

Ministry of Mines
National Mineral Exploration & Development Trust
Minutes of 29th meeting of Technical-cum-Cost Committee - II (TCC - II)
held on 20th and 21st May 2026

The 29th meeting of Technical-cum-Cost Committee-II (TCC-II) of National Mineral Exploration and Development Trust (NMEDT) was convened through video conferencing on 20th and 21st May 2026. The meeting was chaired by Dr. S Ravi, DDG, GSI, and Chairman, TCC-I, NMEDT.

Members of TCC-II, NMEDT and representatives from M/s Gemcokati Exploration Private Limited, M/s Vardan Environet LLP, M/s Geo Marine Solution Private Limited, Mineral Exploration and Consultancy Limited (MECL), M/s Natural Resource Division, Tata Steel Ltd, Madhya Pradesh State Mining Corporation Limited (MPSMCL), M/s Engeotech Consultant, DMR Meghalaya, DGM Nagaland, M/s Critical mineral trackers (CMT), M/s Enkay Enviro Services Private Limited, M/s PRB Infraprojects Private Limited, M/s APC Drilling & Construction Private Limited, M/s GeoExpOre Private Limited, M/s GEMS Project Private Limited, M/s GMMCO Technology Services Limited, etc. have attended the meeting through video conferencing mode. The list of participants is at **Annexure-1**.

Dr. S Ravi, DDG, GSI and Chairman, TCC-I, NMEDT warmly welcomed all TCC-II members and every participant representing from State DGMs/DMGs, Notified Exploration Agencies (NEAs) and Notified Private Exploration Agencies (NPEAs).

29.1 Technical Evaluation of New Project Proposals

Agenda 29.1.1 Reconnaissance survey for Bauxite & Bentonite in Khedawada area in parts of Sabarkantha District, Gujarat.

ID: ME/DD/G4/GJ/26-27/006

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

- a) The proposed reconnaissance survey (G4) of 68 sq. km area falls in Survey of India Toposheet no. 46A/14, in parts of Sabarkantha District, Gujarat.
- b) Approved Coordinate of the Proposed area as given below: -

S. No.	Latitude	Longitude
A	23.700501°	72.858015°
B	23.609063°	72.930338°
C	23.595715°	72.929528°
D	23.594774°	72.870633°
E	23.640239°	72.820244°

- c) The table containing the comments is given below:


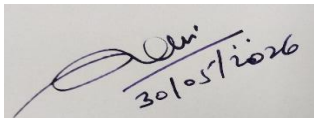

S.N.	Agency	Comment
1	GSI	Currently no exploration / reconnaissance projects related to Bauxite, Bentonite & associated Minerals and any other mineral/commodity is being carried out by GSI in the proposed area.
2	CGM	i. The proposed Reconnaissance Survey (G4 Stage) for Bauxite and Bentonite in the Khedawada Block, Sabarkantha District, Gujarat (area: 90 sq. km) partially overlaps with the Idar Granite Block-Idar Town (G4 level, area: 842 sq. km), for which an NOC has been issued to MTCS. The proposed block also partially falls within forest land and overlaps with existing mineral leases of ordinary sand, silica sand, building stone, bentonite, and bauxite within the area.

		ii. It is noted that 51 blocks have been allotted by NMEDT to NPEAs and NEAs for upgradation under the NMEDT Fund during the 3rd Joint Meeting of TCC-I and TCC-II held on 4th September 2025. In this context, Report No. RN-272, titled “A Report on the Pre-Detailed Survey for Concealed Bauxite and Bentonite in parts of Prantij and Himatnagar Taluks of Sabarkantha District, Gujarat,” has been allotted to Gemcokati Exploration Private Limited. The proposed block partially falls within the report no. RN 272_1 boundary.
3	MECL	The block proposed is not overlapping with explored block and ongoing blocks.
4	AMD	There is no ongoing exploration / reconnaissance project.
5	NMEDT	Proposed block is overlapping with Existing mine Lease of Dedhrota Bauxite Mine and several existing Minor lease block. There are no completed or ongoing NMEDT-funded projects in the proposed block.

- d) As informed by the CGM, Gujarat, the proposed area was found to be overlapping with a Bauxite mining lease. Accordingly, the Agency modified the proposed area by excluding the overlapping Bauxite lease area, and the final proposed area has been reduced to 64 sq. km. Further, as suggested by the Committee, the block boundary has been reshaped to an area of approximately 68 sq. km.
- e) The agency informed the committee that, GSI has done “Investigation of the China Clay deposits in the area around Eklara and Arsodia dist. Mehsana, Gujarat” during FS 1966-67 (Kathiara R. S.) and during FS 1961-62, Sahasrabudhe Y. S. Kulkarni A. M. has investigated for “Bauxite deposits of the Sabarkantha, Kaira Broach and Surat Districts, Gujarat State”. During their regional survey of bauxite deposits in Sabarkantha, Kheda, Bharuch and Surat districts. A total of 5 test pits were sunk by the G.S.I. near Harsol and 0.27 million tonnes of Bauxite of all grade was assessed. Further, A. A. Waheed of The Directorate of Geology and Mining, Govt. of Gujarat, mapped Bauxite deposits of Harsol area in detail (1971-72). Systematic geological mapping by S. Chowdhury and I. Chowdhury (1990) in parts of Sabarkantha District has also been done. NGPM results (2020-21) show high Bouguer gravity anomalies and gravity gradient zones in the northern part of toposheet 46A/14. Accordingly, the area was recommended for detailed geological and geophysical investigations to delineate future target zones.
- f) Considering the above, the Committee recommended the proposal for approval of PSC. The committee also advised change in the title of project as “Reconnaissance survey for Bauxite & associated critical minerals in Khedawada area in parts of Sabarkantha District, Gujarat”. The Committee agreed to recommend a total of 240 m drilling in 8 boreholes (BHs) with an average depth of 30 m each and advised that the borehole depth should be extended up to 30 m only if justified by the presence of mineralisation, and unnecessary drilling should be avoided.

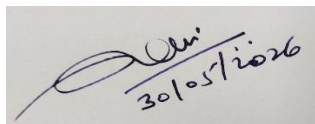
Recommendations of TCC-II

The Committee recommended the proposal for approval of PSC for “Reconnaissance survey for Bauxite & associated critical minerals in Khedawada area in parts of Sabarkantha District, Gujarat” with an estimated cost of ₹98.25/- lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of geological report as per Annexure – 2A & 2B. The item will be reviewed after 3 and 6 months.

Cost Estimate for Reconnaissance Survey (G-4) for Bauxite and associated critical minerals in Khedwada Block, Saberkantha District, Gujarat.
Total area 68 sq. km; Drilling: (8 BHs x 30 m = 240 m); Completion Time- 10 months; Review: After 3 and 6 Months;
Implementing Agency: M/s Gemcokati Exploration Pvt. Ltd.

Sl. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item No. *	Rates as per SoC *(a)	Qty. (b)	Total Amount (Rs)(a*b)	
A	Geological Mapping Other Geological Work & Surveying						
	Geological mapping, (1:12,500 scale) & Trenching , drilling work	per Sq. Km	1.1	18300	68	1244400	
i	a. Charges for Geologist per day (Field) for geological mapping & trenching, drilling work	day	1.2.1a	14500	120	1740000	
ii	b. Labours Charges; Base rate	day	5.8	541	240	129840	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
	c. Charges for Geologist per day (HQ)	day	1.2.1a	10500	40	420000	
	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.2.1b	7850	26	204100	
	b. Labours Charges; Base rate	day	5.8	541	104	56264	
	Sub Total- A					37,94,604	
B	Survey work						
a	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.3.2	24,000	8	192000	8 Boreholes
	Sub-Total B					1,92,000	
C	Trenching/Pitting						
	a) Excavation of Pit	per cu. m	2.1.2	4,725	160	756000	40 pits= 2m(L) X 1m (W) x 2m (D)
	Sub Total C					756000	
D	DRILLING (Inhouse)						
1	Drilling up to 300m (Soft Rock)	m	2.2.1.1c	5,500	240	1320000	(8 x 30 m = 240 m), Borehole depth to be 30 m only when justified by presence of


							mineralization. Unnecessary drilling to be avoided.
3	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	30,000	8	240000	As per actuals as certified by local authorities subject to a maximum of Rs. 30,000 per borehole
4	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7	2,000	8	16000	
5	Borehole plugging by cement	per borehole	2.2.8	10,000	8	80000	Boreholes
6	Misc. charges (transportation, accommodation etc)	lumpsum	2.2.9			330000	for drilling cost less than 50 lakhs 25% of drilling cost
7	Drill Core Preservation	per m	5.3	1,590	100	159000	
	Sub Total D					21,45,000	
E	LABORATORY STUDIES						
1	Chemical Analysis						
vii)	Major Oxide Analysis						
a	Major oxides (WD XRF)- (oxides+ traces -24 elements) (Primary samples)	per sample	4.1.17a	4200	150	630000	PIT-40 + 110-CS
b	Major oxides (WD XRF)- (oxides+ traces -24 elements) (Check Samples)	per sample	4.1.17a	4200	15	63000	
c	Bulk Density	per sample	4.8.3	2,500	5	12,500	
d	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U, Ta, Ge, Be, Hf, Sn, As, Rb, Th) by ICP-MS (sequential technique)(Primary samples)	per sample	4.1.15	7,400	20	1,48,000	
e	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U, Ta, Ge, Be, Hf, Sn, As, Rb, Th) by ICP-MS (sequential technique)(Primary samples) (Check Samples)	per sample	4.1.15	7,400	2	14,800	
f	Combined determination of Trihydrate Alumina (THA-140° C), Monohydrate	per sample	4.1.19a	7,500	8	60,000	

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	Alumina (MHA-240°C) & Reactive Silica						
2	Physical & Petrological Studies	b					
i	Preparation of thin section	No	4.3.1	500	10	5,000	
ii	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo micrographs)	Nos	4.3.4	2,800	10	28,000	
vii	XRD Studies	per hour	4.5.2	4,000	10	40,000	
						10,01,300	
F	Total A to F					78,88,904	
G	Geological Report Preparation		5.2	5.2 (ii)		2,50,000	Reimbursement will be made after submission of the final Geological Report the soft copy to NMET.
H	Peer review Charges		As per EC decision			30,000	
I	Preparation of Exploration Proposal	As per EC decision	5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is less		1,57,778	
J	Total Estimated Cost without GST					83,26,682	
K	Provision for GST (18% of J)					14,98,803	GST will be reimbursed as per actual and as per notified prescribed rate
L	Total Estimated Cost with GST					98,25,485	
				or Say Rs. In Lakhs		98.25	
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						
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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30/05/2026

**Time Schedule: Reconnaissance Survey (G-4) for Bauxite & associated Critical Minerals in Khedwada Block,
Saberkantha District, Gujarat.**

Area 68 sq. km, No. of BH-8, (8 x 30 m = 240 m); Schedule timeline- 10 months [Review: After 3rd and 6th Months]

SL NO.	Item of work	1	2	3		4	5	6		7	8	9	10		
1	Camp setting and Geological Mapping (1:12,500)				REVIEW				REVIEW						
2	Excavation of Pit & Sample collection														
3	Drilling, Collection of core samples & DGPS Survey for BH fixation														
4	Laboratory Studies														
5	PS, OM & XRD studies														
6	Interpretation of analytical data, Finalization of lithologies, plates														
7	Review and report preparation/ Peer review														
8	Final Submission														

Agenda 29.1.2 Preliminary exploration for Graphite & associated mineralisation in Maramjhiri-Gauthana Block, Betul District, Madhya Pradesh.

ID:ME/IND/G3/MP/P/26-27/002

[Implementing Agency: M/s Vardan Environet LLP

- a) The proposed block of 1.15 sq. km area for preliminary exploration (G3), falls in Survey of India Toposheet no. 55G/13, in parts of Betul District, Madhya Pradesh. Approximately 95% of the block is within Protected Forest. The proposal was accorded in-principle approval in the 27th meeting of TCC-II held on 13th and 23rd April 2026.
- b) Approved Coordinate of the Proposed area (**0.5 sq.km**) as given below: -

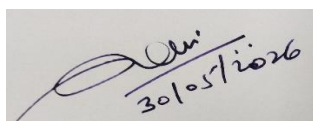
Corner Point	Latitude	Longitude
A	21°56'18.60"N	77°53'33.04"E
B	21°56'28.76"N	77°53'59.05"E
C	21°56'11.92"N	77°54'08.37"E
D	21°56'00.82"N	77°53'39.23"E

- c) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	GSI informed that multiple exploration activities (G-4 and G-2 stages) for graphite and associated minerals have been carried out in the Betul area, including surveys in Tikari–Gauthana–Chiklar and surrounding regions, as well as tungsten reconnaissance. The studies indicate graphite mineralisation extending over ~3.5 km with variable widths and 5–17.3% fixed carbon, hosted in metasedimentary rocks and structurally controlled zones. As the proposed block lies adjacent to the explored area, it is considered prospective for further exploration of graphite and associated minerals. Currently no exploration / reconnaissance projects related to Graphite & associated mineralisation and any other mineral/commodity is being carried out by GSI in the proposed area
2	DMG	DGM informed that the proposed area is fully covered under area previously proposed by M/s Kartikeya Exploration submitted earlier to NMEDT. The block lies adjacent to SW of an auctioned block.
3	MECL	The block proposed is not overlapping with explored block and ongoing blocks.
4	AMD	AMD informed that past G-4/G-3 stage uranium exploration has been carried out in and around the proposed block, which overlaps with previously explored AMD areas. Ongoing work includes radiometric surveys and geological mapping in the Gothana, Chiklar, and Betul areas. Grab samples (n=8) have shown up to 0.015% U ₃ O ₈ . Considering the uranium potential, analysis of uranium is recommended, and if any, during the exploration may be communicated to AMD for gamma ray logging.
5	NMEDT	There is no overlapping with NMEDT funded block in the proposed area.

- d) The agency informed the committee that, during FS 2012-13, Lenka B and Ahmad S.A. (GSI), have carried out large scale mapping followed by detailed mapping in parts of Chiklar, Gauthana and Tikari areas. They delineated the graphite bands for a cumulative strike length of 3.5 km and the bands were divided into three segments viz, the southern (1450 m strike length), the central (500 m strike length) and the northern band (1300 m strike length). Further, Lenka B (FS 2013-14) has carried out exploration by drilling in the above said area by means







of 7 boreholes in the area covering parts of the southern and central graphite bands, proving the 1.25 km strike length and estimated graphite resource of 4.73 MT. The proposed Maramjhiri-Gauthana block covers the northern part of southern graphite band that had explored only up to G4 level. The samples collected from graphite band yielded FC values to a maximum of 15.40 % with more than 75% of the samples within this band are of more than 5% FC. The promising nature of the band is also indicated by the presence of old working indicating ancient mining activity. Southern part of the southern graphite band had been explored up to UNFC G-2 stage & successfully auctioned.

- e) The reconnaissance field work in the proposed block area was also carried out by Vardan Environet LLP. The litho units observed in the area were Gneiss, Quartz Mica Schist, Graphite Schist, Quartzite, Pegmatite. Bed rock samples from graphite schist were also collected. One sample collected from the extended part of the earlier exposed band analysed 7.25% FC.
- f) The agency informed the committee that the detail mapping and geophysical surveys have already been done during previous explorations in the proposed area. The agency proposed drilling in 9 boreholes (BHs), including 4 BHs each in 1st and 2nd level and 1 BH in 3rd level, in the southern graphite band. The committee agreed to recommend the proposed drilling and advised that the borehole depth should be justified by the presence of mineralisation, and unnecessary drilling should be avoided.
- g) The Committee opined that the work shall be executed in a phased manner. Initially, geological mapping, integration of geophysical data, pitting/trenching, sampling, and subsequent chemical analysis will be carried out. Thereafter, the commencement of drilling will be decided based on the review of the results.

Recommendations of TCC-II

The Committee recommended the proposal for approval of PSC for “Preliminary exploration for Graphite & associated mineralisation in Maramjhiri-Gauthana Block, Betul District, Madhya Pradesh” with an estimated cost of ₹364.36/- lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of geological report as per Annexure – 3A & 3B. The item will be reviewed after 5 and 10 months.

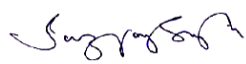
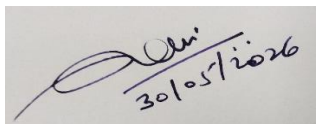

Estimated cost: - Preliminary exploration (G-3) for Graphite and associated mineralisation in Maramjhiri-Gauthana Block, Betul District, Madhya Pradesh,

Total Area: 0.5 sq. km; Drilling: 2050m (9 BHs); Timeline -12 months, Review after 5 and 10 months.

