Ministry of Mines
National Mineral Exploration and Development Trust
Minutes of the 95th Technical-cum-Cost Committee-1 (TCC-1) Meeting held on 27th and 28th April 2026 through video conferencing

The 95th Meeting of the Technical-cum-Cost Committee-I (TCC-1) of the National Mineral Exploration and Development Trust (NMEDT) was held via video conferencing under the chairmanship of Dr. S. Ravi, Deputy Director General (DDG), Geological Survey of India Training Institute (GSITI) and Chairman, TCC-1, NMEDT, on 27th and 28th April 2026. Members of TCC-1, NMEDT and representatives from DGM Rajasthan, CGM Gujarat, DGM MP, MECL, M/s. Enkay Enviro Services Pvt. Ltd., M/s. Envirogreen Consultants (India) Private Limited, IMPCON, Eartenviro Pvt. Ltd., M/s. MMPL Private Limited, M/s APC Drilling & Construction Pvt. Ltd., My World Consultancy Services Pvt. Ltd., JEMCL, CMT, KIOCL, M/s Ocean Drilling and Exploration Private Limited and M/s. Geo Exploration and Mining Solutions have attended the meeting through their respective VC modes.

The list of participants is enclosed in Annexure-9.

Shri S. Dhanendran, Director, GSI and Member Secretary, TCC-1, NMEDT, welcomed Dr. S. Ravi, Dy. Director General, GSI and Chairman, TCC-1, NMEDT, Members of the TCC-1 and participants representing various Notified Exploration Agencies (NEAs) and Notified Private Exploration Agencies (NPEAs).

Dr. S. Ravi, Chairman of TCC-1, NMEDT, extended a warm welcome to all members of TCC-1 and participants representing various NEAs and NPEAs and conducted the proceedings as per circulated agenda.

Agenda 95.1: Technical evaluation of new project proposals

Agenda 95.1.1. Reconnaissance Survey (G4 stage) for REE/RM in Variya Bhakhri Kheda area, Balotra District, Rajasthan.
[Implementing Agency: M/s. Enkay Enviro Services Pvt. Ltd.]

a. The proposed block falls within Survey of India Toposheet Nos. 45C/01 and 45C/02 and is predominantly occupied by plutonic and volcanic rocks of the Neoproterozoic Malani Igneous Suite.
b. The exposed lithologies comprise volcanic, hypabyssal, and plutonic equivalents of basic to acidic magmatism, represented by basalt and rhyolite flows, pyroclastics, rhyolite porphyry, dolerite dykes, and granites. Early geological accounts of the Malani volcanic suite were provided by Blanford (1877) and Hacket (1881), while Murthy et al. (1961) formally defined the Siwana ring structure with riebeckite-bearing rhyolites and granites. Bhushan & Mohanty (1988) interpreted the felsic magmatism as terminating in large-scale bimodal volcanism and anorogenic granite emplacement.
c. G4-stage reconnaissance exploration for REE and associated minerals in the Kaluri–Tapra–Buriwara area during FS 2022–23 involved 360 m of drilling through three scout boreholes, along with systematic geological, geochemical, petrological, and EPMA studies. Analytical results recorded maximum TREE and TREE+Y values

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of 633 ppm and 707 ppm in rhyolite/trachy-dacite units of borehole RJBKTB-1, whereas borehole RJBKTB-3 yielded significantly higher concentrations of 2929 ppm TREE and 3344 ppm TREE+Y within rhyolite hosting ferrous veins at 65–90 m depth.

d. Subsequently, reconnaissance surveys for REE and rare metals in rhyolites around Nakoda during FS 2023–24 yielded encouraging geochemical results, wherein 36 out of 151 BRS and channel samples recorded TREE+Y values exceeding 1000 ppm, including 18 samples above 1500 ppm and 5 samples exceeding 2000 ppm.
e. In view of the encouraging REE and associated critical mineral potential, the agency proposed the block for detailed G4-stage exploration comprising large-scale geological mapping (1:12500 scale), gravity and magnetic geophysical surveys, and exploratory drilling with systematic sampling to evaluate concealed mineralisation and facilitate resource estimation under the UNFC G3 category.
f. The proposal was discussed during the 85th TCC-I meeting, wherein the Committee accorded in-principle approval and advised the agency to exclude the area overlapping with GSI's explored block and to present a Detailed Project Report (DPR) in the subsequent TCC meeting after synthesizing all available data. Accordingly, the agency revised the block boundary and submitted the modified proposal.
g. The Committee observed that a major part of the proposed area is covered by aeolian sand with limited outcrops; the agency presented analytical data of 20 samples collected from rock fragments/rolled boulders along stream beds.
h. The Committee suggested extending the block towards the eastern side to include a small unexplored area, which was subsequently incorporated by the agency, and the modified proposal was recommended for approval.
i. The Committee further advised the agency to undertake large-scale geological mapping on 1:12,500 scale with systematic sampling of all outcrops, carry out trenching in soil-covered areas, and plan scout boreholes for subsurface evaluation.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed G4 area is largely soil-covered. Out of 28 collected samples, 20 were analyzed for REE and 23 trace elements, showing TREE values between 174.67 ppm and 1212.84 ppm. The adjoining Nakoda G4 block (GSI) to the north indicates promising REE values in rhyolites, tuffs, and pyroclastic breccia. While continuity of these rocks in the proposed area is uncertain, the area appears suitable for G4 level REE and associated element exploration with limited scout drilling.
2	MECL	NA
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects. However, AMD is carrying out G4/G3 stage of exploration in Buriwara Block. Grab samples of Buriwara block (n=15) analysed av. 0.33% TREO; av. 0.040% Nb2O5 and av. 1.20% ZrO2.
4	State DMG/DGM/CGM	Consent for exploration for this proposal is given for area excluding minor mineral mining lease and NPEA may be advised to get information regarding status of forest from Forest department, Government of Rajasthan and further necessary permissions/clearances be obtained in this regard. (area revised in DPR).
5	NMEDT	There are no NMEDT funded blocks overlapping with the proposed area.

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Recommendations of TCC-1:

The committee recommended the proposal titled "Reconnaissance Survey(G4) For REE& RM mineralization in Variya-Bhakri Kheda Block, Balotra District, Rajasthan" for approval of PSC, NMEDT with an estimated cost of Rs. 149.53 lakhs (including GST) within time schedule of 6 months for carrying out the proposed work and submission of report as per Annexure – 1A & 1B. The project will be reviewed after 2 and 4 months.

