, involving detailed geological mapping, drilling, and pitting. The study delineated good-quality bauxite deposits containing 50–60% Al₂O₃ in major plateau areas such as Bagru Pat, Mandua Pat, Pakhar Pat, and Kondle Pat.
- c. MECL carried out detailed exploration for bauxite in the Serangdag (West) block, Gumla district, during FS 2005–06 and reported bauxite mineralization occurring as irregular and discontinuous lenses, with small pockets and bouldery characteristics.
- d. Based on the available geological evidence, the agency proposed the block for G4-stage exploration to undertake regional-scale reconnaissance through geological mapping, remote sensing, and limited geochemical sampling for identification of favourable bauxite-bearing zones for subsequent G3/G2 stage exploration.
- e. The Committee reviewed the proposal and observed that GSI is currently undertaking exploration in the area under the CMAP programme during FS 2026–27.
- f. Since the entire proposed block overlaps with the ongoing GSI exploration area, the Committee did not consider the proposal to avoid duplication of exploration efforts.

Sl. No.	Agency	Brief Comments
1	GSI	NMET proposal block is almost 100% overlapping with current CGPB approved CMAP item of SU:Jharkhand, 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 overlaps with already G4 explored blocks of Bauxite by various agencies. The area also overlaps with GSI ongoing 2026-27 exploration block for Critical Minerals (CMAP). 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 did not approve the proposal, as GSI is currently executing exploration activities in the area under the CMAP programme during FS 2026–27, and the entire proposed block overlaps with the ongoing GSI project area, resulting in duplication of exploration efforts.

**Agenda 98.3.5. Reconnaissance Survey (G4) for Limestone in Khelari Area, Silli Tehsil, Ranchi District, Jharkhand
(Proposal ID: ME/IN/G4/JH/P/26-27/047)**

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[Implementing Agency: M/s Unised Research Consultants Private Ltd.]

- a. The proposed block falls within Survey of India Toposheet Nos. 73E/02 and 73A/14 and is underlain by metamorphic rocks of the Chottanagpur Gneissic Complex.
- b. The area also comprises dolerite dykes and sedimentary formations of the Gondwana Supergroup, reflecting a diverse geological setting with potential for mineral exploration.
- c. Occurrences of limestone, predominantly crystalline limestone and calcareous schist, have been reported near the Babhna Hoyar–Khelari area, indicating the presence of limestone-bearing horizons within the proposed block.
- d. The area hosts the Khelari Cement Plant (established in 1938), which utilizes limestone from nearby deposits. In addition, DGM, Jharkhand, under a collaborative project during FS 2011–12, identified several prospective limestone-bearing zones using remote sensing techniques (1:50000 and 1:25000 scales) based on ASTER data analysis.
- e. The remote sensing study identified several limestone-bearing zones, which were recommended for detailed investigation to evaluate their extent, quality, and mineral potential.
- f. Based on these findings, the agency proposed a G4-stage exploration programme comprising regional geological mapping, remote sensing, and limited geochemical sampling to delineate favourable limestone-bearing zones for follow-up G3/G2 stage exploration.
- g. The Committee reviewed the proposal and was informed by DGM, Jharkhand that exploration up to the G2 stage had already been completed in the proposed Bundu and Khelari limestone blocks.
- h. Representative, DGM, Jharkhand further reported that the blocks could not be auctioned till now due to the highly siliceous nature of the limestone.
- i. The Committee did not approve the proposal based on the comments received from DGM, Jharkhand, which indicated that the limestone occurrences in the proposed area had already been investigated and were not considered suitable for further exploration.

SI. No.	Agency	Brief Comments
1	GSI	Presently, GSI is not working on any kind of exploration activities in the proposed NMET block.
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 radioactive zone was delineated.
4	State DMG/DGM/CGM	The proposed block overlaps with the previously explored area. Further the area overlaps with G3 and G2 blocks which has been proposed by State Government for auction.
5	NMEDT	The proposed block overlaps with the existing Mining lease of Limestone. The proposed block do not overlap with NMEDT funded projects, however a some portion fall in Recorded Forest Area.

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Recommendations of TCC-1:

The Committee did not approve the proposal based on the comments received from DGM, Jharkhand, which indicated that the limestone occurrences in the proposed area had already been investigated and were not considered suitable for further exploration.

Agenda 98.3.6. Preliminary Exploration (G3) for Iron ore in Hidkpar Block, District- Balod, Chhattisgarh (Proposal ID: ME/IN/G3/CT/P/26-27/060)

[Implementing Agency: M/s My World Consultancy Services Pvt. Ltd.]

- a. The proposed Hidkar Block falls within Survey of India Toposheet Nos. 64D/14 and 64H/02 and is underlain by BHQ and BHJ of the Bailadila Group, representing the Banded Iron Formation (BIF) sequence.
- b. Earlier GSI investigations in the region (FS 1964–65) reported several promising iron ore bodies and estimated about 172.32 million tonnes of iron ore resources, including nearly 150 million tonnes of high-grade ore containing more than 60% Fe.
- c. GSI also carried out preliminary prospecting for gold mineralization in the Dangarh–Chauki area during FS 1996–97, indicating the overall mineral potential of the region.
- d. The agency informed that the proposed Hidkar Block is a virgin area located along the ridge connecting the Mahamaya and Dalli-Rajhara mines. Preliminary field traverses and sampling indicated Fe values ranging from 45% to 60%, suggesting potential for iron ore mineralization.
- e. Based on the encouraging geological setting and reported iron ore occurrences, the agency proposed the Hidkar Block for G3-stage exploration. The proposed exploration programme includes detailed geological mapping, geochemical sampling, and exploratory drilling to assess the mineral potential and estimate iron ore resources under the UNFC G3 category.
- f. The Committee reviewed the proposal and observed that the entire proposed block falls within a protected forest area.
- g. DGM, Chhattisgarh informed the Committee that approximately 95% of the proposed area overlaps with an exploration project being undertaken by DGM, Chhattisgarh during FY 2026–27 and stated that a detailed written communication would be submitted.
- h. The Committee noted that taking up the proposed project would result in substantial duplication of exploration efforts.
- i. In view of the significant overlap with the ongoing State exploration programme, the Committee did not approve the proposal.

SI. No.	Agency	Brief Comments
1	GSI	>100% overlapping found in the proposed Block with GSI previous Prospecting works for Gold of FS 1996-97. The area also falls in protected forest.
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.

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4	State DMG/DGM/CGM	DGM, CG have carried out G4 work previously. Over 95% of the proposed area overlaps with the Angara-Serpar block of DGM for 2026-27
5	NMEDT	The proposed block shows minor overlap with already G3 explored blocks of Iron ore. 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 did not approve the proposal, as approximately 95% of the proposed area overlaps with an exploration project being undertaken by DGM, Chhattisgarh during FY 2026–27.

