

Ministry of Mines
National Mineral Exploration and Development Trust
Minutes of the 7th Joint Meeting of Technical-cum-Cost Committees held on
20th February, 2026 through video conferencing mode

The 7th Joint meeting of Technical Cum-Cost Committees (TCC-I & TCC-II) of National Mineral Exploration and Development Trust (NMEDT) was held on 20th February, 2026 in VC mode to review DPR of 06 projects of allocated blocks in Siwana Ring Complex, Rajasthan to different agencies for exploration at G3 stage through NMEDT Fund. Additional agenda for discussion on feasibility of proposal submitted by M/s Geovale Services Pvt. Ltd. in association with GSI. Finalisation of checklist for exploration agencies for submission of exploration project proposals. The meeting was combined chaired by Dr. S. Ravi, Dy. Director General, Geological Survey of India (GSI) and Chairman, TCC-I and Shri Pradeep Singh, Dy. Director General, Geological Survey of India (GSI) and Chairman, TCC-II.

The list of participants is provided in Annexure-9.

Dr. S. Ravi, Chairman, TCC-I, extended a warm welcome to all members and apprised them of the purpose of the meeting. In his opening address, Dr. Ravi apprised the committee that 6 blocks carved out by GSI in the Siwana Ring Complex, Rajasthan, were allocated to different agencies during 6th meeting of Joint TCC of NMEDT. The Chair emphasized that during the review of the DPRs of individual blocks, a standardized and uniform approach must be adopted as it was done during first phase of allocation of blocks in Siwana Ring Complex. He apprised that all the blocks fall within a similar geological terrain and cover comparable areas; therefore, a uniform methodology, parameters, and evaluation criteria should be adopted across all blocks, on the same lines as followed earlier for the allocation of 10 blocks in SRC.

Shri Pradeep Singh, Chairman, TCC-II, in his opening remarks, outlined the procedure to be followed for reviewing the DPRs received from various agencies for the allocated blocks. He invited all members to share their views, observations, and technical inputs to support the finalization of a standardized and uniform approach to be adopted across all blocks.

Agenda 7.1 Technical Evaluation of New Project Proposals
Discussion on DPRs of allocated blocks of Siwana Ring Complex

The DPR of each project was discussed and it was noted that the agencies submitted proposals with varying quantum of work, cost and time schedule.

After detailed deliberations on multiple aspects — including the geology of the area, availability of existing data, prevailing terrain conditions, and similar works being undertaken or previously completed — the TCC adopted the same standardized the quantum of work, project timelines, and indicative cost parameters for all blocks as it was followed earlier for allocation of 10 blocks in SRC.

It was agreed that a uniform and consistent methodology shall be adopted to enable comparative assessment of results across all blocks. Based on this standardized evaluation, blocks exhibiting encouraging outcomes may be seamlessly upgraded to the next stage of exploration.

S. Ravi
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Shri Pradeep Singh
28/2/2026

The following points were finalized and a reference cost sheet was prepared where the quantum of work was also finalized.

1. The project will be undertaken in two distinct phases. The quantum of work allocated to each block was defined phase-wise, ensuring uniformity across all blocks.
2. During 1st phase of work reinterpretation of existing ground and airborne geophysical database, characterization of geophysical (GP) signals in relation to rock types and host lithology to be done by overlay analysis. Details of work to be carried out is provided in Annexure -12.
3. Comprehensive integration of available legacy geophysics data, aeromagnetic datasets and Chemical and analytical datasets to be done.
4. Detailed Mapping (DM) (1:2000 scale) will be undertaken in 1st phase. Topographic survey will be carried out along with DM during 1st phase.
5. Surface sampling (BRS/Trench/Channel) to be carried out during Phase-I. 100 samples will be collected and analysed.
6. Grid spacing for boreholes fixed at 200 m × 400 m, in line with MEMC guidelines for G3-stage exploration of rhyolite/granite-hosted REE deposits.
7. Total drilling quantum fixed at 3000 metres, distributed across 24 boreholes. The number of boreholes may vary for individual blocks since the current calculation assumes a rectangular block configuration. Selective boreholes may require deeper drilling based on geological indications.
8. Five (5) boreholes will be drilled during Phase-I, selected from the 200 × 400 m grid. The selection must ensure uniform spatial representation across the entire block area. A total of 250 core samples (50 per borehole) will be collected for analysis.
9. EPMA (Electron Probe Micro Analyzer) studies will be carried out to identify mineralized phases. Detailed petrographic examination will also be undertaken during Phase-I.
10. A 20 line-km magnetic survey will be conducted as part of Phase-II activities.
11. The remaining boreholes will be drilled after review of 1st phase of work.
12. Intensified and deeper drilling may be undertaken wherever analytical results from Phase-I indicate promising mineralization.
13. Complete chemical analysis of all core samples recovered from drilling operations will be carried out.
14. Total project duration will be 12 months. Phase-I work to be completed within 4-5 months. Phase-II work will be conducted over the subsequent 7-8 months.
15. Progress review meetings will be held at the end of the 3rd, 6th, and 9th months to assess work progress, results, and necessary course corrections.

General Guidelines for agencies:

It was decided that the Borehole (BH) plan must be submitted to the TCC for approval. The executing agency must ensure that the BH grid planning is carried out in consultation with agencies working in neighbouring blocks so as to avoid closely spaced or overlapping borehole locations along the block boundaries.

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Based on the above discussions and the detailed review of the DPR, a reference cost sheet incorporating the standardized quantum of work was prepared and finalized for uniform adoption across all blocks. The costing of each project was completed as per the Revised SOC of NMEDT 2025.

It is also decided that the review of all the six items will be taken up in joint TCC after 3rd, 6th and 9th months.

**Agenda 7.1.1 Preliminary exploration (G3) for REE and associated Rare Metals in the NB 16 block (2.00 sq. km) of the northern part of the Siwana Ring Complex, District-Balotra, Rajasthan
[Implementing Agency: Hindmetal Exploration Services Pvt. Ltd.]**

- a. The bounding coordinates of the approved block is as follows:

Corner points	Latitude (°N)	Longitude (°E)
A	25°45'4.302"N	72°20'32.622"E
B	25°45'8.202"N	72°20'52.478"E
C	25°44'10.523"N	72°21'5.603"E
D	25°43'48.597"N	72°21'16.731"E
E	25°43'34.275"N	72°20'41.051"E

- b. State DGM have in their comments have mentioned that a small part of existing mining lease ML/16/2021 falls in the area.
c. The committee suggested that while doing the exploration work, the existing ML area may be left.

Recommendations of Joint TCC:

The committee recommended the proposal titled "Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 16 block (2.0 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan" for approval of PSC, NMEDT with an estimated cost of ₹655.64 lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure – 1A & 1B. The item will be reviewed after 3rd, 6th and 9th months.

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Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 16 block (2.0 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan							
Hindmetal Exploration Services Pvt. Ltd.							
Block area- 2.0 sq. km; Nos. of Boreholes-24 Nos.; Borehole depth range: 125m each ; Total Drilling: 3000 m; Schedule timeline- 12 months (Phase 1 to be completed in 4 months and Phase 2 be completed in 8 months). Review after: 3rd, 6th and 9th months							
S. No.	Job Description	Unit	Rates as per NMEDT SoC (2025-26)		Estimated Cost of the Proposal		Remarks
			SoC-Item -Sl	Rates as per SoC (2025-26)	Qty.	Total Amount (Rs)	
Phase I							
A	Geo Physical Survey (Phase 1) (Reinterpretation of existing ground and airborne database, characterize the GP signals with the rock types and host lithology by overlay analysis)						
i	Geophysicist: at HQ	Mandays	1.2.1a	10500	30	315000	
	Sub Total A					315000	
B	Geological Mapping (DM) (1:2000) with contouring (1st Phase)						
i	Detailed Mapping (1:2000 scale with contouring)	per sq. km.	1.1	18300	2	36600	
	Sub Total B					36600	
C	Pitting/Trenching						
i	Trenching	per cu m	2.1.1	4125	50	206250	
	BRS and Trench Samples (Channel Samples: 100 samples)				100		Quantification of surface samples (To be collected in 1st phase)
	Sub Total C					206250	
D	Other Charges related to Phase I work						

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i	Geologist: In field (for surface sampling, trenching, logging of trenches, core logging, sampling of cores)	Mandays	1.2.1a	14500	90	1305000	
ii	Geologist: at HQ	Mandays	1.2.1a	10500	30	315000	
iii	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Mandays	5.8	541	180	97380	As per Labour Commission
iv	Charges for one sampler per day (for sample preparation)	Mandays	1.2.1b	7850	55	431750	
v	Labour charges (4 Nos for sample preparation)	Mandays	5.8	541	220	119020	As per Labour Commission
vi	Drone Topographic Survey (for contouring)	per sq. km.	7b	70000	2	140000	Survey at 2m contour interval, Scale 1:2000
vii	Surveyor (for mapping)	Mandays	1.3.1	10500	20	210000	
viii	Labour charges (4 labours)	Mandays	5.8	541	80	43280	
ix	Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS (including charges for labours deployed for the work)	Per point of Observation	1.3.2	24000	28	672000	24 BH + 4 Cardinal points
	Sub Total D					3333430	
E	Drilling (1st Phase) (Outsourced)						