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Annexure 1A

Reconnaissance Survey(G4) For REE& RM mineralization in Variya-Bhakri Kheda Block, Balotra District, Rajasthan
Total Area: 20.7 sq.km, Total Drilling: 600 m (5 BHs), 1st borehole-150m, 4 boreholes - 110m each. Total Duration: 6 months, Review after: 2 months & 4 months.

During 1st Review (after 2 months) Agency needs to produce LSM Map alongwith PTS analytical Results

S.No.	Item of Work	SoC Sr. No.	Units	Qty	Cost per unit/ per day/ manday (In Rs.)	Total Amount (In Rs.)	Remarks
1	**Geological Mapping (1:12,500)**						
c.	Large Scale (LSM) Geological Mapping	1.1	Per Sq Km	20.7	₹ 18,300	₹ 378,810	
e.	Geologists (HQ) days (1 No)	1.2.1a	Man days	20	₹ 10,500	₹ 210,000	
f.	Charges of Geologist on field (2 Geo- 2 month)	1.21.a	Man days	50	₹ 14,500	₹ 725,000	Geological Mapping on 1:12,500 Scale, core logging, sampling, supervision of trenching and pitting
g.	Labour Charges (2 Helper for each geologist)	5.8	Mandays	100	₹ 556	₹ 55,600	Amount will be reimbursing as per the notified rates by the Central our Commissioner or respective State Govt. whichever is higher
	Sub Total: - 1					**₹ 1,369,410**	
2	**Survey work**						
c.	Demarcation of borehole points	1.3.2	Per point	5	₹ 24,000	₹ 120,000	5 BHs
	Sub Total: - 3					**₹ 120,000**	
4	**Trenching/Pitting**						
b.	Pitting (3m X2m X 2m)	2.1.2	cu.m	250	₹ 4,725	**₹ 1,181,250**	
	Sub Total:- 4					**₹ 1,181,250**	
5	**Sample Preparation**						

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a.	Sampler charges for Sample processing work	1.2.1b	Mandays	32	₹ 7,850	**₹ 251,200**	
b.	Labour (Field days)	5.7	Mandays	128	₹ 556	**₹ 71,168**	
	Sub Total :- 5					**₹ 322,368**	
6	**Core Drilling (Outsourced)**						
d.	Drilling (HQ Size Core) (5 BH)	2.2.1.1e	Per m	600	₹ 10,000	**₹ 6,000,000**	
b.	Land/Crop Compensation	5.6	Per BH	6	₹ 30,000	**₹ 180,000**	Amount will be reimbursed as per actuals or max. Rs. 30000 per BH
e.	Borehole plugging by cement for HQ size	2.2.8	Per hole	6	₹ 10,000	**₹ 60,000**	
	Drill Core Preservation	5.3	m	200	₹ 1,590	**₹ 318,000**	
	Sub Total :- 6					**₹ 6,558,000**	
7	**Laboratory Study**						
7.1	**Analysis for REEs**						
a.	Bed Rock Samples by XRF for whole rock analysis	4.1.17a	Nos.	10	₹ 4,200	₹ 42,000	Including Surface and subsurface samples
	External Check 10%	4.1.17a	Nos.	1	₹ 4,200	₹ 4,200	
b.	Analysis of One Rock/ Soli Sample for Quantitative Analysis of 14 REE elements + 9 trace elements (U, Ta, Ge, Be, Hf, Sn, As, Rb, Th) By ICP-MS	4.1.15	Per Sample	70	₹ 7,400	₹ 518,000	BR 20 + 50 Pit Samples
	External Check 10%	4.1.15	Per Sample	7	₹ 7,400	₹ 51,800	
7.2	**Drill Core Samples***						
a.	Drill core samples by ICPMS Analysis of One Rock/ Soli Sample for	4.1.15	Nos	150	₹ 7,400	₹ 1,110,000	* subject to change as per mineralization

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	Quantitative Analysis of 14 REE elements + 9 trace elements (U, Ta, Ge, Be, Hf, Sn, As, Rb, Th)						
	External Check 10%	4.1.15	Nos	15	₹ 7,400	₹ 111,000	
c.	Specific Gravity Determination (BH)	4.8.1	Nos	2	₹ 2,500	₹ 5,000	
	Sub Total :- 7					**₹ 1,842,000**	
8	**Petrological studies**						
b.	Preparation of thin polished section	4.3.2	Nos	10	₹ 800	**₹ 8,000**	
c.	Study of thin section for petrography alongwith 5 photomicrographs	4.3.4	Nos	10	₹ 2,800	**₹ 28,000**	
	Sub Total: -8					**₹ 36,000**	
	Total Outsourced Components					**₹ 6,000,000**	
	Tendering Cost	5.9				₹ 120,000	
	Technical Supervision charge	6				**₹ 600,000**	
	Total 1 to 8					**₹ 12,149,028**	
9	**Preparation of Exploration Proposal**	**5.1**				**₹ 242,980.56**	
10	**Geological Report Preparation**	**5.2(ii)**			**Fixed in Gov. Cases**	**₹ 250,000**	
11	**Peer Review charge**	As per EC				**₹ 30,000**	
	GRAND TOTAL					**₹ 12,672,009**	
	Add GST @ 18%				18%	**₹ 2,280,961.54**	

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	Grand Total Including GST						**₹ 14,952,970**	
							Rs 149.53 lakhs	
Note:								
1	**Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.**							
2	**In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.**							
3	**If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execusion of the project by NEA on its own, a Certifiate 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 1A

Time Schedule/ Action Plan for Reconnaissance Survey(G4) For REE& RM mineralization in Variya-Bhakri Kheda Block, Balotra District, Rajasthan

During 1st Review (after 2 months) Agency needs to produce LSM Map alongwith PTS analytical Results

Time Line

Activity	Start Month	End Month	M1	M2	Review	M3	M4	Review	M5	M6
Mobilization & Setup	M1	M1								
LSM Mapping	M1	M2								
Pitting (250 cum)	M1	M2								
Drilling Planing	M1	M2								
2-Month Review	M2	M2								
5 nos. bore hole Drilling	M3	M4								
Analysis for REEs	M3	M4								
Petrological studies	M5	M5								
G-4 level Report Preparation	M6	M6								