**Agenda 98.3.7. Preliminary exploration (G3) for Phosphorite (Rock Phosphate) in Devpur–Manakpura Block, Chhatarpur District, Madhya Pradesh
(Proposal ID: - ME/IN/G3/MP/P/26-27/064)**

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

- a. The proposed block falls within Survey of India Toposheet No. 55P/03 and is underlain by sedimentary rocks comprising chert, breccia, and sandstone of the Malehra Chert Breccia Formation (MCBF), overlain by the Bajna Dolomite Formation of the Moli Subgroup belonging to the Bijawar Group.
- b. GSI carried out detailed investigations for phosphorite in the Manakpura area during FS 1987–90, where surface channel sampling delineated encouraging phosphorite mineralization with P₂O₅ values exceeding 20%.
- c. A total of nine boreholes (504.45 m) were drilled; however, only one borehole (MBH/1) at Macheri intersected a 4 m thick phosphorite zone with an average grade of 22.41% P₂O₅ and limited strike continuity (70 m × 70 m), while the remaining boreholes failed to confirm the high-grade surface values.
- d. A G4-stage reconnaissance survey carried out during FS 2022–23 reported phosphorite mineralization occurring as lenses and discontinuous bands, both as massive bodies and within the matrix of ferruginous shale, sandstone, and ferruginous brecciated chert of the Hirapur Formation, Bijawar Group.
- e. Bedrock samples from ferruginous sandstone, shale, and ferruginous chert breccia returned encouraging P₂O₅ values ranging from 2.96% to 28.00%, while pitting/trenching samples assayed 2.77–11.45% P₂O₅ and a PCS sample recorded 30.24% P₂O₅, indicating significant phosphorite mineralization.
- f. In view of the encouraging results, the agency proposed a G3-stage exploration programme comprising detailed geological mapping (1:4000 scale), bedrock and geochemical sampling, pitting/trenching, and exploratory drilling to assess the mineral potential and estimate phosphorite resources under the UNFC G3 category.
- g. The Committee reviewed the proposal and observed that the entire proposed block overlaps with a Geological Survey of India (GSI) Field Season Programme (FSP) scheduled for 2026–27.
- h. In view of the complete overlap with the proposed GSI exploration programme and to avoid duplication of exploration efforts, the Committee did not consider the proposal.

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Sl. No.	Agency	Brief Comments
1	GSI	The proposed NMET Devpur-Manakpura Phosphorite G-3 block is fully overlapping with GSI proposed Devpura-Manakpura G-3 block vide item no. M2ASMIF-MEP/NC/CR/SU-MP-BHO/2026/202273 for FS 2026-27. The item has been discussed in Internal peer review and is approved by the IPR Committee and is mentioned in Yellow book.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	NA
4	State DMG/DGM/CGM	Awaited
5	NMEDT	Proposed block show overlapping with G3 exploration block for Phosphorite. 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 did not approve the proposal as the proposed area completely overlaps with GSI's Field Season Programme (FSP) for 2026–27.

**Agenda 98.3.8. Preliminary Exploration (G3) for Vanadium and Titanium in Magnetite bearing Dune sands between Nava Rajpara and Nikol (Mahuva Block) in Bhavnagar District, Gujarat.
(Proposal ID: ME/IN/G3/GJ/P/26-27/026)**

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

- The proposed block falls within Survey of India Toposheet Nos. 46C/4 and 41O/16 along the Saurashtra coast of Gujarat.
- M/s Geo Marine Solutions Pvt. Ltd. carried out a G4-stage reconnaissance survey for vanadium and titanium in magnetite-bearing beach and dune sands within the proposed area.
- During the first phase of investigation, approximately 400 km of coastline was surveyed and 29 hand-auger samples, each up to 1.0 m depth, were collected at 1 km intervals within the proposed block.
- In addition, two auger boreholes with a core length of 5.0 m each were drilled and sampled to assess the subsurface distribution of heavy mineral-bearing sands.
- Geochemical analysis of auger samples returned encouraging values of V_2O_5 (0.07–0.67%; avg. 0.21%), TiO_2 (2.95–26.55%; avg. 7.56%), and Fe_2O_3 (11.10–63.08%; avg. 24.94%), indicating enrichment of vanadium- and titanium-bearing heavy minerals.
- Two 5 m deep auger boreholes intersected economic heavy mineral concentrations averaging 10.43–11.96%, with associated V_2O_5 values of 0.16–0.22%, TiO_2 values of 6.61–8.84%, and Fe_2O_3 values of 22.49–26.75%.
- Based on the encouraging heavy mineral, vanadium, and titanium values, the agency proposed the block for G3-stage exploration to evaluate its mineral potential.

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- h. The proposed programme includes systematic topographical survey, detailed geological mapping, and closer-spaced auger sampling on a 400 m × 200 m grid for resource assessment under the UNFC G3 category.
- i. The Committee reviewed the proposal and observed that the proposed block overlaps with the Coastal Regulation Zone (CRZ), requiring clarity on the applicable regulatory provisions and permissibility of exploration activities within the CRZ area.
- j. The Committee advised the agency to furnish details regarding the exploration methodology and the statutory permissions/clearances required for undertaking exploration activities within the CRZ before further consideration of the proposal.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed block is overlap by 25 sq km area of earlier exploration block carried out by GSI. However, no analytical data available for Vanadium, Titanium bearing Magnetite other associated minerals within this area. Since no baseline or exploration data is available for the proposed area, it is difficult to ascertain the feasibility of the block for G3 stage exploration. Proposed block contains 11 nos. dunes = 5.08 sq km.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	NA
4	State DMG/DGM/CGM	The proposed block overlaps with Sand Dunes present in the area.
5	NMEDT	The proposed block is overlapping with the Existing Major & Minor Mining Leases (ML). The proposed block lies in Coastal Regulatory Zone. The proposed block do not overlap with NMEDT funded projects.

Recommendations of TCC-1:

The Committee deferred the proposal as the proposed block overlaps with the Coastal Regulation Zone (CRZ), and clarity is required regarding the applicable CRZ regulations and the permissibility of exploration activities within the area.

**Agenda 98.3.9. Reconnaissance survey (G4) for vanadium and titanium in magnetite bearing sand in the beach/dune sands along the periphery of Gulf of Khambhat coast, from Gogha to Ambla, Bhavnagar district, Gujarat (Bhavnagar block)
(Proposal ID: - ME/IN/G4/GJ/P/26-27/048)**

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

- a. The proposed block falls within Survey of India Toposheet Nos. 46C/2, 46C/3, 46C/4, 46C/6, and 46C/7 along the Saurashtra coast of Gujarat.
- b. M/s Geo Marine Solutions Pvt. Ltd. carried out a G4-stage reconnaissance survey for vanadium and titanium in magnetite-bearing sands occurring within the beach and dune environments of the Saurashtra coastline.
- c. During the G4-stage exploration, the investigation area was divided into six sectors, of which Sectors 1, 2, and 3, along with the coastal stretch between Gopnath and

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Veraval near the Gulf of Khambhat, were identified as highly prospective for vanadium- and titanium-bearing heavy mineral sands.

- d. Drilling in 11 boreholes within these prospective zones established the continuity of mineralization up to at least 5 m depth, with grades comparable to surface samples, and most subsurface samples returning V_2O_5 values exceeding 0.1%.
- e. Based on the encouraging results of the reconnaissance survey, the agency has proposed the block for G4-stage exploration to further evaluate the potential of vanadium- and titanium-bearing heavy mineral sands.
- f. The proposed work programme includes detailed geological mapping, collection of 93 surface auger samples (up to 1 m depth), and deeper auger sampling up to 5 m depth to assess the mineral potential under the UNFC G4 category.
- g. The Committee reviewed the proposal and observed that the proposed block overlaps with the Coastal Regulation Zone (CRZ), requiring clarity on the applicable regulatory provisions and permissibility of exploration activities within the CRZ area.
- h. The Committee advised the agency to furnish details regarding the exploration methodology and the statutory permissions/clearances required for undertaking exploration activities within the CRZ before further consideration of the proposal.

Sl. No.	Agency	Brief Comments
1	GSI	The part of the proposed block is overlap by 2 earlier exploration block carried out by GSI. However, no analytical data available for Vanadium, Titanium bearing Magnetite other associated minerals within this area. Since no baseline or exploration data is available for the proposed area, it is difficult to ascertain the feasibility of the block for G4 stage exploration.
2	MECL	The proposed block has no overlapping with the ongoing or completed projects of MECL.
3	AMD	NA
4	State DMG/DGM/CGM	Bhavnagar Block partially overlap with 01 Tertiary Clay block & 02 Bentonite Clay blocks for which NoC is issued to GMRDS/ CGM.
5	NMEDT	Proposed block is overlapping with the Coastal Regulatory Zone. The proposed block do not overlap with NMEDT funded projects.