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i	Drilling (Hard rock) (HQ size)	per m	2.2.1.1d	10000	800	8000000	5 BH (125 to 150 m depth each/may vary) Grid to be prepared on 200*400 m for 2 sq. km area. 1st phase BH (5 Nos.) to be planned from this grid and these 5 BH (of 1st phase) to be distributed uniformly to represent the whole area. 250 samples to be collected from 5 BH (50 samples per BH)
ii	Land Compensation	Per Borehole	5.6	30000	5	150000	As per actuals as certified by local authorities subject to a maximum of 30,000 per bore hole
iii	Concrete Pillar Construction	Per Borehole	2.2.7	2000	5	10000	
iv	Borehole Plugging by cement	Lumpsum per borehole	2.2.8	10000	5	50000	
	Sub Total E					8210000	
F	Laboratory Studies						
i	HR-ICP MS (REE & Trace)	Per sample	4.1.15	7400	350	2590000	(250 Core samples + 100 Surface samples)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.15	7400	35	259000	
iii	Major oxides (WD XRF)- (oxides+ traces -24 elements)	Per sample	4.1.17a	4200	50	210000	

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iv	Major oxides (WD XRF)- (oxides+ traces -24 elements) 10% check samples	Per sample	4.1.17a	4200	5	21000	
v	XRD analysis for identification of minerals (Random)	Per sample	4.5.2	4000	10	40000	
Physical & Petrological Studies							
vi	Preparation of polished thin section of rock	Per sample	4.3.2	800	10	8000	
vii	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo micrographs)	Per sample	4.3.4	2800	10	28000	
viii	EPMA	Per hour	4.4.1	10500	10	105000	
Sub Total F						3261000	
Total A+B+C+D+E+F						15362280	
Phase II							
G	GP Investigation (2nd Phase) (Before Drilling)						
i	Magnetic Survey (10-30 line km)	Per station	3.2a (i)	1800	250	450000	5 Lkm. 2.5 Lkm per sq.km of area with a line spacing of 200 m. Station interval is 20 m. 25 station per profile line. 25*5= 125 stations per sq. km. Total 250 stations
Sub Total G						450000	
H	Geological Work (Mainly Core Logging)						
i	Geologist: In field (For Core Logging and sampling)	Mandays	1.2.1a	14500	90	1305000	
ii	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Mandays	5.8	541	180	97380	As per Labour Commission
ii	Geologist: at HQ	Mandays	1.2.1a	10500	30	315000	

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iii	Charges for one sampler per day (for sample preparation)	Mandays	1.2.1b	7850	138	1083300	
iv	Labour charges (4 Nos for sample preparation)	Mandays	5.8	541	552	298632	
	Sub Total H					3099312	
I	Drilling (II nd Phase) (Outsourced)						
i	Drilling (Hard rock) (HQ size)	per m	2.2.1.1d	10000	2200	22000000	Approx 19 BH (as per 200*400 m grid)
ii	Land Compensation	Per Borehole	5.6	30000	19	570000	
iii	Concrete Pillar Construction	Per Borehole	2.2.7	2000	19	38000	
iv	Borehole Plugging	Lumpsum per borehole	2.2.8	10000	19	190000	
v	Drill Core Preservation	per m	5.3	1590	1500	2385000	
	Sub Total I					25183000	
	Total Drilling cost of Phase I + Phase II			(1500 m core to be preserved; 1 complete BH and remaining from mineralised zones)		30000000	Total cost of 3000 m drilling of both phase
J	Laboratory Studies						
i	HR-ICP MS (REE & Trace)	Per sample	4.1.15	7400	1000	7400000	(1000 Core samples, 50 samples from each BH)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.15	7400	100	740000	
	Physical & Petrological Studies						
iii	Preparation of polished thin section of rock	Per sample	4.3.2	800	10	8000	
iv	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo microgrphs)	Per sample	4.3.4	2800	10	28000	
v	Specific Gravity	Per sample	4.8.1	2500	5	12500	
	Sub Total J					8188500	

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	Total A+B+C+D+E+F+G+H+I+J					52283092	
	Total outsourced component (if any)					3000000	
K	Tendering Process Cost		5.9			500000	2% of the approved project cost or 5 Lakh whichever is lower will be paid one time
L	In case of outsourcing of work, the Technical Supervision cost shall be 10% of the sum of all the outsourced work components with a maximum ceiling of ₹ 20 lakh		6			2000000	
M	Total Cost					54783092	
N	Geological Report Preparation		5.2 (iii)	Total cost of the project exceeding ₹150 lakh		750000	As per SoC
O	Peer Review by External Expert		As per EC decision	30000		30000	
P	Project Cost without GST					55563092	
Q	GST - 18%					10001357	
R	Total Project Cost (With GST)					65564449	
	Rs. In Lacs					655.64	
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.						

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3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 6 of NMET SoC. In case of execution of the project by NEA/NPEA on its own, a Certificate regarding non outsourcing of any component/project is required.
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.
5	Any item of work not mentioned above shall be added as per SoC.
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency

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Time schedule for Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 16 block (2.0 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan													Annexure 1B			
Sl. No.	Nature of work	Months														
		1	2	3	Review	4	5	6	Review	7	8	9	Review	10	11	12
1	Desktop study and reinterpretation of existing geophysical data (including obtaining necessary clearances etc)	■														
2	Camp setting		■													
3	Geological Mapping (DM, 1:2000)		■	■												
4	Topographic Survey and contouring (1:2000 scale)		■	■												
5	Trenching/Channel/ Bedrock Sampling			■	Review	■			Review				Review			
6	Geophysical Survey			■		■										
7	Drilling					■	■	■		■	■	■				
8	Sample Preparation					■		■				■				
9	Laboratory Studies							■					■	■		
10	Petrographic Studies / XRD / EPMA													■		
11	Geological Report Preparation & submission to NMET													■	■	■

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Agenda 7.1.2 Preliminary exploration (G3) for REE and associated Rare Metals in the NB 17 block (2.00 sq. km) of the northern part of the Siwana Ring Complex, District-Balotra, Rajasthan
[Implementing Agency: Hindmetal Exploration Services Pvt. Ltd.]

- a. The bounding coordinates of the approved block is as follows:

Corner points	Latitude (°N)	Longitude (°E)
A	25°44'57.58"N	72°20'9.646"E
B	25°45'4.302"N	72°20'32.622"E
C	25°43'34.275"N	72°20'41.051"E
D	25°43'23.675"N	72°20'14.642"E

- b. State DGM have in their comments have mentioned that a four existing mining lease ML/88/2008, ML/89/2008, ML/90/2008 and ML/91/2008 each having an area of 0.01 sq. km falls in the area.
- c. The committee suggested that while doing the exploration work, the existing ML area may be left.

Recommendations of Joint TCC:

The committee recommended the proposal titled "Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 17 block (2.0 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan" for approval of PSC, NMEDT with an estimated cost of ₹655.64 lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure – 2A & 2B. The item will be reviewed after 3rd, 6th and 9th months.

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Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 17 block (2.0 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan Agency: Hindmetal Exploration Services Pvt. Ltd. Block area- 2.0 sq. km; Nos. of Boreholes-24 Nos.; Borehole depth range: 125m each ; Total Drilling: 3000 m; Schedule timeline- 12 months (Phase 1 to be completed in 4 months and Phase 2 be completed in 8 months). Review after: 3rd, 6th and 9th months							
S. No.	Job Description	Unit	Rates as per NMEDT SoC (2025-26)		Estimated Cost of the Proposal		Remarks
			SoC-Item -Sl	Rates as per SoC (2025-26)	Qty.	Total Amount (Rs)	
Phase I							
A	Geo Physical Survey (Phase 1) (Reinterpretation of existing ground and airborne database, characterize the GP signals with the rock types and host lithology by overlay analysis)						
i	Geophysicist: at HQ	Mandays	1.2.1a	10500	30	315000	
	Sub Total A					315000	
B	Geological Mapping (DM) (1:2000) with contouring (1st Phase)						
i	Detailed Mapping (1:2000 scale with contouring)	per sq. km.	1.1	18300	2	36600	
	Sub Total B					36600	
C	Pitting/Trenching						
i	Trenching	per cu m	2.1.1	4125	50	206250	
	BRS and Trench Samples (Channel Samples: 100 samples)				100		Quantification of surface samples (To be collected in 1st phase)
	Sub Total C					206250	
D	Other Charges related to Phase I work						

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i	Geologist: In field (for surface sampling, trenching, logging of trenches, core logging, sampling of cores)	Mandays	1.2.1a	14500	90	1305000	
ii	Geologist: at HQ	Mandays	1.2.1a	10500	30	315000	
iii	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Mandays	5.8	541	180	97380	As per Labour Commission
iv	Charges for one sampler per day (for sample preparation)	Mandays	1.2.1b	7850	55	431750	
v	Labour charges (4 Nos for sample preparation)	Mandays	5.8	541	220	119020	As per Labour Commission
vi	Drone Topographic Survey	per sq. km.	7b	70000	2	140000	Survey at 2m contour interval, Scale 1:2000
vii	Surveyor (for mapping & contouring)	Mandays	1.3.1	10500	20	210000	
viii	Labour charges (4 labours)	Mandays	5.8	541	80	43280	
ix	Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS (including charges for labours deployed for the work)	Per point of Observation	1.3.2	24000	28	672000	24 BH + 4 Cardinal points
	Sub Total D					3333430	
E	Drilling (1st Phase) (Outsourced)						