Implementing Agency: M/s Vardan Environet LLP

Sl. No.	Nature of Components	Unit	SoC Item No	Rate as per SoC	Quantum of Component	Cost of Component	Remarks
1	Detailed Geological Mapping Other Geological						DM already done
1a	Charges for 2 Geologist per day (Field) for drilling activity (without labour)	Per Day	1.2.1a	14500	120	17,40,000	
1b	Labours charges; Base rate (for 2 labours per geologists)	Per Day	5.8	541	240	1,29,840	
1c	Charges for Geologist per day (HQ)	Per Day	1.2.1a	10500	45	4,72,500	
Sub Total 1						23,42,340	
2	Survey work- Outsource						
2a	DGPS Survey for BH fixation and Cardinal Points of block- outsource	Per Point of observation of observation	1.3.2	24000	13	3,12,000	9 BHs & 4 Corner Points
Sub Total 2						3,12,000	
3	Diamond Core Drilling & allied work- Outsource						
3a	Systematic Drilling of First level, Second Level & Third level Borehole as per MEMC (Hard rock)	Per m	2.2.1.1 d	10000	2050	2,05,00,000	Four 1st level 4BHs (130m, 250m, 220m, 100m), Four 2nd level (195m, 300m, 280m, 200m) & One 3rd Level BHs of 375m
3b	Borehole deviation by multi shot camera	Per Shot	2.2.5	330	342	1,12,750	
3c	Drill core Preservation	Per m	5.3	1590	500	7,95,000	
Sub Total 3						2,14,07,750	
4	Charges for Sampling Party						
4a	Charges for one Sampler per day	one sampler per day	1.2.1b	7850	69	5,41,650	No of Core Sample= 700

4b	Charges labour engaged in sampling work (4 labour per sampler)	Per Day	5.8	541	276	1,49,316	
Sub Total 4						6,90,966	
5	Geochemical Study						
5a	Proximate Analysis of graphite bearing samples (primary sample)	Per Sample	4.1.18	3614	505	18,25,070	5 BRS + 500 CORE SAMPLE
5b	Proximate Analysis of graphite bearing samples (check sample)	Per Sample	4.1.18	3614	51	1,84,314	
5c	Major oxides by XRF (whole rock analysis) (Oxides + traces-24 elements) (primary samples)	Per Sample	4.1.17a	4200	20	84,000	20 CORE SAMPLE
5d	Major oxides by XRF (whole rock analysis) (Oxides + traces) (Check samples)	Per Sample	4.1.17a	4200	2	8,400	
5e	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U, Ta, Ge, Be, Hf, Sn, As, Rb, Th) by ICP-MS (sequential technique)	Per Sample	4.1.15	7400	20	1,48,000	20 CORE SAMPLE
5f	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U, Ta, Ge, Be, Hf, Sn, As, Rb, Th) by ICP-MS (sequential technique)	Per Sample	4.1.15	7400	2	14,800	
5g	XRD analysis for identification of minerals	Per Sample	4.5.2	4000	10	40,000	Including BRS & Core Sample
5h	Bulk Density	Per Sample	4.8.3	2500	9	22,500	≈ 1 per borehole
Sub Total 5						23,27,084	
6	Physical & Petrological/mineragraphic Studies						
6a	Preparation of polished thin section	Per Sample	4.3.2	800	5	4,000	
6b	Complete petrographic /ore microscopic study/mineragraphic	Per Sample	4.3.4	2800	5	14,000	

	report of rock sample (along with 5 nos. digital photo micrographs)						
Sub Total 6						18,000	
7	Technical Supervision Cost	Lumpsum	6			20,00,000	
Subtotal 7						20,00,000	
Total (1 to 7)						2,90,98,140	5,81,962.80
8	Tendering Process Cost	One time in case of outsourced components of project work	5.9			5,00,000	2% of Approved Project cost or 5 lakh whichever is lower
9	Geological Report Preparation	As per EC decision	5.2(iii)	750000	1	7,50,000	Total cost of the Project exceeding 150 lakh
10	Peer review charges	As per EC decision		30000	1	30,000	
11	Preparation of Exploration Proposal	lumpsum	5.1	500000	1	5,00,000	
12	Total Cost Without GST					3,08,78,140	
13	Provision for GST (18%)					55,58,065.20	
14	Total Cost With GST					3,64,36,205.20	
In Lakhs						364.36	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.						
3	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						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency.						

TIME SCHEDULE FOR PRELIMINARY EXPLORATION (G3) FOR GRAPHITE & ASSOCIATED MINERALISATION IN MARAMJHIRI GAUTHANA BLOCK, BETUL DISTRICT MADHYA PRADESH, (0.5 Sq. Km.; Scheduled Time line 12 months)

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

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30/05/2026

[Signature]

Agenda 29.1.3 Preliminary exploration (G-3 stage) For Bauxite and Associated Minerals in Kalar Vandh Area, Kachchh district, Gujarat.

ID:ME/IND/G3/GJ/P/26-27/003

[Implementing Agency: M/s Vardan Environet LLP]

- a) The proposed block of 6.68 sq. km for preliminary exploration (G3), falls in Survey of India Toposheet no. 41E/4, in parts of Kachchh district, Gujarat. The proposal was accorded in-principle approval in the 27th meeting of TCC-II held on 13th and 23rd April 2026.
- b) Approved Coordinate of the Proposed area (**1.66 sq. km.**) as given below: -

Corner Point	Latitude	Longitude
A	23°08'13.857" N	69°09'11.409" E
B	23°08'12.625" N	69°11'01.875" E
C	23°07'54.807" N	69°10'56.366" E
D	23°07'45.291" N	69°09'50.857" E
E	23°07'55.756" N	69°09'17.074" E
F	23°07'55.508" N	69°09'51.780" E
G	23°08'04.398" N	69°09'51.784" E

- c) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	Currently no exploration / reconnaissance projects related to Bauxite and Associated Minerals and any other mineral/commodity is being carried out by GSI in the proposed area
2	DMG	The proposed Kalar Vandh Bauxite Block (G-3), located in Kachchh District, Gujarat, covers an area of 6.68 sq. km (668 hectares). It is noted that one existing bauxite mining lease falls within the proposed block area, with an extent of 10.0934 hectares. Further, NOC for the said block has been issued to M/s. Vardan Environet LLP vide mail dated 23.01.2026.
3	MECL	The block proposed is not overlapping with explored block and ongoing blocks.
4	AMD	There is no ongoing exploration / reconnaissance project.
5	NMEDT	There is no overlapping with NMEDT funded block in the proposed area.

- d) The agency informed the committee that, CGM, Gujarat, via email dated 20/09/2025, has given a NOC approval to take up exploration/investigation in some blocks and the proposed Kalar Vandh Bauxite Block (G-3 stage) is one of them. In this area, bauxite deposits are associated with laterites of the Matanomadh formation. Nearby areas to the north have been explored by CGM through pitting, trenching, and drilling, reporting bauxite reserves of 1.07 million tonnes with average Al₂O₃ of 35.00% and SiO₂ of 4.50%. A total of 39 boreholes drilled in and around the area encountered up to 6 m thick bauxite zones. Presence of nearby bauxite leases also supports the proposal for G3 level

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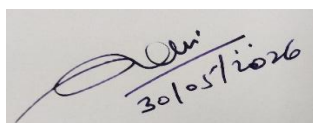
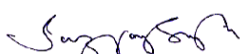
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exploration of the block. Geological mapping of Mesozoic and Tertiary rocks of Kachchh, by GSI, during FS 1981-82 & 1984-85 of the area, also reveals presence of Bauxite. It was also briefed by the agency that, as informed by the CGM, Gujarat, the Bauxite lease area located in the western part has been excluded from the proposed block.

- e) The committee advised revision of the proposed block boundary by excluding the northern part comprising the Gaj Formation and the southern part comprising Basalt. Accordingly, the agency modified the block boundary, and the final proposed area was reduced to **1.66 sq. km.**
- f) The committee recommended that, initially, total 315m of vertical drilling in 9 Boreholes (BHs) at a spacing of 200 m × 200 m shall be carried out in the exposed part of the block, followed by sampling. The committee advised that the borehole depth should be extended up to 35 m, only if justified by the presence of mineralisation, and unnecessary drilling should be avoided. Further drilling in 2nd level, will be decided on the basis of review of the initial drilling results.

Recommendations of TCC-II

The Committee recommended the proposal for approval of PSC for "Preliminary exploration (G-3 stage) For Bauxite and Associated Minerals in Kalar Vandh Area, Kachchh district, Gujarat." with an estimated cost of ₹83.44/- lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of geological report as per Annexure - 4A & 4B. The item will be reviewed after 3 and 6 months.



Cost Estimate for Preliminary exploration (G-3) for Bauxite and associated minerals in Kalar Vandh Block, Kachchh District, Gujarat
Total Area: 1.66 sq. km, Drilling: 315 m (9BHs), Schedule timeline- 10 months Review: After 3 and 6 Months
Implementing Agency: M/s Vardan Environet LLP

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	
A	Geological Mapping Other Geological Work & Surveying						
1	Geological mapping, ((1:4,000 Scale)) & Trenching, drilling work	Per Sq. Km.	1.1	18,300	1.66	30,378	
2	Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.2.1a	14,500	130	18,85,000	
3	2 labours/ party (As per rates of Central Labour Commissioner)	day	5.8	541	260	1,40,660	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
4	Charges for Geologist per day (HQ)	day	1.2.1a	10,500	45	4,72,500	
5	Sampling party days-1 Samplers Labour charge not included	one sampler per day	1.2.1b	7,850	26	2,04,100	
6	4 labours/ party (As per rates of Central Labour Commissioner)	day	5.8	541	104	56,264	
	Sub Total- A					27,88,902	
B	Survey work (1:4,000 Scale)- Outsource						

1	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.3.2	24,000	16	3,84,000	9BH+7 Cardinal points
2	Survey Party Days for topographical contour survey	day	1.3.1	10,500	30	3,15,000	Area :1.66 Sq.Km, 1:4000 Scale
3	4 labours/ party (As per rates of Central Labour Commissioner)	day	5.8	541	120	64,920	
	Sub-Total B					7,63,920	
C	DRILLING - Outsource						
1	Drilling - HQ up to 400m (Soft Rock)	Per m	2.2.1.1c	5,500	315	17,32,500	(9 BHx35m each) Borehole depth to be 35 m only when justified by presence of mineralization. Unnecessary drilling to be avoided.
2	Drill core Preservation	Per m	5.3	1,590	100	1,59,000	
	Sub Total C					18,91,500	
D	Laboratory Studies						
D.1	Chemical Analysis						
i)	Geochemical Sampling-Surface samples (Bedrock/Channel /Soil/Stream sediment)						
1	Major oxides (WD XRF)- (oxides+ traces -24 elements) primary samples	Per Sample	4.1.17a	4,200	154	6,46,800	BRS-27+Drill core-100+Geochemical line (9 line) (9*3=27)
2	Major oxides (WD XRF)- (oxides+ traces -24 elements) External (10%) Check samples	Per Sample	4.1.17a	4,200	15	63,000	
3	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U, Ta, Ge, Be, Hf, Sn, As, Rb, Th) by ICP-MS (sequential technique)	Per Sample	4.1.15	7,400	10	74,000	BRS-4+Drill core-6

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4	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U, Ta, Ge, Be, Hf, Sn, As, Rb, Th) by ICP-MS (sequential technique) Check sample	Per Sample	4.1.15	7,400	1	7,400	
5	Determination of Trihydrate Alumina (THA-140 C)	Per Sample	4.1.19b	5,000	5	25,000	Drill core-5
6	Determination of Reactive Silica	Per Sample	4.1.19d	5,000	5	25,000	Drill core-5
D.2	Physical, Petrological, Mineralogical Studies						
1	Preparation of polished thin section	Per Sample	4.3.2	800	2	1,600	
2	Preparation of unmounted polished section	Per Sample	4.3.3	700	3	2,100	
3	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo micrographs)	Per Sample	4.3.4	2,800	5	14,000	
4	Bulk Density Dry/Saturated	Per Sample	4.8.3	2,500	5	12,500	
5	XRD analysis for identification of minerals	Per Sample	4.5.2a	4,900	10	49,000	
	Sub Total D					9,20,400	
	Total A to D					63,64,722	
E	Technical Supervision Cost	Lumpsum	6			2,49,642	
F	Tendering Process Cost	One time in case of outsourced components of project work	5.9		1	49,928.40	2% of the Cost or Rs. 5.0 Lakhs whichever is less

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G	Geological Report Preparation	5 Hard copies with a soft copy	5.2(ii)	2,50,000	1	2,50,000	
H	Peer review Charges	As per EC decision		30,000	1	30,000	
I	Preparation of Exploration Proposal	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is less	1	1,27,294.44	
J	Total Estimated Cost without GST					70,71,587	
K	Provision for GST (18% of J)					12,72,885.63	GST will be reimbursed as per actual and as per notified prescribed rate
L	Total Estimated Cost with GST					83,44,472	
				or Say Rs. In Lakhs		83.44	
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						
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.						

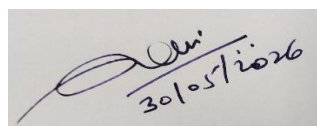
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**TIME SCHEDULE/ACTION PLAN FOR PRELIMINARY EXPLORATION (G-3 STAGE) FOR BAUXITE AND ASSOCIATED
MINERAL IN KALAR VANDH AREA, KACHCHH DISTRICT, GUJARAT, (1.66 Sq. Km.; Scheduled Timeline 10 months)**

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


Agenda 29.1.4 Reconnaissance survey for Bauxite, Laterite, Limestone, Vanadium, Gallium, Scandium and associated Critical minerals in Kapadvanj block, Kheda District, Gujarat.

ID:ME/DD/G4/GJ/26-27/009

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

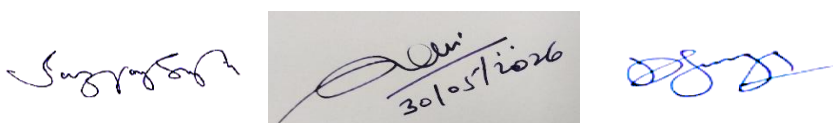
- a) The proposed reconnaissance survey (G4) of **64.9 sq. km** area falls in Survey of India Toposheet nos. 46F/1 & 46E/4, in parts of Kheda District, Gujarat.
- b) Approved Coordinate of the Proposed area (**47.5 sq. km.**) as given below: -

Corner Point	Latitude	Longitude
A	22°54'24.120"N	73°05'03.745"E
B	22°54'23.077"N	73°07'59.855"E
C	22°59'29.403"N	73°08'00.267"E
D	22°59'30.770"N	73°05'03.827"E

- c) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	Currently no exploration / reconnaissance projects related to Bauxite, Laterite, Vanadium, Gallium, Scandium and associated Critical minerals and any other mineral/commodity is being carried out by GSI in the proposed area
2	DMG	Kapadvanj block partially overlap with 1) Mirapur Bauxite Block (G4 level) and 2) Lasundra Bauxite Block (G3)- both blocks proposed during the workshop- NoC issued to Gems Projects Pvt Ltd dated 29.01.2026.
3	MECL	The block proposed is not overlapping with explored block and ongoing blocks.
4	AMD	There is no ongoing exploration / reconnaissance project.
5	NMEDT	North and South parts of the proposed block overlapped with already discussed projects of Lasundra and Mirapur blocks of GEMS projects Pvt. Ltd in 96th TCC-I.

- d) As informed by the CGM, Gujarat, the proposed area overlapped with blocks allotted to another NPEA. Accordingly, the Agency has excluded the overlapping portion, and the remaining area is about **47.5 sq. km.**
- e) The agency informed that, a detailed geological survey for bauxite around Ladvel, Dujavar, and nearby villages of Kapadvanj Taluka, Kheda District, conducted by the CGM, Gujarat during FS 1998-99, delineated 8 bauxite pockets associated with laterite through 1:8000 scale mapping. Chemical analysis of 10 pit samples indicated metallurgical grade bauxite with average Al₂O₃ of 52.03% and estimated reserves of 1.489 million tonnes.
- f) Further, 9 samples collected by Geo Marine Solutions Private Limited, identified occurrences of bauxite (Al₂O₃ - 42.85% & Fe₂O₃ - 15.31% & SiO₂ - 7.11%), aluminous laterite (40.45% Fe₂O₃ & 7.28% SiO₂), laterite (Al₂O₃ 12.08% to

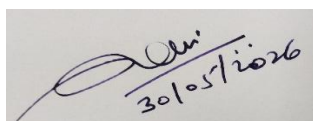
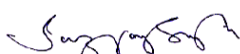
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16.30%, Fe₂O₃ 13.43% to 31.59% & SiO₂ from 5.17 to 11.68%), and limestone (CaO, 36.2% to 42.5%), along with encouraging trace element values of Sc (24.23 ppm to 50.25 ppm), Ga (30.17 ppm to 84.27 ppm) and V₂O₅ (0.06% to 0.18 %). Available NGCM geochemical data from stream sediment samples also indicated anomalous V₂O₅ values up to 66.23 ppm with corresponding Al₂O₃ contents up to 8.25%, TREE up to 47.15%, Ga (2.5 ppm), and Sc (1.75 ppm to 9 ppm) values, suggesting potential for associated critical mineral enrichment in the area.