Recommendations of TCC-1:

The Committee deferred the proposal as the proposed block overlaps with the Coastal Regulation Zone (CRZ), and clarity is required regarding the applicable CRZ regulations and the permissibility of exploration activities within the area.

Agenda 98.3.10. Reconnaissance Survey (G4) for Tin Tantalum and Niobium bearing pegmatites at western periphery of Baster-Koraput pegmatite belt, District- Dantewada, Chhattisgarh (Bachel - Ganjenar Block)

(Proposal ID: ME/IN/G4/CT/P/25-26/003)

[Implementing Agency: M/s Deepsar Mineral Explorer]

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- a. The proposed block falls within Survey of India Toposheet No. 65F/06 and is underlain by Precambrian metasedimentary rocks of the Sukma, Bengpal, and Bailadila Groups, intruded by granitic bodies, pegmatites, and quartz veins.
- b. Regionally, the area forms part of the Bastar–Koraput Pegmatite Belt (BKPB), which is known for tin and rare-metal mineralization, with pegmatites hosting minerals such as cassiterite, columbite-tantalite, beryl, lepidolite, and amblygonite containing Sn, Nb, Ta, Be, and Li.
- c. GSI carried out regional stream sediment surveys for tin and associated rare-metal mineralization during FS 1979–80, covering about 4,200 sq. km in parts of Bastar district. A total of 1,068 stream sediment samples were analyzed, leading to the delineation of several anomalous zones for follow-up exploration.
- d. Further exploration in the Bastar–Koraput Pegmatite Belt was discontinued after FS 1981–82 due to administrative constraints, leaving several prospective targets untested.
- e. DGM, Madhya Pradesh, carried out investigations for tin mineralization in the Padapur area during FS 1990–91 and reported tin mineralization within pegmatites traversing amphibolites and schists. Associated Ta–Nb mineralization was attributed to pneumatolytic processes, evidenced by greisenization and tourmalinization.
- f. Based on the favourable geological setting and historical indications of Sn–Ta–Nb mineralization, the agency proposed a G4-stage exploration programme comprising large-scale geological mapping, bedrock and stream sediment geochemical sampling, pitting, and exploratory drilling to assess the mineral potential under the UNFC G4 category.
- g. The proposal was earlier discussed in the 93rd TCC-I meeting, wherein the Committee observed that the status of auctionable blocks in the proposed area had not been clearly brought out.
- h. The Committee also noted that comments from DGM, Chhattisgarh were not available at the time of consideration, limiting a comprehensive assessment of the proposal.
- i. The Committee reviewed the proposal and noted the submission of DGM, Chhattisgarh that the block coordinates provided by the agency did not match the corresponding KML file, necessitating clarification of the exact project area.
- j. During deliberations, it was clarified that the proposed area corresponds to the block coordinates furnished by the agency, within which existing mining leases for tin, tantalum, and niobium, as well as other mineral concession areas, are present. Accordingly, the Committee deferred the proposal and decided to reconsider it after receipt of detailed information from DGM, Chhattisgarh on existing mining leases and mineral concessions in the proposed block. DGM, Chhattisgarh agreed to furnish the details for consideration in forthcoming TCC-I meeting.

Sl. No.	Agency	Brief Comments
1	GSI	100% overlapping with auctioned block of Barha Bachel.
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.

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4	State DMG/DGM/CGM	The coordinates and kml does not match, hence comments could not be provided.
5	NMEDT	Proposed block show overlapping with G4 exploration block for Tin, Steatite, Soapstone & RM. Mining lease of Tin is present within the proposed block. The proposed block do not overlap with NMEDT funded projects, however some portion fall in Recorded Forest Area.

Recommendations of TCC-1:

The Committee deferred the proposal as existing mining leases for tin, tantalum, and niobium, along with other mineral concession areas, are present within the proposed block and inputs from DGM, Chhattisgarh are required for proper assessment. The proposal will be taken up for review after receipt of detailed information from DGM, Chhattisgarh regarding the existing mining leases and mineral concessions within the proposed area.

**Agenda 98.3.11. Preliminary Exploration (G3) for Base Metals and associated mineralization in Gollapalle Block (Area: 4.12 sq. km.), District-Prakasam, Andhra Pradesh
(Proposal ID: ME/IN/G3/AP/P/26-27/067)**

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

- a. The proposed block falls within Survey of India Toposheet No. 57M/02 and is underlain by slates, argillaceous to calcareous phyllites, quartzites, cherty quartzites, dolomite, and magnetite-bearing horizons of the Cumbum Formation belonging to the Nallamalai Group.
- b. Regionally, the Nallamalai Fold Belt is well known for base metal mineralization, with occurrences reported from the Agnigundala deposit, Markapur Belt, Zangamrajupalle–Varikunta Belt, and Vontimitta Belt, where mineralization is associated with dolomite and quartzite of the Cumbum Formation.
- c. GSI has carried out several investigations for base metal mineralization in the Nallamalai Fold Belt, and recent exploration programmes have identified multiple prospective zones.
- d. Recent G4-stage reconnaissance surveys conducted during FS 2022–23 and FS 2024–25 in the Krishnareddipalle–Nagireddipalli and Ummareddipalle–Rayavaram areas, respectively, further highlighted the potential for base metal and associated mineralization in the region.
- e. Recent investigations have delineated several prospective mineralized zones in the Rayavaram–Ummareddipalle area, characterized by hydrothermal alteration, quartz veining, ferruginization, and sulphide mineralization comprising chalcopyrite, galena, and pyrite.
- f. Geochemical studies have returned encouraging results, including copper values up to 3347 ppm in channel samples and significant Pb–Zn anomalies in bedrock and soil samples. Malachite staining, gossan zones, and old mine workings further support the mineral potential of the area.
- g. The proposed block forms part of the Markapur Belt, where favourable geological conditions and the presence of old pits along minor fold closures indicate potential for base metal mineralization.

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- h. Based on the encouraging geological and geochemical evidence, the agency has proposed a G3-stage exploration programme comprising detailed geological mapping, geochemical sampling, pitting/trenching, ground geophysical surveys, and exploratory drilling to assess the mineral potential under the UNFC G3 category.
- i. The Committee reviewed the proposal and observed that a major part of the proposed block overlaps with GSI's Field Season Programme (FSP) for 2027–28.
- j. In view of the substantial overlap with the proposed GSI exploration programme and to avoid duplication of exploration efforts, the Committee did not consider the proposal.

Sl. No.	Agency	Brief Comments
1	GSI	Approximately 90% of the proposed NPEA block overlaps with the G3 stage exploration block submitted for Internal Peer Review and proposed to be taken up by GSI for the FS 2027-28.
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	There are 02 existing Mining/Quarry Leases over an extent of 73.072 Ha falling within or overlapping with the proposed Gollapalle Copper block.
5	NMEDT	The proposed block is overlapping with the existing Mine Lease for Iron Ore. The proposed block do not overlap with NMEDT funded projects.

Recommendations of TCC-1:

The Committee did not consider the proposal, as a major part of the proposed block overlaps with GSI's Field Season Programme (FSP) for 2027–28, which is currently under process for approval, and undertaking the project would lead to duplication of exploration efforts.