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i	Drilling (Hard rock) (HQ size)	per m	2.2.1.1d	10000	800	8000000	5 BH (125 to 150 m depth each/may vary) Grid to be prepared on 200*400 m for 2 sq. km area. 1st phase BH (5 Nos.) to be planned from this grid and these 5 BH (of 1st phase) to be distributed uniformly to represent the whole area. 250 samples to be collected from 5 BH (50 samples per BH)
ii	Land Compensation	Per Borehole	5.6	30000	5	150000	As per actuals as certified by local authorities subject to a maximum of 30,000 per bore hole
iii	Concrete Pillar Construction	Per Borehole	2.2.7	2000	5	10000	
iv	Borehole Plugging by cement	Lumpsum per borehole	2.2.8	10000	5	50000	
	Sub Total E					8210000	
F	Laboratory Studies						
i	HR-ICP MS (REE & Trace)	Per sample	4.1.15	7400	350	2590000	(250 Core samples + 100 Surface samples)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.15	7400	35	259000	
iii	Major oxides (WD XRF)- (oxides+ traces -24 elements)	Per sample	4.1.17a	4200	50	210000	

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iv	Major oxides (WD XRF)- (oxides+ traces -24 elements) 10% check samples	Per sample	4.1.17a	4200	5	21000	
v	XRD analysis for identification of minerals (Random)	Per sample	4.5.2	4000	10	40000	
Physical & Petrological Studies							
vi	Preparation of polished thin section of rock	Per sample	4.3.2	800	10	8000	
vii	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo microgrphs)	Per sample	4.3.4	2800	10	28000	
viii	EPMA	Per hour	4.4.1	10500	10	105000	
Sub Total F						3261000	
Total A+B+C+D+E+F						15362280	
Phase II							
G	GP Investigation (2nd Phase) (Before Drilling)						
i	Magnetic Survey (10-30 line km)	Per station	3.2a (i)	1800	250	450000	5 Lkm. 2.5 Lkm per sq.km of area with a line spacing of 200 m. Station interval is 20 m. 25 station per profile line. 25*5= 125 stations per sq. km. Total 250 stations
Sub Total G						450000	
H	Geological Work (Mainly Core Logging)						
i	Geologist: In field (For Core Logging and sampling)	Mandays	1.2.1a	14500	90	1305000	
ii	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Mandays	5.8	541	180	97380	As per Labour Commission
ii	Geologist: at HQ	Mandays	1.2.1a	10500	30	315000	

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iii	Charges for one sampler per day (for sample preparation)	Mandays	1.2.1b	7850	138	1083300	
iv	Labour charges (4 Nos for sample preparation)	Mandays	5.8	541	552	298632	
	Sub Total H					3099312	
I	Drilling (II nd Phase) (Outsourced)						
i	Drilling (Hard rock) (HQ size)	per m	2.2.1.1d	10000	2200	22000000	Approx 19 BH (as per 200*400 m grid)
ii	Land Compensation	Per Borehole	5.6	30000	19	570000	
iii	Concrete Pillar Construction	Per Borehole	2.2.7	2000	19	38000	
iv	Borehole Plugging	Lumpsum per borehole	2.2.8	10000	19	190000	
v	Drill Core Preservation	per m	5.3	1590	1500	2385000	
	Sub Total I					25183000	
	Total Drilling cost of Phase I + Phase II					30000000	Total cost of 3000 m drilling of both phase
	(1500 m core to be preserved; 1 complete BH and remaining from mineralised zones)						
J	Laboratory Studies						
i	HR-ICP MS (REE & Trace)	Per sample	4.1.15	7400	1000	7400000	(1000 Core samples, 50 samples from each BH)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.15	7400	100	740000	
	Physical & Petrological Studies						
iii	Preparation of polished thin section of rock	Per sample	4.3.2	800	10	8000	
iv	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo microgrphs)	Per sample	4.3.4	2800	10	28000	
v	Specific Gravity	Per sample	4.8.1	2500	5	12500	
	Sub Total J					8188500	

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	Total A+B+C+D+E+F+G+H+I+J					52283092	
	Total outsourced component (if any)					30000000	
K	Tendering Process Cost		5.9			500000	2% of the approved project cost or 5 Lakh whichever is lower will be paid one time
L	In case of outsourcing of work, the Technical Supervision cost shall be 10% of the sum of all the outsourced work components with a maximum ceiling of ₹ 20 lakh		6			2000000	
M	Total Cost					54783092	
N	Geological Report Preparation		5.2 (iii)	Total cost of the project exceeding ₹150 lakh		750000	As per SoC
O	Peer Review by External Expert		As per EC decision	30000		30000	
P	Project Cost without GST					55563092	
Q	GST - 18%					10001357	
R	Total Project Cost (With GST)					65564449	
	Rs. In Lacs					655.64	
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.						

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3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 6 of NMET SoC. In case of execution of the project by NEA/NPEA on its own, a Certificate regarding non outsourcing of any component/project is required.
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.
5	Any item of work not mentioned above shall be added as per SoC.
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency

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Time schedule for Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 17 block (2.0 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan															Annexure 2B		
Sl. No.	Nature of work	Months															
		1	2	3	Review	4	5	6	Review	7	8	9	Review	10	11	12	
1	Desktop study and reinterpretation of existing geophysical data (including obtaining necessary clearances etc)																
2	Camp setting																
3	Geological Mapping (DM, 1:2000)																
4	Topographic Survey and contouring (1:2000 scale)																
5	Trenching/Channel/ Bedrock Sampling																
6	Geophysical Survey																
7	Drilling																
8	Sample Preparation																
9	Laboratory Studies																
10	Petrographic Studies / XRD / EPMA																
11	Geological Report Preparation & submission to NMET																

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Agenda 7.1.3 Preliminary exploration (G3) for REE and associated Rare Metals in the NB 18 block (2.00 sq. km) of the northern part of the Siwana Ring Complex, District-Balotra, Rajasthan
[Implementing Agency: Natural Resources Division-TATA]

- a. The bounding coordinates of the approved block is as follows:

Corner points	Latitude (°N)	Longitude (°E)
A	25°43'43.214"N	72°19'18.986"E
B	25°44'6.425"N	72°20'12.35"E
C	25°43'23.675"N	72°20'14.642"E
D	25°43'1.403"N	72°19'19.232"E

Recommendations of Joint TCC:

The committee recommended the proposal entitled "Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 18 block (2.0 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan" for approval of PSC, NMEDT with an estimated cost of ₹655.64 lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure – 3A & 3B. The item will be reviewed after 3rd, 6th and 9th months.

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Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 18 block (2.0 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan
Agency: NRD-TATA
Block area- 2.0 sq. km; Nos. of Boreholes-24 Nos.; Borehole depth range: 125m each ; Total Drilling: 3000 m; Schedule timeline- 12 months
(Phase 1 to be completed in 4 months and Phase 2 be completed in 8 months). Review after: 3rd, 6th and 9th months

S. No.	Job Description	Unit	Rates as per NMEDT SoC (2025-26)		Estimated Cost of the Proposal		Remarks
			SoC-Item -SI	Rates as per SoC (2025-26)	Qty.	Total Amount (Rs)	
Phase I							
A	Geo Physical Survey (Phase 1) (Reinterpretation of existing ground and airborne database, characterize the GP signals with the rock types and host lithology by overlay analysis)						
i	Geophysicist: at HQ	Mandays	1.2.1a	10500	30	315000	
	Sub Total A					315000	
B	Geological Mapping (DM) (1:2000) with contouring (1st Phase)						
i	Detailed Mapping (1:2000 scale with contouring)	per sq. km.	1.1	18300	2	36600	
	Sub Total B					36600	
C	Pitting/Trenching						
i	Trenching	per cu m	2.1.1	4125	50	206250	
	BRS and Trench Samples (Channel Samples: 100 samples)				100		Quantification of surface samples (To be collected in 1st phase)
	Sub Total C					206250	
D	Other Charges related to Phase I work						

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i	Geologist: In field (for surface sampling, trenching, logging of trenches, core logging, sampling of cores)	Mandays	1.2.1a	14500	90	1305000	
ii	Geologist: at HQ	Mandays	1.2.1a	10500	30	315000	
iii	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Mandays	5.8	541	180	97380	As per Labour Commission
iv	Charges for one sampler per day (for sample preparation)	Mandays	1.2.1b	7850	55	431750	
v	Labour charges (4 Nos for sample preparation)	Mandays	5.8	541	220	119020	As per Labour Commission
vi	Drone Topographic Survey	per sq. km.	7b	70000	2	140000	Survey at 2m contour interval, Scale 1:2000
vii	Surveyor (for mapping & contouring)	Mandays	1.3.1	10500	20	210000	
viii	Labour charges (4 labours)	Mandays	5.8	541	80	43280	
ix	Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS (including charges for labours deployed for the work)	Per point of Observation	1.3.2	24000	28	672000	24 BH + 4 Cardinal points
	Sub Total D					3333430	
E	Drilling (1st Phase) (Outsourced)						

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i	Drilling (Hard rock) (HQ size)	per m	2.2.1.1d	10000	800	8000000	5 BH (125 to 150 m depth each/may vary) Grid to be prepared on 200*400 m for 2 sq. km area. 1st phase BH (5 Nos.) to be planned from this grid and these 5 BH (of 1st phase) to be distributed uniformly to represent the whole area. 250 samples to be collected from 5 BH (50 samples per BH)
ii	Land Compensation	Per Borehole	5.6	30000	5	150000	As per actuals as certified by local authorities subject to a maximum of 30,000 per bore hole
iii	Concrete Pillar Construction	Per Borehole	2.2.7	2000	5	10000	
iv	Borehole Plugging by cement	Lumpsum per borehole	2.2.8	10000	5	50000	
Sub Total E						8210000	
F	Laboratory Studies						
i	HR-ICP MS (REE & Trace)	Per sample	4.1.15	7400	350	2590000	(250 Core samples + 100 Surface samples)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.15	7400	35	259000	
iii	Major oxides (WD XRF)- (oxides+ traces -24 elements)	Per sample	4.1.17a	4200	50	210000	
iv	Major oxides (WD XRF)- (oxides+ traces -24 elements) 10% check samples	Per sample	4.1.17a	4200	5	21000	

