

Ministry of Mines
National Mineral Exploration and Development Trust
Minutes of the 5th Joint Meeting of Technical-cum-Cost Committees held on
26th November, 2025 and 5th December, 2025 through video conferencing mode

The 5th Joint meeting of Technical Cum-Cost Committees (TCC-I & TCC-II) of National Mineral Exploration and Development Trust (NMEDT) was held on 26th November, 2025 and 5th December, 2025 in VC mode to review DPR of 11 projects including 10 number of allocated blocks in Siwana Ring Complex, Rajasthan to different agencies for exploration at G3 stage through NMEDT Fund and one RMT project. 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-13.

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 out of 15 blocks carved out by GSI in the Siwana Ring Complex, Rajasthan, 10 blocks are allocated to different agencies during 4th meeting of Joint TCC meeting of NMEDT. 5 blocks have been reserved by DMG, Rajasthan for exploration by AMD. The Chair emphasized that during the review of the DPRs of individual blocks, a standardized and uniform approach must be adopted. He apprised that all blocks fall within similar geological terrain and cover comparable areas; therefore, the methodology, parameters, and evaluation criteria should remain consistent across all blocks.

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 5.1 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 finalized and standardized the quantum of work, project timelines, and indicative cost parameters for all blocks.

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.

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 alongwith 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 during 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.

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 ten items will be taken up in joint TCC after 3rd, 6th and 9th months.

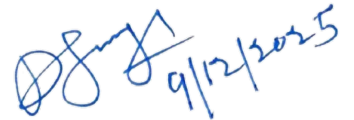
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**Agenda 5.1.1 Preliminary Exploration (G3) for REE and associated mineralization in NB
1 Block (2.00 Sq Km), District-Balotra, Rajasthan
[Implementing Agency: Hindmetal Exploration Services Pvt. Ltd.]**

Recommendations of Joint TCC:

The committee recommended the proposal entitled “Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 1 block (2.00 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan” for approval of PSC, NMEDT with an estimated cost of ₹621.44 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.



Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 1 block (2.00 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan.							
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	Geophysical 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	3.18 a	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						
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 rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher

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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 rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
vi	Surveyor (for mapping & contouring)	Mandays	1.3.1	10500	30	315000	GM at scale-1:2000, contour interval 2 m
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	24 BH + 4 Cardinal points
Sub Total D						3320070	
E	Drilling (1st Phase) (Outsourced)						
i	Drilling (Hard rock) (HQ size)	per m	2.2.1.1d	10000	800	8000000	5 BH (Depth range 125 m to 150m 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. Samples 50 from each BH maximum 250 from 5 BHs.
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	

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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	4.1.16f	7400	350	2590000	(250 Core samples + 100 Surface samples)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.16f	7400	35	259000	As per actuals
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	As per actuals
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					15348920	
Phase II							
G	GP Investigation (2nd Phase) (Prior to IInd phase of 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 rates prescribed by Central Labour

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							Commission rates or respective State Govt. whichever is higher
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) (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	
	Sub Total I					22798000	
	Total Drilling cost of Phase I + Phase II (outsourced components)		(1500 m core to be preserved; 1 complete BH and skeletonized mineralised zones from each BH)			30000000	Total cost of 3000 m drilling of both phase.
J	Laboratory Studies						
i	HR-ICP MS (REE & Trace)	Per sample	4.1.16f	7400	1000	7400000	(1000 Core samples, 50 samples from each BH)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.16f	7400	100	740000	As per actuals
	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 (alongwith 5 nos. digital photo micrographs)	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					49884732	
	Total outsourced component (if any)					30000000	

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K	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	
L	Total Cost					51884732	
M	Geological Report Preparation		5.2 (iii)	Total cost of the project exceeding ₹150 lakh		750000	As per SoC
N	Peer Review by External Expert		As per EC decision	30000		30000	
O	Project Cost without GST					52664732	
P	GST - 18%					9479652	
Q	Total Project Cost (With GST)					62144384	
	Rs. In Lacs					621.44	
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 Soc SI No. 6 of NMET SoC. In case of execution of the project by NEA/NPEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency						

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Annexure 1B

Time schedule for Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 1 block (2.00 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan.																			
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 NMEDT																		

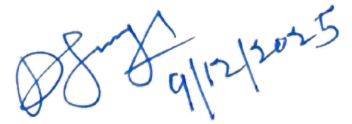
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Agenda 5.1.2 Preliminary Exploration (G3) for REE and associated mineralization in NB 2 Block (2.00 Sq Km), District-Balotra, Rajasthan
[Implementing Agency: Mining Tech Consultancy Services Limited]

Recommendations of Joint TCC:

The committee recommended the proposal entitled “Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 2 block (2 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan” for approval of PSC, NMEDT with an estimated cost of ₹627.34 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.



Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 2 block (2.00 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan.

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	SoC-Item -SI	Rates as per SoC (2025- 26)	Estimated Cost of the Proposal		Remarks
					Qty.	Total Amount (Rs)	
Phase I							
A	Geophysical 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	3.18 a	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						
i	Geologist: In field	Mandays	1.2.1a	14500	90	1305000	
ii	Geologist: at HQ	Mandays	1.2.1a	10500	30	315000	

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iii	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Mandays	5.8	541	180	97380	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
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 rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
vi	Surveyor (for mapping & contouring)	Mandays	1.3.1	10500	30	315000	GM at scale-1;2000, contour interval 2 m
vii	Labour charges (4 labours)	Mandays	5.8	541	120	64920	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
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 (Depth range 125 m to 150m 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. Samples 50 from each BH maximum 250 from 5 BHs.

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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	4.1.16f	7400	350	2590000	(250 Core samples + 100 Surface samples)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.16f	7400	35	259000	As per actuals
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	As per actuals
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	
Phase II							
G	GP Investigation (2nd Phase) (Prior to IInd phase of Drilling)						

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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 rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
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 (IInd Phase)						In-house drilling subject to accreditation by QCI-NABET
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	
	Sub Total I					22798000	
	Total Drilling cost of Phase I + Phase II					30000000	Total cost of 3000 m drilling of both phase.

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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 skeletonized mineralised zones from each BH)						
	Sub Total J					2500000	
K	Laboratory Studies						
i	HR-ICP MS (REE & Trace)	Per sample	4.1.16f	7400	1000	7400000	(1000 Core samples, 50 samples from each BH)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.16f	7400	100	740000	As per actuals
	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 micrographs)	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					52384732	
	Total outsourced component (if any)					0	
	Total Cost					52384732	
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	

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N	Project Cost without GST					53164732	
O	GST - 18%					9569652	
P	Total Project Cost(With GST)					62734384	
	Rs. In Lacs					627.34	
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 Soc SI No. 6 of NMEDT SoC. In case of execution of the project by NEA/NPEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency						


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Annexure 2B

Time schedule for Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 2 block (2.00 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan.																			
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 NMEDT																		

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Agenda 5.1.3 Preliminary Exploration (G3) for REE and associated mineralization in NB 3 Block (2.00 Sq Km), District-Balotra, Rajasthan
[Implementing Agency: United Exploration India Pvt. Ltd.]