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Agenda 95.1.2. Preliminary Exploration (G-3) For REE and Associated Mineralization in Siner-Baliyana Block (3.50 Sq Km), Siwana Ring Complex, District- Balotra, Rajasthan.
(Proposal ID: ME/DD/G3/RJ/MECL/26-27/001)
[Implementing Agency: MECL]

a. The proposed block falls within Survey of India Toposheet No. 45C/06 and comprises plutonic and volcanic rocks of the Neoproterozoic Malani Igneous Suite.
b. The exposed lithologies include basalt and rhyolite flows, pyroclastics, rhyolite porphyry, dolerite dykes, and granites occurring as isolated hillocks, representing volcanic, hypabyssal, and plutonic equivalents of basic to acidic magmatism.
c. Early geological studies by Blanford (1877) and Hacket (1881) documented the Malani volcanic suite, while Murthy et al. (1961) formally defined the Siwana ring structure and Bhushan & Mohanty (1988) interpreted the magmatism as bimodal volcanism associated with anorogenic granites.
d. Specialised Thematic Mapping (STM) carried out during FSP 2013–14 and 2014–15 over 700 sq. km in the Siwana area identified significant REE enrichment in rhyolite, aplite, microgranite, tuffs, and alkali granite. Out of 247 analysed samples, 207 samples recorded Y + ΣREE values ranging from 502 ppm to 0.86%, including 58 samples exceeding 0.2%.
e. Subsequent studies by Das et al. (2015), Barman & Neog (2019), and Kumar & Sharma (2020) reported preferential enrichment of REE and rare metals in alkali granites, microgranites, intrusive dyke systems, rhyolites, and felsites, with ΣREE+Y values ranging from 0.094% to 2.19% in different lithological units.
f. Barman & Neog (2019) carried out Large Scale Mapping (LSM) over 100 sq. km in the Siwana Ring area from Mokalsar in the east to Siner in the west to delineate the REE and rare metal potential of both plutonic and volcanic phases.
g. A total of 200 bedrock samples (BRS) were collected, including 84 samples from plutonic rocks and 116 samples from volcanic rocks. In granites, ΣREE+Y values range from 182.77 ppm to 8611.11 ppm with an average of 2006.95 ppm, whereas volcanic rocks recorded values from 142.3 ppm to 8502.50 ppm with an average of 2008.03 ppm.
h. Integration of geological and geochemical data by GSI delineated three promising zones for detailed investigation under G3 stage. However, the areas between Mawri–Mokalsar and east/west of Kalur Ka Danta have already been explored by GSI under G2 and G3 levels.
i. In view of the encouraging REE and associated critical mineral potential, the agency proposed the block for G3-stage exploration comprising detailed geological mapping on 1:2000 scale, geochemical sampling, and exploratory drilling with systematic sampling for assessment of concealed mineral resources under the UNFC framework.
j. Further validation by the agency through analysis of seven flow samples yielded ΣREE+Y values ranging from 2120.15 ppm to 6171.49 ppm with an average of 3001.71 ppm. The LREE values vary from 1205.21 ppm to 3851.53 ppm, while HREE values range from 235.29 ppm to 819.97 ppm.
k. The Committee reviewed the proposal and observed that the eastern and western parts of the proposed block overlap with regional blocks allotted to private exploration agencies (NPEAs) during the 8th Joint TCC-I & TCC-II meeting for rapid scanning, by Geophysical and drilling components, of soil-covered areas of the Siwana Complex carved out by GSI, in accordance with the decision of the Ministry

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l. After detailed deliberation, the Committee advised the agency to await the outcome of exploration activities in the regional blocks before proceeding further.

m. The Committee further suggested that MECL should utilize the geophysical survey and exploratory drilling data generated from the regional blocks, revise the block accordingly, and resubmit the proposal for consideration.

Sl. No.	Agency	Brief Comments
1	GSI	At present no project is going on in the proposed area. Based on previous exploration work carried out by GSI, the region shows promising values of ∑REE+Y, LREE & HREE and hence the proposed area may be prospective for REE & associated mineral exploration.
2	MECL	NA
3	AMD	Subsurface exploration projects (G3 stage) in Buriwara and Nal blocks are being carried out by AMD in the proposed area.
4	State DMG/DGM/CGM	The consent for exploration has been granted by DMG Rajasthan and MECL may take up the project in the proposed block.
5	NMEDT	No ongoing NMEDT funded block is overlapping with the proposed area, however, one Mining Lease for Minor Mineral is present within the proposed block. However, recently 3 blocks for regional study of Siwana Ring complex have been allocated and the proposed area partly overlap with the allocated blocks

Recommendations of TCC-1:

The Committee kept the proposal on hold as the eastern and western parts of the proposed block overlap with regional blocks allotted to private exploration agencies during the 8th Joint TCC-I & TCC-II meeting for rapid scanning of soil-covered areas of the Siwana Complex.

The Committee advised the agency to await the outcome of the regional blocks, revise the proposal using the available geophysical and drilling data, and resubmit the same.

Agenda 95.1.3. Reconnaissance Survey (G4 Stage) of Graphite in Majhiguda Block, Rayagada District, Odisha.
(Proposal ID: ME/DD/G4/OD/25-26/021)

[Implementing Agency: M/s MMPL Private Limited]

a. The proposed block falls within Survey of India Toposheet No. 65M/7 and comprises quartz-garnet-sillimanite schists and gneisses, quartzites, calc granulites, garnetiferous granite gneiss, and leptynite belonging to the Khondalite Suite and Eastern Ghat Super Group. Graphite mineralisation occurs as disseminations, flakes, pockets, lenses, and veins within khondalites, quartzites, and migmatites.

b. DoMG, Odisha carried out investigation around Majhiguda during FS 1996–97 through large-scale geological mapping (1:25000 scale) over 116 sq. km along with trial excavation and sampling. Graphite occurrences were identified near Alanda,

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Deulabadi, Murkaguda, Ajaygarh, Budaguda, Pipligurha, and Bhitarsaja, with fixed carbon (FC) values ranging from 3.70% to 10.2% at Ajaygarh and Murkakona. An inferred graphite resource of 0.123 million tonnes was estimated.