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v	XRD analysis for identification of minerals (Random)	Per sample	4.5.2	4000	10	40000	
Physical & Petrological Studies							
vi	Preparation of polished thin section of rock	Per sample	4.3.2	800	10	8000	
vii	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo micrographs)	Per sample	4.3.4	2800	10	28000	
viii	EPMA	Per hour	4.4.1	10500	10	105000	
Sub Total F						3261000	
Total A+B+C+D+E+F						15362280	
Phase II							
G	GP Investigation (2nd Phase) (Before Drilling)						
i	Magnetic Survey (10-30 line km)	Per station	3.2a (i)	1800	250	450000	5 Lkm. 2.5 Lkm per sq.km of area with a line spacing of 200 m. Station interval is 20 m. 25 station per profile line. 25*5= 125 stations per sq. km. Total 250 stations
Sub Total G						450000	
H	Geological Work (Mainly Core Logging)						
i	Geologist: In field (For Core Logging and sampling)	Mandays	1.2.1a	14500	90	1305000	
ii	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Mandays	5.8	541	180	97380	As per Labour Commission
ii	Geologist: at HQ	Mandays	1.2.1a	10500	30	315000	
iii	Charges for one sampler per day (for sample preparation)	Mandays	1.2.1b	7850	138	1083300	
iv	Labour charges (4 Nos for sample preparation)	Mandays	5.8	541	552	298632	

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	Sub Total H						3099312	
I	Drilling (II nd Phase) (Outsourced)							
i	Drilling (Hard rock) (HQ size)	per m	2.2.1.1d	10000	2200	22000000	Approx 19 BH (as per 200*400 m grid)	
ii	Land Compensation	Per Borehole	5.6	30000	19	570000		
iii	Concrete Pillar Construction	Per Borehole	2.2.7	2000	19	38000		
iv	Borehole Plugging	Lumpsum per borehole	2.2.8	10000	19	190000		
v	Drill Core Preservation	per m	5.3	1590	1500	2385000		
	Sub Total I						25183000	
	Total Drilling cost of Phase I + Phase II						30000000	Total cost of 3000 m drilling of both phase
	(1500 m core to be preserved; 1 complete BH and remaining from mineralised zones)							
J	Laboratory Studies							
i	HR-ICP MS (REE & Trace)	Per sample	4.1.15	7400	1000	7400000	(1000 Core samples, 50 samples from each BH)	
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.15	7400	100	740000		
	Physical & Petrological Studies							
iii	Preparation of polished thin section of rock	Per sample	4.3.2	800	10	8000		
iv	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo microgrphs)	Per sample	4.3.4	2800	10	28000		
v	Specific Gravity	Per sample	4.8.1	2500	5	12500		
	Sub Total J						8188500	
	Total A+B+C+D+E+F+G+H+I+J						52283092	
	Total outsourced component (if any)						30000000	

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K	Tendering Process Cost		5.9			500000	2% of the approved project cost or 5 Lakh whichever is lower will be paid one time
L	In case of outsourcing of work, the Technical Supervision cost shall be 10% of the sum of all the outsourced work components with a maximum ceiling of ₹ 20 lakh		6			2000000	
M	Total Cost					54783092	
N	Geological Report Preparation		5.2 (iii)	Total cost of the project exceeding ₹150 lakh		750000	As per SoC
O	Peer Review by External Expert		As per EC decision	30000		30000	
P	Project Cost without GST					55563092	
Q	GST - 18%					10001357	
R	Total Project Cost (With GST)					65564449	
	Rs. In Lacs					655.64	
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 6 of NMET SoC. In case of execution of the project by NEA/NPEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency						

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Time schedule for Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 18 block (2.0 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan														Annexure 3B					
Sl. No.	Nature of work	Months																	
		1	2	3	Review	4	5	6	Review	7	8	9	Review	10	11	12			
1	Desktop study and reinterpretation of existing geophysical data (including obtaining necessary clearances etc)	■				Review					Review					Review			
2	Camp setting		■																
3	Geological Mapping (DM, 1:2000)		■	■															
4	Topographic Survey and contouring (1:2000 scale)		■	■															
5	Trenching/Channel/ Bedrock Sampling			■			■												
6	Geophysical Survey			■			■												
7	Drilling						■	■	■			■	■	■					
8	Sample Preparation						■		■					■					
9	Laboratory Studies								■								■	■	
10	Petrographic Studies / XRD / EPMA																	■	
11	Geological Report Preparation & submission to NMET																	■	■

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**Agenda 7.1.4 Preliminary exploration (G3) for REE and associated Rare Metals in the SB 1 block (2.00 sq. km) of the southern part of the Siwana Ring Complex, District-Balotra, Rajasthan
[Implementing Agency: Geomarine Solutions Pvt. Ltd.]**

- a. The committee apprised that this block is allocated to M/s Geomarine Solutions Pvt. Ltd. as the agency have previously submitted blocks in Siwana Ring Complex. The bounding coordinates of the approved block is as follows:

Corner points	Latitude (°N)	Longitude (°E)
A	25°37'5.906"N	72°20'1.046"E
B	25°37'5.615"N	72°20'44.904"E
C	25°36'15.694"N	72°20'55.017"E
D	25°36'15.222"N	72°19'59.169"E

- b. State DGM have in their comments have mentioned that an existing mining lease having an area of 0.04 sq. km falls in the area.
- c. The committee suggested that while doing the exploration work, the existing ML area may be left.

Recommendations of Joint TCC:

The committee recommended the proposal titled "Preliminary Exploration (G3) for REE and associated Rare Metals in the SB 1 (2.0 sq. km.) in the southern part of the Siwana Ring Complex, Balotra district, Rajasthan" for approval of PSC, NMEDT with an estimated cost of ₹655.49 lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure – 4A & 4B. The item will be reviewed after 3rd, 6th and 9th months.

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Preliminary Exploration (G3) for REE and associated Rare Metals in the SB 1 (2.0 sq. km.) in the southern part of the Siwana Ring Complex, Balotra district, Rajasthan

Agency: Geomarine Solutions Pvt. Ltd.

Block area- 2.0 sq. km; Nos. of Boreholes-24 Nos.; Borehole depth range: 125m each ; Total Drilling: 3000 m; Schedule timeline- 12 months
(Phase 1 to be completed in 4 months and Phase 2 be completed in 8 months). Review after: 3rd, 6th and 9th months

S. No.	Job Description	Unit	Rates will be as per revised NMEDT SoC		Estimated Cost of the Proposal		Remarks
			SoC-Item -SI	Rates as per SoC (2025-26)	Qty.	Total Amount (Rs)	
Phase I							
A	Geo Physical Survey (Phase 1) (Reinterpretation of existing ground and airborne database, characterize the GP signals with the rock types and host lithology by overlay analysis)						
i	Geophysicist: at HQ	Mandays	1.2.1a	10500	30	315000	
	Sub Total A					315000	
B	Geological Mapping (DM) (1:2000) with contouring (1st Phase)						
i	Detailed Mapping (1:2000 scale) with contouring	per sq. km.	1.1	18300	2	36600	
	Sub Total B					36600	
C	Pitting/Trenching						
i	Trenching	per cu m	2.1.1	4125	50	206250	
	BRS and Trench Samples (Channel Samples: 100 samples)				100		Quantification of surface samples (To be collected in 1st phase)
	Sub Total C					206250	
D	Other Charges related to Phase I work						

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i	Geologist: In field	Mandays	1.2.1a	14500	90	1305000	
ii	Geologist: at HQ	Mandays	1.2.1a	10500	30	315000	
iii	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Mandays	5.8	541	180	97380	As per Labour Commission
iv	Charges for one sampler per day (for sample preparation)	Mandays	1.2.1b	7850	55	431750	
v	Labour charges (4 Nos for sample preparation)	Mandays	5.8	541	220	119020	As per Labour Commission
vi	Surveyor (for mapping & contouring)	Mandays	1.3.1	10500	30	315000	Survey at 2m contour interval, Scale 1:2000
vii	Labour charges (4 labours)	Mandays	5.8	541	120	64920	
viii	Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS (including charges for labours deployed for the work)	Per point of Observation	1.3.2	24000	28	672000	
Sub Total D						3320070	
E	Drilling (1st Phase)						
i	Drilling (Hard rock) (HQ size)	per m	2.2.1.1d	10000	800	8000000	5 BH (125 to 150 m depth each/may vary) Grid to be prepared on 200*400 m for 2 sq. km area. 1st phase BH (5 Nos.) to be planned from this grid and these 5 BH (of 1st phase) to be distributed uniformly to represent the whole area. 250 samples to be collected from 5 BH (50 samples per BH)