- g) The committee advised modifications in the title of the proposal and agreed to recommend total 250m of drilling in 5 Boreholes (BHs) with average depth of 50m for each and advised that the borehole depth should be extended up to 50 m, only if justified by the presence of mineralisation, and unnecessary drilling should be avoided.

Recommendations of TCC-II

The Committee recommended the proposal for approval of PSC for "Reconnaissance survey for Bauxite and associated Critical minerals in Kapadvanj block, Kheda District, Gujarat." with an estimated cost of ₹103.10/- lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of geological report as per Annexure – 5A & 5B. The item will be reviewed after 3 and 6 months.



Cost Estimate for Reconnaissance Survey (G-4) for Bauxite and Associated Critical Minerals in Kapadvanj Area, Kheda District, Gujarat.
Total Area: 47.5 sq. km, Drilling: 250 m (BH: 5 nos.) Schedule timeline- 10 months; Review: After 3 and 6 Months
Implementing Agency: M/s Geomarine Solutions Pvt. Ltd.

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item No. *	Rates as per SoC *(a)	Qty.(b)	Total Amount (Rs)(a*b)	
A	Geological Mapping Other Geological Work & Surveying						
i	Geological mapping, (1:12,500 scale) & Trenching, drilling work - 47.5 sq.km	Per sq.km	1.1	18,300	47.5	8,69,250	
ii	a. Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.2.1a	14,500	120	17,40,000	
iii	b. Labours Charges; Base rate	day	5.8	541	240	1,29,840	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
iv	c. Charges for Geologist per day (HQ)	day	1.2.1a	10,500	45	4,72,500	
v	d. Charges for one Sampler per day (1 Party)	one sampler per day	1.2.1b	7,850	17	1,33,450	
vi	e. Labours (4 Nos)	day	5.8	541	68	36,788	
	Sub Total- A					33,81,828	
B	Survey work						
i	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.3.2	24,000	5	120000	5 Borehole points
	Sub-Total B					1,20,000	
C	Trenching/Pitting						
i	a) Excavation of Pits upto 2m depth	per cu. m	2.1.2	4,725	24	1,13,400	at 12 locations (1mx1mX2m)

D	DRILLING (after review) (In-house)						
i	Drilling up to 300m	m	2.2.1.1d	10,000	250	25,00,000	5 boreholes, Borehole depth to be 50 m only when justified by presence of mineralization. Unnecessary drilling to be avoided.
ii	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	30,000	5	150000	As per actuals as certified by local authorities subject to a maximum of Rs. 30,000 per borehole
iii	Miscellaneous Charges (Transportation of Drilling Rig, Accommodation for Drill Camp, Camp setting and winding, construction of Approach road	Lumpsum	2.2.9		1	6,25,000	
iv	Drill Core Preservation	per m	5.3	1,590	80	1,27,200	
	Sub Total D					34,02,200	
E	LABORATORY STUDIES						
1	Chemical Analysis						
i	Major oxides (WD XRF)- (oxides+ traces -24 elements) (Primary samples)	per sample	4.1.17a	4,200	100	4,20,000	24 Pit+ 76 CS
ii	Major oxides (WD XRF)- (oxides+ traces -24 elements) (Check Samples)	per sample	4.1.17a	4,200	10	42,000	
iii	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U, Ta, Ge, Be, Hf, Sn, As, Rb, Th) by ICP-MS (sequential technique) Primary samples	per sample	4.1.15	7,400	20	1,48,000	
iv	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element 10% Check Samples	per sample	4.1.15	7,400	2	14,800	
2	Physical & Petrological Studies						
i	Preparation of thin section	Nos	4.3.1	500	5	2,500	
ii	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo micrographs)	Nos	4.3.4	2,800	5	14,000	

iii	XRD analysis for identification of minerals	Nos	4.5.2	4,000	5	20,000	
						Sub Total G	6,61,300
						Total A to E	76,78,728
F	Geological Report Preparation		5.2	5.2 (ii)		2,50,000	Reimbursement will be made after submission of the final Geological Report in soft copy to NMET.
G	Peer review Charges	As per EC decision				30,000	
H	Preparation of Exploration Proposal	(5 Hard copies with a soft copy)	5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is less		1,53,575	EA will be reimbursed after submission of the soft copy of the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal.
I	Total Estimated Cost without GST					87,37,303	
J	Provision for GST (18% of I)					15,72,714	GST will be reimbursed as per actual and as per notified prescribed rate
K	Total Estimated Cost with GST					1,03,10,017	
						or Say Rs. In Lakhs	103.10
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						
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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Reconnaissance Survey (G-4) for Bauxite and associated critical minerals in Kapadvanj block, Kheda District, Gujarat.
Area: 47.5 sq. km.

S. No.		Months/Days	Month											
			1	2	3	4	5	6	7	8	9	10		
1	Camp Setting	Months												
2	Geological Mapping & Sampling	days												
3	Drone Topographic Survey days	days												
4	Pitting/Trenching	cu. m												
5	Surface Drilling (1 rig)	m												
6	Geochemical analysis	days												
7	Physical & Petrological Studies	days												
8	Camp Winding	months												
9	Laboratory Studies	Nos.												
10	Report Writing with Peer Review	months												

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Agenda 29.1.5 Reconnaissance for Base metals and associated minerals in the area between Patan and Kachariya villages, Ajmer and Jaipur districts, Rajasthan by Airborne (drone) Magnetic and Electro Magnetic methods.

ID: ME/DD/G4/RJ/26-27/002

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

- a) The proposed reconnaissance survey (G4) of 99 sq. km area falls in Survey of India Toposheet nos. 45J/14 & 45N/2, in parts of Ajmer and Jaipur districts, Rajasthan.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	At present, no project is being carried out in the proposed area; however, a minor overlap with the Harmara-Tiloniya G4 block (FS 2021-22) has been observed.
2	DMG	At present the 304.9730 hectares area of this proposal area conflicts with held mining leases/ letter of intents for minor mineral. 322.3931 hectares area of this proposal area conflicts with forest. This proposal area falls within periphery of notified boundaries of Ajmer Development Authority (ADA). This proposal area conflicts with earlier proposed Mandawariya-Silora NPEA block. This proposal area is conflicting with Aravali status as per FSI report, which is sub-judice at Hon'ble Supreme Court. As per aforesaid information, consent for exploration for this proposal is given excluding Minor Mineral held mining lease/letter of intent areas and NPEA may be advised to get necessary permission/clearances from Forest department, Government of Rajasthan and Ajmer Development Authority (ADA). In addition to this, exploration execution shall remain affected with decision of Hon'ble Supreme Court in this regard.
3	MECL	The block proposed is not overlapping with explored block and ongoing blocks.
4	NMEDT	Proposed block is overlapped with the several existing Minor Lease blocks. There is no overlapping with the NMEDT Funded projects as per NGDR Portal

- c) This proposal area is conflicting with Aravali status as per FSI report, which is sub-judice at Hon'ble Supreme Court of India.

Recommendations of TCC-II

The TCC-II Committee did not recommend the proposal, as the proposed area is falling under the Aravali status as per the FSI report, which is presently sub judice before the Hon'ble Supreme Court of India.

29.2 Review of Ongoing Projects/ Completed Project & Timeline Extension

Agenda 29.2.1 Preliminary exploration for REE and associated Minerals in Bhimgoda South Block, Balotra District, Rajasthan.

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

- a) The project was recommended in 11th TCC-II meeting held on 23rd, 24th, 25th and 30th July 2025, and approved in 1st PSC meeting held on 9th October 2025. The project was approved with a scheduled timeline of 18 months at a sanctioned cost of ₹897.45/- lakhs (including GST). The Sanction Order was issued on 10th November, 2025. Scheduled project completion timeline was **9th May 2027**.
- b) MECL informed that they have completed geological mapping on 1:2000 scale of 1.5 sq. km. out of approved 6.25 sq. km. area. Total 863m of drilling in 5 boreholes (BHs) have also been done against approved quantum of 4610m. So far, analysis of 2 BHs have been received. In BH no. MBGS-02, relatively higher value of \sum REE+Y has been observed in the brecciated part with average of 1585.62 ppm over 24 m thickness. In BH no. MBGS-01, value of \sum REE+Y ranges from 1054.13 ppm to 3198.65 ppm.
- c) The unclassified flows intersected in the boreholes require classification through petrographic studies and major oxide analysis. In this regard, the approved provision of 20 major oxide analyses and 25 petrographic studies may not be adequate, considering that the drilling has been carried out in very fine-grained volcanic flows. Further, the initially approved 1000 samples for analysis through ICP-MS may not be sufficient for 36 boreholes. It has been observed that approximately 70 samples are required per borehole, and accordingly, around 2500 samples may be generated from the block.
- d) Further, MECL sought approval of the Committee for payment of NPV for boreholes and associated CA charges against the demand notice issued for forest clearance and in the meanwhile drilling in rest of the 5 non-forest boreholes.
- e) The Committee opined that the matter of NPV for boreholes and associated (CA) charges should be deliberated in the joint TCC meeting, as similar issues may also arise in TCC-I. The Committee further observed that the views of NMEDT from the financial perspective are also required. Accordingly, the issue of NPV payment and other related payments for forest clearance shall be discussed in the upcoming joint TCC meeting of NMEDT for arriving at a conclusive decision.
- f) The Committee observed that review of the data from all 5 drilled boreholes is necessary to arrive at a conclusive observation. Accordingly, the Agency was advised to submit the project progress for review along with the data of all 5 drilled boreholes, once available. Further drilling in remaining boreholes in non-forest areas and additional proposed samples, will be decided after review in upcoming TCC Meeting. Study of mineral phases was also advised by the Committee.

Recommendations of TCC-II

- *The Committee advised the Agency to submit the project progress for review along with the data of all 5 drilled boreholes, once available. Study of mineral phases was also advised by the Committee.*
- *Further drilling in the remaining boreholes located in non-forest areas, as well as additional proposed samples, shall be decided after review.*

Agenda 29.2.2 Reconnaissance survey for REE and Associated Minerals in Pipargaon Area, West Karbi Anglong District, Assam.

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

- a) The project was recommended in 8th TCC-II meeting held on 28th, 29th April & 2nd May, 2025, and approved in 42nd EC meeting held on 2nd June, 2025. The project was approved with a scheduled timeline of 11 months at a sanctioned cost of ₹517.96/- lakhs (including GST). The

Sanction Order was issued on 20th June 2025. Scheduled project completion timeline was **19th May 2026**.

- b) MECL informed that geological mapping over an area of 65 sq. km on a 1:12,500 scale has been completed, along with collection of 50 bed rock samples (BRS), excavation of 10 cu. m in five pits, and collection of 15 soil samples from different horizons. Drilling, laboratory studies, and petrological studies are yet to be carried out. Further, MECL requested for timeline extension of 6 months up to 18th November, 2026, for completion of the project and submission of final geological report.
- c) The agency informed the committee that the exploration activity in the Pipargaon Block for REE & Associated Minerals was approved by NMEDT with a completion period up to 19 May 2026. However, due to delay in obtaining NoC from the Karbi Anglong Autonomous Council for carrying out exploration work, monsoon conditions, rugged terrain, dense forest cover, and local issues, the field work could commence only on 26 November 2025. Geological mapping, sampling, and pit excavation were completed by March 2026, and collected samples have been submitted for chemical analysis.
- d) The Committee agreed to recommend extension of the project timeline by **3 months, up to 18th August 2026**, for completion of the project and submission of the Final Geological Report. Commencement of drilling shall be decided after review of the analytical results of the BRS and pit samples.

Recommendations of TCC-II

- *The Committee recommended the proposal for approval of PSC for “timeline extension of 3 months, up to 18th August, 2026, for completion of the project and submission of the Final Geological Report”.*
- *Commencement of drilling shall be decided after review of the analytical results of the BRS and pit samples.*
- *The extension is sought due to delay in obtaining NoC from the Karbi Anglong Autonomous Council for carrying out exploration work, monsoon conditions, rugged terrain, dense forest cover, and local issues, owing to which the field work could commence only on 26 November 2025.*

Agenda 29.2.3 Reconnaissance survey for REE and associated minerals in Nakchi Area, Angul District, Odisha.

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

- a) The project was recommended in 80th TCC-I meeting held on 28th, 29th August & 1st September, 2025, and approved in 1st PSC meeting held on 9th October 2025. The project was approved with a scheduled timeline of 10 months at a sanctioned cost of ₹143.85/- lakhs (including GST). The Sanction Order was issued on 10th November, 2025. Scheduled project completion timeline is 09th September, 2026.
- b) MECL informed that, geological mapping over an area of 166.26 sq. km on a 1:12,500 scale has been completed, along with collection of 50 Stream Sediment Samples, 19 bed rock samples (BRS), excavation of 10 pits, and collection of 30 pit samples and 4 petrography samples. Values of TREE from collected stream sediment samples varies from 60.58 ppm to 4880.41 ppm with an average of 445.87 ppm.
- c) Further, MECL requested approval for an additional 50 stream sediment samples to ensure proper coverage and delineation of the REE source zone. MECL also informed that additional bed rock samples (BRS) are required for systematic sampling of the younger pegmatites, syenite, and mafic veins. Accordingly, they requested that the samples originally approved for auger drilling may be permitted to be utilized for stream sediment and BRS sampling.
- d) The Committee agreed for additional 20 stream sediment samples & 20 BRS by utilization of the samples originally approved for auger drilling.

- e) The Committee advised the Agency to prepare and compile detailed overlay maps, contour maps, spatial distribution maps etc., The Committee further directed that the prepared maps, along with their interpretations and findings, be presented in the forthcoming TCC meeting for detailed review.

Recommendations of TCC-II

- *The Committee agree for additional 20 stream sediment samples & 20 BRS by utilization of the samples originally approved for auger drilling”. There is no change in the project cost arising due to these additional samples.*
- *The Committee advised the Agency to prepare overlay maps, contour maps, spatial distribution maps etc., and present the same in the next TCC meeting.*

Agenda 29.2.4 Preliminary Exploration (G-3) for Limestone in West of Yepamadhavaram Block, Suryapet District, Telangana.

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

- a) The project was recommended in 80th TCC-I meeting held on 28th, 29th August & 1st September, 2025, and approved in 1st PSC meeting held on 9th October 2025. The project was approved with a scheduled timeline of 08 months at a sanctioned cost of ₹77.90/- lakhs (including GST). The Sanction Order was issued on 10th November, 2025. Scheduled project completion timeline is **9th July 2026**.
- b) MECL informed that, they have carried out geological mapping and topographical survey over an area of 4.16 sq. km on a 1:4000 scale, along with 250 m of drilling through 5 vertical boreholes (BHs). A total of 220 core samples were collected, and all samples have been analysed for major oxides. The geological report is currently under preparation. The estimated resources, calculated by the polygonal method with a bulk density of 2.71 g/cc, comprise 492.00 million tonnes of Cement Grade Limestone (51.30% CaO, 0.71% MgO, and 7.87% SiO₂) and 17.93 million tonnes of Blendable Grade Limestone (41.53% CaO, 0.58% MgO, and 20.49% SiO₂). Further, the Agency requested for Peer Review of the final geological report.
- c) Considering the above, the Committee agreed for peer review of the final Geological Report (GR) and advised the Agency to ensure submission of the GR within the stipulated timeline.

Recommendations of TCC-II

The Committee agreed for peer review of the final geological report (GR) and advised the Agency to ensure submission of the GR within the stipulated timeline.

Agenda 29.2.5 Preliminary exploration for Manganese and Associated Minerals in Kankura Block, West Singhbhum District, Jharkhand.

[Implementing Agency: M/s Natural Resource Division, Tata Steel Ltd]

- a) The project was recommended in 5th TCC-II meeting held on 27th, 28th and 29th January, 2025, and approved in 40th EC meeting held on 21st February, 2025. The project was approved with a scheduled timeline of **15 months** at a sanctioned cost of ₹395.78/- lakhs (including GST). The Sanction Order was issued on 10th March, 2025. Scheduled project completion timeline is **9th June, 2026**.
- b) The project was reviewed during 7th meeting of TCC-II held on 24th and 25th March, 2025, where in the committee recommended a revised estimated cost of ₹395.89/- lakhs (including GST) due to modification in SoC ref. no. 4.1.15a (XRF method) to 4.1.9 (complete analysis of dolomite/ limestone/ gypsum/ clay/ manganese ore/ bauxite/ iron ore samples), for Chemical analysis of BRS, channel/ groove samples as well as core samples. Further, the committee recommended the proposal for Topographical survey by Drone and DGPS @ ₹2,25,000/- per sq. km. Subsequently, the aforesaid recommendations could not be approved by the EC due to the non-availability of

the Schedule of Charges (SoC) rate for the proposed Drone Survey component. In the absence of an approved and standardized SoC rate, the Committee was unable to assess and finalize the financial implications associated with the proposed survey work.