Recommendations of Joint TCC:

The committee recommended the proposal entitled “Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 3 block (2.00 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan” for approval of PSC, NMEDT with an estimated cost of ₹627.91 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 3 block (2.00 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan.

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	Geophysical 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	3.18 a	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						
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 rates prescribed by Central Labour

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							Commission rates or respective State Govt. whichever is higher
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 rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
vi	Surveyor (for mapping & contouring)	Mandays	1.3.1	10500	30	315000	GM at scale-1;2000, contour interval 2 m
vii	Labour charges (4 labours)	Mandays	5.8	541	120	64920	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
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	30	720000	
	Sub Total D					3368070	
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 (Depth range 125 m to 150m 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. Samples 50 from each BH maximum 250 from 5 BHs.
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	4.1.16f	7400	350	2590000	(250 Core samples + 100 Surface samples)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.16f	7400	35	259000	As per actuals
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	As per actuals
v	XRD analysis for identification of minerals (Random)	Per sample	4.5.2	4000	10	40000	
	Physical & Petrological Studies						

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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					15396920	
Phase II							
G	GP Investigation (2nd Phase) (Prior to IInd phase of 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 rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
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	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
	Sub Total H					3099312	

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I	Drilling (II nd Phase)						In-house drilling subject to accreditation by QCI-NABET
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	
	Sub Total I					22798000	
	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 Accommodation Charges						
v	Approach Road to Drill site						
vi	Drill Core Preservation (1500 m core to be preserved; 1 complete BH and skeletonized mineralised zones from each BH)						
	Sub Total J					2500000	
K	Laboratory Studies						
i	HR-ICP MS (REE & Trace)	Per sample	4.1.16f	7400	1000	7400000	(1000 Core samples, 50 samples from each BH)

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ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.16f	7400	100	740000	As per actuals
	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 micrographs)	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					52432732	
	Total outsourced component (if any)					0	
	Total Cost					52432732	
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					53212732	
O	GST - 18%					9578292	
P	Total Project Cost(With GST)					62791024	
	Rs. In Lacs					627.91	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Soc SI No. 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 NB 3 block (2.00 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan.																
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 NMEDT															

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**Agenda 5.1.4 Preliminary Exploration (G3) for REE and associated mineralization in NB 5 Block (1.98 Sq Km), District-Balotra, Rajasthan
[Implementing Agency: GeoExpOre Pvt Ltd.]**

Recommendations of Joint TCC:

The committee recommended the proposal entitled "Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 5 block (1.98 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan" for approval of PSC, NMEDT with an estimated cost of ₹627.91 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 NB 5 block (1.98 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan.
Block area- 1.98 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	SoC-Item -SI	Rates as per SoC (2025-26)	Estimated Cost of the Proposal		Remarks
					Qty.	Total Amount (Rs)	
Phase I							
A	Geophysical 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	3.18 a	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	1.98	36234	
	Sub Total B					36234	
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						
i	Geologist: In field	Mandays	1.2.1a	14500	90	1305000	
ii	Geologist: at HQ	Mandays	1.2.1a	10500	30	315000	

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iii	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Mandays	5.8	541	180	97380	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
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 rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
vi	Surveyor (for mapping & contouring)	Mandays	1.3.1	10500	30	315000	GM at scale-1:2000, contour interval 2 m
vii	Labour charges (4 labours)	Mandays	5.8	541	120	64920	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
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	30	720000	24 BH + 6 Cardinal points
	Sub Total D					3368070	
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 (Depth range 125 m to 150m 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. Samples 50 from each BH maximum 250 from 5 BHs.
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	4.1.16f	7400	350	2590000	(250 Core samples + 100 Surface samples)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.16f	7400	35	259000	As per actuals
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	As per actuals
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	

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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					15396554	
Phase II							
G	GP Investigation (2nd Phase) (Prior to IInd phase of 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)						In-house drilling subject to accreditation by QCI-NABET
i	Drilling (Hard rock) (HQ size)	per m	2.2.1.1d	10000	2200	22000000	Approx 19 BH (as per 200*400 m grid)

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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	
	Sub Total I					22798000	
	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 Accommodation Charges						
v	Approach Road to Drill site						
vi	Drill Core Preservation (1500 m core to be preserved; 1 complete BH and skeletonized mineralised zones from each BH)						
	Sub Total J					2500000	
K	Laboratory Studies						
i	HR-ICP MS (REE & Trace)	Per sample	4.1.16f	7400	1000	7400000	(1000 Core samples, 50 samples from each BH)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.16f	7400	100	740000	
	Physical & Petrological Studies						As per actuals
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 micrographs)	Per sample	4.3.4	2800	10	28000	

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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					52432366	
	Total outsourced component (if any)					0	
	Total Cost					52432366	
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					53212366	
O	GST - 18%					9578226	
P	Total Project Cost(With GST)					62790592	
	Rs. In Lacs					627.91	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Soc SI No. 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 NB 5 block (1.98 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan.																			
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 NMEDT																		

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Agenda 5.1.5 Preliminary Exploration (G3) for REE and associated mineralization in NB 9 & NB 10 Block (2.85 Sq Km), District-Balotra, Rajasthan
[Implementing Agency: Mineral Exploration and Consultancy Ltd.]

Recommendations of Joint TCC:

The committee recommended the proposal entitled “Preliminary Exploration (G3) for REE and associated Rare Metals in the modified NB 9 and NB 10 block (2.85 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan” for approval of PSC, NMEDT with an estimated cost of ₹825.26 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.



Preliminary Exploration (G3) for REE and associated Rare Metals in the modified NB9 and NB 10 block (2.85 sq. km) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan.