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ii	Land Compensation	Per Borehole	5.6	30000	5	150000	As per actuals as certified by local authorities subject to a maximum of 30,000 per bore hole
iii	Concrete Pillar Construction	Per Borehole	2.2.7	2000	5	10000	
iv	Borehole Plugging by cement	Lumpsum per borehole	2.2.8	10000	5	50000	
Sub Total E						8210000	
F	Laboratory Studies						
i	HR-ICP MS (REE & Trace)	Per sample	4.1.15	7400	350	2590000	(250 Core samples + 100 Surface samples)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.15	7400	35	259000	
iii	Major oxides (WD XRF)- (oxides+ traces -24 elements)	Per sample	4.1.17a	4200	50	210000	
iv	Major oxides (WD XRF)- (oxides+ traces -24 elements) 10% check samples	Per sample	4.1.17a	4200	5	21000	
v	XRD analysis for identification of minerals (Random)	Per sample	4.5.2	4000	10	40000	
Physical & Petrological Studies							
vi	Preparation of polished thin section of rock	Per sample	4.3.2	800	10	8000	
vii	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo micrographs)	Per sample	4.3.4	2800	10	28000	
viii	EPMA	Per hour	4.4.1	10500	10	105000	
Sub Total F						3261000	
Total A+B+C+D+E+F						15348920	

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Phase II							
G	GP Investigation (2nd Phase) (Before Drilling)						
i	Magnetic Survey (10-30 line km)	Per station	3.2a (i)	1800	250	450000	5 Lkm. 2.5 Lkm per sq.km of area with a line spacing of 200 m. Station interval is 20 m. 25 station per profile line. 25*5= 125 stations per sq. km. Total 250 stations
Sub Total G						450000	
H	Geological Work (Mainly Core Logging)						
i	Geologist: In field (For Core Logging)	Mandays	1.2.1a	14500	90	1305000	
ii	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Mandays	5.8	541	180	97380	As per Labour Commission
ii	Geologist: at HQ	Mandays	1.2.1a	10500	30	315000	
iii	Charges for one sampler per day (for sample preparation)	Mandays	1.2.1b	7850	138	1083300	
iv	Labour charges (4 Nos for sample preparation)	Mandays	5.8	541	552	298632	
Sub Total H						3099312	
I	Drilling (II nd Phase)						
i	Drilling (Hard rock) (HQ size)	per m	2.2.1.1d	10000	2200	22000000	Approx 19 BH (as per 200*400 m grid)
ii	Land Compensation	Per Borehole	5.6	30000	19	570000	As per actuals as certified by local authorities subject to a maximum of 30,000 per bore hole
iii	Concrete Pillar Construction	Per Borehole	2.2.7	2000	19	38000	
iv	Borehole Plugging	Lumpsum per borehole	2.2.8	10000	19	190000	

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v	Drill Core Preservation	per m	5.3	1590	1500	2385000	
	Sub Total I					25183000	
	Total Drilling cost of Phase I + Phase II					30000000	Total cost of 3000 m drilling of both phase
J	Miscellaneous Charges related to Drilling (Phase I + Phase II)						
i	Drill Rig Transportation - To & Fro	lumpsum	2.2.9 (4)	For Drilling cost more than 2 Crore : 10% of the Drilling Cost with a maximum ceiling of ₹ 25 lakh.	2500000	2500000	Miscellaneous Charges (Transportation of Drilling Rig, Accommodation for Drill Camp, Camp setting and winding, construction of Approach road)
ii	Drilling Camp Setting Cost						
iii	Drilling Camp Winding Cost						
iv	Monthly Accomodation Charges						
v	Approach Road to Drill site						
vi	Drill Core Preservation (1500 m core to be preserved; 1 complete BH and remaining from mineralised zones)						
	Sub Total J					2500000	
K	Laboratory Studies						
i	HR-ICP MS (REE & Trace)	Per sample	4.1.15	7400	1000	7400000	(1000 Core samples, 50 samples from each BH)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.15	7400	100	740000	
	Physical & Petrological Studies						
iii	Preparation of polished thin section of rock	Per sample	4.3.2	800	10	8000	
iv	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo microgrphs)	Per sample	4.3.4	2800	10	28000	
v	Specific Gravity	Per sample	4.8.1	2500	5	12500	
	Sub Total K					8188500	

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	Total A+B+C+D+E+F+G+H+I+J+K					54769732	
	Total outsourced component (if any)					0	
	Total Cost					54769732	
L	Geological Report Preparation		5.2 (iii)	Total cost of the project exceeding ₹150 lakh		750000	As per SoC
M	Peer Review by External Expert		As per EC decision	30000		30000	
N	Project Cost without GST					55549732	
O	GST - 18%					9998952	
P	Total Project Cost(With GST)					65548684	
	Rs. In Lacs					655.49	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 6 of NMEDT SoC. In case of execution of the project by NEA/NPEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency						

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Time schedule for Preliminary Exploration (G3) for REE and associated Rare Metals in the SB 1 (2.0 sq. km.) in the southern part of the Siwana Ring Complex, Balotra district, Rajasthan													Annexure 4B						
Sl. No.	Nature of work	Months																	
		1	2	3	Review	4	5	6	Review	7	8	9	Review	10	11	12			
1	Desktop study and reinterpretation of existing geophysical data (including obtaining necessary clearances etc)					Review					Review					Review			
2	Camp setting																		
3	Geological Mapping (DM, 1:2000)																		
4	Topographic Survey and contouring (1:2000 scale)																		
5	Trenching/Channel/ Bedrock Sampling																		
6	Geophysical Survey																		
7	Drilling																		
8	Sample Preparation																		
9	Laboratory Studies																		
10	Petrographic Studies / XRD / EPMA																		
11	Geological Report Preparation & submission to NMET																		

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**Agenda 7.1.5 Preliminary exploration (G3) for REE and associated Rare Metals in the SB 2 block (2.00 sq. km) of the southern part of the Siwana Ring Complex, District-Balotra, Rajasthan
[Implementing Agency: Mining Tech & Consultancy Services Limited]**

- a. The bounding coordinates of the approved block is as follows:

Corner points	Latitude (°N)	Longitude (°E)
A	25°37'39.608"N	72°21'3.565"E
B	25°37'45.04"N	72°22'7.05"E
C	25°37'12.104"N	72°22'8.133"E
D	25°36'58.256"N	72°21'5.679"E

Recommendations of Joint TCC:

The committee recommended the proposal titled "Preliminary Exploration (G3) for REE and associated Rare Metals in the SB 2 (2.0 sq. km) in the southern part of the Siwana Ring Complex, Balotra district, Rajasthan" for approval of PSC, NMEDT with an estimated cost of ₹655.64 lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure – 5A & 5B. The item will be reviewed after 3rd, 6th and 9th months.

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Preliminary Exploration (G3) for REE and associated Rare Metals in the SB 2 (2.0 sq. km) in the southern part of the Siwana Ring Complex, Balotra district, Rajasthan Agency: Mining Tech Consultancy Services Ltd. Block area- 2.0 sq. km; Nos. of Boreholes-24 Nos.; Borehole depth range: 125m each ; Total Drilling: 3000 m; Schedule timeline- 12 months (Phase 1 to be completed in 4 months and Phase 2 be completed in 8 months). Review after: 3rd, 6th and 9th months							
S. No.	Job Description	Unit	Rates will be as per revised NMEDT SoC		Estimated Cost of the Proposal		Remarks
			SoC-Item -SI	Rates as per SoC (2025-26)	Qty.	Total Amount (Rs)	
Phase I							
A	Geo Physical Survey (Phase 1) (Reinterpretation of existing ground and airborne database, characterize the GP signals with the rock types and host lithology by overlay analysis)						
i	Geophysicist: at HQ	Mandays	1.2.1a	10500	30	315000	
	Sub Total A					315000	
B	Geological Mapping (DM) (1:2000) with contouring (1st Phase)						
i	Detailed Mapping (1:2000 scale) with contouring	per sq. km.	1.1	18300	2	36600	
	Sub Total B					36600	
C	Pitting/Trenching						
i	Trenching	per cu m	2.1.1	4125	50	206250	
	BRS and Trench Samples (Channel Samples: 100 samples)				100		Quantification of surface samples (To be collected in 1st phase)
	Sub Total C					206250	
D	Other Charges related to Phase I work						

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i	Geologist: In field	Mandays	1.2.1a	14500	90	1305000	
ii	Geologist: at HQ	Mandays	1.2.1a	10500	30	315000	
iii	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Mandays	5.8	541	180	97380	As per Labour Commission
iv	Charges for one sampler per day (for sample preparation)	Mandays	1.2.1b	7850	55	431750	
v	Labour charges (4 Nos for sample preparation)	Mandays	5.8	541	220	119020	As per Labour Commission
vi	Drone Topographic Survey	per sq. km.	7b	70000	2	140000	Survey at 2m contour interval, Scale 1:2000
vi	Surveyor (for mapping & contouring)	Mandays	1.3.1	10500	20	210000	Survey at 2m contour interval, Scale 1:2000
vii	Labour charges (4 labours)	Mandays	5.8	541	80	43280	
viii	Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS (including charges for labours deployed for the work)	Per point of Observation	1.3.2	24000	28	672000	
Sub Total D						3333430	
E	Drilling (1st Phase)						

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28/02/2026

28/2/2026

i	Drilling (Hard rock) (HQ size)	per m	2.2.1.1d	10000	800	8000000	5 BH (125 to 150 m depth each/may vary) Grid to be prepared on 200*400 m for 2 sq. km area. 1st phase BH (5 Nos.) to be planned from this grid and these 5 BH (of 1st phase) to be distributed uniformly to represent the whole area. 250 samples to be collected from 5 BH (50 samples per BH)
ii	Land Compensation	Per Borehole	5.6	30000	5	150000	As per actuals as certified by local authorities subject to a maximum of 30,000 per bore hole
iii	Concrete Pillar Construction	Per Borehole	2.2.7	2000	5	10000	
iv	Borehole Plugging by cement	Lumpsum per borehole	2.2.8	10000	5	50000	
Sub Total E						8210000	
F	Laboratory Studies						
i	HR-ICP MS (REE & Trace)	Per sample	4.1.15	7400	350	2590000	(250 Core samples + 100 Surface samples)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.15	7400	35	259000	
iii	Major oxides (WD XRF)- (oxides+ traces -24 elements)	Per sample	4.1.17a	4200	50	210000	
iv	Major oxides (WD XRF)- (oxides+ traces -24 elements) 10% check samples	Per sample	4.1.17a	4200	5	21000	