c. GSI investigations near Bandhamandi during FS 1983–84 and 1984–85 delineated two graphite-bearing blocks with cumulative strike length of 600 m and width ranging from 18–40 m. The graphite showed FC values between 4.56% and 21.38%, averaging 9.51%, with estimated resources of about 91,740 tonnes up to 5 m depth.
d. Further assessment carried out by GSI in Koraput and Phulbani districts during FS 1986–87 and 1988–89 delineated several graphite potential zones with FC values varying from 3% to 10%.
e. In view of the encouraging graphite and associated manganese potential, the agency proposed the block for G4-stage exploration comprising geological mapping on 1:12500 scale, ground geophysical surveys, pitting and trenching (PTS), and exploratory drilling to assess concealed mineral resources under the UNFC framework.
f. The block has been carved out from the legacy report allocated to MMPL during 3rd Joint TCC meeting of NMEDT (Legacy Report CN-155).
g. The agency collected 9 samples from the proposed area, and analytical results indicate fixed carbon (FC) values ranging from 1.36% to 9.38%.
h. The Committee reviewed the proposal and suggested inclusion of manganese in the project title considering the associated mineralisation potential.
i. The Committee advised the agency to undertake large-scale geological mapping along with systematic surface sampling in the proposed block.
j. The Committee further recommended carrying out ground SP geophysical surveys and scout drilling for subsurface evaluation of graphite mineralisation.
k. It was also advised that detailed geophysical investigations may be planned subsequently based on the outcome of surface mapping and sampling results.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed block overlaps a GSI block where preliminary graphite assessment was conducted during FSP 1988–89, with mapping at 1:50000 scale. Currently, no GSI exploration is ongoing in the area. Hence, the block can be taken up for G4 level graphite exploration at 1:12,500 scale.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	The area was previously mapped by DoMG (F.S. 1996–97, CN-155) on a 1:25000 scale, identifying graphite occurrences near Alanda, Deulabadi, Murkaguda, Ajaygarh, Budaguda, Pipligurha East, and Bhitarsaja. Out of nine occurrences, fixed carbon (F.C.) at Ajaygarh and Murkakona ranges from 8.8% to 10.2%, with an estimated graphite resource of 0.123 Mt. A small northern portion of the area is allotted to M/s Vedanta for industrial use.
5	NMEDT	There are no NMEDT funded blocks overlapping with the proposed area.

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Recommendations of TCC-1:

The committee recommended the proposal titled "Reconnaissance survey (G4) for Graphite in Majhiguda Area, Rayagada District, Odisha" for approval of PSC, NMEDT with an estimated cost of Rs. 166.02 lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure – 2A & 2B. The item will be reviewed after 3 and 6 months

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Annexure 2A

Reconnaissance survey (G4) for Graphite in Majhiguda Area, Rayagada District, Odisha

Total area - 127.11 Sq.km; No. of Borehole - 5 ; Meterage - 500 m, Period of completion - 10 months, Review - After 3 and 6 months

SL.No	Item Of Work*	Unit*	Rate As Per NMEDT SOC 2025		Estimated Cost of the Proposal		Remarks
			SOC. Item No	Rate As Per revised SOC* (a)	Qty. (b)	Total Amount (Rs) (a*b)	
A	**Large Scale Geological Mapping and Other Geological Work & Surveying**						
i	Geological mapping (1:12,500), Trenching & Drilling work	Per Sq. km	1.1	₹ 18,300.00	127.11	₹ 2,326,113.00	
ii	Charges for 2 Geologist per day (Field) for Geological mapping & Trenching work, drilling activity (without labour)	day	1.2.1a	₹ 14,500.00	60	₹ 870,000.00	For mapping, core logging, sampling and other geological work
iii	Labours charges; Base rate (for 2 labours per geologists)	day	5.8	₹ 556.00	120	₹ 66,720.00	
iv	Charges for Geologist per day (HQ)	day	1.2.1a	₹ 10,500.00	30	₹ 315,000.00	
		Sub Total- A				**₹ 3,577,833.00**	
B	**Trenching/Pitting**						
i	Trenching	per cu.m	2.1.1	₹ 4,125.00	100	₹ 412,500.00	
ii	Pitting	per cu.m	2.1.2	₹ 4,725.00	100	₹ 472,500.00	
		Sub Total- B				**₹ 885,000.00**	
C	**Survey work**						
i	DGPS Survey for BH fixation & RL determination	Per Point of observation of observation	1.3.2	₹ 24,000.00	5	₹ 120,000.00	5 BH points

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ii	Labours Charges for survey work; Base rate	day	5.8	₹ 541.00	0	₹ 0.00	
	Sub Total- C					**₹ 120,000.00**	
D	**Ground Geophysical Survey (in- house)**						
i	Charge for SP survey	Line km	3.3a	₹ 62,140.00	0	₹ 0.00	5 LKM targetting Eastern, central and western part of the block
ii	Charges for Geophysicist per day (HQ)	day	3.18	₹ 10,500.00	0	₹ 0.00	
	Sub Total- D					**₹ 0.00**	
E	**Drilling (after review) (in-house)**						
i	Scout Drilling (Hard rock) (HQ) in first Level	per m	2.2.1.1d	₹ 10,000.00	500	₹ 5,000,000.00	
ii	Borehole deviation by multi shot camera	per m	2.2.5	₹ 330.00	0	₹ 0.00	Interval 6 m
iii	Land / Crop Compansation (in case the BH falls in agricultural Land)	per borehole	5.6	₹ 30,000.00	5	₹ 150,000.00	
iv	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7	₹ 2,000.00	5	₹ 10,000.00	
v	Miscellaneous charges (Transportation of drilling rigs, accomodation for drilling camp, camp setting and winding construction of approach road making and drill core preservation)	Lumpsum	2.2.9			₹ 1,250,000.00	For drilling cost upto 50 lakhs and leass than 1 Cr, 25% of the drilling cost
vi	Drill core preservation	per m	5.3	₹ 1,590.00	200	₹ 318,000.00	1 complete BH + mineralised zone
vii	Charges for one Sampler per day (1 Party)	one sampler per day	1.2.1b	₹ 7,850.00	51	₹ 400,350.00	

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viii	Charges for Labour	day	5.8	₹ 556.00	204	₹ 113,424.00	
	Sub Total- E					**₹ 7,241,774.00**	
F	**Laboratory Studies**						
1	**Chemical Analysis**						
i)	**Surface Samples+ Trench samples+ BH Core samples**						
a	Proximate analysis for graphite	Nos	4.1.18	₹ 3,614.00	325	₹ 1,174,550.00	BRS: 50, Trench sample: 75, Pit Samples: 50, BH Core sample: 150
b	Proximate analysis for graphite (10% external check)	Nos	4.1.18	₹ 3,614.00	33	₹ 119,262.00	
c	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements+9 Trace elements (U, Ta, Ge, Be, Hf, Sn, As, Rb, Th) by ICP-MS (sequential technique)	Nos	4.1.15	₹ 7,400.00	30	₹ 222,000.00	Including surface and Subsurface samples (BRS/PTS/CS)
d	Analysis of one rock/ soil sample for quantitative analysis of 14 REE elements+9 Trace elements (U, Ta, Ge, Be, Hf, Sn, As, Rb, Th) by ICP-MS (10% external check)	Nos	4.1.15	₹ 7,400.00	3	₹ 22,200.00	
e	Major oxides (WD XRF)-(oxides+traces-24 elements)	Nos	4.1.17a	₹ 4,200.00	20	₹ 84,000.00	
2	**Physical & Petrological Studies**						
i	Preparation of polished thin section of rock	Nos	4.3.2	₹ 800.00	15	₹ 12,000.00	
ii	Complete petrographic/ ore microscopic study/ mineragraphic report of rock	Nos	4.3.4	₹ 2,800.00	15	₹ 42,000.00	