Block area- 2.85 sq. km; Nos. of Boreholes-32 Nos.; Borehole depth range: 125m each ; Total Drilling: 4000 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	SoC-Item - SI	Rates as per SoC (2025-26)	Estimated Cost of the Proposal		Remarks
					Qty.	Total Amount (Rs)	
Phase I							
A	Geophysical 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	3.18 a	10500	30	315000	
	Sub Total A					315000	
B	Geological Mapping (DM) (1:2000) with contouring (1st Phase)						
i	Detailed Mapping with contouring (1:2000 scale)	per sq. km.	1.1	18300	2.85	52155	
	Sub Total B					52155	
C	Pitting/Trenching						
i	Trenching	per cu m	2.1.1	4125	75	309375	
	BRS and Trench Samples (Channel Samples: 150 samples)				150		Quantification of surface samples (To be collected in 1st phase 75 Trench + 75 BRS)
	Sub Total C					309375	
D	Other Charges related to Phase I work						
i	Geologist: In field	Mandays	1.2.1a	14500	120	1740000	
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	240	129840	As per rates prescribed by Central Labour

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							Commission rates or respective State Govt. whichever is higher
iv	Charges for one sampler per day (for sample preparation)	Mandays	1.2.1b	7850	62	486700	
v	Labour charges (4 Nos for sample preparation)	Mandays	5.8	541	248	134168	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
vi	Surveyor (for mapping & contouring)	Mandays	1.3.1	10500	45	472500	GM at scale-1;2000, contour interval 2 m
vii	Labour charges (4 labours)	Mandays	5.8	541	180	97380	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
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	38	912000	32 BH + 6 Cardinal points
	Sub Total D					4287588	
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 (Depth range 125 m to 150m 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. Samples 50 from each BH maximum 250 from 5 BHs.
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	4.1.16f	7400	400	2960000	(250 Core samples + 150 Surface samples)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.16f	7400	40	296000	As per actuals
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	As per actuals
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	

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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					3668000	
	Total A+B+C+D+E+F					16842118	
Phase II							
G	GP Investigation (2nd Phase) (Prior to IInd phase of Drilling)						
i	Magnetic Survey (10-30 line km)	Per station	3.2a (i)	1800	375	675000	7.5 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 375 stations
	Sub Total G					675000	
H	Geological Work (Mainly Core Logging)						
i	Geologist: In field (For Core Logging)	Mandays	1.2.1a	14500	120	1740000	
ii	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Mandays	5.8	541	240	129840	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
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	206	1617100	
iv	Labour charges (4 Nos for sample preparation)	Mandays	5.8	541	824	445784	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
	Sub Total H					4247724	
I	Drilling (IInd Phase) (outsourced)						

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i	Drilling (Hard rock) (HQ Size)	per m	2.2.1.1d	10000	3200	32000000	Approx 27 BH (as per 200*400 m grid)
ii	Land Compensation	Per Borehole	5.6	30000	27	810000	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	27	54000	
iv	Borehole Plugging	Lumpsum per borehole	2.2.8	10000	27	270000	
	Sub Total I					33134000	
	Total Drilling cost of Phase I + Phase II		(1500 m core to be preserved; 1 complete BH and remaining from mineralised zones)			40000000	Total cost of 4000 m drilling of both phase.
J	Laboratory Studies						
i	HR-ICP MS (REE & Trace)	Per sample	4.1.16f	7400	1500	11100000	(1500 Core samples, Approx. 50 samples from each BH)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.16f	7400	150	1110000	As per actuals
	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 micrographs)	Per sample	4.3.4	2800	10	28000	
v	Specific Gravity	Per sample	4.8.1	2500	5	12500	
	Sub Total J					12258500	
	Total A+B+C+D+E+F+G+H+I+J					67157342	
	Total outsourced component (if any)					40000000	
K	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	
L	Total Cost					69157342	

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M	Geological Report Preparation		5.2 (iii)	Total cost of the project exceeding ₹150 lakh	750000	As per SoC
N	Peer Review by External Expert		As per EC decision	30000	30000	
O	Project Cost without GST				69937342	
P	GST - 18%				12588722	
Q	Total Project Cost(With GST)				82526064	
R	Rs. In Lacs				825.26	
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 Soc SI No. 6 of NMEDT SoC. In case of execution of the project by NEA/NPEA on its own, a Certificate regarding non outsourcing of any component/project is required.					
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.					
5	Any item of work not mentioned above shall be added as per SoC.					
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency					

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Annexure 5B

Time schedule for Preliminary Exploration (G3) for REE and associated Rare Metals in the modified NB 9 and NB 10 block (2.85 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan.																			
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 NMEDT																		

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Agenda 5.1.6 Preliminary Exploration (G3) for REE and associated mineralization in NB 11 Block (2.0 Sq Km), District-Balotra, Rajasthan
[Implementing Agency: FCI Aravali Gypsum and Minerals India Limited]

Recommendations of Joint TCC:

The committee recommended the proposal entitled “Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 11 block (2.00 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan” for approval of PSC, NMEDT with an estimated cost of ₹627.34 lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure – 6A & 6B. The item will be reviewed after 3rd, 6th and 9th months.


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Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 11 block (2.00) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan.

**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			Estimated Cost of the Proposal		Remarks
			SoC-Item - Sl	Rates as per SoC (2025-26)	Qty.	Total Amount (Rs)	
Phase I							
A	Geophysical 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	3.18 a	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	Quantification of surface samples (To be collected in 1st phase)
	BRS and Trench Samples (Channel Samples: 100 samples)				100		
	Sub Total C					206250	
D	Other Charges related to Phase I work						
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 rates prescribed by Central Labour

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							Commission rates or respective State Govt. whichever is higher
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 rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
vi	Surveyor (for mapping & contouring)	Mandays	1.3.1	10500	30	315000	GM at scale-1;2000, contour interval 2 m
vii	Labour charges (4 labours)	Mandays	5.8	541	120	64920	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
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 (Depth range 125 m to 150m 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. Samples 50 from each BH maximum 250 from 5 BHs.

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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	4.1.16f	7400	350	2590000	(250 Core samples + 100 Surface samples)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.16f	7400	35	259000	As per actuals
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	As per actuals
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	
Phase II							
G	GP Investigation (2nd Phase) (Prior to IInd phase of Drilling)						

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i	Magnetic Survey (10-30 line km)	Per station	3.2a (i)	1800	250	450000	5 L. km. 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 rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
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	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
	Sub Total H					3099312	
I	Drilling (IInd 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	

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iv	Borehole Plugging	Lumpsum per borehole	2.2.8	10000	19	190000	
	Sub Total I					22798000	
	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 Accommodation Charges						
v	Approach Road to Drill site						
vi	Drill Core Preservation (1500 m core to be preserved; 1 complete BH and skeletonized mineralised zones from each BH)						
	Sub Total J					2500000	
K	Laboratory Studies						
i	HR-ICP MS (REE & Trace)	Per sample	4.1.16f	7400	1000	7400000	(1000 Core samples, 50 samples from each BH)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.16f	7400	100	740000	As per actuals
	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 micrographs)	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					52384732	
	Total outsourced component (if any)					0	
	Total Cost					52384732	
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					53164732	
O	GST - 18%					9569652	
P	Total Project Cost(With GST)					62734384	
	Rs. In Lacs					627.34	
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 Soc SI No. 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 modified NB 11 block (2.00 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan.																			
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 NMEDT																		

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Agenda 5.1.7 Preliminary Exploration (G3) for REE and associated mineralization in NB 12 Block (2.0 Sq Km), District-Balotra, Rajasthan
[Implementing Agency: Natural Resources Division-Tata Steel Limited]

Recommendations of Joint TCC:

The committee recommended the proposal entitled “Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 12 block (2.00 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan” for approval of PSC, NMEDT with an estimated cost of ₹621.44 lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure – 7A & 7B. The item will be reviewed after 3rd, 6th and 9th months.



Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 12 block (2.0 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan.							
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	SoC-Item -Sl	Rates as per SoC (2025-26)	Estimated Cost of the Proposal		Remarks
					Qty.	Total Amount (Rs)	
Phase I							
A	Geophysical 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	3.18 a	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						
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	

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iii	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Mandays	5.8	541	180	97380	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
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 rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
vi	Surveyor (for mapping & contouring)	Mandays	1.3.1	10500	30	315000	GM at scale-1:2000, contour interval 2 m
vii	Labour charges (4 labours)	Mandays	5.8	541	120	64920	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
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	24 BH + 4 Cardinal points
Sub Total D						3320070	
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 (Depth range 125 m to 150m 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. Samples 50 from each BH maximum 250 from 5 BHs.
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	4.1.16f	7400	350	2590000	(250 Core samples + 100 Surface samples)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.16f	7400	35	259000	As per actuals
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	As per actuals

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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 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					15348920	
Phase II							
G	GP Investigation (2nd Phase) (Prior to IInd phase of 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	
	Sub Total H					3099312	
I	Drilling (II nd Phase) (Outsourced)						

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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	
	Sub Total I					22798000	
	Total Drilling cost of Phase I + Phase II		(1500 m core to be preserved; 1 complete BH and skeletonized mineralised zones from each BH)		30000000	Total cost of 3000 m drilling of both phase.	
J	Laboratory Studies						
i	HR-ICP MS (REE & Trace)	Per sample	4.1.16f	7400	1000	7400000	(1000 Core samples, 50 samples from each BH)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.16f	7400	100	740000	As per actuals
	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 micrographs)	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					49884732	
	Total outsourced component (if any)					30000000	
K	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	
L	Total Cost					51884732	
M	Geological Report Preparation		5.2 (iii)	Total cost of the project exceeding ₹150 lakh		750000	As per SoC

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N	Peer Review by External Expert		As per EC decision	30000		30000	
O	Project Cost without GST					52664732	
P	GST - 18%					9479652	
Q	Total Project Cost (With GST)					62144384	
	Rs. In Lacs					621.44	
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 Soc SI No. 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 modified NB 12 block (2.00 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan.																			
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 NMEDT																		

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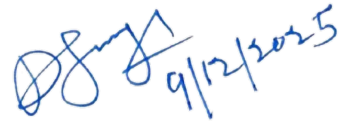
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Agenda 5.1.8 Preliminary Exploration (G3) for REE and associated mineralization in NB 13 Block (2.00 Sq. Km.), District-Balotra, Rajasthan
[Implementing Agency: Natural Resources Division-Tata Steel Limited]

Recommendations of Joint TCC:

The committee recommended the proposal entitled “Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 13 block (2.00 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan” for approval of PSC, NMEDT with an estimated cost of ₹621.73 lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure – 8A & 8B. 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 13 block (2.0 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan.

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	SoC-Item -Sl	Rates as per SoC (2025-26)	Estimated Cost of the Proposal		Remarks
					Qty.	Total Amount (Rs)	
Phase I							
A	Geophysical 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	3.18 a	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						
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	

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iii	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Mandays	5.8	541	180	97380	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
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 rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
vi	Surveyor (for mapping & contouring)	Mandays	1.3.1	10500	30	315000	GM at scale-1;2000, contour interval 2 m
vii	Labour charges (4 labours)	Mandays	5.8	541	120	64920	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
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	29	696000	24 BH + 5 Cardinal points
	Sub Total D					3344070	
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 (Depth range 125 m to 150m 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. Samples 50 from each BH maximum 250 from 5 BHs.
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	4.1.16f	7400	350	2590000	(250 Core samples + 100 Surface samples)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.16f	7400	35	259000	As per actuals
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	As per actuals


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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 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					15372920	
Phase II							
G	GP Investigation (2nd Phase) (Prior to IInd phase of 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 rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
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	As per rates prescribed by Central Labour

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							Commission rates or respective State Govt. whichever is higher
	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	
	Sub Total I					22798000	
	Total Drilling cost of Phase I + Phase II		(1500 m core to be preserved; 1 complete BH and skeletonized mineralised zones from each BH)			30000000	Total cost of 3000 m drilling of both phase.
J	Laboratory Studies						
i	HR-ICP MS (REE & Trace)	Per sample	4.1.16f	7400	1000	7400000	(1000 Core samples, 50 samples from each BH)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.16f	7400	100	740000	As per actuals
	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 micrographs)	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					49908732	
	Total outsourced component (if any)					30000000	

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K	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	
L	Total Cost					51908732	
M	Geological Report Preparation		5.2 (iii)	Total cost of the project exceeding ₹150 lakh		750000	As per SoC
N	Peer Review by External Expert		As per EC decision	30000		30000	
O	Project Cost without GST					52688732	
P	GST - 18%					9483972	
Q	Total Project Cost (With GST)					62172704	
	Rs. In Lacs					621.73	
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 Soc SI No. 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 modified NB 13 block (2.00 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan.																			
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 NMEDT																		

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Agenda 5.1.9 Preliminary Exploration (G3) for REE and associated mineralization in NB 14 Block (2.42 Sq. Km.), District-Balotra, Rajasthan
[Implementing Agency: Gemcokati Exploration Pvt. Ltd.]

Recommendations of Joint TCC:

The committee recommended the proposal entitled “Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 14 block (2.42 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan” for approval of PSC, NMEDT with an estimated cost of ₹730.55 lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure – 9A & 9B. The item will be reviewed after 3rd, 6th and 9th months.



Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 14 block in (2.42 sq. km.) the northern part of the Siwana Ring Complex, Balotra district, Rajasthan.