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28/2/2026

v	XRD analysis for identification of minerals (Random)	Per sample	4.5.2	4000	10	40000	
Physical & Petrological Studies							
vi	Preparation of polished thin section of rock	Per sample	4.3.2	800	10	8000	
vii	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo micrographs)	Per sample	4.3.4	2800	10	28000	
viii	EPMA	Per hour	4.4.1	10500	10	105000	
Sub Total F						3261000	
Total A+B+C+D+E+F						15362280	
Phase II							
G	GP Investigation (2nd Phase) (Before Drilling)						
i	Magnetic Survey (10-30 line km)	Per station	3.2a (i)	1800	250	450000	5 Lkm. 2.5 Lkm per sq.km of area with a line spacing of 200 m. Station interval is 20 m. 25 station per profile line. 25*5=125 stations per sq. km. Total 250 stations
Sub Total G						450000	
H	Geological Work (Mainly Core Logging)						
i	Geologist: In field (For Core Logging)	Mandays	1.2.1a	14500	90	1305000	
ii	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Mandays	5.8	541	180	97380	As per Labour Commission
ii	Geologist: at HQ	Mandays	1.2.1a	10500	30	315000	
iii	Charges for one sampler per day (for sample preparation)	Mandays	1.2.1b	7850	138	1083300	
iv	Labour charges (4 Nos for sample preparation)	Mandays	5.8	541	552	298632	

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	Sub Total H						3099312	
I	Drilling (II nd Phase)							
i	Drilling (Hard rock) (HQ size)	per m	2.2.1.1d	10000	2200	22000000	Approx 19 BH (as per 200*400 m grid)	
ii	Land Compensation	Per Borehole	5.6	30000	19	570000	As per actuals as certified by local authorities subject to a maximum of 30,000 per bore hole	
iii	Concrete Pillar Construction	Per Borehole	2.2.7	2000	19	38000		
iv	Borehole Plugging	Lumpsum per borehole	2.2.8	10000	19	190000		
v	Drill Core Preservation	per m	5.3	1590	1500	2385000		
	Sub Total I						25183000	
	Total Drilling cost of Phase I + Phase II					30000000	Total cost of 3000 m drilling of both phase	
J	Miscellaneous Charges related to Drilling (Phase I + Phase II)							
i	Drill Rig Transportation - To & Fro	lumpsum	2.2.9 (4)	For Drilling cost more than 2Crore : 10% of the Drilling Cost with a maximum ceiling of ₹ 25 lakh.	2500000		Miscellaneous Charges (Transportation of Drilling Rig, Accommodation for Drill Camp, Camp setting and winding, construction of Approach road)	
ii	Drilling Camp Setting Cost							
iii	Drilling Camp Winding Cost							
iv	Monthly Accomodation Charges							
v	Approach Road to Drill site							
	Sub Total J						2500000	
K	Laboratory Studies							
i	HR-ICP MS (REE & Trace)	Per sample	4.1.15	7400	1000	7400000	(1000 Core samples, 50 samples from each BH)	
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.15	7400	100	740000		
	Physical & Petrological Studies							

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iii	Preparation of polished thin section of rock	Per sample	4.3.2	800	10	8000	
iv	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (alongwith 5 nos. digital photo microgrphs)	Per sample	4.3.4	2800	10	28000	
v	Specific Gravity	Per sample	4.8.1	2500	5	12500	
	Sub Total K					8188500	
	Total A+B+C+D+E+F+G+H+I+J+K					54783092	
	Total outsourced component (if any)					0	
	Total Cost					54783092	
L	Geological Report Preparation		5.2 (iii)	Total cost of the project exceeding ₹150 lakh		750000	As per SoC
M	Peer Review by External Expert		As per EC decision	30000		30000	
N	Project Cost without GST					55563092	
O	GST - 18%					10001357	
P	Total Project Cost(With GST)					65564449	
	Rs. In Lacs					655.64	
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 6 of NMEDT SoC. In case of execution of the project by NEA/NPEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency						

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Time schedule for Preliminary Exploration (G3) for REE and associated Rare Metals in the SB 2 (2.0 sq. km) in the southern part of the Siwana Ring Complex, Balotra district, Rajasthan													Annexure 5B			
Sl. No.	Nature of work	Months														
		1	2	3	Review	4	5	6	Review	7	8	9	Review	10	11	12
1	Desktop study and reinterpretation of existing geophysical data (including obtaining necessary clearances etc)	█														
2	Camp setting		█													
3	Geological Mapping (DM, 1:2000)		█	█												
4	Topographic Survey and contouring (1:2000 scale)		█	█												
5	Trenching/Channel/ Bedrock Sampling			█	Review	█			Review				Review			
6	Geophysical Survey			█		█										
7	Drilling					█	█	█		█	█	█				
8	Sample Preparation					█		█				█				
9	Laboratory Studies							█						█	█	
10	Petrographic Studies / XRD / EPMA														█	
11	Geological Report Preparation & submission to NMET														█	█

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**Agenda 7.1.6 Preliminary exploration (G3) for REE and associated Rare Metals in the SB 3 block (2.00 sq. km) of the southern part of the Siwana Ring Complex, District-Balotra, Rajasthan
[Implementing Agency: Mining Tech & Consultancy Services Limited]**

- a. The bounding coordinates of the approved block is as follows:

Corner points	Latitude (°N)	Longitude (°E)
A	25°37'45.04"N	72°22'7.05"E
B	25°37'50.721"N	72°23'16.691"E
C	25°37'23.521"N	72°23'18.484"E
D	25°37'12.104"N	72°22'8.133"E

Recommendations of Joint TCC:

The committee recommended the proposal titled "Preliminary Exploration (G3) for REE and associated Rare Metals in the SB 3 (2.0 sq. km) in the southern part of the Siwana Ring Complex, Balotra district, Rajasthan" for approval of PSC, NMEDT with an estimated cost of ₹655.64 lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure – 5A & 5B. The item will be reviewed after 3rd, 6th and 9th months.

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<p align="center">Preliminary Exploration (G3) for REE and associated Rare Metals in the SB 3 (2.0 sq. km) in the southern part of the Siwana Ring Complex, Balotra district, Rajasthan</p> <p align="center">Agency: Mining Tech Consultancy Services Ltd.</p> <p align="center">Block area- 2.0 sq. km; Nos. of Boreholes-24 Nos.; Borehole depth range: 125m each ; Total Drilling: 3000 m; Schedule timeline- 12 months (Phase 1 to be completed in 4 months and Phase 2 be completed in 8 months). Review after: 3rd, 6th and 9th months</p>							
S. No.	Job Description	Unit	Rates will be as per revised NMEDT SoC		Estimated Cost of the Proposal		Remarks
			SoC-Item -SI	Rates as per SoC (2025-26)	Qty.	Total Amount (Rs)	
Phase I							
A	Geo Physical Survey (Phase 1) (Reinterpretation of existing ground and airborne database, characterize the GP signals with the rock types and host lithology by overlay analysis)						
i	Geophysicist: at HQ	Mandays	1.2.1a	10500	30	315000	
	Sub Total A					315000	
B	Geological Mapping (DM) (1:2000) with contouring (1st Phase)						
i	Detailed Mapping (1:2000 scale) with contouring	per sq. km.	1.1	18300	2	36600	
	Sub Total B					36600	
C	Pitting/Trenching						
i	Trenching	per cu m	2.1.1	4125	50	206250	
	BRS and Trench Samples (Channel Samples: 100 samples)				100		Quantification of surface samples (To be collected in 1st phase)
	Sub Total C					206250	
D	Other Charges related to Phase I work						

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i	Geologist: In field	Mandays	1.2.1a	14500	90	1305000	
ii	Geologist: at HQ	Mandays	1.2.1a	10500	30	315000	
iii	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Mandays	5.8	541	180	97380	As per Labour Commission
iv	Charges for one sampler per day (for sample preparation)	Mandays	1.2.1b	7850	55	431750	
v	Labour charges (4 Nos for sample preparation)	Mandays	5.8	541	220	119020	As per Labour Commission
vi	Drone Topographic Survey	per sq. km.	7b	70000	2	140000	Survey at 2m contour interval, Scale 1:2000
vi	Surveyor (for mapping & contouring)	Mandays	1.3.1	10500	20	210000	Survey at 2m contour interval, Scale 1:2000
vii	Labour charges (4 labours)	Mandays	5.8	541	80	43280	
viii	Demarcation of lease boundary, Fixation of borehole and determination of co-ordinates & Reduced Level (RL) of the boreholes by DGPS (including charges for labours deployed for the work)	Per point of Observation	1.3.2	24000	28	672000	
Sub Total D						3333430	
E	Drilling (1st Phase)						