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	sample (along with 5 nos. digital photo micrograph)						
iii	Bulk density analysis	Nos	4.8.3	₹ 2,500.00	2	₹ 5,000.00	
iv	Raman Spectroscopy	per hour	4.5.1	₹ 2,700.00	5	₹ 13,500.00	
	Sub Total- F					**₹ 1,694,512.00**	
G	**Total A to F**					**₹ 13,519,119.00**	
H	**Geological Report Preparation**	**5 Hard copies with soft copy**	**5.2 (ii)**	**total cost of project 50 to 150 lakh**		**₹ 250,000.00**	**Reimbursement will be made after submission of the Final Geological Report in Hard Copies (5 Nos) and the soft copy to NMEDT.**
I	**Peer review Charges**	**As per EC decision**		**₹ 30,000.00**	**1**	**₹ 30,000.00**	
J	**Preparation of Exploration Proposal (5 Hard copies with a soft copy)**	**5 Hard copies with a soft copy**	**5.1**	**2% of the Cost or Rs. 5 Lakhs whichever is lower**		**₹ 270,382.38**	
K	**Total Estimated Cost without GST**					**₹ 14,069,501.38**	
L	**Provision for GST (18% of L)**					**₹ 2,532,510.25**	**GST will be reimbursed as per actual and as per notified prescribed rate**
M	***Total Estimated Cost with GST***					***₹ 16,602,011.63***	
				Rs. In Lakhs		***₹ 166.02***	
Note:							
1	**Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.**						
2	**In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.**						
3	**If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execusion of the project by NEA on its own, a Certifiate regarding non outsourcing of any component/project is required.**						
4	**Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.**						
5	**Any item of work not mentioned above shall be added as per SoC.**						
6	**All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency**						

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Annexure 2B

Time Schedule/ Action Plan for Reconnaissance survey (G4) for Graphite in Majhiguda Area, Rayagada District, Odisha

Item of work	Months										
	1	2	3	Review	4	5	6	Review	7	8	9	10
Camp Setup												
Large Scale Geological Mapping (1:12,500)												
Bed Rock Sampling and trenching												
Chemical analysis of surface samples												
Drilling												
Sampling of drill cores												
Analysis of drill core samples												
Preparation of Geological Model												
Geological report preparation												

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Agenda 95.1.4. Preliminary Exploration (G3) for Wollastonite, Garnet, Zirconium & associated minerals in Kalesera block of Ajmer District, Rajasthan.

[Implementing Agency: M/s. Envirogreen Consultants (India) Private Limited]

a. The proposed block falls within Survey of India Toposheet No. 45J/07 and comprises marble, limestone, mica schist, calc-gneiss, calc-schist, pegmatite, quartzite, epidiorite, amphibolite, pyroxene granulite, gabbro, and hornblende schist of the Sendra Formation belonging to the Kumbhalgarh Group of the Delhi Supergroup of Palaeoproterozoic–Mesoproterozoic age.
b. Reconnaissance Survey (G4 stage) carried out during FS 2017–18 for tungsten and lithium mineralisation in the Kotariya–Pipaliya–Gurha area yielded tungsten values ranging from <0.5 ppm to 5497.21 ppm (average 48.18 ppm) and lithium values from <5 ppm to 1850.75 ppm (average 57.04 ppm) from 250 bedrock samples.
c. GSI also carried out a G4-stage project during FS 2025–26 for copper, wollastonite, and associated mineralisation in the Alipura–Kalesara–Jethana area, Ajmer district, Rajasthan.
d. The presently operating wollastonite mines near the proposed block are mainly associated with marble and limestone lithologies, indicating favourable geological conditions for wollastonite mineralisation.
e. The proposal was earlier discussed during the 85th TCC-I meeting, wherein the Committee advised the agency to undertake field verification, collect and analyse samples, and identify the host rock and mineralised zones before proposing the area for G3-stage exploration. Accordingly, the agency has now proposed the block for G3-stage exploration involving detailed geological mapping (1:4000 scale), collection of BRS/soil/stream sediment samples, and exploratory drilling to assess wollastonite, garnet, zirconium, and associated mineral resources under the UNFC framework.
f. The agency reported a small wollastonite outcrop in the southern part of the proposed area, where wollastonite mineralisation is chiefly associated with the contact between marble and limestone. During field investigations, the agency collected 15 samples, which yielded CaO values of up to 31.91%.
g. The Committee observed that the wollastonite-bearing zone has not been adequately established in the proposed area.
h. It was further noted that a major part of the area is sand covered and the proposal lacks sufficient supporting database and justification.
i. The agency was advised to consult the GSI reports of FS 2024–25 and 2025–26 from adjacent areas and revise the proposal based on the outcome and recommendations thereof.

Sl. No.	Agency	Brief Comments
1	GSI	GSI carried out G-4 stage project titled "Reconnaissance survey for copper, wollastonite and associated mineralization in Alipura-Kalesara-Jethana areas, Ajmer district, Rajasthan." for field season 2025-26. Report is under preparation. This area may be potential for wollastonite and associated mineralization based on the litho-package present in the proposed area.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	NA

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4	State DMG/DGM/CGM	The proposed block area is suitable for Wollastonite & Garnet as per exploration activities by DMGR. Consent for exploration for this proposal is given for the area excluding held mining leases (excluded in DPR proposal).
5	NMEDT	No NMEDT funded block overlaps with the proposed block in NGDR.

Recommendations of TCC-1:

The Committee did not approve the proposal due to insufficient supporting database and justification. The agency was advised to consult the GSI reports of FS 2024–25 and 2025–26 from adjacent areas and revise the proposal based on the outcome and recommendations thereof.

Agenda 95.1.5. Preliminary Exploration (G3 Stage) for Bauxite in Sukhpur Block, Porbandar District, Gujarat.