**Agenda 98.3.12. Reconnaissance Survey (G4) for Vanadium bearing Titaniferous Aluminous Laterite in Marpalli area (58 sq. km.), Vikarabad District, Telangana
(Proposal ID: ME/IN/G4/TG/P/26-27/052)**

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

- a. The proposed block falls within Survey of India Toposheet No. 56G/14 and is underlain by Deccan Trap basalts, intertrappean sediments, and lateritic cappings developed over the basaltic rocks. The laterite occurs both as isolated caps and extensive blanket deposits, with thickness ranging from 1 m to 30 m.
- b. GSI carried out G4-stage reconnaissance surveys for aluminous laterite and bauxite during FS 2022–23 and 2023–24, identifying zones enriched in Al_2O_3 , TiO_2 , Fe_2O_3 , and vanadium, with substantial inferred resources of bauxite, aluminous laterite, and vanadium.

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- c. Further investigations under the Critical Mineral Assessment Programme (CMAP) were undertaken in the Patlur Block, Sangareddy and Vikarabad districts, Telangana, during FS 2024–25.
- d. Geochemical analyses of bedrock, core, and petrochemical samples revealed significant enrichment of critical minerals, with Al_2O_3 values up to 33.06%, TiO_2 up to 7.49%, vanadium up to 4,258 ppm, and scandium up to 147 ppm, indicating promising critical mineral potential within the lateritic profile.
- e. GSI (2025) generated geochemical data from laterite occurrences in Toposheet No. 56G/14, reporting Al_2O_3 values up to 33.06% and TiO_2 values up to 5.66%. Trace element analyses revealed enrichment of critical minerals, with gallium up to 50 ppm (avg. 43 ppm), scandium up to 147 ppm (avg. 94 ppm), and vanadium up to 1,939 ppm (avg. 818 ppm).
- f. Based on the encouraging geochemical results and critical mineral potential, the agency proposed a G4-stage exploration programme comprising large-scale geological mapping, geochemical sampling, pitting/trenching, and exploratory drilling to assess the mineral potential under the UNFC G4 category.
- g. The Committee reviewed the proposal and observed that the average Al_2O_3 grade reported from the proposed area is relatively low, varying between 27% and 29% based on the existing exploration data.
- h. The committee did not approve project in-principle. However, the Committee advised the agency that to strengthen the proposal, they may undertake a detailed field visit, collect representative samples, and resubmit the proposal along with analytical results and adequate geological justification to establish the mineral potential of the area.

Sl. No.	Agency	Brief Comments
1	GSI	The exploration carried out in the above mentioned areas/blocks, yielded encouraging values of Al_2O_3 with associated critical minerals like vanadium and Titanium and therefore, the item may be taken up.
2	MECL	The proposed block has no overlapping with the ongoing or completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	Awaited
5	NMEDT	Proposed block's buffer zone is overlapped with the handed Over EL block of Momanpet Block in 2025. The proposed block do not overlap with NMEDT funded projects.

Recommendations of TCC-1:

The committee did not approve project in-principle, as the average Al_2O_3 grade in the proposed area is relatively low, ranging from 27% to 29% based on the existing exploration data, and therefore does not provide sufficient justification for undertaking a separate G4-stage exploration programme.

However, the Committee advised the agency that to strengthen the proposal, they may undertake a detailed field visit, collect representative samples, and

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resubmit the proposal along with analytical results and adequate geological justification to establish the mineral potential of the area.

**Agenda 98.3.13. Preliminary Exploration (G3 Stage) for Basemetal and associated critical, strategic mineralization in Joghron ka Khera area, District-Chittorgarh, Rajasthan
(Proposal ID: ME/IN/G3/RJ/P/26-27/066)**

[Implementing Agency: Critical Mineral Trackers]

- a. The proposed block falls within Survey of India Toposheet No. 45K/12 and is underlain by quartzite, phyllite, schist, dolomite, and banded iron formations of the Bhadesar Formation (Hindoli Group, Bhilwara Supergroup), intruded by Berach Granite and dolerite dykes.
- b. Earlier investigations by DMG Rajasthan (FS 2004–05) reported gold values of 0.1–0.2 g/t, silver values of 2.2–42.2 g/t, and iron content ranging from 33% to 48.75%, indicating polymetallic potential in the area.
- c. GSI and subsequent G4-stage exploration programmes identified anomalous base metal mineralization, with copper values reaching up to 0.70% and bedrock samples returning up to 495 ppm Pb, 375 ppm Zn, 570 ppm Cu, 235 ppm Ni, and 113 ppm Co.
- d. Based on the encouraging geological and geochemical results, the agency proposed a G3-stage exploration programme comprising large-scale geological mapping (1:10000 scale), geochemical sampling, pitting/trenching, and exploratory drilling to assess the mineral potential under the UNFC G3 category.
- e. The Committee reviewed the proposal and observed that approximately 20% of the proposed block overlaps with an Exploration Licence (EL) block that has been identified for auction.
- f. The Committee further noted that the Atomic Minerals Directorate (AMD) has reported uranium mineralization in the area and proposed to undertake follow-up exploration. Accordingly, to avoid overlap and duplication of exploration efforts, the Committee did not consider the proposal.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed G3 stage NPEA block is showing nearly 20% overlap with the exploration license block put up for auction. Therefore, the proposal needs reconsideration to avoid the overlap.
2	MECL	The proposed block by M/s Critical Mineral Trackers has no overlapping with the ongoing or completed blocks of MECL.
3	AMD	AMD has carried out reconnaissance exploration (G-4 stage) in the proposed block for uranium. Radioactive zones were delineated in Joghron ka Khera [dimension 100m x 4m, avg. 0.068% U3O8 (n=3)] and Dadiya [dimension 200m x 2m, avg. 0.047% U3O8 (n=4)] areas. In view of the known potential the proposed block is not recommended .
4	State DMG/DGM/CGM	Consent for exploration for this proposal is given for the area excluding held mining leases, CL, EL blocks (map annexed) and NPEA be advised to obtain necessary

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		permissions/clearances from Forest department, Government of Rajasthan. Parts of this proposal area conflicts with held mining leases, CL, EL blocks, forest. This proposal area falls within 10 km ESZ boundary of Bassi Wildlife Sanctuary
5	NMEDT	One National Highway NH48) of length 4.63km passes through the block with presence of a Toll Booth at its center. Proposed block is overlapping with the block of DMG, Rajasthan for FS: 2026-27, Handed over Exploration License for Copper in Hamirgarh area and 04 Mining Leases for Minor Minerals are present within the block. The proposed block do not overlap with NMEDT funded projects.

Recommendations of TCC-1:

The Committee did not approve the proposal as approximately 20% of the proposed block overlaps with an Exploration Licence (EL) block that has been put up for auction.

AMD has also delineated radioactive zones within the area and, in view of the known uranium potential and reported uranium mineralization, follow-up exploration is proposed to be undertaken by AMD. Accordingly, the proposal was not considered to avoid overlap and duplication of exploration efforts.

Agenda 98.3.14. Reconnaissance Survey (G4) for REE and associated elements in Kalugur area, Karur District, Tamil Nadu (Proposal ID: ME/IN/G4/TN/P/26-27/056)

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

- a. The proposed block falls within Survey of India Toposheet No. 58J/05 and forms part of the Madurai Block of the Southern Granulite Terrain (SGT), bounded to the north by the Palghat–Cauvery Shear Zone. The area is characterized by NE–SW trending calc–granulites with limestone of the Khondalite Group, intruded by pegmatite and granitic veins favourable for REE mineralization.
- b. NGCM investigations (FS 2001–02) identified eight geochemical groups enriched in REE and associated elements. Composite samples from the Kalugur Block returned Σ REE values of 1,047–1,306 ppm, with significant enrichment of LREE (La: 241–314 ppm, Ce: 426–541 ppm, Nd: 184–234 ppm), along with elevated Ba (904–1,318 ppm), Th (100–155 ppm), Sr (346–483 ppm), and Zr (1,570–2,480 ppm), indicating favourable REE potential.
- c. A reconnaissance survey for cement-grade limestone during FS 2019–20 identified four limestone bands with strike lengths of 2.5–6.25 km and outcrop widths of 10–350 m. Geochemical analyses indicated CaO values of 42–50%, MgO of 0.73–1.59%, and SiO₂ of 5.64–14.26%, suggesting favourable limestone quality.
- d. Based on these findings, detailed exploration was recommended to assess the resource potential and depth persistence of the limestone deposits. Accordingly, the agency proposed a G4-stage exploration programme comprising large-scale geological mapping (1:10000 scale), geochemical sampling, pitting/trenching, and exploratory drilling under the UNFC G4 category.