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i	Drilling (Hard rock) (HQ size)	per m	2.2.1.1d	10000	800	8000000	5 BH (125 to 150 m depth each/may vary) Grid to be prepared on 200*400 m for 2 sq. km area. 1st phase BH (5 Nos.) to be planned from this grid and these 5 BH (of 1st phase) to be distributed uniformly to represent the whole area. 250 samples to be collected from 5 BH (50 samples per BH)
ii	Land Compensation	Per Borehole	5.6	30000	5	150000	As per actuals as certified by local authorities subject to a maximum of 30,000 per bore hole
iii	Concrete Pillar Construction	Per Borehole	2.2.7	2000	5	10000	
iv	Borehole Plugging by cement	Lumpsum per borehole	2.2.8	10000	5	50000	
Sub Total E						8210000	
F	Laboratory Studies						
i	HR-ICP MS (REE & Trace)	Per sample	4.1.15	7400	350	2590000	(250 Core samples + 100 Surface samples)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.15	7400	35	259000	
iii	Major oxides (WD XRF)- (oxides+ traces -24 elements)	Per sample	4.1.17a	4200	50	210000	
iv	Major oxides (WD XRF)- (oxides+ traces -24 elements) 10% check samples	Per sample	4.1.17a	4200	5	21000	

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v	XRD analysis for identification of minerals (Random)	Per sample	4.5.2	4000	10	40000	
Physical & Petrological Studies							
vi	Preparation of polished thin section of rock	Per sample	4.3.2	800	10	8000	
vii	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo micrographs)	Per sample	4.3.4	2800	10	28000	
viii	EPMA	Per hour	4.4.1	10500	10	105000	
Sub Total F						3261000	
Total A+B+C+D+E+F						15362280	
Phase II							
G	GP Investigation (2nd Phase) (Before Drilling)						
i	Magnetic Survey (10-30 line km)	Per station	3.2a (i)	1800	250	450000	5 Lkm. 2.5 Lkm per sq.km of area with a line spacing of 200 m. Station interval is 20 m. 25 station per profile line. 25*5= 125 stations per sq. km. Total 250 stations
Sub Total G						450000	
H	Geological Work (Mainly Core Logging)						
i	Geologist: In field (For Core Logging)	Mandays	1.2.1a	14500	90	1305000	
ii	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Mandays	5.8	541	180	97380	As per Labour Commission
ii	Geologist: at HQ	Mandays	1.2.1a	10500	30	315000	
iii	Charges for one sampler per day (for sample preparation)	Mandays	1.2.1b	7850	138	1083300	
iv	Labour charges (4 Nos for sample preparation)	Mandays	5.8	541	552	298632	

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	Sub Total H						3099312	
I	Drilling (II nd Phase)							
i	Drilling (Hard rock) (HQ size)	per m	2.2.1.1d	10000	2200	22000000	Approx 19 BH (as per 200*400 m grid)	
ii	Land Compensation	Per Borehole	5.6	30000	19	570000	As per actuals as certified by local authorities subject to a maximum of 30,000 per bore hole	
iii	Concrete Pillar Construction	Per Borehole	2.2.7	2000	19	38000		
iv	Borehole Plugging	Lumpsum per borehole	2.2.8	10000	19	190000		
v	Drill Core Preservation	per m	5.3	1590	1500	2385000		
	Sub Total I						25183000	
	Total Drilling cost of Phase I + Phase II					30000000	Total cost of 3000 m drilling of both phase	
J	Miscellaneous Charges related to Drilling (Phase I + Phase II)							
i	Drill Rig Transportation - To & Fro	lumpsum	2.2.9 (4)	For Drilling cost more than 2 Crore : 10% of the Drilling Cost with a maximum ceiling of ₹ 25 lakh.	2500000		Miscellaneous Charges (Transportation of Drilling Rig, Accommodation for Drill Camp, Camp setting and winding, construction of Approach road and Drill core preservation)	
ii	Drilling Camp Setting Cost							
iii	Drilling Camp Winding Cost							
iv	Monthly Accomodation Charges							
v	Approach Road to Drill site							
vi	Drill Core Preservation (1500 m core to be preserved; 1 complete BH and remaining from mineralised zones)							
	Sub Total J						2500000	
K	Laboratory Studies							

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i	HR-ICP MS (REE & Trace)	Per sample	4.1.15	7400	1000	7400000	(1000 Core samples, 50 samples from each BH)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.15	7400	100	740000	
Physical & Petrological Studies							
iii	Preparation of polished thin section of rock	Per sample	4.3.2	800	10	8000	
iv	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo microgrphs)	Per sample	4.3.4	2800	10	28000	
v	Specific Gravity	Per sample	4.8.1	2500	5	12500	
Sub Total K						8188500	
Total A+B+C+D+E+F+G+H+I+J+K						54783092	
Total outsourced component (if any)						0	
Total Cost						54783092	
L	Geological Report Preparation		5.2 (iii)	Total cost of the project exceeding ₹150 lakh		750000	As per SoC
M	Peer Review by External Expert		As per EC decision	30000		30000	
N	Project Cost without GST					55563092	
O	GST - 18%					10001357	
P	Total Project Cost(With GST)					65564449	
Rs. In Lacs						655.64	
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.						

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

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Time schedule for Preliminary Exploration (G3) for REE and associated Rare Metals in the SB 3 (2.0 sq. km) in the southern part of the Siwana Ring Complex, Balotra district, Rajasthan													Annexure 6B			
Sl. No.	Nature of work	Months														
		1	2	3	Review	4	5	6	Review	7	8	9	Review	10	11	12
1	Desktop study and reinterpretation of existing geophysical data (including obtaining necessary clearances etc)	█														
2	Camp setting		█													
3	Geological Mapping (DM, 1:2000)		█	█												
4	Topographic Survey and contouring (1:2000 scale)		█	█												
5	Trenching/Channel/ Bedrock Sampling			█	Review	█			Review				Review			
6	Geophysical Survey			█		█										
7	Drilling					█	█	█		█	█	█				
8	Sample Preparation					█		█				█				
9	Laboratory Studies							█					█	█		
10	Petrographic Studies / XRD / EPMA													█		
11	Geological Report Preparation & submission to NMET													█	█	█

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28/2/2026

Agenda 7.2 (Additional) Discussion on feasibility of proposal submitted by M/s Geovale Services Pvt. Ltd. in association with GSI

- a. In compliance to RoD of the meeting with GSI, NPEAs and other major mining companies held under the Chairmanship of the Secretary, Mines on 7th October 2025, GSI in its mail sent to NMEDT on 06.02.2026, apprised that regarding the suggestion that other NPEAs could be roped in for exploration, five project proposals for Regional Survey of Inland Placer Deposits in the Bhiloda-Kapadvanj-Malpur areas of Gujarat is finalized in consultation with M/s Geovale Services. These proposals cover an area of 4,363 sq. km and are to be taken up by NPEAs or other exploration agencies.
- b. The committee was informed that based on the outcome of the recently concluded Geovale's G-4 stage exploration for evaluation of placer xenotime prospect in Ujol river basin, Gujarat, a part of the potential area of the Eastern Gujarat Highlands has been identified for further exploration, to be taken up by the NPEAs.
- c. Geologically, Neoproterozoic Syn- to Post- Delhi Intrusives (including Godhra Granite), intruding into high grade metasediments of Lunavada and Champaner Group (Meso- to Palaeoproterozoic) forms the basement in the area.
- d. The crystalline rocks are locally overlain by Upper Cretaceous-Palaeocene Deccan Trap basalts with infratrappean Lameta Formation sediments, and are extensively covered by Quaternary alluvial and colluvial deposits.
- e. The agency in its proposal, have mentioned that the area is structurally controlled by NW–SE to NE–SW lineaments and shear zones influencing granite emplacement, drainage evolution, and sediment dispersal. The tectonic subsidence of the Cambay Basin has led to drainage confinement and thus enhanced sediment trapping, creating favourable conditions for inland placer development.
- f. Reconnaissance Survey by Geovale in the Ujol Block indicated REE-bearing placer/colluvial deposits in Quaternary sediments, with HMC averaging ~3.25 wt% and peaking at ~12 wt% (riverbed) and ~6.3 wt% (terrace). Values are from pan-concentrates of heavies.
- g. Xenotime and monazite are identified as the principal REE-bearing mineral phases, accompanied by zircon and other resistant heavy minerals.
- h. The proposed exploration aims to appraise REE and rare-metal potential in inland placers, identify and characterize favourable geomorphic/regolith domains (channels, terraces, palaeo-channels, colluvial aprons, pediplains, Quaternary sediments), and establish preliminary geological–geomorphological–mineralogical controls on REE-bearing placer distribution.
- i. Based on these background details, Geovale Services Pvt. Ltd. have carved out 5 blocks with cumulative ~4,500 sq. km target area on major river systems, palaeo-terraces and inland placer potential for systematic mapping and targeted geochemical evaluation.
- j. The detail of proposed area is as follows:

SI. No.	Block Name	Area (sq. km.)
1.	Bhiloda Block	630
2.	Sabarkantha Block	956

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3.	Modasa Block	763
4.	Malpur Block	1140
5.	Kapadvanj Block	874
Total area proposed		4363 sq.km