- c) The project was reviewed again, during the 11th meeting of TCC-II held on 23rd, 24th, 25th & 30th July, 2025, wherein the committee advised geophysical survey in the central part of the area in 2nd phase of the project. Further, during the review in 26th TCC-II meeting held on 1st and 2nd April, 2026, the Committee recommended initiation of drilling in 10 boreholes, in the areas where geophysical anomalies are supported by surface indications of mineralization. It further advised that the project be reviewed after completion and analysis of results from five (05) boreholes.
- d) During the present meeting, the NRD, Tata Steel Ltd. informed that geological mapping over an area of 5.6 sq. km. on 1:5000 scale has been completed, along with drone based topographic survey, geophysical surveys (Magnetic, SP & IP), and sampling. However, drilling and chemical analysis are yet to be completed under the project. The Agency further informed that forest clearance for exploratory drilling is still under process. In view of the above, the Agency requested an extension of the project timeline by 6 months, i.e., up to 9th December 2026, to facilitate completion of the project.
- e) The project was planned in three phases. Phase-I activities were completed within the stipulated time; however, Phase-II (geophysical surveys) was delayed due to pending forest clearance, which was received in February 2026 after approximately six months. Subsequently, Phase-II was completed and approval to proceed with Phase-III (drilling activities) was accorded during the 26th TCC-II meeting held on 01 April 2026. The application for forest clearance for drilling activities was submitted on the PARIVESH portal on 05 May 2026 and is presently under process.
- f) In view of the above delays and the approaching project completion date, a request for extension of the project timeline by six months, i.e., from **09 June 2026 to 09 December 2026**, was submitted during the 29th TCC-II meeting held on 20 May 2026. The Committee principally accepted the request and advised submission of a month-wise activity completion plan to the NMEDT Secretariat without any further requirement of timeline extension.

Sl. No	Activities	May-26	Jun-26	July-26	Aug-26	Sep-26	Oct-26	Nov-26	Dec-26
1	Form-C (exempted category) approval (forest clearance)								
2	Completion of first 5 boreholes with chemical analysis								
3	Review for first 5 Boreholes by TCC-II								
4	Completion of remaining 9 boreholes with chemical analysis								
5	Petro-mineragraphic studies (thin-polished section, XRD, Trace elements)								
6	Geological Report (GR) preparation, Peer review & Submission								

- g) The Committee agreed to recommend a timeline extension of **6 months** for completion of the project and asked the Agency to submit a justification for timeline extension to NMEDT with justification for delay in scheduled project timeline.

Recommendations of TCC-II

- *The project was planned in three phases. Phase-II was delayed due to pending forest clearance, which was received in February 2026. Subsequently, approval to proceed with Phase-III (drilling activities) was accorded during the 26th TCC-II meeting held on 01 April 2026. The forest clearance application for drilling activities is presently under process.*
- *Owing to the above delays, The Committee recommended the proposal for approval of PSC for “timeline extension of 6 months up to 9th December 2026, for completion of the project and submission of final Geological Report”.*

Agenda 29.2.6 Reconnaissance Survey (G4) Exploration of Copper Bearing Minerals around Musabani, Dumriya, Maheshpur areas in West Singhbhum District, Jharkhand.

[Implementing Agency: M/s Natural Resource Division, Tata Steel Ltd]

- a) The project was recommended in 67th TCC meeting held on 24th, 25th and 26th July, 2024, and approved in 37th EC meeting held on 23rd September, 2024. The project was approved with a scheduled timeline of 10 months at a sanctioned cost of ₹288.14/- lakhs (including GST). The Sanction Order was issued on **30th October, 2024**. Scheduled project completion timeline was **29th August, 2025**.
- b) During the review, in the 11th TCC-II meeting held on 23rd, 24th, 25th and 30th July, 2025, the committee recommended timeline extension of **6 months** up to **28th February, 2026**, which was approved in the 1st PSC meeting held on 9th October, 2025. The project was reviewed again in 20th TCC-II meeting held on 2nd and 5th January, 2026, wherein the committee recommended the initial drilling in three of the boreholes based on geophysical interpretations, i. e. Borehole nos. 1 and 3 in the northern part of the block and one Borehole no. 5 in the southern part of Block. The committee opined that further borehole planning will be finalized after review of the results of these initial boreholes.
- Further, in the review during 23rd TCC-II meeting held on 16th and 17th February, 2026, the committee recommended timeline extension of **4 month** up to **30th June, 2026**, for completion of the project due to local agitation in the area. Subsequently, the recommendation was approved in the 6th PSC meeting held on 2nd March, 2026. During 25th TCC-II meeting held on 17th and 18th March, 2026, the committee suggested revision in the locations of the remaining boreholes and maintenance of a uniform core sampling length.
- c) During the present meeting, the NRD, Tata Steel Ltd. informed that geological mapping over an area of 166.26 sq. km. on 1:12,500 scale has been completed, along with geophysical surveys (magnetic and IP). The Agency further informed that chemical analysis of 372 samples, against the approved 400 samples, and 997 m of drilling in 5 boreholes, against the approved 1000 m, have been completed. In addition, 216 core samples have been analysed, while the EPMA study is currently in progress. Further, the Agency requested approval for analysis of an additional 50 core samples, along with 5 additional check samples, for completion of the analysis of the hanging wall and footwall zones. The Agency also requested peer review of the final Geological Report (GR).
- d) The Committee agreed to recommend analysis of an additional 50 core samples, along with 5 additional check samples, for completion of the analysis of the hanging wall and footwall zones. The Committee also agreed for peer review of the final Geological Report (GR).

Recommendations of TCC-II

- *The Committee recommended the proposal for approval of PSC for “a revised project cost of ₹293.61/- lakhs (including GST) against the approved cost of ₹288.14 Lakh (Including GST) as per Annexures 6, due to additional 50 core samples, along with 5 additional check samples, for completion of the analysis of hanging wall and footwall zones”.*
- *The Committee also agreed for peer review of the final Geological Report (GR).*

Estimated Cost for Reconnaissance Survey (G4) for Copper and Associated mineralisation in Musabani- Dumuria-Maheshpur area in East Singhbhum District, Jharkhand

**Name of the Exploration Agency - Natural Resources Division, Tata Steel Limited
Total Area - 166.296 Sq. Km; Completion Time - 15 Months; Reviews: 6 months, 9 months**

Sl. No	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Revised Estimated Cost of the Proposal		Remarks
			SoC-Item-S. No.	Rates as per SoC	Qty.	Total Amount (Rs)	Factor of multiplication	Total Amount (Rs)	
1	Phase-1: LSM at 1:12500 scale with BRS and Soil sampling, Chemical analysis, Mineragraphic study- 6 months								
1.1	Geologist - LSM (1:12500 scale) with BRS and Soil sampling (Field work)	Mandays	1.2	11000	200	22,00,000	200	22,00,000	1. 250m traverse spacing across the block. 2. Total traverse length 640 Km 3. GCP at 50m interval on traverse line or less 3. Daily minimum 2.0line Km traverse for data collection per geologist 4. 6 days working per week
1.2	Geologist: Project Manager at HQ (for overall supervision, liaisoning etc)	Mandays	1.2	9000	60	5,40,000	60	5,40,000	1 person, 6 days working per week
1.3	Labour charges (for sample collection, packaging, carrying)	Mandays	5.7	522	400	2,08,800	400	2,08,800	2 labour per team; Amount will be reimbursed as per the notified rates by the Central Labour Commission or respective State Govt. whichever is higher.
1.4	Charges for one sampler per day (for sample preparation)	Mandays	1.5.2	5100	83	4,23,300	83	4,23,300	1. 100 samples 2. 1 sampler to be deployed 3. 15 samples to be prepared in a day 4. 6 days working per week

1.5	Labour charges (for sample preparation)	Mandays	5.7	522	332	1,73,304	332	1,73,304	1. 4 persons per day 2. Minimum 15 samples to be prepared in a day Amount will be reimbursed as per the notified rates by the Central Labour Commission or respective State Govt. whichever is higher.
1.6	BRS and Soil sample analysis (a package of 34 elements by ICP-AES/ICP-MS (sequential technique)	No. of Samples	4.1.14	7731	400	30,92,400	400	30,92,400	1. 400 samples 2. Initially 100 samples 3. later rest 300 samples after review
1.7	QAQC Samples (10%)	No. of Samples	4.1.14	7731	40	3,09,240	40	3,09,240	1. 10% of the samples
1.8	Preparation of polished thin section of rock	No. of Samples	4.3.2	1549	30	46,470	30	46,470	
1.9	Complete mineragraphic report of rock samples	Per Sample	4.3.4	4232	30	1,26,960	30	1,26,960	
1.10	EPMA	No. of hours	4.4.1	8540	10	85,400	10	85,400	
						72,05,874		72,05,874	
2	Phase-II: Geophysical Survey -3 months- Outsourced								
2.1	Magnetic Surveys (10-30line Km)	No. of Stations	3.2a	1800	480	8,64,000	480	8,64,000	
2.2	Induced Polarization (Dipole-Dipole)	Line Km	3.4a	69950	20	13,99,000	20	13,99,000	

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2.3	Labour charges for assisting in geophysical survey	Mandays	5.7	500	0	0	0	0	1. 6 labour per day (2 for magnetic survey and 4 for IP survey) Amount will be reimbursed as per the notified rates by the Central Labour Commission or respective State Govt. whichever is higher.
2.4	Geophysicist man days for geophysical survey (field)	Mandays	3.18	11000	0	0	0	0	Daily 2line Km traverse 1 geophysicist 6 days working
2.5	Geophysicist man days for geophysical survey (HQ)	Mandays	3.18	9000	0	0	0	0	
						22,63,000		22,63,000	
3	Phase-III: Diamond core drilling (NQ size) and related activities - 4months - Outsourced								
3.1	Drilling up to a depth of 300m (normal rate)	Per m	2.2.1.3a	10100	1000	1,01,00,000	1000	10100000	5 boreholes; avg.200m depth
3.2	Drilling supervision, core logging, sampling advice	Mandays	1.2	11000	0	-	0	0	1. 1 geologist per rig 2. Total drilling days =50
3.3	Fixation of BH by DGPS	per point	1.6.2	19200	5	96,000	5	96000	
3.3	Borehole collar survey	Mandays	1.6.1a	8300	0	-	0	0	Using DGPS
3.4	Labour charges for assisting in collar survey	Mandays	5.7	500	0	-	0	0	1. 3 labour per day 2. 7 days work Amount will be reimbursed as per the notified rates by the Central Labour Commission or respective State Govt. whichever is higher.

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3.5	Transportation of drill rigs and trucks associated per drill (to and from Head quarters to drill site)	per KM	2.2.8	36	3752	-	3752	0	2 rigs to be deployed Nagpur to Mosabani one way distance is 938 Km.
3.6	Monthly accommodation for drilling camp	Monthly basis	2.2.9	50000	2	-	2	0	1. Daily effective drilling by 2 rigs = 20m 2. Total drilling days =50
3.7	Drilling camp setting cost	Per drill	2.2.9a	250000	2	-	2	0	
3.8	Drilling cam winding cost	Per drill	2.2.9b	250000	2	-	2	0	
3.9	Approach road making for flat terrain	per KM	2.2.10a	22020	2	-	2	0	Considered 2 BHs at flat terrain
3.10	Approach road making for rugged-hilly terrain	Mandays	2.2.10b	32200	3	-	3	0	Considered 3 BHs at rugged-hilly terrain
3.11	Project Manager at HQ (for overall supervision, liaisoning etc)	Mandays	1.2	9000	25	-	25	0	
3.12	Charges for one sampler per day (for sample preparation)	Mandays	1.5.2	5100	0	-	0	0	1. 200 samples 2.1 sampler to be deployed 3. 15 samples to be prepared in a day 4.6 Days working per week
3.13	Labour charges (for sample preparation)	Mandays	5.7	500	0	-	0	0	1. 4 persons per day 2. Minimum 15 samples to be prepared in a day Amount will be reimbursed as per the notified rates by the Central Labour Commission or respective State Govt. whichever is higher.

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3.14	Drill core sample analysis (a package of 34 elements by ICP-AES/ICP-MS (sequential technique)	No. of Samples	4.1.14	7731	200	15,46,200	250	1932750	1. 0.5m sample interval in the mineralized zone and 1.0m sample interval in HW and FW side of the mineralized zone 3m in both sides 50 additional samples considered.
3.15	External check samples 10%	No. of Samples	4.1.14	7731	20	1,54,620	25	193275	1. 10% of the samples
3.16	Drill core preservation		5.3	1590	300	4,77,000	300	4,77,000	
						1,23,73,820		1,27,99,025	
4	Project Cost without GST (1 to 3)					2,18,42,694		2,22,67,899	
5	Total Outsourced Cost					1,40,63,820		1,44,89,025	
6	Tendering process cost for outsourced activities		2.3			2,81,276		2,89,781	2% of the approved project cost or 5 lakh whichever is lower
7	Operational Charges against outsourced activities		6.0			10,78,191		10,99,451	
8	Peer review by external expert		As per EC decision			30,000		30,000	15 days
9	Geological Report preparation (@3% of the project cost or 7.5 lakh whichever is more)		5.2			7,50,000		7,50,000	
10	Preparation of exploration proposal					4,36,854		4,45,358	Reconnaissance survey exceeding Rs.150 lakh but less than 300 lakh; A minimum 7.5 lakhs or 2% of the value of the work whichever is more, Time required 1.5 months

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11	Total Project cost (without GST)					2,44,19,015		2,48,82,489
12	Total Project Cost with GST				18%	2,88,14,438		2,93,61,337
13	Rs. In Lacs					288.14		293.61

Note:

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

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Agenda 29.2.7 Preliminary survey for Limestone in Sangmania Block, Satna District, Madhya Pradesh.

[Implementing Agency: Madhya Pradesh State Mining Corporation Limited (MPSMCL)]

- a) The project was recommended in 1st TCC-II meeting held on 26th and 27th September, 2024, and approved in 38th EC meeting held on 29th November, 2024. The project was approved with a scheduled timeline of 10 months at a sanctioned cost of ₹112.65/- lakhs (including GST). The Sanction Order was issued on 13th December, 2024. Scheduled project completion timeline was **12th October, 2025**.
- b) The agency informed the committee that the project execution was affected by unavoidable field and seasonal constraints, which impacted the pace of implementation during the execution period. The committee asked the agency to submit the justification to NMEDT in this regard. The agency in its justification informed that the delay in exploration activities was mainly due to unavoidable monsoon conditions, restricted field accessibility caused by cultivation and standing crops, and difficulties in deployment of drilling machinery and field logistics.
- c) Further, the agency informed the committee, that the geological mapping, pitting, drilling, sampling, laboratory analysis, and resource estimation activities were carried out by the agency. The agency informed that substantial progress has been achieved and requested extension of the project timeline up to 31.07.2026 for completion of the remaining work, including Geological Report preparation, peer review, final submission, and project closure.
- d) The committee advised the agency to adhere to the norms of NMEDT regarding timely review and completion of projects. The committee recommended for the timeline extension of **9 month 18 days up to 31 July 2026** for completion of the remaining work, including Geological Report preparation, peer review, final submission, and project closure.


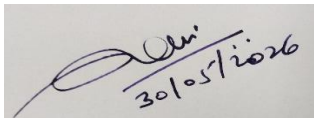

Recommendations of TCC-II

The committee recommended to PSC for the timeline extension of 9 month 18 days up to 31 July 2026 for completion of the remaining work, including Geological Report preparation, peer review, final submission, and project closure. Further, the Committee advised the agency to adhere to the norms and guidelines of NMEDT-funded exploration projects regarding timely review and completion of projects.

Agenda 29.2.8 Reconnaissance survey for Limestone in and around Nanhwara Kymore area, Katni District, Madhya Pradesh.