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- e. The agency had earlier presented the in-principle proposal during the 68th and 73rd TCC-I meetings, wherein the Committee advised the agency to obtain clarification from CGM, Tamil Nadu before further consideration.
- f. The proposal was earlier discussed in the 68th and 73rd TCC-I meetings, where it received in-principle approval; however, comments from CGM, Tamil Nadu were awaited.
- g. The Committee reviewed the proposal and observed that most of the proposed area is underlain by hornblende-biotite/quartzo-feldspathic gneiss and crystalline limestone, and that GSI had already carried out G4-stage investigations over a major part of the area during FS 2019–20.
- h. The Committee advised the agency to consult the GSI report of FS 2019–20, undertake field investigations focusing on pegmatite veins, collect representative samples, and carry out petrological studies to identify the mineral phases.
- i. The Committee further advised the agency to modify the proposed block by excluding the area already covered by GSI and resubmit the proposal for in-principle approval. Meanwhile, CGM, Tamil Nadu will provide details of the leasehold areas.

Sl. No.	Agency	Brief Comments
1	GSI	The area was earlier explored for limestone and GSI had submitted blocks for CL. However, based on the recommendation of 10th JWG held on 07.10.2025, all these CL blocks for Limestone were returned to the GSI vide Letter. No 4467/MM11/2021 dated 29.04.2026 for upgradation. Hence, the proposed block for REE exploration has no overlap with any CL blocks. No ongoing works by GSI
2	MECL	The proposed block by M/s Geo Exploration and Mining Solution has no overlapping with the ongoing or completed blocks of MECL.
3	AMD	No overlap with AMD blocks
4	State DMG/DGM/CGM	Awaited
5	NMEDT	Auctionable G3/G2 block is present within the proposed block for Limestone in NE of Chamnur Block. No overlap with NMEDT funded block.

Recommendations of TCC-1:

The Committee did not accord in-principle approval to the proposal in its present form, as GSI had already carried out G4-stage investigations over a major part of the proposed area during FS 2019–20.

The Committee advised the agency to consult the GSI report of FS 2019–20, undertake field investigations focusing on pegmatite veins, collect representative samples, carry out petrological studies to identify the mineral phases, modify the proposed block by excluding the area already covered by GSI, and resubmit the proposal for in-principle approval.

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**Agenda 98.3.15. Preliminary Exploration (G3) of Vanadium, Graphite, Chromium and Other Associated RMs Block in West Siang District, Arunachal Pradesh
(Proposal ID: ME/IN/G3/AR/P/26-27/036)**

[Implementing Agency: IMPCON]

- a. The proposed block falls in SOI Toposheet No. 82L/11 and exposes lithounits of Bomdila and Miri Group of rocks of Palaeo- to Meso-proterozoic age.
- b. The proposal was previously discussed in the 97th TCC-I meeting, during which AMD informed the Committee that it is currently undertaking G3-stage exploration, including subsurface investigation through core drilling, within the proposed area.
- c. AMD did not recommend the proposal, as the ongoing exploration programme would result in duplication of exploration efforts.
- d. As AMD had not provided a map depicting the extent of overlap, the Committee sought clarification on the status and spatial extent of the overlapping area before taking a decision on the proposal.
- e. Accordingly, the Committee kept its decision on the proposal in abeyance pending submission of the requisite overlap details by AMD.
- f. The Committee reviewed the proposal and, based on the comments provided by AMD, observed that the entire proposed area overlaps with AMD's ongoing exploration block.
- g. Accordingly, the Committee did not approve the proposal to avoid duplication of exploration activities.

SI. No.	Agency	Brief Comments
1	GSI	The proposed block is recommended for further exploration based on G4 Exploration carried out by GSI in FS 2021-22.
2	MECL	Correct .kml file to be provided for further processing
3	AMD	AMD is carrying out G3 stage exploration including subsurface sampling by core drilling in the proposed area. The proposed block is not recommended to avoid duplication of work.
4	State DMG/DGM/CGM	Awaited
5	NMEDT	The proposed block does not overlap with NMEDT funded projects.

Recommendations of TCC-1:

The Committee did not recommend the proposal, as the entire proposed area overlaps with AMD's ongoing exploration block, resulting in duplication of exploration activities.

98.4: Review of Ongoing Exploration Project & Timeline Extension

Agenda 98.4.1. Preliminary Exploration (G3) for Bauxite in Kalychohra block, Rayagada district, Odisha.

[Implementing Agency: DMG Odisha]

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- a. DMG Odisha informed that the project was approved in the 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 24th February, 2025 with timeline of 12 months (up to 23.02.2026) and approved cost was INR 99,55,620/-.
- b. Timeline was extended upto 30.06.2026 during 8th meeting of PSC.
- c. The agency apprised the committee about the progress of work and informed that the geological mapping and topographic survey has been completed.
- d. DGM Odisha informed that several administration measures have been undertaken, multiple village level meetings have been conducted, joint field verification by district administration and geological officials have been done for execution of the work. However, despite repeated intervention by the district administration, the issue related to use of the existing approach road remained unresolved due to continued stalemate between the local villagers and the administration.
- e. The proposed drilling programme could not be executed because of the prevailing situation.
- f. The project incurred an expenditure of approximately ₹2,27,945 prior to suspension of activities.
- g. As per the direction of the Director, DoMG, Odisha vide Letter No. 5059 dated 30.04.2026, the exploration work was temporarily suspended w.e.f. 30.04.2026 pending administrative resolution.
- h. The agency presented the details of work carried out till now and informed the committee that they have estimated reconnaitory resources on the basis of work carried out.
- i. The Kalychochra Bauxite Block covers an area of 3.83 sq. km, of which 1.06 sq. km has been delineated as mineralized, comprising bauxite and aluminous laterite-bearing horizons.
- j. Detailed geological mapping (1:4,000 scale), topographical survey, 4 m contour generation, and 40 m × 40 m grid layout were completed. A total of 100 geological samples and 10 check samples were analysed for major oxides and vanadium, supported by petrography, XRD, and bulk density studies.
- k. Based on surface investigations, a Reconnaissance Resource (UNFC 334) of 6.81 Mt was estimated, comprising 5.01 Mt High Siliceous Bauxite (HSB) and 1.79 Mt Aluminous Laterite (ALAT).
- l. The estimated weighted average grade of the resource is 36.90% Al₂O₃ and 13.24% SiO₂, with High Siliceous Bauxite (HSB) being the dominant bauxite variety.
- m. Based on TiO₂ and V₂O₅ analyses, the study also indicated associated critical mineral potential of approximately 0.146 Mt TiO₂ and 0.009 Mt V₂O₅. However, the resource has been classified as UNFC 334 (Reconnaissance Resource) due to the absence of subsurface exploration data.
- n. It was further informed that The State Government has issued an NIT dated 29.05.2026 for the auction of G4-stage bauxite blocks, indicating increasing interest in the exploration and development of bauxite resources.
- o. The committee reviewed the work and opined that the analytical data is promising. However, since drilling could not be done, the project may be downgraded to G4 level report.