- k. The committee observed that the reported HMC values are based on pre-concentrated heavy fractions after separation from sediments and do not represent in-situ bulk sediment grades; hence, the data is not reflective of the true potential of the area.
- l. Overall alluvial results affirm a significant placer REE/RM result (Ti, Zr & REE). There is low grade enrichment of primary resource from BRS results. No any single outcrop has shown extraordinary grade of analysis. Residual (Regolith) is very patchy and localised in SE part having insignificant ion-adsorption clay seams. Resource or volumetric assessment of ore (334) has not been attempted.
- m. The Committee noted that heavy liquid separation, liberation and modal analysis artificially enrich samples and are neither feasible nor recommended for realistic assessment of area potential.
- n. The committee was of view that the information provided by M/s Geovale Services is insufficient to take up simultaneous reconnaissance stage exploration in large multiple blocks.
- o. It was decided that a single block will be taken up as a pilot project over a smaller area. A methodology and Standard Operating Procedure (SoP) shall be developed initially for this block and replicated in a larger area for other blocks.
- p. The Committee decided that one block may be allotted to an NPEA on a nomination basis for preliminary work for six months, involving systematic sampling, with further work to be considered based on analytical outcomes. The Block No. 2, i.e., Sabarkantha block was selected for this purpose.
- q. As the proposal pertains to placer deposits, the Committee advised that, in addition to mineral/HM concentrates, grain-size analysis and thickness of individual beds should also be considered.
- r. Sh. A. R. Mukundhan, Regional Director, AMD, South Central Region and Member, TCC-I also pointed out that as per the amended Atomic Mineral Concession Rules (AMCR), 2016 (specifically via a 2019 notification), **the threshold value for monazite in beach sand or placer deposits in India is 0.00% in Total Heavy Minerals (THM).** This amendment ensures all beach sand mineral or placer deposits containing monazite are under government control, regardless of concentration.
- s. The GR titled "Reconnaissance Survey (G4) for Evaluation of Placer Xenotime Prospect in Ujol River Basin, Gujarat" was circulated amongst members for expert comments.
- t. The committee reserved their decision, regarding feasibility of the proposal and deferred it for next joint TCC meeting.

Recommendations of Joint TCC:

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28/12/2026

The committee reserved their decision, regarding feasibility of the proposal and deferred it for next joint TCC meeting.

Agenda 7.3 (Additional) Discussion on finalisation of checklist for Exploration Agencies for submission of exploration project proposals

- a. As compliance to RoD of the meeting with Notified Private Exploration Agencies, held under the Chairmanship of the Secretary, Mines on 13th February, 2026, a draft checklist for NPEAs for submission of exploration project proposal was presented before committee for discussion.
- b. The committee reviewed the checklist thoroughly and agreed upon the points mentioned in draft checklist.

Recommendations of Joint TCC:

The committee agreed upon the points mentioned in draft checklist for NPEAs, for submission of exploration project proposal as per Annexure 7.

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28/2/2026

**CHECKLIST FOR EXPLORATION AGENCIES FOR SUBMISSION OF EXPLORATION
PROJECT PROPOSALS**

Name of Project/Block: _____

Agency: _____

Nodal Personnel (Agency): _____

Date: _____

Sl. No.	Items to be Verified by Agency	Yes/No	Page Number in submitted Document
1	Geospatial scrutiny completed using KML/coordinate dataset and AOI assessed (including exploration activities, mining areas, eco zones, dependencies).	Yes / No	
2	Total Forest area in proposed block - with pic from PM Gatishakti portal. Type of forest (RF/PF/Sanctuary/National Reserve forest) to be mentioned.	Yes / No	
3	Overlap study of previous exploration work carried out in any exploration agencies/departments, or ongoing/proposed exploration work by any agencies/departments done	Yes/No	
3	Baseline data availability (NGCM, NGPM, Geological Maps, Airborne geophysical data etc) on NGDR confirmed and reflected in comments.	Yes / No	
4	Processing of Baseline Geoscience data (NGCM, NGPM, Geological Maps, Airborne geophysical data etc), legacy exploration data of proposed area, integration, analysis and interpretation presented in the project proposal/DPR	Yes / No	
5	Existing leases (ML/CL/EL etc.) in and around project area verified through NGDR/State DGM/Ministry of Mines	Yes / No	
6	Whether the area falling within the buffer zone of International Boundary, Wildlife sanctuary, no-go zone, Biodiversity Park etc.	Yes / No	

Qau
28/12/2026

QJH
28/12/2026

7	Literature review and previous findings submitted by agency verified and reflected in DPR/In-principle <i>(Page number of the particular to be mentioned in Reference / Bibliography)</i>	Yes / No	
8	Whether the agency has carried out field work in the proposed area, collected samples and presented their findings with analytical data in project proposal/DPR	Yes / No	
9	Justification for proposed commodities and details of previous work included in DPR/In-principle. Reference to NMEDT's ongoing/completed projects verified and included in comments.	Yes / No	

Other Information

Accreditation of Agency:

Date:

Valid Upto:

Notification of Agency:

Date:

Valid Upto:

Personnel Deployed

As per QCI NABET -

Current strength -

Total no. of Projects funded by NMEDT:

Approved -

Completed -

Ongoing -

Comments of Nodal Personnel (Agency), if any:

Certification

I hereby certify that the above checklist has been duly completed and all verifications have been carried out as per the guidelines.

Signature of Nodal Personnel (Agency): _____

Name: _____

Designation: _____

Date: _____

REE exploration in Siwana Ring Complex by the individual NEAs/NPEAs

DATASETS COLLECTION, AUGMENTATION & USE (Available Data)

Geological Data (lithology, structure, STM and LSM data etc)

Geophysical Data (NGPM, NAGMP etc)

Geochemical Data (Bedrock chemistry, Borehole, soil, channel, pit etc)

Remote Sensing Data (ASTER, Hyperspectral etc)

Data used from published literature (any pertinent geoscience data/ information)

Borehole Data with log analytical information (georeferenced)

BRS data (georeferenced)

Any mineralisation information extracted from published Literature /earlier exploration reports

METHODOLOGY (Lab Analysis)

Data Augmentation, Synthesis in geospatial format (existing borehole, BRS, soil, lithology from STM or LSM etc)

Outcrop – Regolith map preparation

DATA ANALYSIS & INTERPRETATION (Geophysics) – a buffer of 2 km should be considered around w.r.t the allocated block for exploration

Geophysical Data Analysis; Interpretation of derivative maps

Aero – Magnetic, Aero-Spectrometric

Aeromagnetic grid clipping of area that includes allocated area with a 2 km buffer around

Creation of new magnetic algorithm maps with new class intervals (natural break, 7 to 11 classes or as suited to the area)

The new derivative maps are

RTP,

TMI,

AS,

Qau
27/01/2016

QJH
28/12/2016

HD (Horizontal Derivative)

VD

Residual MI

Upward continuity for mapping deeper units,

HF & LF

Power spectrum analysis with shallow, moderate and deeper magnetic signal maps,

Depth solution maps like Euler etc and its signal depth interpretation map

Radiometric maps: Gamma, K, Th, Th/ K etc

NGPM data may also be processed for gravity if significant number of gravity points available within the buffered 2 km area around the allocated block

DATA ANALYSIS & INTERPRETATION (Geochemistry, Remote Sensing)

Geochemical Data Analysis: BRS, Borehole Chemistry etc to be geospatially referenced and suitable representative maps to be prepared.

Remote sensing data analysis (Interpretation of Alteration Maps)

ASTER alteration of argillic, potassic, phyllic, Iron of an area with a 5 km buffer around the target block)

DATA ANALYSIS & INTERPRETATION (Geology)

Accumulation of high-resolution lithology (STM or LSM whichever is higher), structure etc

Overlay Analysis with Geophysics, Geology, Remote Sensing etc.

Overlay of high-resolution lithology (Actual outcrop geology and regolith) and structure with RTP, AS, TMI

Correlation of geology and Aerogeophysical derivative maps

Preparation of magnetic domains from RTP/ AS/ TMI suitably by correlating with the lithology and structure.

Preparation of predictive lithology and structure for the regolith covered terrain

Preparation of continuous lithology and structure map for the block area

The agency should attempt to prepare a regolith thickness map using aeromagnetic map.

Qau
28/12/2026

QJH
28/12/2026

Overlay analysis of radiometrics with lithology and characterising the lithology w.r.t fertility towards REE

Overlay of lithology, structure, suitable magnetic derivatives, radiometric, ASTER or Hyperspectral, geochemistry of BRS/ Soil/ BH etc and delineate first-hand REE prospective lithology or structure

Deeper continuity of host lithology or structure based on intermediate and deep/upward continuity/ depth solutions magnetic signal derivative maps

Preparing a kinematics of signals in predicting the host lithology/ structure for aligning the intersections by proposing suitable boreholes (first-hand, later supplemented with the field inputs).

Qau
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28/12/2015

List of participants who attended 7th Joint Meeting of Technical-cum-cost Committees (TCC-I & TCC-II) of NMEDT held on 20th February, 2026 through VC mode

S.no	Name	Designation	Email ID	Contact No	Organization
1	Dr. S. Ravi	Dy. Director General, GSITI, Hyderabad	s.ravi1@gsi.gov.in	9441138834	Chairman, TCC-1
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21	Dr. M. K. Mukherjee	Associate Professor IIT (ISM) Dhanbad	mrinal@iitism.ac.in	9431711148	Member TCC-II

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20/02/2026

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28/2/2026

22	Dr. T.S.Sunil Kumar	Addl. Director (Retired), AMD	ts.sunilkumar@gmail.com	9502560153	Member TCC-II
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25	Shri Sudeep Manish Toppo	Director	sudeep.toppo@gsi.gov.in	9065146048	GSI
26	Representatives of Hindmetal Exploration Services Pvt. Ltd.				
27	Representatives of Mining Tech Consultancy Services Pvt. Ltd.				
29	Representatives of Geomarine Solutions Pvt. Ltd.				
30	Representatives of NRD-TATA Steel Ltd.				
31	Ms. Bishakha	Sr. Geologist	nmet-mines@gov.in	8126541605	NMEDT
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