[Implementing Agency: M/s Engeotech Consultant]

- a) The project was recommended in the 3rd TCC-II meeting held on 5th and 6th December, 2024 and approved in the 39th EC meeting held on 24th January, 2025. The project was approved with a scheduled timeline of 10 months at a sanctioned cost of ₹70.15/- lakhs (including GST). The Sanction Order was issued on 10th February, 2025. Scheduled project completion timeline was 9th December, 2025.
- b) The project was reviewed in the 9th TCC-II meeting held on 29th & 30th May 2025, wherein the committee recommended a revised cost of ₹103.59/- Lakhs (including GST) due to additional drilling in 6 Boreholes (180m), which was subsequently approved in 43rd EC meeting held on 14th August, 2025. Further, In 19th TCC-II meeting held on 16th & 17th December, 2025, the Committee recommended dropping one borehole (PBH-3) and for granting a timeline extension of six months. Again, during the review in 20th TCC-II meeting held on 2nd & 5th January, 2026, the Committee recommended a revised cost from ₹103.59/- lakhs (including GST) to ₹98.40/- lakhs (including GST), as the borehole no. PBH-3 was not drilled due to local agitation. A timeline extension of **06 months**, up to **8th June 2026**, was

also recommended for submission of final Geological report, in view of delays caused by local agitation and the rainy season. Subsequently, these recommendations were approved in 4th PSC meeting held on 13th January, 2026.

- c) M/s Engeotech Consultant informed that geological mapping over an area of 22.52 sq. km. on 1:12,500 scale has been completed, along with pitting (3 pits), drilling (8 boreholes), sampling, and corresponding chemical analysis. Petrological studies have also been carried out. The Agency further informed that limestone resources of 280.03 million tonnes have been estimated for a cut-off grade of CaO >34% and MgO <5%. The average grade of Cement Grade Limestone has been estimated as CaO 43.05%, MgO 3.03%, and SiO₂ 14.37%, while the average grade of Blendable Grade Limestone has been estimated as CaO 36.69%, MgO 6.08%, and SiO₂ 17.70%. The Agency further requested timeline extension up to 30th June, 2026, for Peer Review and submission of the final geological report.
- d) The Committee agreed for peer review of the final geological report and recommended a timeline extension of **1 month** up to **8th July, 2026**, for the same.

Recommendations of TCC-II

The Committee recommended the proposal for approval of PSC for “timeline extension of 1 month up to 8th July 2026, for peer review and submission of the final geological report”.

Agenda 29.2.9 Preliminary exploration of Ion-Adsorption and Laterite Hosted Supergene Enriched REE Deposits in Sung Valley Block East Khasi and West Jaintia Hills Districts, Meghalaya.

[Implementing Agency: DMR, Meghalaya]

- a) The project was recommended in the 57th TCC meeting held on 26th & 27th September, 2023 and approved in the 32nd EC meeting held on 6th December, 2023. The project was approved with a scheduled timeline of 15 months at a sanctioned cost of ₹300.94/- lakhs (including GST). The Sanction Order was issued on 12th December, 2023. Scheduled project completion timeline was **11th March, 2025**.
- b) The project was reviewed in 11th meeting of TCC-II held on 23rd, 24th, 25th and 30th July, 2025, wherein the Committee recommended a timeline extension of **5 months** up to **9th November, 2025** for GR submission, which was approved in 1st PSC meeting held on 9th October, 2025. The project was reviewed again during the 18th meeting of TCC-II held on 4th & 8th December, 2025, where the Committee recommended a timeline extension of **4 months and 22 days** up to **31st March, 2026**, as the tender process for outsourcing certain components of the work was still in progress. Subsequently, it was approved in 4th PSC meeting held on 13th January, 2026. Further, during the 25th meeting of TCC-II held on 17th and 18th March, 2026, the Agency had informed that the bidding process for outsourced drilling under this project was currently in progress, so, the Committee advised the agency to expedite the tendering process and provide a firm timeline for completion of the project work. In its 28th meeting held on 7th and 8th May, 2026, since no presentation was made by the Agency, the TCC-II directed the Agency to present the progress of the project through a PowerPoint Presentation (PPT) in the next TCC-II meeting, based on which the further course of action for the project will be decided.
- c) During the present meeting, DMR, Meghalaya informed that, out of the assigned area of 7.1 sq. km., a total of 5.5 sq. km. has been mapped on 1:4000 scale, along with pitting/trenching, collection of BRS and soil samples, and drilling of 14.03 m in 1 borehole against the approved drilling target of 240 m in 6 boreholes. The Agency further informed that SEM and EPMA studies have also been completed. The Agency requested for a timeline extension of 8 months up to 30th November, 2026, This extension is sought due to continuous rainfall in the block area, time required for drilling operations, chemical analysis of core samples, and preparation

and submission of the final Geological Report (GR). The Agency also requested for additional 50 nos. of XRD analysis and additional 20 hours each for SEM & EPMA studies of core samples.

- d) The Committee suggested course correction measures to ensure proper soil sampling from the pits. The Committee advised revisiting the pit samples by preparing composite samples separately from the Saprolith and Pedolith zones and analysis of samples to be carried out at NABET accredited Labs. Simultaneously, drilling activities are to be continued. The Committee further stated that the analytical results of the pit samples, as suggested above, will be reviewed once the results become available. Additional samples/studies will be decided after review. Further, the Committee recommended an extension of the project timeline by 8 months.

Recommendations of TCC-II

- *The Committee recommended the proposal for approval of PSC for “timeline extension of 8 months up to 30th November, 2026, for project completion and submission of the final geological report.*
- *Analytical results of the pit samples, as suggested by the Committee, will be reviewed once the results become available.*
- **The extension is sought due to continuous rainfall in the block area, time required for drilling operations, chemical analysis of core samples, and preparation and submission of the final Geological Report (GR).**

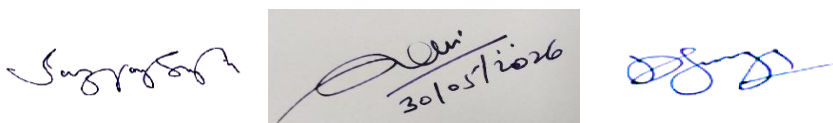
Agenda 29.2.10 Preliminary exploration for Limestone in Khongkha Block, Kiphire district, Nagaland.

[Implementing Agency: DGM, Nagaland]

- a) The project was recommended in the 5th TCC-II meeting held on 27th, 28th and 29th January, 2025. However, in 40th EC meeting held on 21st February, 2025, the project was deferred and EC instructed that a committee including members from GSI, MECL and IBM should visit the said limestone block and submit a report within one month on the commercial viability of Composite License at G-4 stage or whether the block can be upgraded to G-3 stage of investigation. Further, the approval of the project was ratified in the 42nd EC meeting held on 2nd June, 2025. The project was approved with a scheduled timeline of 15 months at a sanctioned cost of ₹765.98/- lakhs (including GST). The Sanction Order was issued on 26th March 2026. Scheduled project completion timeline was **25th June 2026**.
- b) DGM, Nagaland informed that, so far, 8 boreholes have been drilled in the block and 3 limestone bands have been identified. The average thickness in Band-1 comprises 48 m of limestone and 42 m of limestone with phyllite intercalation. In Band-2, the average thickness of limestone is 63 m, while in Band-3, it comprises 57 m of limestone and 9 m of limestone with phyllite intercalation. The strike lengths of Band-1, Band-2, and Band-3 have been estimated as 2.5 km, 0.5 km, and 0.6 km, respectively. In Band-1, the CaO content in limestone varies from 44.20% to 50.33%, whereas in limestone with phyllite intercalation, the CaO content varies from 32.13% to 39.68%. Further, the Agency informed that 2 more boreholes and chemical analysis for 7 borehole core samples are pending and requested timeline extension of **3 months up to 25th September 2026**.
- c) Considering the terrain conditions, remoteness of the location and limited accessibility of the block, the Committee agreed to recommend timeline extension of **3 months up to 25th September 2026** for completion of the project and submission of final geological report.

Recommendations of TCC-II

- **The Committee recommended the proposal for approval of PSC for “timeline extension of 3 months up to 25th September 2026 for project completion and submission of the final geological report.**



The image shows three handwritten signatures and dates. The first signature is in black ink and appears to be 'Suganya'. The second signature is in black ink and is dated '30/05/2026'. The third signature is in blue ink.

- **The extension is sought due to difficult terrain, remote location, and limited accessibility of the block, which delayed road development and mobilization of drilling rigs and exploration activities.**

Agenda 29.2.11 Preliminary exploration for Limestone in Mimi Kheti Block, Kiphire district, Nagaland.

[Implementing Agency: DGM, Nagaland]

- The project was recommended in the 5th TCC-II meeting held on 27th, 28th and 29th January, 2025, and approved in the 40th EC meeting held on 21st February, 2025. The project was approved with a scheduled timeline of 15 months at a sanctioned cost of ₹1166.70/- lakhs (including GST). The Sanction Order was issued on 5th March 2025. Scheduled project completion timeline 4th June 2025.
- DGM, Nagaland informed that, they have completed geological mapping over an area of 3.54 sq. km. on 1:4000 scale, along with topographical survey. So far, 898 m of drilling has been completed in 9 boreholes, while 1012 m of drilling remains pending in 11 boreholes. At present, drilling activities are continuing in one borehole. Further, sampling and corresponding chemical analysis are in progress. The Agency, requested a timeline extension of 9 months up to 28th February, 2027, for completion of the project and submission of final geological report, considering 5 months gap of rainy season till October 2026.
- In view of the difficult terrain conditions, the Committee agreed to recommend a timeline extension of **6 months up to 31st December 2026.**


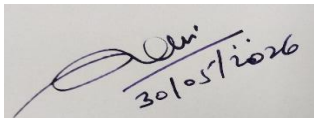

Recommendations of TCC-II

- **The Committee recommended the proposal for approval of PSC for “timeline extension of 6 months up to 31st December 2026, for project completion and submission of the final geological report.**
- **The extension is sought due to prolonged and incessant rainfall prevailing in the Nagaland block area up to October 2026, which has adversely affected field accessibility and drilling operations, along with the additional time required for chemical analysis of core samples and preparation and submission of the final Geological Report (GR).**

Agenda 29.2.12 Reconnaissance survey for Bauxite, Ga, V, Ti & REE in Lakhond area, Kachechh District, Gujarat.

[Implementing Agency: M/s Critical mineral trackers (CMT)]

- The project was recommended in 4th meeting of TCC-II held on 26th and 27th December, 2024, and approved in the 39th EC meeting held on 24th January, 2025. The project was approved with a scheduled timeline of 10 months at a sanctioned cost of ₹60.01/- lakhs (including GST). The Sanction Order was issued on 10th February, 2025. Scheduled project completion timeline was 9th December, 2025.
- The project was reviewed in 9th meeting of TCC-II held on 29th & 30th May, 2025, wherein the committee recommended the revised cost of ₹68.76/- Lakh (including GST) due to the change from outsourced drilling to in-house drilling in the project. The proposed revised cost was approved in 43rd meeting of EC held on 14th August, 2025. During the project review in 23rd TCC-II meeting held on 16th and 17th February, 2026, the committee recommended timeline extension up to **31st March, 2026**, for GR submission.
- Further, in the 25th TCC-II meeting held on 17th and 18th March, 2026 the Committee advised undertaking characterization of TREE, along with analysis of the enrichment/depletion of Sc in relation to Na, K, and Ca based on drill core sample chemistry; conducting thin-section studies of REE mineral phases in enriched zones; and providing a detailed discussion in the final Geological Report on the variation of TREE and other critical mineral contents, their

controlling factors with respect to the chemical environment, and identification of potential new prospective areas. The 25th TCC-II, recommended a revised cost of ₹62.55/- Lakh (including GST), due to incomplete drilling (11m drilled against approved 30m) in 4th borehole caused by complete water loss and timeline extension up to 31st March, 2026. Subsequently, these recommendations of revised cost & timeline extension were approved in 7th PSC meeting held on 27th March, 2026.

- d) During the review in 26th meeting of TCC-II held on 1st and 2nd April, 2026, the Committee recommended further timeline extension of **2 months**, up to **31st May, 2026**, for Peer Review & submission of the final GR with the advice to incorporate the Committee's recommendations made during the 25th TCC-II meeting and thereafter submission of the final Geological Report (GR) for peer review. Timeline extension up to 31st May, 2026, was approved in 8th PSC meeting held on 30th April, 2026.
- e) M/s Critical mineral trackers (CMT) informed that, Peer Review of the final geological report (GR) has been done and all modifications/corrections suggested by the peer reviewer have been incorporated in the GR. The Agency requested approval of the Committee for submission of the final GR.
- f) The Committee agreed for submission of the final geological report.

Recommendations of TCC-II

The Committee agreed for submission of the final geological report.

29.3 Technical Evaluation for In-Principle Approval

Agenda 29.3.1 Reconnaissance survey for Laterite-Hosted Bauxite and Associated Fe-Ti Mineralization in Parts of Chotanagpur Granite Gneissic Complex around Besna-Dokapat – Lupungpat Area, Chainpur Tehsil, Gumla District, Jharkhand.

ID- ME/IN/G4/JH/P/26-27/004.

[Implementing Agency: M/s Enkay Enviro Services Private Limited]

- a) The proposed reconnaissance survey (G4) of 60 sq. km area falls in Survey of India Toposheet no. 73A/07 & 73A/08, in parts of Gumla District, Jharkhand.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	GSI Critical Mineral Assessment Programme (CMAP) block already proposed for fs 2027-28 and submitted for IPR scrutiny overlap with the proposed block.
2	DMG	Not available
3	MECL	The block proposed is not overlapping with explored block and ongoing blocks.
4	AMD	There is no ongoing exploration / reconnaissance project.
5	NMEDT	The proposed block completely overlaps with the previously submitted Chakdipat Block by M/s GEMS Projects Private Limited, wherein the DGM informed vide letter dated 24.10.2025 that the area had already been undertaken for geological exploration under the name of Besna Bauxite Block. Further, the proposed block also overlaps with an earlier proposed block submitted by M/s Earthenviro Pvt. Ltd. dated 15th July 2025.

- c) The agency informed the committee that the Besna-Dokapat and Lupungpat blocks, situated within the Precambrian Chota Nagpur Granite Gneissic Complex, cover nearly 60 sq. km and fall within a recognized Bauxite OGP (Obvious Geological Potential) zone. The area partially overlapped earlier Geological Survey of India (GSI) investigations

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conducted during FS 1970–71 and 1977–83 and was largely free from forest cover. Geologically, the region was dominated by granite gneiss, associated basement rocks, and intratrappean/intertrappean clay horizons, which favored intense lateritisation and bauxite formation. Previous studies indicate that high Al₂O₃ concentrations were mainly confined to bauxite and aluminous laterite zones developed over granite–gneiss terrain. The presence of laterite-capped plateaus and well-developed weathering profiles further highlighted the strong potential of the area for laterite-hosted bauxite and associated mineralization.

- d) The Committee, after considering the issue of overlap, did not accord in-principle approval to the proposal.

Recommendations of TCC-II

The Committee did not accord in-principle-approval to the proposal.

Agenda 29.3.2 Preliminary exploration for Bauxite, Aluminous Laterite and Others minerals in Padel block, Devgad Taluka, Sindhudurg District, Maharashtra.

ID: (ME/IN/G3/MH/P/26-27/015).

[Implementing Agency: M/s PRB Infraprojects Private Limited]

- a) The proposed exploration survey (G3) of 7.2 sq. km area falls in Survey of India Toposheet no.47H/07, in parts of Sindhudurg District, Maharashtra.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	No mineral exploration programme is under execution by GSI in the proposed area. The proposed block falls within G4 exploration work for Bauxite and aluminous laterite in Padel area FS 2022-23.
2	DMG	The representative from state DGM informed the committee that the proposed block overlaps with coastal regulatory (CRZ) area.
3	MECL	The block proposed is not overlapping with explored block and ongoing blocks.
4	AMD	There is no ongoing exploration / reconnaissance project.
5	NMEDT	A slight portion of the proposed block falls in CRZ 1B zone, however CRZ 1A & CRZ 4B falls in the buffer zone (AOI) of the proposed block. There are no completed or ongoing NMEDT-funded projects in the proposed block.

- c) The committee after considering the issue of overlap of Coastal Regulation Zone (CRZ) with the proposed block, asked the DGM Maharashtra to submit its written reply to NMEDT and further advised DGM to share the overlapped area information to NPEA.
- d) The committee deferred the project for the upcoming TCC-II meeting and advised the agency to revise the area after taking input from DGM Maharashtra about the CRZ overlap.

Recommendations of TCC-II

The Committee deferred the proposal to the upcoming TCC meeting due to overlap with the Coastal Regulation Zone (CRZ) and advised the agency to revise the area.

Agenda 29.3.3 Preliminary exploration (G3) for Bauxite, Aluminous Laterite & other minerals in Wada block, Devgad Taluka, Sindhudurg District, Maharashtra.

ID: ME/IN/G3/MH/P/26-27/014.