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- p. The committee agreed for submission of report for peer review.
- q. The agency was also suggested to bring revised cost sheet at the time of GR submission.
- r. The committee recommended timeline extension upto 31.07.2026 for submission of final GR.

Recommendations of TCC-1:

The committee recommended timeline extension upto 31st July, 2026 for approval of PSC of NMEDT. Timeline extension is recommended for submission of GR.

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

Agenda 98.4.2. Reconnaissance Survey (G-4 stage) for Graphite and Vanadium in Matena-Sirar Area, Almora District, Uttarakhand.

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

- a. Geovale informed that the project was approved in the 36th EC Meeting held on 29th July 2024. The Sanction Order was issued on 21st August 2024 with timeline of 12 months up to 20th August 2025 and approved cost was INR 2,60,45,671/-. Timeline was extended upto 31.05.2026 and 30.06.2026 during 4th and 9th meetings respectively of PSC.
- b. The Committee noted that the agency has reported 6.2% Fixed Carbon (FC) over an intercept length of 39 m in one borehole; however, the complete analytical data corresponding to the entire 39 m interval was not available.
- c. The Committee opined that, in the absence of complete analytical data, the results cannot be extrapolated to intervals or zones where analyses have not been carried out or where data are unavailable.
- d. The Committee advised that weighted average should be calculated only for continuous mineralized zones, and that a uniform methodology should be adopted for delineation and weighted average estimation across all boreholes.
- e. The agency also instructed that maximum width of graphite band based on chemical analysis may be used for weighted average estimation and resource calculation.
- f. BH wise thickness of Graphite band zone to be mentioned with grade percentage. Cross section to be made, BH correlation to be done. Resource estimation for graphite zones to be done.
- g. The committee instructed the agency to remove volumetric resource estimation from report and give reconnaissance resource as per suggestion.
- h. The Committee instructed the agency to revise the Geological Report (GR) in accordance with its observations and submit the Geological Report. The agency was also instructed to provide a copy of GR prior to final submission.

Recommendations of TCC-1:

The agency was instructed to submit the Geological Report. The agency to ensure that all the suggestions and instructions made by committee must be included in GR, prior to final submission.

Agenda 98.4.3. Preliminary Exploration (G3) for Bauxite, Vanadium,


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Gallium and associated minerals around Patgaon and Somlewadi villages (Patgaon Block), Sindhudurg district, Maharashtra.

[Implementing Agency: M/s Geomarine 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 during 89th meeting of TCC-I, wherein the agency had requested for pre-closure of project owing to strong local agitation. The agency apprised that the work has been stopped since 28.11.2025.
- c. The project was again reviewed in 92nd meeting of TCC-1, wherein DGM Maharashtra have informed that they have written letter to Secretary, Mining Ministry, Maharashtra for resolving the issue. He also stated to hold the decision of pre-closure, till the reply from Secretary is received.
- d. In view of comments from DGM Maharashtra, the committee had reserved its decision regarding pre-closure of project.
- e. The agency apprised the committee that the DGM Maharashtra have now informed that the administrative authorities have suggested the closure of the project.
- f. The representative of DGM, Maharashtra informed the Committee that the District Collector had issued written directions to discontinue the project due to local agitation.
- g. The Committee advised DGM, Maharashtra to submit a copy of the communication received from the DC/DM regarding discontinuation of the project to the NMEDT Secretariat for record.
- h. The Committee agreed in principle to the closure of the project, subject to receipt of the correspondence from the DC/DM.
- i. The agency requested revision of the sanctioned project cost.
- j. The Committee advised the agency to submit the Geological Report (GR) along with the revised cost estimates for consideration in a forthcoming TCC meeting.

Recommendations of TCC-1:

The Committee advised the agency to submit the Geological Report (GR) for the work completed so far and recommended pre-closure of the project, subject to receipt of the District Magistrate/District Collector's communication through DGM, Maharashtra.

The agency may present revised cost sheet in upcoming TCC meeting.

Agenda 98.4.4. Preliminary Exploration (G-3) for Bauxite, Vanadium, Gallium and associated minerals around Pendhri village (Pendhri Block), Sindhudurg District, Maharashtra.

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

- a. The agency informed that the project was 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 during 89th meeting of TCC-I, wherein the agency had requested for pre-closure of project owing to strong local agitation. The agency apprised that the work has been stopped since 28.11.2025.
- c. The project was again reviewed in 92nd meeting of TCC-1, wherein DGM Maharashtra have informed that they have written letter to Secretary, Mining


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Ministry, Maharashtra for resolving the issue. He also stated to hold the decision of pre-closure, till the reply from Secretary is received.

- d. In view of comments from DGM Maharashtra, the committee had reserved its decision regarding pre-closure of project.
- e. The agency apprised the committee that the DGM Maharashtra have now informed that the administrative authorities have suggested the closure of the project.
- f. The representative of DGM, Maharashtra informed the Committee that the District Collector had issued written directions to discontinue the project due to local agitation.
- g. The Committee advised DGM, Maharashtra to submit a copy of the communication received from the DC/DM regarding discontinuation of the project to the NMEDT Secretariat for record.
- h. The Committee agreed in principle to the closure of the project, subject to receipt of the correspondence from the DC/DM.
- i. The agency requested revision of the sanctioned project cost.
- j. The Committee advised the agency to submit the Geological Report (GR) along with the revised cost estimates for consideration in a forthcoming TCC meeting.

Recommendations of TCC-1:

The Committee advised the agency to submit the Geological Report (GR) for the work completed so far and recommended pre-closure of the project, subject to receipt of the District Magistrate/District Collector's communication through DGM, Maharashtra.

The agency may present revised cost sheet in upcoming TCC meeting.

Agenda 98.4.5. Reconnaissance Survey (G4) for REE, Ni, Co and PGE in Podili area, Prakasam District, Andhra Pradesh.

[Implementing Agency: 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 1,90,21,860/-.
- b. The agency apprised the committee about the analytical results of Pit and Trench samples.
- c. 5 of the pit samples have yielded TREE values over 1000 ppm with 2 samples having values over 2000 ppm. Similarly, 10 trench samples have yielded TREE values over 1000 ppm and 1 BRS samples have also yielded TREE value of 1928.3 ppm.
- d. The agency proposed drilling of 4 BH on the basis of TREE results. The committee reviewed the proposal and agreed for drilling.
- e. The agency sought timeline extension for completion of project.
- f. The committee agreed for timeline extension upto 31.08.2026.

Recommendations of TCC-1:

The committee recommended timeline extension upto 31st August, 2026 for approval of PSC of NMEDT. Timeline extension is recommended for submission of GR.

Agenda 98.4.6. Reconnaissance survey (G4) for Ni, Cr and PGE in Charoti


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Area, Palghar District, Maharashtra.

[Implementing Agency: Critical Mineral Trackers]

- a. Critical Mineral Trackers informed that the project was approved in the 4th PSC Meeting held on 13th January, 2026. The Sanction Order was issued on 2nd March, 2026 with timeline of 10 months (up to 01.01.2027) and approved cost was INR 1,37,54,452/-.
- b. The agency apprised the Committee that 131 sq. km of large-scale mapping had been completed, 100 bedrock samples had been collected and submitted for REE and trace element analysis, and 40 samples had been submitted for thin section preparation.
- c. The Committee reviewed the progress and observed that the 1:12500 scale geological map did not show significant improvement over the existing 1:25000 scale map, and advised the agency to refine and improve the mapping.
- d. The Committee emphasized expediting petrographic studies, as these constitute a critical component of the project and would guide further pit sampling and analysis.
- e. The agency requested permission for XRF analysis of samples.
- f. The Committee advised the agency to first complete the petrographic studies and improve the geological map, after which the request for XRF analysis would be considered in the next review.