Block area- 2.42 sq. km; Nos. of Boreholes-28 Nos.; Borehole depth range: 125m each ; Total Drilling: 3500 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	Estimated Cost of the Proposal				Remarks
			SoC-Item -SI	Rates as per SoC (2025-26)	Qty.	Total Amount (Rs)	
Phase I							
A	Geophysical 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	3.18 a	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	2.42	44286	
	Sub Total B				44286		
C	Pitting/Trenching						
i	Trenching	per cu m	2.1.1	4125	70	288750	
	BRS and Trench Samples (Channel Samples: 130 samples)			130			Quantification of surface samples (To be collected in 1st phase) Trench Samples:70 nos. + BRS: 60 samples
	Sub Total C				288750		
D	Other Charges related to Phase I work						
i	Geologist: In field	Mandays	1.2.1a	14500	105	1522500	
ii	Geologist: at HQ	Mandays	1.2.1a	10500	30	315000	

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iii	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Mandays	5.8	541	210	113610	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
iv	Charges for one sampler per day (for sample preparation)	Mandays	1.2.1b	7850	59	463150	
v	Labour charges (4 Nos for sample preparation)	Mandays	5.8	541	236	127676	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
vi	Surveyor (for mapping & contouring)	Mandays	1.3.1	10500	40	420000	GM at scale-1;2000, contour interval 2 m
vii	Labour charges (4 labours)	Mandays	5.8	541	160	86560	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
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	34	816000	28 BH + 6 Cardinal Points
	Sub Total D				3864496		
E	Drilling (1st Phase)						
i	Drilling (Hard rock) (HQ size)	per m	2.2.1.1d	10000	800	8000000	5 BH (Depth range 125 m to 150m 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

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							area. Samples 50 from each BH maximum 250 from 5 BHs.
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
viii	Concrete Pillar Construction	Per Borehole	2.2.7	2000	5	10000	
ix	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	4.1.16f	7400	380	2812000	(250 Core samples + 130 Surface samples)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.16f	7400	38	281200	As per actuals
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	As per actuals
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 (alongwith 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					3505200	
	Total A+B+C+D+E+F					16227732	
Phase II							
G	GP Investigation (2nd Phase) (Prior to IInd phase of Drilling)						

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i	Magnetic Survey (10-30 line km)	Per station	3.2a (i)	1800	300	540000	6 L.km. 2.5 L.km 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 300 stations
	Sub Total G					540000	
H	Geological Work (Mainly Core Logging)						
i	Geologist: In field (For Core Logging)	Mandays	1.2.1a	14500	105	1522500	
ii	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Mandays	5.8	541	210	113610	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
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	172	1350200	
iv	Labour charges (4 Nos for sample preparation)	Mandays	5.8	541	688	372208	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
	Sub Total H					3673518	
I	Drilling (IInd Phase)						In-house drilling subject to accreditation by QCI-NABET
i	Drilling (Hard rock) (HQ size)	per m	2.2.1.1d	10000	2700	27000000	Approx 23 BH (as per 200*400 m grid)
ii	Land Compensation	Per Borehole	5.6	30000	23	690000	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	23	46000	

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iv	Borehole Plugging	Lumpsum per borehole	2.2.8	10000	23	230000	
	Sub Total I					27966000	
	Total Drilling cost of Phase I + Phase II					35000000	Total cost of 3500 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 Accommodation Charges						
v	Approach Road to Drill site						
vi	Drill Core Preservation (1500 m core to be preserved; 1 complete BH and skeletonized mineralised zones from each BH)						
	Sub Total J					2500000	
K	Laboratory Studies						
i	HR-ICP MS (REE & Trace)	Per sample	4.1.16f	7400	1250	9250000	(1250 Core samples, Approx. 50 samples from each BH)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.16f	7400	125	925000	As per actuals
	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 micrographs)	Per sample	4.3.4	2800	10	28000	
v	Specific Gravity	Per sample	4.8.1	2500	5	12500	
	Sub Total K					10223500	
	Total A+B+C+D+E+F+G+H+I+J+K					61130750	
L	Total Cost					61130750	

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M	Geological Report Preparation		5.2 (iii)	Total cost of the project exceeding ₹150 lakh	750000	As per SoC
N	Peer Review by External Expert		As per EC decision	30000	30000	
O	Project Cost without GST				61910750	
P	GST - 18%				11143935	
Q	Total Project Cost(With GST)				73054685	
	Rs. In Lacs				730.55	
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 Soc SI No. 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 modified NB 14 block (2.42 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan.																			
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 NMEDT																		

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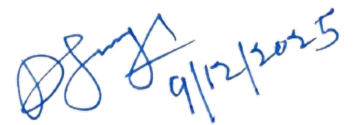
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**Agenda 5.1.10 Preliminary Exploration (G3) for REE and associated mineralization in
NB 15 Block (2.00 Sq. Km.), District-Balotra, Rajasthan
[Implementing Agency: Ocean Drilling and Exploration Private Limited]**

Recommendations of Joint TCC:

The committee recommended the proposal entitled “Preliminary Exploration (G3) for REE and associated Rare Metals in the NB 15 block (2.00 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan” for approval of PSC, NMEDT with an estimated cost of ₹621.44 lakhs (including GST) within time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure – 10A & 10B. 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 15 block (2.0 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan.

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	SoC-Item - SI	Rates as per SoC (2025-26)	Estimated Cost of the Proposal		Remarks
					Qty.	Total Amount (Rs)	
Phase I							
A	Geophysical 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	3.18 a	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						
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	

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iii	Labour charges (for sample collection, packaging, carrying, 2 Nos)	Mandays	5.8	541	180	97380	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
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 rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
vi	Surveyor (for mapping & contouring)	Mandays	1.3.1	10500	30	315000	GM at scale-1;2000, contour interval 2 m
vii	Labour charges (4 labours)	Mandays	5.8	541	120	64920	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
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	24 BH + 4 Cardinal points
	Sub Total D					3320070	
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 (Depth range 125 m to 150m 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. Samples 50 from each BH maximum 250 from 5 BHs.
ii	Land Compensation	Per Borehole	5.6	30000	5	150000	
iii	Concrete Pillar Construction	Per Borehole	2.2.7	2000	5	10000	
iv	Borehole Plugging	Lumpsum per borehole	2.2.8	10000	5	50000	
Sub Total E						8210000	
F	Laboratory Studies						
i	HR-ICP MS (REE & Trace)	Per sample	4.1.16f	7400	350	2590000	(250 Core samples + 100 Surface samples)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.16f	7400	35	259000	As per actuals
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	As per actuals
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	

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	Sub Total F					3261000	
	Total A+B+C+D+E+F					15348920	
Phase II							
G	GP Investigation (2nd Phase) (Prior to IInd phase of 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 rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
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	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
	Sub Total H					3099312	
I	Drilling (IInd 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	


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iv	Borehole Plugging	Lumpsum per borehole	2.2.8	10000	19	190000	
	Sub Total I					22798000	
	Total Drilling cost of Phase I + Phase II		(1500 m core to be preserved; 1 complete BH and skeletonized mineralised zones from each BH)			30000000	Total cost of 3000 m drilling of both phase.
J	Laboratory Studies						
i	HR-ICP MS (REE & Trace)	Per sample	4.1.16f	7400	1000	7400000	(1000 Core samples, 50 samples from each BH)
ii	HR-ICP MS (REE & Trace) 10% check samples	Per sample	4.1.16f	7400	100	740000	As per actuals
	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					49884732	
	Total outsourced component (if any)					30000000	
K	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	
L	Total Cost					51884732	
M	Geological Report Preparation		5.2 (iii)	Total cost of the project exceeding ₹150 lakh		750000	As per SoC
N	Peer Review by External Expert		As per EC decision	30000		30000	