[Implementing Agency: M/s PRB Infraprojects Private Limited]

- a) The proposed exploration survey (G3) of 12.0 sq. km area falls in Survey of India Toposheet no.47H/07, in parts of Sindhudurg District, Maharashtra.

b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	No mineral exploration programme is under execution by GSI in the proposed area. The proposed block falls within G4 exploration work for Bauxite and aluminous laterite in Padel area FS 2022-23.
2	DGM	The representative from state DGM informed the committee that the north side of proposed block overlaps about 1.98 sq. km with the Nadan Auction block of DGM Maharashtra.
3	MECL	The block proposed is not overlapping with explored block and ongoing blocks.
4	AMD	There is no ongoing exploration / reconnaissance project.
5	NMEDT	CRZ 1B falls in the buffer zone (AOI) of the proposed block. There are no completed or ongoing NMEDT-funded projects in the proposed block.

c) The committee after considering the comments, advised the agency to revise the area of the project after taking information of Auction block overlap area from DGM Maharashtra. The committee deferred the proposal for upcoming TCC-II meeting.

Recommendations of TCC-II

The Committee deferred the proposal to the upcoming TCC-II meeting due to overlap with Nadan auction block OF DGM Maharashtra and advised the agency to revise the area.

Agenda 29.3.4 Reconnaissance survey for Graphite and associated Minerals around

Janardhanapatnam-Talluru Villages District, Kakinada and Anakapalle, Andhra Pradesh.

[Implementing Agency: M/s APC Drilling & Construction Private Limited]

a) The proposed preliminary Exploration (G3) of 71.10 sq.km sq. km. area, falls in Survey of India Toposheet number 65K/07 & 65 K/11 in parts of Kakinada and Anakapalle, Andhra Pradesh.

The proposal was presented during 25th TCC-II meeting held on 17th and 18th March, 2026, wherein the Committee deferred the proposal as the complete geological information was not presented properly.

b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	The proposed NPEA block was covered by STM work during FS 2023-24. Exploration activity has not been done. No ongoing exploration projects in the area.
2	DMG	No ongoing exploration/reconnaissance projects related to Graphite and associated minerals and any other mineral/commodity in the proposed area
3	MECL	The block proposed is not overlapping with explored block and ongoing blocks.
4	AMD	There is no ongoing exploration / reconnaissance project.
5	NMEDT	There are no completed or ongoing NMEDT-funded projects in and around the proposed block.

c) The agency presented the proposal highlighting the previous STM work, FS 2023-24 carried out by the GSI, wherein the analyzed samples indicated Fixed Carbon values ranging from 0.47% to 3.99%. The committee observed that the background information provided by agency was inadequate to consider for G4 exploration. The block was carved out from the STM work of GSI,23-24 but agency could not verify location of BRS samples indicating

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mineralization.

- d) The committee advised the agency, to visit field area, to identify the potential litho-units, collection of 4 to 5 representative samples and show evidence of mineralisation by carrying out their chemical analysis. The Committee further advised that the previous data pertaining to the proposed block be examined through the NGDR portal, and the relevant details be incorporated in the proposal along with plotting of the sample locations on the map. The proposal may thereafter be resubmitted along with supporting previous data, findings of the field visit, and positive analytical results of the collected samples, if any.

Recommendations of TCC-II

The Committee deferred the proposal and advised visit field of the area, to identify potential litho-units, collection of 4 to 5 representative samples to show evidence of mineralisation by carrying out their chemical analysis. The previous data pertaining to the proposed block may be examined through the NGDR portal, and the relevant details be incorporated in the proposal along with plotting of the sample locations on the map. The proposal may thereafter be resubmitted along with supporting previous data, findings of the field visit, and positive analytical results of the collected samples.

Agenda 29.3.5 Preliminary exploration for Glauconite (Potash) and Associated Minerals in Jhalpani-Bharka Block District, Balod Bazari, Chhattisgarh.

[Implementing Agency: M/s APC Drilling & Construction Private Limited]

- a) The Committee referred to the earlier deliberations held during the 18th TCC-II meeting, wherein it was opined that the outcomes of ongoing and completed potash exploration projects approved under NMEDT funding should be reviewed prior to consideration of additional proposals pertaining to the same mineral commodity.
- b) During the present deliberations, the Committee referred to the earlier discussions and observed that details of completed as well as auctioned potash blocks located within and around the proposed block area should be made available for proper evaluation of the proposal. In this regard, the Committee advised NMEDT to collect and compile relevant block-wise information, including exploration status and auction details, to facilitate an informed decision in the forthcoming TCC meeting.
- c) The committee opined that the Potash-related blocks proposals may be discussed in Joint TCC meeting after availability of the data in this regard.

Recommendations of TCC-II

The Committee advised NMEDT to collect and compile relevant block-wise information, including exploration status and auction details of completed and auctioned potash blocks in and around the proposed area, for detailed examination of the proposal in the upcoming joint TCC meeting. Further, the Committee decided to keep the proposal on hold till the upcoming joint TCC meeting.

Agenda 29.3.6 Reconnaissance survey for REE & RM mineralization in Lakhana-Tarbod area, Nuapada, District, Odisha.

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

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

- a) The proposed area of 116 sq. km. for reconnaissance survey (G4), falls in Survey of India Toposheet no. 64L/10, in parts of Nuapada District, Odisha.

b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	The proposed block is overlapping with G4 stage REE and RM exploration blocks Bhela-Babupalli-Udaybandh area, of GSI, FS 2024-25 in the south and Graphite block in the east.
2	DoMG	The proposed block was partly covered by DoMG during F.S 1963-64. Within the proposed block, occurrences of graphite and Mn are located near Komna, Singari & Biswanathpur & Mahuabhata areas. Pegmatite are located around Jehupali area. But detail assessment is not done systematically. Moreover, the potentiality of REE & RM was not assessed.
3	MECL	A part of the proposed Lakhana-Tarbod block is overlapping with Chormunda Block which is under exploration by MECL.
4	AMD	There is no ongoing exploration / reconnaissance project.
5	NMEDT	Overlap with (Eco-sensitive Zone) ESZ of Sunabeda Wild Life Sanctuary. There are no completed or ongoing NMEDT-funded projects in and around the proposed block.

- c) The agency informed the committee that the block boundary has been revised based on the available information regarding overlap with the GSI G4 area and the MECL exploration block. Accordingly, the revised proposed area has been reduced to 121 sq. km. The agency further informed that, during their field visit, 4 samples were collected from the proposed area which indicated maximum TREE values up to 513.00 ppm (82.64 -513.87) ppm, THREE (33.99-102.04), TREE (116.63-558) ppm.
- d) The committee, based on NMEDT comments, observed that the modified block was showing considerable overlap with the ESZ of Sunabeda Wild Life Sanctuary.
- e) The Committee advised the Agency to refer to the GSI's G4 report for REE exploration, of FS 2024-25 and incorporate the available data in the proposal and revised the area by removing the overlapped part with ESZ.

Recommendations of TCC-II

The Committee deferred the proposal to the upcoming TCC-II meeting and advised the agency to refer to the GSI's G4 report for REE exploration, of FS 2024-25 and incorporate the available data in the proposal and revise the proposed area by removing the overlapped area with ESZ of Sunabeda Wild Life Sanctuary.

Agenda 29.3.7 Reconnaissance survey for REE & RM mineralization in Chatta Bhela block, Nuapada, District, Odisha.

ID: ME/IN/G4/OD/P/26-27/058.

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

- a) The proposed area of 102 sq. km. for reconnaissance survey (G4), falls in Survey of India Toposheet no. 64L/10, 64L/11 in parts of Nuapada District, Odisha.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	The proposed block is overlapping with G4 stage REE and RM exploration in Bhela-Babupalli-Udaybandh area of GSI, FS 2024-25. The proposed block is also partly overlapping with approved G3 stage REE and RM exploration block of GSI for FS 2026-27.
2	DoMG	The proposed block was partly covered by DoMG during F.S 1963-64. Within the proposed block, occurrences of graphite and Mn are located near Komna, Singari & Biswanathpur & Mahuabhata areas. Pegmatite are located around

		Jehupali area. But detail assessment is not done systematically. Moreover, the potentiality of REE & RM was not assessed.
3	MECL	No overlapping with the ongoing or completed blocks of MECL.
4	AMD	There is no ongoing exploration / reconnaissance project.
5	NMEDT	Overlap with (Eco-sensitive Zone) ESZ of Sunabeda Wild Life Sanctuary. There are no completed or ongoing NMEDT-funded projects in and around the proposed block.

- c) The committee observed that the proposed area showed almost complete overlap with GSI's exploration area (G4) for REE and RM exploration and major part overlapped with the ESZ of Sunabeda Wild Life Sanctuary. The committee did not accord the in-principle approval due to overlap issues.

Recommendations of TCC-II

The committee did not agree for in-principle-approval of the proposal due to overlap with GSI G4 work for REE and RM mineralization and ESZ of Sunabeda Wild Life Sanctuary.

Agenda 29.3.8 Reconnaissance survey (G4) for Aluminum, Gallium & Vanadium in the environs of Panandro Block, Kachchh District, Gujarat.


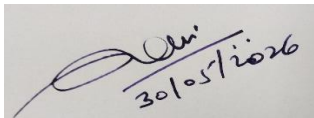

ID: ME/IN/G4/GJ/P/26-27/008.

[Implementing Agency: M/s GeoExpOre Private Limited]

- a) The proposed area of 331.20 sq. km. for reconnaissance survey (G4), falls in Survey of India Toposheet nos. 41A/9, 41A/10, 41A/11, 41A/14 & 41A/15 in parts of Kachchh District, Gujarat.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	The proposed block overlaps by approximately 82 sq. km with an earlier lignite exploration block previously investigated by GSI. However, no analytical work has been carried out for Aluminium, Gallium, Vanadium, or other associated minerals within this area.
2	CGM	This block was discussed in a one-day workshop conducted by CGM on 17.08.2024 and our office issued No Objection Certificate (NoC) for Panandro-Fulara Lignite Block (G4) to M/S GeoExpOre Pvt Ltd dated 11.11.2024 and revised block boundary NOC issued dated 04.01.2025. The private land applicant has proposed nine (09) Panandhro limestone blocks for G3 exploration, which fall within the Panandhro-Fulra Lignite Block.
3	MECL	Overlap with MECL Kachchh Tertiary Clay Laterite block assigned by CGM Gujarat.
4	AMD	There is no ongoing exploration / reconnaissance project.
5	NMEDT	Overlap with (Eco-sensitive Zone) ESZ of Narayan Sarovar Wild Life Sanctuary.

- c) The committee observed that NOC approval for an overlapping area has been granted by the CGM, Gujarat to both GeoExpOre Private Limited and Mineral Exploration & Consultancy Limited (MECL).
- d) The representatives from CGM Gujarat informed during the meeting that although NOC had earlier been granted to MECL, the exploration work was not initiated by them. Therefore, CGM Gujarat subsequently granted NOC for Lignite exploration to M/s Geoexplore Pvt. Ltd.
- e) The CGM Gujarat informed via emailed dated 21.5.2026 that their office had already issued

No Objection Certificate (NoC) for “Panandro–Fulara Lignite Block (G4 Stage)” to M/s GeoExpOre Pvt. Ltd. vide letter dated 11.11.2024. Further, revised block boundary NoC was also issued vide letter dated 04.01.2025. Moreover, it is to inform that the Panandro–Fulara Lignite Block (G4 Stage) is adjoining to the working GMDC lignite mining leases, namely: 1. Umarsar Lignite Project 2. Lakhapat–Punrajpur Lignite Project 3. Matano Madh Lignite Project.

- f) The Committee observed that the No Objection Certificate (NoC) granted to M/s GeoExpOre Pvt. Ltd. was for the “Panandro–Fulara Lignite Block (G4 Stage) however, the agency had proposed the said block for exploration of Aluminium, Gallium, and Vanadium commodities. Therefore, the Committee did not agree to accord approval to the proposal.

Recommendations of TCC-II

The committee did not agree for in-principle-approval of the proposal as the NoC was not given by CGM Gujarat to the agency for lignite and not for the exploration of Aluminium, Gallium, and Vanadium commodities.

Agenda 29.3.9 Reconnaissance survey for Base metal, Arsenic and associated minerals in Bansani-Singhitali block, Garhwa, District-, Jharkhand.

ID: ME/IN/G4/JH/P/25-26/042.

[Implementing Agency: M/s GEMS Project Private Limited]

- a) The proposed area of 71.7 sq. km. for reconnaissance survey (G4), falls in Survey of India Toposheet no. 63P/11 in parts of Garhwa, District-, Jharkhand
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	The proposed block shows overlap with GSI previous works STM FS 2020-22, FS 2017-18 for Potash and Phosphate (G4), FS 1960 for Galena, Potash and Phosphorite FS 2024-25. Currently GSI is not working in north part of the proposed area. GM Chaitaian Ghat block for Potash handed over to DMG lies close to north boundary of the proposed block.
2	DMG	The representative informed the committee that the northern part of the block belongs to Vindhyan and earlier work has been carried out for fertilizer minerals in the area.
3	MECL	No overlapping with the ongoing or completed blocks of MECL.
4	AMD	There is no ongoing exploration / reconnaissance project.
5	NMEDT	Overlaps with G3 auctionable Muskaniya block FS 2019-20 (GSI) for Potash fertilizer mineral . Proposed block buffer zone is overlapped with Chaitanian Ghat (G4/GM) exploration block (Phosphate & Potash Fertilizer Mineral) GSI FS 2017-19. Proposed block is slightly overlapped with the existing Mining Lease of M/s SAIL (RMD) Division.

- c) The agency informed the committee that the proposed block, lies within the northern part of the Chotanagpur Gneissic Complex (CGC), which is composed of a variety of metamorphic and igneous rocks such as granite gneiss, schists, quartzites, and amphibolites. The agency presented the geochemical analysis of NGCM data where arsenic (As) values reach up to 182 ppm, which was considerably higher than the background concentration and indicates the presence of a strong geochemical anomaly in the area. Similarly, lead (Pb) values recorded up to 70 ppm further suggest the possibility of base metal enrichment within the host rocks.
- d) The committee observed that a lot of work for fertilizer mineral exploration had already been done in the half northern part of the block. The committee advised the agency to revise the

- block area by removing the overlapping northern part.
- e) The committee further advised the agency to undertake a field visit, identify potential litho-units, collect 4–5 representative samples, and carry out their chemical analysis and show evidence of mineralization. The committee further advised that the stratigraphic sequence be incorporated in the legend of the geological map. The proposal may thereafter be resubmitted with the revised area, revised geological map as suggested by the committee, and positive analytical results of the samples collected during the field visit.

Recommendations of TCC-II

The Committee deferred the proposal and advised the agency to exclude the overlapping northern part of the block. It further advised the agency to undertake a field visit, identify potential litho-units, collect 4–5 representative samples, and carry out their chemical analysis. The proposal may thereafter be resubmitted with the revised area, revised geological map as suggested by the Committee, and positive analytical results of the samples collected during the field visit.

Agenda 29.3.10 Reconnaissance survey for Vanadium and associated Critical Minerals in Lateritic Rocks of Halli Block, Bidar District, Karnataka.

ID: ME/IN/G4/KA/P/26-27/041.

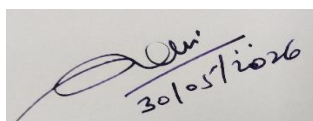
[Implementing Agency: M/s GMMCO Technology Services Limited]

- a) The proposed area of 100 sq. km. for reconnaissance survey (G4), falls in Survey of India Toposheet no. 56C/13 in parts of Bidar District, Karnataka.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	Critical Mineral Assessment Programme (CMAP) item in Matala block, FS 2026-27 falls in core of the presently proposed block. A G3 level exploration item in Ilhal block for critical mineral assessment is under rolling approval for FS 2026-27. This items boundary overlaps with the southernmost part of the proposed block.
2	DMG	Regional exploration was carried out during 1999-2000 in the Basavakalyan taluk covering an area of 150 sq. km focused on ferruginous laterite. There are no ongoing exploration projects of DMG in the proposed area. The proposed block overlaps with the Yarandi Block-2(GSI FS 2025-26) in the south eastern part.
3	MECL	No overlapping with the ongoing or completed blocks of MECL.
4	AMD	There is no ongoing exploration / reconnaissance project.
5	NMEDT	There is no overlapping with the NMEDT Funded projects.

- c) The agency informed the committee that the proposed block falls within the Deccan Plateau is characterized by Deccan Trap basalt flows overlain by laterite profiles, favourable for enrichment of critical minerals such as vanadium (V), scandium (Sc), cobalt (Co), and gallium (Ga). Vesicular basalts, zeolitic zones, and red bole horizons provide suitable sites for mineral concentration through lateritization. Regional studies by Chahong and Kiho (2023) reported vanadium values >600 ppm and scandium >50 ppm, while investigations by the Geological Survey of India in the adjoining Mudbi block (2025) recorded vanadium exceeding 1500 ppm, scandium >100 ppm, and cobalt up to 688 ppm. Borehole data confirmed near-surface mineralized zones averaging ~1860 ppm V (~0.25% V₂O₅). Further work by Deepu T.R. et al. (2025) reported vanadium up to 4280 ppm and scandium up to 104 ppm.
- d) The proposed area partially overlaps with the GSI's G4 of FS 2024-25.
- e) The committee opined that the outcome of the GSI work for FS 2026–27 will determine whether further adjoining areas should be considered for exploration. In case the results are







found to be positive, a fresh proposal with revised block boundaries may be submitted to the TCC for technical evaluation.