Recommendations of TCC-1:

The committee advised the agency to expedite the petrographic studies and improve the prepared Geological Map

Agenda 98.4.7. Reconnaissance Survey (G-4 stage) for establishing the occurrence of Lithium and associated minerals in Great Rann of Kachchh, Gujarat.

[Implementing Agency: CGM Gujarat]

- a. CGM Gujarat informed that the project was approved in the 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 24th February, 2025 with timeline of 6 months (up to 23.08.2025) and approved cost was INR 30,92,597/-.
- b. The Committee noted with concern that the agency had not presented the project for review since its inception and that the scheduled completion date of 23.08.2025 had already elapsed. The Committee expressed its displeasure over the delay in project execution and the agency's non-compliance with NMEDT guidelines regarding periodic project reviews.
- c. The agency informed the Committee that the Government of Gujarat had allocated the western part of the assigned area for Green Energy Projects, restricting exploration activities to 8 sq. km. Consequently, only seven pits with a cumulative excavation volume of 12.9 cu. m could be completed.
- d. 7 pit samples have been collected that has yielded Li value of 6.6 to 37.1 ppm with an average of 21.0 ppm.
- e. Analysis of seven pit samples yielded lithium values ranging from 6.6 ppm to 37.1 ppm, with an average concentration of 21.0 ppm.
- f. The Committee observed that the limited sampling coverage and restricted access to prospective areas do not permit a reliable assessment of REE and other trace element potential. Although lithium concentrations (6.6–37.1 ppm) indicate

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geochemical anomalies above background levels, the values are significantly below mineable grades and do not suggest the presence of ore-grade mineralization based on the available dataset.

- g. The agency requested closure of the project and sought the Committee's permission to submit the Geological Report (GR) for the work completed.
- h. The Committee advised the agency to submit the Geological Report (GR) for peer review and recommended extension of the project timeline up to 31.07.2026. The agency was also advised to submit a revised cost estimate for consideration in the next review.

Recommendations of TCC-1:

The committee suggested the agency to submit GR for peer review. The committee also recommended timeline extension upto 31st July, 2026 for approval of PSC of NMEDT. Timeline extension is recommended for submission of GR.

Agenda 98.4.8. 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.
- c. The agency informed that the proposed exploration area has been reduced from 3,537 hectares to 318 hectares, with the number of proposed boreholes reduced from 55 to 5.
- d. It was further informed that Geological mapping and field investigations indicate that limestone exposure is confined to the western part of the block, while drilling revealed only a few centimetres of limestone at the surface underlain by clay, suggesting limited vertical continuity of the limestone horizon.
- e. The agency informed that the Geological Report has been peer reviewed.
- f. The committee noted that the agency has not come to TCC for review prior to submission of GR to peer reviewer. The committee expressed its displeasure over the delay in project execution and the agency's non-compliance with NMEDT guidelines regarding periodic project reviews.
- g. The agency informed that an estimated 3.88 million tonnes of limestone and 34.86 million tonnes of marl resources have been established within the proposed block.
- h. The agency sought timeline extension for submission of GR.
- i. The peer reviewer's comments and their compliance by agency was discussed.
- j. The committee agreed for submission of GR. The committee agreed for timeline extension upto 31.07.2026.

Recommendations of TCC-1:

The committee suggested the agency to submit GR. The committee also recommended timeline extension upto 31st July, 2026 for approval of PSC of NMEDT. Timeline extension is recommended for submission of GR.


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Agenda 98.4.9. 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.
- c. The agency informed that the Geological Report has been peer reviewed.
- d. The committee noted that the agency has not come to TCC for review prior to submission of GR to peer reviewer. The committee expressed its displeasure over the delay in project execution and the agency's non-compliance with NMEDT guidelines regarding periodic project reviews.
- e. The agency informed that an estimated 65.39 million tonnes of limestone and 43.40 million tonnes of marl resources have been established within the proposed block.
- f. The agency sought timeline extension for submission of GR.
- g. The peer reviewer's comments and their compliance by agency was discussed.
- h. The committee agreed for submission of GR. The committee agreed for timeline extension upto 31.07.2026.

Recommendations of TCC-1:

The committee suggested the agency to submit GR. The committee also recommended timeline extension upto 31st July, 2026 for approval of PSC of NMEDT. Timeline extension is recommended for submission of GR.

Agenda 98.4.10. 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.
- c. The agency informed that the Geological Report has been peer reviewed.
- d. The committee noted that the agency has not come to TCC for review prior to submission of GR to peer reviewer. The committee expressed its displeasure over the delay in project execution and the agency's non-compliance with NMEDT guidelines regarding periodic project reviews.
- e. The agency informed that an estimated 166.75 million tonnes of limestone and 58.50 million tonnes of marl resources have been established within the proposed block.
- f. The agency sought timeline extension for submission of GR.
- g. The peer reviewer's comments and their compliance by agency was discussed.
- h. The committee agreed for submission of GR. The committee agreed for timeline extension upto 31.07.2026.

Recommendations of TCC-1:


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The committee suggested the agency to submit GR. The committee also recommended timeline extension upto 31st July, 2026 for approval of PSC of NMEDT. Timeline extension is recommended for submission of GR.

Agenda 98.4.11. 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. The agency informed that the Geological Report has been peer reviewed.
- c. The committee noted that the agency has not come to TCC for review prior to submission of GR to peer reviewer. The committee expressed its displeasure over the delay in project execution and the agency's non-compliance with NMEDT guidelines regarding periodic project reviews.
- d. The agency informed that an estimated 12.38 million tonnes of bauxite, 11.30 million tonnes of aluminous laterite, 8.41 million tonnes of limestone and 18.42 million tonnes of marl resources have been established within the proposed block.
- e. The agency sought timeline extension for submission of GR.
- f. The peer reviewer's comments and their compliance by agency was discussed.
- g. The committee agreed for submission of GR. The committee agreed for timeline extension upto 31.07.2026.

Recommendations of TCC-1:

The committee suggested the agency to submit GR. The committee also recommended timeline extension upto 31st July, 2026 for approval of PSC of NMEDT. Timeline extension is recommended for submission of GR.

Agenda 98.4.12. 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/-. Timeline was extended upto 31.12.2025 by EC in its 43rd meeting.
- b. The agency informed that the Geological Report has been peer reviewed. The committee noted that the report has been peer reviewed in the month of February 2026 and final GR has not been submitted yet.
- c. The committee noted that the agency has not come to TCC for review prior to submission of GR to peer reviewer. The committee expressed its displeasure over the delay in project execution and the agency's non-compliance with NMEDT guidelines regarding periodic project reviews.
- d. The agency informed that an estimated 41.86 million tonnes of limestone and 20.20 million tonnes of marl resources have been established within the proposed block.
- e. The agency sought timeline extension for submission of GR.
- f. The peer reviewer's comments and their compliance by agency was discussed.


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- g. The committee agreed for submission of GR. The committee agreed for timeline extension upto 31.07.2026.

Recommendations of TCC-1:

The committee suggested the agency to submit GR. The committee also recommended timeline extension upto 31st July, 2026 for approval of PSC of NMEDT. Timeline extension is recommended for submission of GR.

Agenda 98.4.13. 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/-. Timeline was extended upto 31.12.2025 by EC in its 43rd meeting.
- b. The agency informed that the Geological Report has been peer reviewed. The committee noted that the report has been peer reviewed in the month of April 2026 and final GR has not been submitted yet.
- c. The committee noted that the agency has not come to TCC for review prior to submission of GR to peer reviewer. The committee expressed its displeasure over the delay in project execution and the agency's non-compliance with NMEDT guidelines regarding periodic project reviews.
- d. The agency informed that an estimated 18.20 million tonnes of limestone and 5.83 million tonnes of marl resources have been established within the proposed block.
- e. The agency sought timeline extension for submission of GR.
- f. The peer reviewer's comments and their compliance by agency was discussed.
- g. The committee agreed for submission of GR. The committee agreed for timeline extension upto 31.07.2026.