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O	Project Cost without GST					52664732	
P	GST - 18%					9479652	
Q	Total Project Cost (With GST)					62144384	
	Rs. In Lacs					621.44	
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 Soc SI No. 6 of NMEDT SoC. In case of execution of the project by NEA/NPEA on its own, a Certificate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency						

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Annexure 10B

Time schedule for Preliminary Exploration (G3) for REE and associated Rare Metals in the modified NB 15 block (2.00 sq. km.) in the northern part of the Siwana Ring Complex, Balotra district, Rajasthan.																
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 NMEDT															

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Agenda 5.2 Review of RMT (Regional Mineral Targeting) Proposal

Agenda 5.2.1 Regional Mineral Targeting in Taka-Chimur-Shegaon Buzurg area in Chandrapur, Wardha and Nagpur districts of Maharashtra to evaluate the aero-geophysical anomalies, interpretation of Remote Sensing data and integration with baseline geoscience data for basemetals, REE, RM and other associated mineralization

[Implementing Agency: Mining Tech Consultancy Services Limited]

- The proposed RMT block of 1450 sq. km area falls in parts of Toposheet nos. 55 P/02, 55 P/03, 55 P/06 & 55 P/07 in Chandrapur, Wardha and Nagpur districts of Maharashtra.
- Five suites of rocks, viz., Deccan volcanics, Lower Gondwana, Bengal Gneiss, Lameta Limestone, Penganga Sediments are exposed in the proposed area.
- The agency informed that their objective is to integrate multidisciplinary data and identify G4-level exploration blocks with Base metals, REE, RM & associated mineral systems being the main targets.
- The agency informed that the part of the proposed block overlaps Tadoba Tiger Reserve.
- After detailed discussion and deliberations, the committee opined that the proposed area should restrict to 1973 sq. km., excluding the Tiger Reserve area. The committee opined that unnecessary sampling/traverses may be avoided in portion of designated block occupied/covered with sedimentary sequence of Gondwana Supergroup of rocks which are not favourable geological domain of hosting BM & associated mineralisation.
- The committee also decided that the work will be carried out in four phases. Phase I work would include data integration of available data and hence identification of gap areas. Phase II work would include traverse mapping, pitting, trenching, surface samples, SS, soil samples collection and analysis. XRD and EPMA would also be done for identification of mineral phases. Phase III will include Geophysical survey alongwith pitting, trenching, surface sample collection and analysis. Phase IV work would include drilling and analysis of core samples.
- The four phases of work would be followed by data interpretation and prospectivity analysis using AI/ML.
- The committee also instructed the agency that the general guidelines outlined for RMT projects funded by NMET must be followed. The guidelines are given in minutes of 1st Joint meeting of TCC-I and TCC-II held on 7th and 8th July, 2025 for RMT blocks.

Recommendations of Joint TCC:

The committee recommended the proposal entitled “Regional Mineral Targeting (RMT) to identify prospective zones of Base-metals, REE, RM and other associated mineralization in Chandrapur, Wardha and Nagpur districts of Maharashtra” for approval of PSC, NMEDT with an estimated cost of ₹751.08 lakhs (including GST) within time schedule of 24 months for carrying out the proposed work and submission of report as per Annexure – 11A & 11B. The item will be reviewed after completion of each phases.

**** The charges for preparation of exploration proposal given in previous 5 RMT blocks to be withdrawn**


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Regional Mineral Targeting (RMT) to identify prospective zones of Base-metals, REE, RM and other associated mineralization in Chandrapur, Wardha and Nagpur districts of Maharashtra

Name of the Exploration Agency - Mining Tech Consultancy Services Ltd. (MTCS)

Total Area: 1973 sqkm; No. of Borehole: 10; Scout drilling: 2000m; Completion Time: 24 months; Review: After completion of each Phase

S. No.	Item of Work *	Unit *	Rates as per NMET SoC 2025-26		Estimated Cost of the Proposal		Remarks
			SoC-Item No. *	Rates as per SoC * (a)	Qty. (b)	Total Amount (Rs) (a*b)	
	PHASE I Timeline: 4 months, Review after completion of Phase I						
A	Data Integration & Gap Identification						
1	Data Integration, interpretation & gap identification by Geologist (HQ)	day	1.2.1a	10,500	120	12,60,000	
2	Data Integration & interpretation by Geophysicist (HQ)	day	3.18 a	10,500	30	3,15,000	
	Sub Total A (Cost for Phase I)					15,75,000	
	PHASE II Timeline: 6 months, Review after completion of Phase II						
B							
1	Traverse Mapping (1:25000 scale)	per sq. km.	1.1	-	-	-	If area is already covered by STM on 1:25000 scale, check traverses to be conducted on 1:12500 in selective

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							mineralised potential areas only.
2	Geologist (Field) (pitting/trenching work)	day	1.2.1a	14,500	120	17,40,000	
3	Labor (Field) - 2 No per Geologist	day	5.8	541	240	1,29,840	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
4	Sampler - 1 No (For BRS,PS & TS)	day	1.2.1b	7,850	85	6,67,250	
5	Labor (Sampling) - 4 Nos	day	5.8	541	340	1,83,940	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
6	Geologist (HQ)	day	1.2.1a	10,500	60	6,30,000	
	Sub Total - B					33,51,030	
C	Pitting & Trenching						
1	Pitting (2m depth)	cu.m.	2.1.2	4,725	50	2,36,250	
2	Trenching (2m depth)	cu.m.	2.1.1	4,125	100	4,12,500	
	Sub Total - C					6,48,750	
D	LABORATORY STUDIES OF FIELD SAMPLES						
1	Bedrock Samples (Chip/ Channel Samples)						
a	Fire Assay (Gold) : Primary + 10%Check Samples	Nos	4.1.5a	3,500	55	1,92,500	
b	HR-ICP MS (REE & Trace): Primary + 10%Check Samples	Nos	4.1.16f	7,400	220	16,28,000	
c	For PGE (ICP-MS Ni-S Fire assay technique): Primary+10%Check Samples	Nos	4.1.6	13,600	55	7,48,000	