Recommendations of TCC-II

The Committee did not agree for in-principle-approval of the proposal as the area is under study by GSI (CMAP) FS 2026-27.

Agenda 29.3.11 Preliminary exploration (G3 stage) for aluminous laterite, titanium, vanadium, and associated critical minerals was carried out in the Mudbiwadi Block of Bidar District, Karnataka.

ID: (ME/IN/G3/KA/P/26-27/040).

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

- a) The proposed area of 3 sq. km. for preliminary exploration (G3), falls in Survey of India Toposheet no. 56C/14 in parts of Bidar District, Karnataka.
- b) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	The proposed block falls in the southern western part of the block carried out under Critical Mineral Assessment Programme for vanadium and associated critical minerals in lateritic rocks of Mudbi Block, Bidar District, Karnataka. FS 2024-25. In the proposed area, no exploration/reconnaissance projects are ongoing.
2	DMG	There is no ongoing exploration / reconnaissance project.
3	MECL	No overlapping with the ongoing or completed blocks of MECL.
4	AMD	There is no ongoing exploration / reconnaissance project.
5	NMEDT	There is no overlapping with the NMEDT Funded projects.

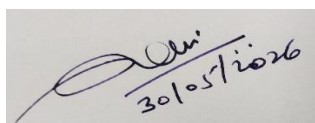
- a) The agency informed the committee that in the proposed block, Geological Survey of India (GSI, 2025) carried out Critical Mineral Assessment Programme (CMAP) on 1: 12,500 scale in the Mudbi block and delineated four potential zones within aluminous laterite, recommending the area for detailed investigation in this area and delineated four potential zones, out of which Zone-IV has been proposed. In this zone, analytical results of BRS, channel, and pit samples indicate Al₂O₃ values ranging from 14.36% to 30.48%, V values from 223 ppm to 2056 ppm, Sc values from 4 ppm to 200 ppm, and TO₂ values from 1.7% to 4.51%.
- b) Considering the promising analytical results above the Committee accorded in-principle-approval to the proposal.

Recommendations of TCC-II

The committee accorded in-principle approval to the project and suggested the agency to bring DPR within 2 months.

List of participants attended 29th meeting of Technical-cum-Cost Committee - II (TCC - II) of NMEDT held on 20th and 21st May 2026 through video conferencing mode

S.no	Name	Designation	Email ID	Contact No	Organization
1	Shri. Pradeep Singh	Dy. Director General, GSI, Kolkata	ddg.it@gsi.gov.in	9810233957	Chairman, TCC -II
2	Dr. S. Ravi	Dy. Director General, GSITI, Hyderabad	s.ravil@gsi.gov.in	9441138834	Chairman, TCC-1
3	Shri. Sanjay Singh	Director, GSI, Western Region, Jaipur	sanjay.singh3@gsi.gov.in	9928860884	Member Secretary TCC-II
4	Shri. B S Jodha	Dy. Director General (Retired), GSI	jodha1961@gmail.com	9414023478	Member TCC-II
5	Shri. Sunil Kumar Vashisth	GM (Retired), Hindustan Zinc Limited, Udaipur	sunilhzl@gmail.com	9829059236	Member TCC-II
6	Shri M. K. Patel	Dy. Director General (Retired), GSI	patelmk27@gmail.com	9040011231	Member TCC-II
7	Dr. T. S. Sunil Kumar	Addl. Director (Retired), AMD	ts.sunilkumar@gmail.com	9502560153	Member TCC-II
8	Shri. D. S. Jeere	Director, GSI, RSAS Bengaluru.	dattatreya.jeere@gsi.gov.in		Member TCC-II
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32	Shashi Kant Prasad	Geologist	gems.projects@yahoo.in	9934307900	Gems Projects Pvt Ltd
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34	Rituraj	Sr. Area Manager Geology	rituraj1@tatasteel.com	9438887801	Natural Resources Division-Tata Steel Limited
35	Fredy Mathews	MPSMCL Representative	info.mpsmc@mp.gov.in		MPSMCL
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41	Anand Kumar Raikwar	Geologist	engeotech@rediffmail.com	9098720237	Engeotech Consultant, Jabalpur, Madhya Pradesh
42	Ashutosh Chourasiya	Geologist	engeotech@rediffmail.com	7222949595	Engeotech Consultant, Jabalpur, Madhya Pradesh
43	Shri S.E.Kharmawlong	Geologist	sanborkharmawlong@gmail.com	90770 79401	Directorate of Mineral Resources
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Sugr...

30/05/2026

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**Government of India
Ministry of Mines
National Mineral Exploration Trust
Technical cum Cost Committee [TCC]**

F. No.: 6/4/2015-NMET/

New Delhi, 9th June 2026

Corrigendum

With reference to the Minutes of the 29th TCC-II Meeting held on 20th and 21st May 2026, the following modifications may be noted with respect to Agenda Items No. **29.1.2, 29.1.3, and 29.1.4**, in accordance with the instructions of the *9th PSC meeting regarding the rectification of the cost sheets*.

Agenda 29.1.2 Preliminary exploration for Graphite & associated mineralization in Maramjhiri-Gauthana Block, Betul District, Madhya Pradesh

ID:ME/IND/G3/MP/P/26-27/002

Implementing Agency: M/s Vardan Environet LLP

Agenda 29.1.3 Preliminary exploration (G-3 stage) For Bauxite and Associated Minerals in Kalar Vandh Area, Kachchh district, Gujarat

ID:ME/IND/G3/GJ/P/26-27/003

[Implementing Agency: M/s Vardan Environet LLP]

Agenda 29.1.4 Reconnaissance survey for Bauxite, Laterite, Limestone, Vanadium, Gallium, Scandium and associated Critical minerals in Kapadvanj block, Kheda District, Gujarat

ID:ME/DD/G4/GJ/26-27/009

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

The Agenda item nos. 29.1.2, 29.1.3 and 29.1.4 may now be read as follows:

Agenda 29.1.2 Preliminary exploration for Graphite & associated mineralisation in Maramjhiri-Gauthana Block, Betul District, Madhya Pradesh.

ID:ME/IND/G3/MP/P/26-27/002

[Implementing Agency: M/s Vardan Environment LLP]

- a) The proposed block of 1.15 sq. km area for preliminary exploration (G3), falls in Survey of India Toposheet no. 55G/13, in parts of Betul District, Madhya Pradesh. Approximately 95% of the block is within Protected Forest. The proposal was accorded in-principle approval in the 27th meeting of TCC-II held on 13th and 23rd April 2026.
- b) Approved Coordinate of the Proposed area (0.5 sq.km) as given below: -

Corner Point	Latitude	Longitude
A	21°56'18.60"N	77°53'33.04"E
B	21°56'28.76"N	77°53'59.05"E
C	21°56'11.92"N	77°54'08.37"E
D	21°56'00.82"N	77°53'39.23"E

- c) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	GSI informed that multiple exploration activities (G-4 and G-2 stages) for graphite and associated minerals have been carried out in the Betul area, including surveys in Tikari–Gauthana–Chiklar and surrounding regions, as well as tungsten reconnaissance. The studies indicate graphite mineralisation extending over ~3.5 km with variable widths and 5–17.3% fixed carbon, hosted in metasedimentary rocks and structurally controlled zones. As the proposed block lies adjacent to the explored area, it is considered prospective for further exploration of graphite and associated minerals. Currently no exploration / reconnaissance projects related to Graphite & associated mineralisation and any other mineral/commodity is being carried out by GSI in the proposed area
2	DMG	DGM informed that the proposed area is fully covered under area previously proposed by M/s Kartikeya Exploration submitted earlier to NMEDT. The block lies adjacent to SW of an auctioned block.
3	MECL	The block proposed is not overlapping with explored block and ongoing blocks.
4	AMD	AMD informed that past G-4/G-3 stage uranium exploration has been carried out in and around the proposed block, which overlaps with previously explored AMD areas. Ongoing work includes radiometric surveys and geological mapping in the Gothana, Chiklar, and Betul areas. Grab samples (n=8) have shown up to 0.015% U ₃ O ₈ . Considering the uranium potential, analysis of

		uranium is recommended, and if any, during the exploration may be communicated to AMD for gamma ray logging.
5	NMEDT	There is no overlapping with NMEDT funded block in the proposed area.

- d) The agency informed the committee that, during FS 2012-13, Lenka B and Ahmad S.A. (GSI), have carried out large scale mapping followed by detailed mapping in parts of Chiklar, Gauthana and Tikari areas. They delineated the graphite bands for a cumulative strike length of 3.5 km and the bands were divided into three segments viz, the southern (1450 m strike length), the central (500 m strike length) and the northern band (1300 m strike length). Further, Lenka B (FS 2013-14) has carried out exploration by drilling in the above said area by means of 7 boreholes in the area covering parts of the southern and central graphite bands, proving the 1.25 km strike length and estimated graphite resource of 4.73 MT. The proposed Maramjhiri-Gauthana block covers the northern part of southern graphite band that had explored only up to G4 level. The samples collected from graphite band yielded FC values to a maximum of 15.40 % with more than 75% of the samples within this band are of more than 5% FC. The promising nature of the band is also indicated by the presence of old working indicating ancient mining activity. Southern part of the southern graphite band had been explored up to UNFC G-2 stage & successfully auctioned.
- e) The reconnoiter field work in the proposed block area was also carried out by Vardan Environet LLP. The lithounits observed in the area were Gneiss, Quartz Mica Schist, Graphite Schist, Quartzite, Pegmatite. Bed rock samples from graphite schist were also collected. One sample collected from the extended part of the earlier exposed band analyse 7.25% FC.
- f) The agency informed the committee that the detail mapping and geophysical surveys have already been done during previous explorations in the proposed area. The agency proposed drilling in 9 boreholes (BHs), including 4 BHs each in 1st and 2nd level and 1 BH in 3rd level, in the southern graphite band. The Committee agreed to the proposed drilling quantum, subject to confirmation of the expected mineralisation during execution, and advised that the borehole depths shall be justified by actual geological intersections, with avoidance of unnecessary drilling.
- g) The Committee opined that the work shall be executed in a phased manner. Initially, geological mapping, integration of geophysical data, pitting/trenching, sampling, and subsequent chemical analysis will be carried out. Thereafter, the commencement of drilling will be decided based on the review of the results.

Recommendations of TCC-II

The Committee recommended the proposal for approval of PSC for “Preliminary exploration for Graphite & associated mineralisation in Maramjhiri-Gauthana Block, Betul District, Madhya Pradesh” with an estimated cost of ₹363.40/- lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of geological report as per Annexure – 3A & 3B. The item will be reviewed after 5 and 10 months.

**Cost Estimate for Preliminary exploration for Graphite and associated mineralisation in Maramjhiri-Gauthana Block,
Betul District, Madhya Pradesh,
Total Area: 0.5 sq. km; Drilling: 2050 m (9 BHs); Timeline -12 months, Review after 5 and 10 months.
Implementing Agency: M/s Vardan Environet LLP**

Sl. No.	Nature of Components	Unit	SoC Item No	Rate as per SoC	Quantum of Component	Cost of Component	Remarks
A	Detailed Geological Mapping Other Geological						DM already done
1	Charges for 2 Geologist per day (Field) for drilling activity (without labour)	Per Day	1.2.1a	14500	120	17,40,000.00	
2	Labours charges; Base rate (for 2 labours per geologists)	Per Day	5.8	541	240	1,29,840.00	
3	Charges for Geologist per day (HQ)	Per Day	1.2.1a	10500	45	4,72,500.00	
						Sub Total A	23,42,340.00
B	Survey work- Outsource						
1	DGPS Survey for BH fixation and Cardinal Points of block- outsource	Per Point of observation	1.3.2	24000	13	3,12,000.00	9 BHs & 4 Corner Points
						Sub Total B	3,12,000.00
C	Diamond Core Drilling & allied work						

1	Systematic Drilling of First level, Second Level & Third level Borehole as per MEMC (Hard rock) (Outsourced)	Per m	2.2.1.1 d	10000	2050	2,05,00,000.00	Four 1st level 4BHs (130m, 250m, 220m, 100m), Four 2nd level (195m, 300m, 280m, 200m) & One 3rd Level BHs of 375m
2	Borehole deviation by multi shot camera (Outsourced)	Per Shot	2.2.5	330	342	1,12,860.00	
3	Drill core Preservation	Per m	5.3	1590	500	7,95,000.00	
						Sub Total C	2,14,07,860.00
D	Charges for Sampling Party						
1	Charges for one Sampler per day	one sampler per day	1.2.1b	7850	69	5,41,650.00	No of Core Sample= 700
2	Charges labour engaged in sampling work (4 labour per sampler)	Per Day	5.8	541	276	1,49,316.00	
						Sub Total D	6,90,966.00
E	Geochemical Study						
1	Proximate Analysis of graphite bearing samples (primary sample)	Per Sample	4.1.18	3614	505	18,25,070.00	5 BRS + 500 CORE SAMPLE
2	Proximate Analysis of graphite bearing samples (check sample)	Per Sample	4.1.18	3614	51	1,84,314.00	

3	Major oxides by XRF (whole rock analysis) (Oxides + traces-24 elements) (primary samples)	Per Sample	4.1.17a	4200	20	84,000.00	20 CORE SAMPLE
4	Major oxides by XRF (whole rock analysis) (Oxides + traces) (Check samples)	Per Sample	4.1.17a	4200	2	8,400.00	
5	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS (sequential technique)	Per Sample	4.1.15	7400	20	1,48,000.00	20 CORE SAMPLE
6	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS (sequential technique)	Per Sample	4.1.15	7400	2	14,800.00	
7	XRD analysis for identification of minerals	Per Sample	4.5.2	4000	10	40,000.00	Including BRS & Core Sample
8	Bulk Density	Per Sample	4.8.3	2500	9	22,500.00	≈ 1 per borehole
						Sub Total E	23,27,084.00
F	Physical & Petrological/mineragraphic Studies						
1	Preparation of polished thin section	Per Sample	4.3.2	800	5	4,000.00	
2	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo micrographs)	Per Sample	4.3.4	2800	5	14,000.00	

						Sub Total F	18,000.00	
	Total Outsourced Component						2,09,24,860.00	For calculation reference only
G	Technical Supervision Cost	Lumpsum	6				20,00,000.00	
						Sub total G	20,00,000.00	
H	Tendering Process Cost	One time in case of outsourced components of project work	5.9				4,18,497.20	
						Total (A to H)	2,95,16,747.20	
I	Geological Report Preparation	5 Hard copies with a soft copy	5.2(iii)	750000	1		7,50,000.00	Total cost of the Project exceeding 150 lakh
J	Peer review charges	As per EC decision		30000	1		30,000.00	
K	Preparation of Exploration Proposal	lumpsum	5.1	500000	1		5,00,000.00	
L						Total Cost Without GST	3,07,96,747.20	
M						Provision for GST (18%)	55,43,414.50	
N						Total Cost With GST	3,63,40,161.70	
						In Lakhs	363.40	

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

**TIME SCHEDULE FOR PRELIMINARY EXPLORATION FOR GRAPHITE & ASSOCIATED MINERALISATION IN MARAMJHIRI GAUTHANA BLOCK,
BETUL DISTRICT MADHYA PRADESH, (0.5 Sq. Km.; Scheduled Time line 12 months)**

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

Agenda 29.1.3 Preliminary exploration (G-3 stage) For Bauxite and Associated Minerals in Kalar Vandh Area, Kachchh district, Gujarat.

ID:ME/IND/G3/GJ/P/26-27/003

[Implementing Agency: M/s Vardan Environet LLP]

- a) The proposed block of 6.68 sq. km for preliminary exploration (G3), falls in Survey of India Toposheet no. 41E/4, in parts of Kachchh district, Gujarat. The proposal was accorded in-principle approval in the 27th meeting of TCC-II held on 13th and 23rd April 2026.
- b) Approved Coordinate of the Proposed area (**1.66 sq. km.**) as given below: -

Corner Point	Latitude	Longitude
A	23°08'13.857" N	69°09'11.409" E
B	23°08'12.625" N	69°11'01.875" E
C	23°07'54.807" N	69°10'56.366" E
D	23°07'45.291" N	69°09'50.857" E
E	23°07'55.756" N	69°09'17.074" E
F	23°07'55.508" N	69°09'51.780" E
G	23°08'04.398" N	69°09'51.784" E

- c) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	Currently no exploration / reconnaissance projects related to Bauxite and Associated Minerals and any other mineral/commodity is being carried out by GSI in the proposed area
2	DMG	The proposed Kalar Vandh Bauxite Block (G-3), located in Kachchh District, Gujarat, covers an area of 6.68 sq. km (668 hectares). It is noted that one existing bauxite mining lease falls within the proposed block area, with an extent of 10.0934 hectares. Further, NOC for the said block has been issued to M/s. Vardan Environet LLP vide mail dated 23.01.2026.
3	MECL	The block proposed is not overlapping with explored block and ongoing blocks.
4	AMD	There is no ongoing exploration / reconnaissance project.
5	NMEDT	There is no overlapping with NMEDT funded block in the proposed area.