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

a. The proposed block falls within Survey of India Toposheet Nos. 41G/05 and 41G/09 and comprises laterite/bauxite of the Bhatia Formation associated with miliolite limestone and basalt of the Khambalia Volcanics. The bauxite is considered to have formed through alteration of the Deccan Trap basalts.
b. GSI carried out investigations for bauxite during FS 1972–75 and 1975–76 involving geological mapping aided by aerial photo interpretation, study and analysis of dug-well sections, and test drilling.
c. A total of 112 boreholes were drilled in the Porbandar Taluk of Junagadh district, of which 88 boreholes intersected bauxite, bauxitic clay, and laterite horizons.
d. About 456 core samples and 24 samples from dug wells, outcrops, and quarry sections were analysed. The concealed bauxite was found to be of low grade, with silica ranging from 1.93% to 25.00%, TiO_2 from 0.65% to 3.3%, and Fe_2O_3 from 1.00% to 27.00%.
e. CGM, Gujarat identified several non-overlapping blocks for bauxite and limestone exploration based on earlier investigations and published the details in Gujarat's Mineral Wealth. The agency has also obtained No Objection Certificate (NOC) from CGM, Gujarat for undertaking G4-stage exploration in the proposed block.
f. In view of the earlier investigations, the agency presented the proposed block for G3-stage exploration to assess the bauxite and associated mineral resources. The proposed work programme includes detailed geological mapping on 1:4000 scale, collection of surface samples, geophysical studies, and exploratory drilling for resource assessment under the UNFC G3 category.
g. The agency carried out preliminary field investigations and collected 3 samples from the proposed area for analysis.
h. Analytical results of the collected samples indicate Al_2O_3 values ranging from 16.45% to 25.29%, Fe_2O_3 from 21.71% to 47.98%, TiO_2 from 0.90% to 1.62%, and vanadium values between 370 ppm and 570 ppm.
i. The Committee reviewed the proposal and advised the agency to undertake detailed geological mapping on 1:4,000 scale along with systematic surface sampling in the proposed block.
j. The Committee further suggested planning a few boreholes up to the basement level for proper assessment of the bauxite and aluminous laterite horizon.
k. The agency was advised to modify the project title to "Preliminary Exploration (G3 Stage) for Bauxite and Aluminous Laterite in Sukhpur Block, Porbandar District, Gujarat" and to communicate to CGM-Gujarat that the proposed work pertains to

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G3-stage exploration, although the NoC was granted for G4-stage exploration.

Sl. No.	Agency	Brief Comments
1	GSI	No previous reconnaissance or exploration work has been carried out in the proposed area. There are no ongoing reconnaissance or exploration projects pertaining to Bauxite or any other mineral in the proposed area.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	CGM has granted NOC to the agency for G4 exploration for the said block. However, the agency has submitted a proposal for G3 exploration.
5	NMEDT	The block is slightly overlapping with captive mine of limestone. There are no NMEDT funded blocks overlapping in the proposed area.

Recommendations of TCC-1:

The committee recommended the proposal titled "Preliminary Exploration (G-3) for Aluminous Laterites, Bauxite and associated critical minerals, Sukhpur Block, District: Deva Bhumi Dwarka, State: Gujarat" for approval of PSC, NMEDT with an estimated cost of Rs. 113.34 lakhs (including GST) within time schedule of 8 months for carrying out the proposed work and submission of report as per Annexure – 3A & 3B. The item will be reviewed after 3 and 6 months.

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Annexure 3A

Preliminary Exploration (G-3) for Aluminous Laterites, Bauxite and associated critical minerals, Sukhpur Block, District: Deva Bhumi Dwarka, State: Gujarat

[Block area- 10.70 sq. km; Schedule timeline- 8 months; Review- After 3 and 6 months. Drilling: 560 m; BH-14 Nos Depth 40.00 m]

SL No.	Item of Work	Unit	Rates as per NMET SoC		Estimated Cost of the Proposal		Remarks
			SoC- Item - Sl No.	Rates as per SoC	Qty.	Amount (Rs)	
A	**GEOLOGICAL WORK & TOPOGRAPHICAL SURVEY (1:4000 scale) with contouring**						
i	Geological Mapping	Sq.km	1.1	18300	10.7	195810	
ii	Charges for Geologist- Field	day	1.2.1a	14500	90	1305000	(Including Drilling, Sampling, Core logging)
iii	Charges for two Geologist - HQ	day	1.2.1a	10500	30	315000	
iv	2 labours / Party	day	5.7	556	180	100080	
v	Sampling Party days-1 Samplers Labour charge not included	day	1.2.1b	7850	31	243350	
vi	4 labours/ party (As per rates of Central Labour Commissioner)	day	5.7	556	124	68944	
vii	Survey Party Days for topographical contour survey and borehole points fixation	day	1.3.1	10500	30	315000	
viii	Boundary survey by DGPS	Nos	1.3.2	24000	13	312000	13 Cardinal points
ix	4 labours for surveyor	day	5.7	556	120	66720	
					Sub Total- A	**2921904**	
B	**PITTING**						
i	Pitting(1 x1 x2 m) 15 No. of Pit	Cu m	2.1.2	4725	30	141750	Pit Samples -15
					Sub Total- B	**141750**	
D	**DRILLING (In house)**						
i	Drilling (soft rock)	m	2.2.1.1c	5500	560	3080000	14BHS @40m depth (800m grid)
ii	Land / Crop Compensation	per BH	5.6	30000	14	420000	

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iii	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7	2000	14	28000	
iv	Miscellaneous charges -Transportation of Drill Rig, Accomodation of Drill Camp, Camo setting & winding,Construction of Approach Road	Lumpsum	2.2.9			770000	25% of the Drilling cost if total drilling < 50 lakhs
v	Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes by DGPS	Nos	1.3.2	24000	14	336000	14 BH points
	Preservation of Cores	per m	5.3	1590	200	318000	1 complete BH plus mineralised Zone
					Sub Total- D	**4952000**	
E	**LABORATORY STUDIES**						
1	**Chemical Analysis**						
i	Primary & Check samples forAluminous Laterite-Titanium-Vanadium BRS/Pit/Chip/Channel/Stream/Soil/BH samples)						
	Complete analysis of bauxite samples	Nos	4.1.11	3900	200	780000	BH-140, BRS-45, Pit-15
	Check samples(10%) Complete analysis of bauxite samples	Nos	4.1.11	3900	20	78000	
vi	Quantitative analysis of 14 REE + 9 trace elements …….	Nos	4.1.15	7400	25	185000	
2	**Physical,Petrological, Mineralogical Studies**						
i	Preparation of thin polished section	Nos	4.3.2	800	5	4000	
ii	Complete petrographic study report	Nos	4.3.4	2800	5	14000	
v	X-RD studies for mineral identification	Nos	4.5.1	4,000	5	20000	
vii	Specific Gravity Determination	Nos	4.8.1	1605	5	8025	From BH sample
viii	Combined determination of Trihydrate Alumina(THA-140°C), Monohydrate Alumina (MHA- 240°C) & Reactive Silica	Nos	4.1.19a	7500	5	37500	
					Sub Total- E	**1126525**	
					Total A to E	**9142179**	
F	Geological Report Preparation		5.2	For the projects having		250000	Reimbursement will be made after submission of the final