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d	Major oxides (WD XRF)- (oxides+ traces - 24 elements): Primary+10%Check Samples	Nos	4.1.17a	4,200	55	2,31,000	
2	Stream Sediment/ Soil /Regolith Samples						
a	Fire Assay (Gold): Primary + 10% Check Samples	Nos	4.1.5a	3,500	22	77,000	
b	HR-ICP MS (REE & Trace): Primary + 10% Check Samples	Nos	4.1.16f	7,400	110	8,14,000	
3	Pit/Trench Samples						
a	Fire Assay (Gold) : Primary + 10% Check Samples	Nos	4.1.5a	3,500	28	98,000	
b	HR-ICP MS (REE & Trace): Primary + 10% Check Samples	Nos	4.1.16f	7,400	110	8,14,000	
c	For PGE (ICP-MS Ni-S Fire assay technique): Primary+ 10% Check Samples	Nos	4.1.6	13,600	28	3,80,800	
4	Whole Rock Analysis						
a	Preparation of Thin Polished section	Nos	4.3.2	800	40	32,000	
b	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo micrographs)	Nos	4.3.4	2,800	40	1,12,000	
5	Mineralogical Study						
a	XRD analysis for identification of minerals (Random)	Nos	4.5.2	4,000	20	80,000	
b	EPMA	Hours	4.4.1	10,500	20	2,10,000	10 samples
	Sub Total - D					54,17,300	
	Cost for Phase II					94,17,080	
	PHASE III Timeline: 6 months, Review after completion of Phase III						
E	Geophysical Survey						

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1	Gravity-Magnetic Survey	station	3.1b	4,500	800	36,00,000	
2	I.P. cum-resistivity, S.P. Magnetic Survey (package 8-10 L km)	LKm.	3.4b	14,48,693	10	1,44,86,930	Rs 14,48,693 per 8-10 Lkm, 250 LKm is considered
3	Geophysicist (HQ)	day	3.18 a	10,500	45	4,72,500	
	Sub Total- E					1,85,59,430	
F	Pitting & Trenching						
1	Pitting (2m depth)	cu.m.	2.1.2	4725	50	2,36,250	
2	Trenching (2m depth)	cu.m.	2.1.1	4125	100	4,12,500	
3	Geologist (Field)	day	1.2.1a	14500	60	8,70,000	
4	Labor (Field) - 2 No per Geologist	day	5.8	541	120	64,920	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
5	Sampler - 1 No	day	1.2.1b	7850	30	2,35,500	
6	Labor (Sampling) - 4 Nos	day	5.8	541	120	64,920	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
7	Geologist (HQ) (For Preparation of Interim Progress Report)	day	1.2.1a	10,500	30	3,15,000	
	Subtotal - F					21,99,090	
G	LABORATORY STUDIES OF BRS/PIT/TRENCH SAMPLES						
1	Bedrock Samples (Chip/ Channel Samples)						
a	Fire Assay (Gold) : Primary + 10% Check Samples	Nos	4.1.5a	3,500	11	38,500	

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b	HR-ICP MS (REE & Trace): Primary + 10% Check Samples	Nos	4.1.16f	7,400	22	1,62,800	
c	For PGE (ICP-MS Ni-S Fire assay technique): Primary + 10% Check Samples	Nos	4.1.6	13,600	11	1,49,600	
2	Pit/Trench Samples						
a	Fire Assay (Gold) : Primary + 10% Check Samples	Nos	4.1.5a	3,500	55	1,92,500	
b	HR-ICP MS (REE & Trace): Primary + 10% Check Samples	Nos	4.1.16f	7,400	110	8,14,000	
c	For PGE (ICP-MS Ni-S Fire assay technique): Primary + 10% Check Samples	Nos	4.1.6	13,600	28	3,80,800	
3	Whole Rock Analysis (Petrochemical Samples)						
a	Preparation of Thin Polished section	Nos	4.3.2	800	10	8,000	
b	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (along with 5 nos. digital photo micrographs)	Nos	4.3.4	2,800	10	28,000	
4	Fluid Inclusion Study	Nos	4.3.8	10,200	10	1,02,000	
	Sub Total - G					18,76,200	
	Cost for Phase III					2,26,34,720	
	PHASE IV						
	Timeline: 8 months, Review after completion of Phase IV						
H	SCOUT DRILLING- In-House						
1	Drilling (Hard rock)	m	2.2.1.1d	10,000	2000	2,00,00,000	10 boreholes considered with 200m depth
2	Fixation of Borehole and determination of co-ordinates and RL of BH by DGPS	per point	1.3.2	24,000	10	2,40,000	
3	Borhole Plugging by Cement	Lumpsum per borehole	2.2.8	10,000	10	1,00,000	

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4	Construction of concrete Pillar (12"x12"x30")	per BH	2.2.7	2,000	10	20,000	
5	Land / Crop Compensation (in case the BH falls in agricultural Land)	per BH	5.6	30,000	10	3,00,000	As per actuals as certified by local authorities subject to a maximum of 30,000 per bore hole
6	Transportation of Drill Rig & Truck associated per drill	Lumpsum	2.2.9 (4)	For Drilling cost more than 2 Crore : 10% of the Drilling Cost with a maximum ceiling of ₹ 25 lakh	Lumpsum	20,00,000	Miscellaneous Charges (Transportation of Drilling Rig, Accommodation for Drill Camp, Camp setting and winding, construction of Approach road and Drill core preservation)
7	Accommodation Charges for drilling Camp (1 Rig)						
8	Drilling Camp Setting Cost						
9	Drilling Camp Winding up Cost						
10	Road Making (Flat Terrain)						
11	Drill Core Preservation						
12	Geologist (Field) (For execution of drilling activity)	day	1.2.1a	14,500	120	17,40,000	
13	Labor (Field) - 2 No per Geologist	day	5.8	541	240	1,29,840	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
14	Sampler - 1 Party	day	1.2.1b	7,850	54	4,23,900	
15	Labor (Sampling) - 4 Nos	day	5.8	541	216	1,16,856	As per rates prescribed by Central Labour Commission rates or respective State Govt. whichever is higher
16	Geologist (HQ)	day	1.2.1a	10,500	30	3,15,000	
	Sub Total - H					2,53,85,596	

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I	LABORATORY STUDIES OF DRILL CORE SAMPLES						
1	Drill Core Samples						
a	Fire Assay (Gold) : Primary + 10% Check Samples	Nos	4.1.5a	3,500	55	1,92,500	
b	HR-ICP MS (REE & Trace): Primary + 10% Check Samples	Nos	4.1.16f	7,400	330	24,42,000	
c	For PGE (ICP-MS Ni-S Fire assay technique): Primary+ 10% Check Samples	Nos	4.1.6	13,600	28	3,80,800	
d	Major oxides (WD XRF)- (oxides+ traces - 24 elements): Primary+10%Check Samples	Nos	4.1.17a	4,200	22	92,400	
2	Petrological Studies						
a	Preparation of Thin Polished section	Nos	4.3.2	800	30	24,000	
b	Complete petrographic /ore microscopic study/mineragraphic report of rock sample (alongwith 5 nos. digital photo micrographs)	Nos	4.3.4	2,800	30	84,000	
3	Specific Gravity	Nos	4.8.1	2,500	5	12,500	
	Sub Total - I					32,28,200	
	Cost for Phase IV					2,86,13,796	
J	Data interpretation using AI/ML						
	Geologist HQ Days for Integration of data, prospectivity analysis using AI & ML technology and generation of mineral prospectivity maps	day	1.2.1a	10,500	60	6,30,000	
	Sub Total - J					6,30,000	
	Sub Total: A+B+C+D+E+F+G+H+I+J					6,28,70,596	
K	Geological Report Preparation	5 Hard copies with a soft copy	5.2 iii	Total cost of the project exceeding ₹150 lakh is ₹7.5 lakh		7,50,000	Reimbursement will be made after submission of the final Geological Report