- d) The agency informed the committee that, CGM, Gujarat, via email dated 20/09/2025, has given a NOC approval to take up exploration/investigation in some blocks and the proposed Kalar Vandh Bauxite Block (G-3 stage) is one of them. In this area, bauxite deposits are associated with laterites of the Matanomadh formation. Nearby areas to the north have been explored by CGM through pitting, trenching, and drilling, reporting bauxite reserves of 1.07 million tonnes with average Al₂O₃ of 35.00% and SiO₂ of 4.50%. A total of 39 boreholes drilled in and around the area encountered up to 6 m thick bauxite zones. Presence of nearby bauxite leases also supports the proposal for G3 level exploration of the block. Geological mapping of Mesozoic and Tertiary rocks of Kachchh, by GSI, during FS 1981-82 & 1984-85 of the area, also reveals presence of Bauxite. It was also briefed by the agency that, as informed by the CGM, Gujarat, the Bauxite lease area located in the western part has been excluded from the proposed block.
- e) The committee advised revision of the proposed block boundary by excluding the northern part comprising the Gaj Formation and the southern part comprising Basalt. Accordingly, the agency modified the block boundary, and the final proposed area was reduced to **1.66 sq. km.**
- f) The committee recommended that, initially, total 315m of vertical drilling in 9 Boreholes (BHs) at a spacing of 200 m × 200 m shall be carried out in the exposed part of the block, followed by sampling. The committee advised that the borehole depth should be extended up to 35 m, only if justified by the presence of mineralisation, and unnecessary drilling should be avoided. Further drilling in 2nd level, will be decided on the basis of review of the initial drilling results.

Recommendations of TCC-II

The Committee recommended the proposal for approval of PSC for “Preliminary exploration (G-3 stage) For Bauxite and Associated Minerals in Kalar Vandh Area, Kachchh district, Gujarat.” with an estimated cost of ₹82.64/- lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of geological report as per Annexure - 4A & 4B. The item will be reviewed after 3 and 6 months.

Cost Estimate for Preliminary exploration (G-3) for Bauxite and associated minerals in Kalar Vandh Block, Kachchh District, Gujarat
Total Area: 1.66 sq. km, Drilling: 315 m (9BHs), Schedule timeline- 10 months Review: After 3 and 6 Months
Implementing Agency: M/s Vardan Environet LLP

	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item No.	Rates as per SoC (a)	Qty. (b)	Total Amount (Rs) (a*b)	
A	Geological Mapping Other Geological Work & Surveying						
1	Geological mapping, ((1:4,000 Scale)) & Trenching , drilling work	per sq. Km.	1.1	18,300	1.66	30,378.00	
2	Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.2.1a	14,500	130	18,85,000.00	
3	2 labours/ party (As per rates of Central Labour Commissioner)	day	5.8	541	260	1,40,660.00	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.

4	Charges for Geologist per day (HQ)	day	1.2.1a	10,500	45	4,72,500.00	
5	Sampling party days-1 Samplers Labour charge not included	one sampler per day	1.2.1b	7,850	26	2,04,100.00	
6	4 labours/ party (As per rates of Central Labour Commissioner)	day	5.8	541	104	56,264.00	
Sub Total- A						27,88,902.00	
B	Survey work (1:4,000 Scale)- Outsource						
1	DGPS Survey for BH fixation & RL determination	Per Point of observati on	1.3.2	24,000	16	3,84,000.00	9BH+7 Cardinal points
2	Surveyor for topographical contour survey	day	1.3.1	10,500	30	3,15,000.00	Area :1.66sq.Km, 1:4000 Scale
Sub-Total B						6,99,000.00	
C	DRILLING - Outsource						
1	Drilling - HQ up to 400m (Soft Rock)	Per m	2.2.1.1 c	5,500	315	17,32,500.00	(9BHx35m each) Borehole depth to be 35 m only when justified by presence of mineralization. Unnecessary drilling to be avoided.
2	Drill core Preservation	Per m	5.3	1,590	100	1,59,000.00	
Sub Total C						18,91,500.00	
D	LABORATORY STUDIES						
D.1	Chemical Analysis						

	Primary & Check samples for Bauxite BRS/Chip/Channel/Trench/BH samples) Major Oxide Analysis						
1	Major oxides (WD XRF)- (oxides+ traces -24 elements) primary samples	Per Sample	4.1.17 a	4,200	154	6,46,800.00	BRS-27+Drill core-100+Geochemical line (9 line)- (9*3=27)
2	Major oxides (WD XRF)- (oxides+ traces -24 elements) External (10%) Check samples	Per Sample	4.1.17 a	4,200	15	63,000.00	
3	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS (sequential technique)	Per Sample	4.1.15	7,400	10	74,000.00	BRS-4+Drill core-6
4	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS (sequential technique) Check sample	Per Sample	4.1.15	7,400	1	7,400.00	
5	Determination of Trihydrate Alumina (THA-140 C)	Per Sample	4.1.19 b	5,000	5	25,000.00	Drill core-5
6	Determination of Reactive Silica	Per Sample	4.1.19 d	5,000	5	25,000.00	Drill core-5
D.2	Physical, Petrological, Mineralogical Studies						
1	Preparation of polished thin section	Per Sample	4.3.2	800	2	1,600.00	
2	Preparation of unmounted polished section	Per Sample	4.3.3	700	3	2,100.00	
3	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo micrographs)	Per Sample	4.3.4	2,800	5	14,000.00	

4	Bulk Density Dry/ Saturated	Per Sample	4.8.3	2,500	5	12,500.00	
5	XRD analysis for identification of minerals	Per Sample	4.5.2a	4,900	10	49,000.00	
Sub Total D						9,20,400.00	
Total A to D						62,99,802.00	
Total Outsourced Component						24,31,500.00	For calculation reference only
E	Technical Supervision Cost	Lumpsum	6			2,43,150.00	
F	Tendering Process Cost	One time in case of outsourced components of project work	5.9		1	48,630.00	2% of the Cost or Rs. 5.0 Lakhs whichever is less
Total Project Cost						65,91,582.00	
G	Geological Report Preparation	5 Hard copies with a soft copy	5.2(ii)	2,50,000	1	2,50,000.00	
H	Peer review Charges	As per EC decision		30,000	1	30,000.00	
I	Preparation of Exploration Proposal	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5.0 Lakhs	1	1,31,832	

				whichever is less				
J	Total Estimated Cost without GST						70,03,414	
K	Provision for GST (18% of J)						12,60,615	GST will be reimbursed as per actual and as per notified prescribed rate
L	Total Estimated Cost with GST						82,64,029	
				or Say Rs. In Lakhs		82.64		
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							
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.							
5	Any item of work not mentioned above shall be added as per SoC.							
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency							

Time schedule for Preliminary exploration (G-3) for Bauxite and associated minerals in Kalar Vandh Block, Kachchh District, Gujarat
Total Area: 1.66 sq. km, Drilling: 315 m (9BHs), Schedule timeline- 10 months Review: After 3 and 6 Months
Implementing Agency: M/s Vardan Environet LLP

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

Agenda 29.1.4 Reconnaissance survey for Bauxite, Laterite, Limestone, Vanadium, Gallium, Scandium and associated Critical minerals in Kapadvanj block, Kheda District, Gujarat.

ID:ME/DD/G4/GJ/26-27/009

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

- a) The proposed reconnaissance survey (G4) of **64.9 sq. km** area falls in Survey of India Toposheet nos. 46F/1 & 46E/4, in parts of Kheda District, Gujarat.
- b) Approved Coordinate of the Proposed area (**47.5 sq. km.**) as given below: -

Corner Point	Latitude	Longitude
A	22°54'24.120"N	73°05'03.745"E
B	22°54'23.077"N	73°07'59.855"E
C	22°59'29.403"N	73°08'00.267"E
D	22°59'30.770"N	73°05'03.827"E

- c) The table containing the comments is given below:

S.N.	Agency	Comment
1	GSI	Currently no exploration / reconnaissance projects related to Bauxite, Laterite, Vanadium, Gallium, Scandium and associated Critical minerals and any other mineral/commodity is being carried out by GSI in the proposed area
2	DMG	Kapadvanj block partially overlap with 1) Mirapur Bauxite Block (G4 level) and 2) Lasundra Bauxite Block (G3)- both blocks proposed during the workshop- NoC issued to Gems Projects Pvt Ltd dated 29.01.2026.
3	MECL	The block proposed is not overlapping with explored block and ongoing blocks.
4	AMD	There is no ongoing exploration / reconnaissance project.
5	NMEDT	North and South parts of the proposed block overlapped with already discussed projects of Lasundra and Mirapur blocks of GEMS projects Pvt. Ltd in 96th TCC-I.

- d) As informed by the CGM, Gujarat, the proposed area overlapped with blocks allotted to another NPEA. Accordingly, the Agency has excluded the overlapping

- portion, and the remaining area is about **47.5 sq. km.**
- e) The agency informed that, a detailed geological survey for bauxite around Ladvel, Dujear, and nearby villages of Kapadvanj Taluka, Kheda District, conducted by the CGM, Gujarat during FS 1998–99, delineated 8 bauxite pockets associated with laterite through 1:8000 scale mapping. Chemical analysis of 10 pit samples indicated metallurgical grade bauxite with average Al_2O_3 of 52.03% and estimated reserves of 1.489 million tonnes.
 - f) Further, 9 samples collected by Geo Marine Solutions Private Limited, identified occurrences of bauxite (Al_2O_3 - 42.85% & Fe_2O_3 - 15.31% & SiO_2 - 7.11%), aluminous laterite (40.45% Fe_2O_3 & 7.28% SiO_2), laterite (Al_2O_3 12.08% to 16.30%, Fe_2O_3 13.43% to 31.59% & SiO_2 from 5.17 to 11.68%), and limestone (CaO , 36.2% to 42.5%), along with encouraging trace element values of Sc (24.23 ppm to 50.25 ppm), Ga (30.17 ppm to 84.27 ppm) and V_2O_5 (0.06% to 0.18 %). Available NGCM geochemical data from stream sediment samples also indicated anomalous V_2O_5 values up to 66.23 ppm with corresponding Al_2O_3 contents up to 8.25%, Ga (2.5 ppm), and Sc (1.75 ppm to 9 ppm) values, suggesting potential for associated critical mineral enrichment in the area.
 - g) The committee advised modifications in the title of the proposal and agreed to recommend total 250m of drilling in 5 Boreholes (BHs) with average depth of 50m for each and advised that the borehole depth should be extended up to 50 m, only if justified by the presence of mineralisation, and unnecessary drilling should be avoided.

Recommendations of TCC-II

The Committee recommended the proposal for approval of PSC for “Reconnaissance survey for Bauxite and associated Critical minerals in Kapadvanj block, Kheda District, Gujarat.” with an estimated cost of ₹78.80/- lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of geological report as per Annexure - 5A & 5B. The item will be reviewed after 3 and 6 months

**Cost Estimate for Reconnaissance survey for Bauxite and associated Critical minerals in Kapadvanj block, Kheda District, Gujarat.
Total Area: 47.5 sq. km, Drilling: 250 m (BH: 5 no.s) Schedule timeline- 10 months; Review: After 3 and 6 Months
Implementing Agency: M/s Geomarine Solutions Pvt. Ltd.**

S. No.	Item of Work	Unit	Rates as per NMET SoC 2020-21		Estimated Cost of the Proposal		Remarks
			SoC-Item No.	Rates as per SoC (a)	Qty. (b)	Total Amount (Rs) (a*b)	
A	Geological Mapping Other Geological Work & Surveying						
	Geological mapping, (1:12,500 scale) & Trenching , drilling work - 47.5 sq.km	Per sq.km	1.1	18,300	47.5	8,69,250	
1	Charges for Geologist per day (Field) for geological mapping & trenching work, drilling work	day	1.2.1a	14,500	120	17,40,000	
2	Labours Charges; Base rate	day	5.8	541	240	1,29,840	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or

							respective State Govt. whichever is higher.
3	Charges for Geologist per day (HQ)	day	1.2.1a	10,500	45	4,72,500	
4	Charges for one Sampler per day (1 Party)	one sampler per day	1.2.1b	7,850	17	1,33,450	
5	Labours for Sampler (4 Nos)	day	5.8	541	68	36,788	
Sub Total- A						33,81,828	
B	Survey work						
1	DGPS Survey for BH fixation & RL determination	Per Point of observation	1.3.2	24,000	5	120000	5 Borehole points
Sub-Total B						1,20,000	
C	Trenching/Pitting						
1	Excavation of Pits up to 2m depth	per cu.m	2.1.2	4,725	24	1,13,400	at 12 locations (1mx1mX2m)
Sub-Total C						1,13,400	
D	DRILLING (after review) (In House)						
1	Drilling up to 300m	m	2.2.1.1c	5,500	250	13,75,000	5 boreholes, Borehole depth to be 50 m only when justified by presence of mineralization. Unnecessary drilling to be avoided.

2	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	30,000	5	150000	As per actuals as certified by local authorities subject to a maximum of Rs. 30,000 per borehole
3	Miscellaneous Charges (Transportation of Drilling Rig, Accommodation for Drill Camp, Camp setting and winding, construction of Approach road etc.)	Lumpsum	2.2.9 (i)	For drilling cost less than 50 lakhs: 25% of drilling cost	1	3,43,750	
4	Drill Core Preservation	per m	5.3	1,590	80	1,27,200	
Sub Total D						19,95,950	
E	LABORATORY STUDIES						
1	Chemical Analysis						
I	Major oxides (WD XRF)- (oxides+ traces -24 elements) (Primary samples)	per sample	4.1.17a	4,200	100	4,20,000	24 Pit+ 76 CS
II	Major oxides (WD XRF)- (oxides+ traces -24 elements)(Check Samples)	per sample	4.1.17a	4,200	10	42,000	
III	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element (U,Ta,Ge,Be,Hf,Sn,As,Rb,Th) by ICP-MS (sequential technique) Primary samples	per sample	4.1.15	7,400	20	1,48,000	
IV	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements + 9 trace element 10% Check Samples	per sample	4.1.15	7,400	2	14,800	
2	Physical & Petrological Studies						
i	Preparation of thin section	Nos	4.3.1	500	5	2,500	

ii	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo micrographs)	Nos	4.3.4	2,800	5	14,000	
iii	XRD analysis for identification of minerals	Nos	4.5.2	4,000	5	20,000	
Sub Total E						6,61,300	
Total A to E						62,72,478	
F	Geological Report Preparation		5.2	5.2 (ii)		2,50,000	Reimbursement will be made after submission of the final Geological Report in soft copy to NMET.
G	Peer review Charges		As per EC decision			30,000	
H	Preparation of Exploration Proposal	(5 Hard copies with a soft copy)	5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is less		1,25,450	EA will be reimbursed after submission of the soft copy of the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal.
I	Total Estimated Cost without GST					66,77,928	
J	Provision for GST (18% of I)					12,02,027	GST will be reimburse as per actual and as per notified prescribed rate
K	Total Estimated Cost with GST					78,79,955	
				or Say Rs. In Lakhs		78.80	
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						
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 for Reconnaissance survey for Bauxite and associated Critical minerals in Kapadvanj block, Kheda District, Gujarat.

**Total Area: 47.5 sq. km, Drilling: 250 m (BH: 5 no.s) Schedule timeline- 10 months; Review: After 3 and 6 Months
Implementing Agency: M/s Geomarine Solutions Pvt. Ltd.**

S. No.	Months/Days	Month												
		1	2	3	4	5	6	7	8	9	10			
1	Camp Setting	Months												
2	Geological Mapping & Sampling	days												
3	Drone Topographic Survey days	days												
4	Pitting/Trenching	cu. m												
5	Surface Drilling (1 rig)	m												
6	Geochemical analysis	days												
7	Physical & Petrological Studies	days												
8	Camp Winding	months												
9	Laboratory Studies	Nos.												
10	Report Writing with Peer Review	months												



[श्री. संजय सिंह/Sh. Sanjay Singh]

निदेशक एवं सदस्य सचिव/Director & Member Secretary,

टी.सी.सी-II, एन.एम.ई.टी/TCC-II, NMEDT