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				cost exceeding Rs.50 lakhs & < 150 Laks, A minimum of Rs.2.5 lakhs			Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
G	Peer review Charges		As per EC			30000	
H	Preparation of Exploration Proposal	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs.5.0 Lakhs whichever is lower		182844	
I	Total Estimated Cost without GST					**9605023**	
J	Provision for GST (18% of I)					**1728904**	GST will be reimburse as per actual and as per notified prescribed rate
K	Total Estimated Cost with GST					**11333927**	
					or Say Rs. In Lakhs	**113.34**	
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 Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execusion of the project by NEA on its own, a Certifiate regarding non outsourcing of any component/project is required.**						
4	**Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.**						
5	**Any item of work not mentioned above shall be added as per SoC.**						
6	**All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency**						

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Annexure 3B

Time Schedule for Preliminary Exploration (G-3) for Aluminous Laterites, Bauxite and associated critical minerals, Sukhpur Block, District: Deva Bhumi Dwarka, State: Gujarat

Sl. No.	Activities	Units	Months									
			1	2	3	Review	4	5	6	Review	7	8
1	Camp Setting	Months										
2	Geological Mapping & Sampling (Bed Rock /Pit/Grab/ Soil)	Months										
4	Survey Work(1 Party) (Topographic Contouring + BH Survey)	Days										
5	Pitting	Cu.m										
6	Drilling	m.										
7	Geological Work(1 Geologist)	Days										
8	Sampling Work -BRS/Pit/Core Samples	Days										
9	Camp Winding	Months										
10	Laboratory Studies	Months										
11	Geological Work, HQ	Days										
12	Report Writing and Peer Review	Months										

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Agenda 95.1.6. Preliminary Exploration (G3 Stage) for Limestone in Balej limestone Block, Porbandar Districts, Gujarat.

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

a. The proposed block falls within Survey of India Toposheet No. 41G/15 and exposes rocks of the Deccan Trap suite comprising felsite, diorite, rhyolite, trachyte, and pitchstone. Younger miliolitic limestones occur as continuous bands overlying the Tertiary and trap formations, with prominent exposures along the coastal tract.
b. DGM Gujarat carried out detailed investigations during FS 1983–84 for chemical-grade limestone in the Antroli, Madhavpur, and Makhadi areas of Mangrol Taluka, Junagadh district, covering about 26.5 sq. km. A total of 72 limestone samples and 4 sea sand samples were analysed.
c. The investigation established approximately 9.67 million tonnes of limestone resources with average composition of 51.50% CaO and 4.04% SiO_2. Sea sand reserves of about 65.9 lakh tonnes at Antroli and 10.1 lakh tonnes at Madhavpur were also estimated, with average composition of 49.87% CaO and 4.73% SiO_2 indicating cement-grade quality.
d. CGM Gujarat identified several non-overlapping limestone and bauxite blocks based on previous investigations and published the details in Gujarat's Mineral Wealth. CGM Gujarat has also issued No Objection Certificate (NOC) to the agency for undertaking G3-stage exploration in the proposed block.
e. In view of the encouraging limestone potential, the agency presented the proposed block for G3-stage exploration to assess limestone and associated mineral resources. Preliminary field investigations and sample analysis carried out by the agency yielded CaO values ranging from 48.53% to 55.66% and SiO_2 values from 1.75% to 8.29%.
f. The proposed work programme includes detailed geological mapping on 1:4,000 scale, collection of surface samples, and exploratory drilling for assessment of mineral resources under the UNFC G3 category.
g. The Committee reviewed the proposal and advised the agency to exclude the leasehold area, revise the block boundary accordingly, and plan boreholes away from the block boundary in compliance with MEMC norms.
h. The agency subsequently modified the proposal and revised the block boundary as per the recommendations of the Committee.

Sl. No.	Agency	Brief Comments
1	GSI	No previous reconnaissance or exploration work has been carried out in the proposed area. There are no ongoing reconnaissance or exploration projects pertaining to Limestone or any other mineral in the proposed area.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	06 Quarry Lease are present within the proposed block. CGM on issued No Objection Certificate (NoC) to APC Drilling & Construction Private Limited dated 29.01.2026.

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5	NMEDT	There are no NMEDT funded blocks overlapping with the proposed area. The proposed area overlaps with GSI Mission-I project FS 2025–26, the details are unavailable on the NGDR portal. 05 Mining leases for minor/major minerals are present within the block in NGDR portal.

Recommendations of TCC-1:

The committee recommended the proposal titled "Preliminary Exploration (G-3) for Limestone in Balej Block, District: Porbandar, State: Gujarat" for approval of PSC, NMEDT with an estimated cost of Rs. 60.46 lakhs (including GST) within time schedule of 6 months for carrying out the proposed work and submission of report as per Annexure – 4A & 4B. The item will be reviewed after 2 and 4 months.

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Annexure 4A

Preliminary Exploration (G-3) for Limestone in Balej Block, District: Porbandar, State: Gujarat
[Block area- 2.60 sq. km; Schedule timeline-6 months, Review- After 2 and 4 months; BH-7 Nos; Total Drilling- 250 m. Depth: 35 m (approx.)]

SL No.	Item of Work	Unit	Rates as per NMET SoC		Estimated Cost of the Proposal		Remarks
			SoC- Item -Sl No.	Rates as per SoC	Qty.	Amount (Rs)	
A	**GEOLOGICAL WORK & TOPOGRAPHICAL SURVEY (1:4000 scale)**						
i	Detailed Geological Mapping	day	1.1	18300	2.6	47580	
	Charges for one Geologist- Field		1.2.1a	14500	60	870000	
ii	Charges for one Geologist - HQ	day	1.2.1a	10500	30	315000	
iii	2 labours / Party	day	5.8	556	120	66720	
iv	Sampling Party days-1 Samplers Labour charge not included	day	1.2.1b	7850	19	149150	
v	4 labours/ party	day	5.8	556	76	42256	
vi	Survey Party Days for DGPS topographical contour survey, BH fixation and RL determination	day	1.3. 1	10500	20	210000	
vii	Boundary survey by DGPS	Nos	1.3.2	24000	4	96000	
viii	4 labours for surveyor	day	5.8	556	80	44480	
				Sub Total- A		**1841186**	
B	**PITTING**						
i	Pitting(1 x1 x2 m)5 No. of Pit	Cu m	2.1.2	4725	10	47250	
				Sub Total- C		**47250**	
C	**DRILLING (In House)**						
i	Drilling (Soft Rock)	m	2.2.1.1c	5500	250	1375000	7 BHS @35m depth
ii	Land / Crop Compensation	per BH	5.6	30000	7	210000	