Recommendations of TCC-1:

The committee suggested the agency to submit GR. The committee also recommended timeline extension upto 31st July, 2026 for approval of PSC of NMEDT. Timeline extension is recommended for submission of GR.

Agenda 98.4.14. 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/-. Timeline was extended upto 31.12.2025 by EC in its 43rd meeting.
- b. The agency informed that the Geological Report has been peer reviewed. The committee noted that the report has been peer reviewed in the month of January 2026 and final GR has not been submitted yet.
- c. The committee noted that the agency has not come to TCC for review prior to submission of GR to peer reviewer. The committee expressed its displeasure over the delay in project execution and the agency's non-compliance with NMEDT guidelines regarding periodic project reviews.


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- d. The agency informed that an estimated 13.82 million tonnes of limestone and 2.97 million tonnes of marl resources have been established within the proposed block.
- e. The agency sought timeline extension for submission of GR.
- f. The peer reviewer's comments and their compliance by agency was discussed.
- g. The committee agreed for submission of GR. The committee agreed for timeline extension upto 31.07.2026.

Recommendations of TCC-1:

The committee suggested the agency to submit GR. The committee also recommended timeline extension upto 31st July, 2026 for approval of PSC of NMEDT. Timeline extension is recommended for submission of GR.

Agenda 98.4.15. 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/-. Timeline was extended upto 31.12.2025 by EC in its 43rd meeting.
- b. The agency informed that the Geological Report has been peer reviewed. The committee noted that the report has been peer reviewed in the month of January 2026 and final GR has not been submitted yet.
- c. The committee noted that the agency has not come to TCC for review prior to submission of GR to peer reviewer. The committee expressed its displeasure over the delay in project execution and the agency's non-compliance with NMEDT guidelines regarding periodic project reviews.
- d. The agency informed that an estimated 28.37 million tonnes of limestone and 8.55 million tonnes of marl resources have been established within the proposed block.
- e. The agency sought timeline extension for submission of GR.
- f. The peer reviewer's comments and their compliance by agency was discussed.
- g. The committee agreed for submission of GR. The committee agreed for timeline extension upto 31.07.2026.

Recommendations of TCC-1:

The committee suggested the agency to submit GR. The committee also recommended timeline extension upto 31st July, 2026 for approval of PSC of NMEDT. Timeline extension is recommended for submission of GR.

Agenda 98.4.16. Reconnaissance survey for nickel- cobalt, PGE and Chromium in and around Lungher and Sihai area, Ukhrul district, Manipur.

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

- a. United Exploration India Pvt. Ltd. informed that the project was approved in 35th EC Meeting held on 16.5.2024. The Sanction Order was issued on 06.06.2024 with timeline of 12 months (up to 05.06.2025) and approved cost was INR 1,16,27,890/-
- b. Timeline of the project was initially extended 05.02.2026 in 42nd EC meeting held on 2.6.2026. Further, the timeline extension upto 5.6.2026 was accorded by PSC at its 3rd meeting held on 15.12.2025.


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- c. The project was reviewed in the 13th TCC-II meeting held on 22 September 2025, wherein the Committee recommended extension of the project timeline and approved a change in the project title due to resistance from local villagers, which had affected the execution of exploration activities.
- d. The agency informed that no exploration work has been carried out since the last review. Although forest clearance was obtained on 20.05.2026, the District Administration has advised against commencing field activities due to the prevailing law-and-order situation in the State of Manipur. Accordingly, the agency requested a seven-month extension to complete the project.
- e. The Committee instructed the agency to submit all correspondence with the District Administration and the Forest Department to the NMEDT Secretariat. The proposal will be reviewed in the next TCC meeting for further consideration based on the documents submitted.

Recommendations of TCC-1:

The Committee instructed the agency to submit all correspondence with the District Administration and the Forest Department to the NMEDT Secretariat for further deliberation and consideration of the requested timeline extension in the upcoming TCC meeting.

Agenda 98.4.17. Preliminary Exploration for Nickel, Cobalt, Chromium & PGE minerals in Gamnong Block, Kamjong District, Manipur.

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

- a. United Exploration India Pvt. Ltd. informed that the project was approved in 38th EC Meeting held on 29.11.2024. The Sanction Order was issued on 06.01.2025 with timeline of 18 months (up to 05.07.2026) and approved cost was INR 6,11,99,849/-
- b. The agency informed that reconnaissance survey work had been initiated but was subsequently halted due to the non-availability of No Objection Certificates (NOCs) from the local and village authorities. The agency further stated that forest clearance is still pending with the PCCF office.
- c. The agency informed that reconnaissance survey work had commenced but was subsequently halted due to the non-availability of No Objection Certificates (NOCs) from the local and village authorities. It was further informed that forest clearance is still pending with the PCCF office.
- d. The committee instructed the agency to submit all the correspondences with District Administration and Forest Department to NMEDT Secretariat. The item will be reviewed in the upcoming TCC for further consideration.

Recommendations of TCC-1:

The Committee instructed the agency to submit all correspondence with the District Administration and the Forest Department to the NMEDT Secretariat for further deliberation and consideration of the requested timeline extension in the upcoming TCC meeting.

Agenda 98.4.18. Reconnaissance Survey (G4) for Glauconite Sandstone in Magarlod area, Dhamtari District, Chhattisgarh.

[Implementing Agency: DGM Chhattisgarh]


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- a. DGM Chhattisgarh informed that the project was approved in the 1st PSC Meeting held on 9th October, 2025. The sanction order was issued on 10th November, 2025 with timeline of 10 months (up to 09.09.2026) and approved cost was INR 84,89,151/-.
- b. The agency informed that Large Scale Mapping on 12500 scale has been completed for 100 sq. km. 153 BRS samples has also been collected and analysed.
- c. The agency presented plan for drilling of 5 BH. They apprised the committee that BH location is planned far from forest boundary to complete the work in stipulated time.
- d. The committee reviewed the progress of work and approved the drilling plan.

Recommendations of TCC-1:

The committee approved the drilling plan.

Agenda 98.4.19. Preliminary exploration (G3) for Bauxite in Barpat Block, Balrampur Ramanujanj District, Chhattisgarh.

[Implementing Agency: DGM Chhattisgarh]

- a. DGM Chhattisgarh informed that the project was approved in the 38th EC Meeting held on 29th November, 2024. The sanction order was issued on 13th December, 2024 with timeline of 12 months (up to 12.12.2025) and approved cost was INR 1,36,83,526/-.
- b. The agency informed that Detail Geological Mapping and Topographical Survey of 1.33 sq. km is done on 1:4000 scale against the assigned target of 2.43 sq. km.
- c. The agency apprised the committee that due to intense local agitation, the work could be completed only in part of the area.
- d. The agency also informed that 13 BH need to be drilled and the boundary of the area need to be revised.
- e. The committee instructed the agency to provide justification and relevant documents to revise the area and quantum of works.
- f. The agency sought timeline extension.
- g. The committee opined that after submission of relevant documents, the extension of timeline will be discussed.

Recommendations of TCC-1:

The committee instructed the agency to submit all the relevant documents pertaining to agitation for discussion regarding revision of area, quantum of work and timeline.


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**List of participants who attended the 98th Meeting of
Technical-cum-cost Committee (TCC-I) of NMEDT held
on 10th and 11th June 2026 through video
conferencing mode**

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66	Representatives from M/s Unised Research Consultants Private Ltd				
67	Representatives from M/s Geo Exploration and Mining Solution				
68	Representatives from IMPCON				
69	Representatives from CGM Gujarat				
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