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							in Hard Copies (5 Nos) and the soft copy to NMET.
L	Peer review Charges		As per EC decision			30,000	
M	Total Estimated Cost without GST					6,36,50,596	
N	Provision for GST (18% of K)					1,14,57,107	GST will be reimbursed as per actual and as per notified prescribed rate
O	Total Estimated Cost with GST					7,51,07,703	
				or Say Rs. In Lakhs		751.08	
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 Soc SI No. 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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Activity																										
	1	2	3	4	Review	5	6	7	8	9	10	Review	11	12	13	14	15	16	Review	17	18	19	20	21	22	23
Phase I																										
Collection, integration and study for mineral targeting and gap analysis. Preparation of Prospectivity map based on data analysis & identification of Gap areas																										
Phase II																										
Traverse Mapping (1:50000/ 1:25000 scale) and associated works																										
Pitting & Trenching																										
Laboratory Studies of Field Samples																										
Interim Report																										
Phase III																										
Ground Geophysical Survey																										
Pitting & Trenching																										
Laboratory Studies of BRS/Pit/Trench Samples																										
Interim Report																										
Phase IV																										

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Scout Drilling																							
Laboratory Studies of Core Samples																							
Data compilation, RMT report preparation & submission to GSI / NMET																							

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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,

HD (Horizontal Derivative)

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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.

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

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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).

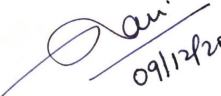
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**List of participants who attended 5th Joint Meeting of Technical-cum-cost
Committees (TCC-I & TCC-II) of NMEDT held on 26th November and 5th December,
2025, through VC mode**

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
2	Shri. Pradeep Singh	Dy. Director General, GSI, Kolkata	ddg.it@gsi.gov.in	9810233957	Chairman, TCC -II
3	Shri. I.R. Kirmani	ADG (Retd.), GSI	irkirmani@yahoo.com	9414014723	Member TCC-1
4	Shri. M. Mohan	Dy. Director General (Retd.), GSI	mariappan.mohan@gmail.com	9423686547	Member TCC-1
5	Shri. K. Koteswara Rao	Dy.D.G. (Retd.) GSI	kkrao1957@gmail.com	9000117969	Member TCC-1
6	Dr. S. K. Kulshrestha	DDG-RMH-III, NER, GSI, Shillong	s.kulshrestha@gsi.gov.in	9413330658	Member TCC-1
7	Sh. A. R. Mukundhan	Regional Director, AMD, South Central Region	mukuagaram@rediffmail.com	6303606347	Member TCC-1
8	Dr.E.V.S.S.K. Babu	Scientist (G), NGRI	evsskbabu@ngri.res.in	9441535852	Member TCC-1
9	Shri. S.K. Adhikari	Chief Mining Geologist, IBM, Nagpur	skadhikari@ibm.gov.in	7588690545	Member TCC-1
10	Ms. Geetika Sharma	Deputy Secretary & HoD, NMET, Ministry of Mines	geetika.sharma@gov.in	-	Member TCC-II
11	Shri. P.K. Maharana	DGM (Finance), NALCO, Bhubaneswar	pmaharana@rediffmail.com	8500669500	Member TCC-1
12	Shri. Ravi Kumar Gupta	General Manager (Finance) HCL, Kolkata	ravi_g@hindustancopper.com	9433274328	Member TCC-1
13	Smt. Vandana	Cost Accounts Officer, RSAS, Bangalore, GSI	vandana@gsi.in	8660939235	Member TCC-1
14	Shri. S. Dhanendran	Director, GSI & Member Secretary, TCC- NMEDT, GSITI Hyderabad	s.dhanendran@gsi.gov.in	9944882204	Member Secretary TCC-1
15	Shri. Sanjay Singh	Director, GSI, Western Region, Jaipur	sanjay.singh3@gsi.gov.in	9928860884	Member Secretary TCC-II
16	Shri. B S Jodha	Dy. Director General (Retired), GSI	jodha1961@gmail.com	9414023478	Member TCC-II
17	Shri. Sunil Kumar Vashisth	GM (Retired), Hindustan Zinc Limited, Udaipur	sunilhzi@gmail.com	9829059236	Member TCC-II
18	Shri. Dilip Kanungo	Chief Ore Dressing officer, IBM	codo@ibm.gov.in	8237047897 9405147897	Member TCC-II

19	Shri. D.S.Jeere	Director, GSI, RSAS Bengaluru.	dattatreya.jeere@gsi.gov.in	-	Member TCC-II
20	Shri M.K.Patel	Dy. Director General (Retired), GSI	patelmk27@gmail.com	9040011231	Member TCC-II
21	Dr. M. K. Mukherjee	Associate Professor IIT (ISM) Dhanbad	mrinal@iitism.ac.in	9431711148	Member TCC-II
22	Dr. T.S.Sunil Kumar	Addl. Director (Retired), AMD	ts.sunilkumar@gmail.com	9502560153	Member TCC-II
23	Shri. Alok Kumar	Deputy Secretary (IFD), Ministry of Mines	alok.kumar@nic.in	-	Member TCC-II
24	Shri. Anoop Kumar	CAO, GSI, CHQ Kolkata, GSI	anoop.kumar2@gsi.gov.in	-	Member TCC-II
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.				
28	Representatives of United Exploration India Pvt. Ltd.				
29	Representatives of GeoExpOre Pvt. Ltd.				
30	Representatives of Mineral Exploration & Consultancy Ltd. (MECL)				
31	Representatives of FAGMIL				
32	Representatives of NRD-TATA Steel Ltd.				
33	Representatives of Gemcokati Exploration Pvt. Ltd.				
34	Smt. Anju C.S	Superintending Geologist	nmet-mines@gov.in	8588836933	NMEDT
35	Sh. Seababrata Das	Sr. Geologist	nmet-mines@gov.in		NMEDT
36	Ms. Bishakha	Sr. Geologist	nmet-mines@gov.in	8126541605	NMEDT


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