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iii	Construction of concrete Pillar (12"x12"x30") (7BH Pillar +4 Boundary Pillar)	per borehole	2.2.7	2000	11	22000	
iv	Miscellaneous charges -Transportation of Drill Rig, Accomodation of Drill Camp, Camo setting & winding,Construction of Approach Road	Lumpsum	2.2.9			343750	25% of the Drilling cost for project total drilling cost < 50 lakhs
v	Drill Core Preservation (One complete borehole plus mineralised cores of all the remaining BHs)	Per m	5.3	1590	150	238500	
vi	Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes by DGPS	Nos	1.3.2	24000	7	168000	7 BHS
					Sub Total- D	**2357250**	
D	**LABORATORY STUDIES**						
1	**Chemical Analysis**						
	Primary & Check samples for Limestone BRS/Pit/Chip/Channel/BH samples)						
	Complete analysis of limestone	Nos	4.1.11	3900	135	526500	BH-120, BRS-10, Pit-5
	b.Check samples(10%) Complete analysis of limestone	Nos	4.1.11	3900	13	50700	
2	**Petrological samples (BH Core Samples)**						
i	Preparation of thin section	Nos	4.3.1	500	5	2500	
ii	Study of Thin Section alongwith 5 photomicrographs	Nos	4.3.4	2800	5	14000	
3	**Mineral Physics Studies**						
viii	Specific Gravity Determination	Nos	4.8.1	2500	3	7500	From BH
					Sub Total- E	**601200**	
					Total A to E	**4846886**	
E	Geological Report Preparation - including charges of typing text,, table etc., degitization of maps/ sectinons etc.,		5.2	Cost per 5 copies of report		150000	Total cost of the project upto 50 lakhs: 1.5 lakhs

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				along with soft copy			
F	Peer review Charges		As per EC			30000	
G	Preparation of Exploration Proposal	5 Hard copies with a soft copy	5.1	2% of the Approved Project Cost or Rs. 5.0 Lakhs whichever is lower		96937.72	
H	Total Estimated Cost without GST					**5123824**	
I	Provision for GST (18% of I)					**922288**	GST will be reimburse as per actual and as per notified prescribed rate
J	Total Estimated Cost with GST					**6046112**	
					or Say Rs. In Lakhs	**60.46**	
Note:							
1	**Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.**						
2	**In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.**						
3	**If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execusion of the project by NEA on its own, a Certifiate 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 4B

Time Schedule for Preliminary Exploration (G-3) for Limestone in Balej Block, District: Porbandar, State: Gujarat

Sl. No.	Activities	Months							
		1	2	Review	3	4	Review	5	6
1	Camp Setting								
2	Geological Mapping & Sampling (Bed Rock /Pit/Grab)								
4	Survey Work(1 Party) (Topography + BH Survey)								
5	Pitting								
6	Drilling								
7	Geological Work(1 Geologist)								
8	Sampling Work -BRS/Pit/Core Samples								
9	Camp Winding								
10	Laboratory Studies								
11	Geological Work/ Report Writing								
12	Peer Review and Report Submission								

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Agenda 95.1.7. Preliminary Exploration (G3 Stage) for Limestone in Mander Block, Porbandar Districts, Gujarat

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

a. The proposed block falls within Survey of India Toposheet No. 41G/15 and exposes rocks of the Deccan Trap suite comprising felsite, diorite, rhyolite, trachyte, and pitchstone.
b. Younger miliolitic limestones occur as continuous bands overlying the Tertiary and trap formations, with prominent exposures observed along the coastal tract.
c. DGM Gujarat carried out detailed investigations during FS 1983–84 in the Antroli, Madhavpur, and Makhadi areas covering about 26.5 sq. km, involving analysis of 72 limestone samples and 4 sea sand samples.
d. The investigation established approximately 9.67 million tonnes of limestone resources with average composition of 51.50% CaO and 4.04% SiO_2, while sea sand reserves at Antroli and Madhavpur were assessed as cement-grade with average CaO of 49.87% and SiO_2 of 4.73%.
e. CGM Gujarat identified several non-overlapping limestone and bauxite blocks based on previous investigations, published the details in Gujarat's Mineral Wealth, and issued No Objection Certificate (NOC) to the agency for undertaking G3-stage exploration in the proposed block.
f. Analytical results of the samples collected by agency indicate CaO values ranging from 42.89% to 50.02% and SiO_2 values from 1.84% to 5.68%.
g. The proposed work programme includes detailed geological mapping on 1:4,000 scale, collection of surface samples, and exploratory drilling for assessment of mineral resources under the UNFC G3 category.
h. The Committee reviewed the proposal and advised the agency to recheck the leasehold areas and exclude any overlapping portion, if present.
i. The Committee further suggested that the depth of boreholes should be decided judiciously based on the continuity and persistence of the limestone bands.

Sl. No.	Agency	Brief Comments
1	GSI	No previous reconnaissance or exploration work has been carried out in the proposed area. There are no ongoing reconnaissance or exploration projects pertaining to Limestone or any other mineral in the proposed area.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	Two Quarry Lease are present within the proposed block. CGM on issued No Objection Certificate (NoC) for Mander Limestone Block (G3) to APC Drilling & Construction Private Limited dated 29.01.2026.
5	NMEDT	There are no NMEDT funded blocks overlapping with the proposed area. The area is explored by CGM, Gujarat at G4 stage for limestone and GSI, WR for bauxite at G4 stage. 02 Mining leases (minor mining) are present within the block.

Recommendations of TCC-1:

The committee recommended the proposal titled "Preliminary Exploration (G3) for Limestone in Mander Block, District: Porbandar, State: Gujarat" for

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approval of PSC, NMEDT with an estimated cost of Rs. 123.06 lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure – 5A & 5B. The item will be reviewed after 3 and 6 months.

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Annexure 5A

Preliminary Exploration (G3) for Limestone in Mander Block, District: Porbandar, State: Gujarat
[Block area- 9.39 sq. km; Schedule timeline- 10 months; BH-16 Nos; Drilling- 560 m; Depth: 35m each, Review- After 3 and 6 months]

SL No.	Item of Work	Unit	Rates as per NMET SoC		Estimated Cost of the Proposal		Remarks
			SoC- Item - Sl No.	Rates as per SoC	Qty.	Amount (Rs)	
A	**GEOLOGICAL WORK & TOPOGRAPHICAL SURVEY (1:4000 scale)**						
i	Detailed Geological Mapping	day	1.1	18300	9.39	171837	
	Charges for one Geologist- Field		1.2.1a	14500	90	1305000	
ii	Charges for one Geologist - HQ	day	1.2.1a	10500	30	315000	
iii	2 labours / Party(As per rates of Central Labour Commissioner)	day	5.8	556	180	100080	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
iv	Sampling Party days-1 Samplers Labour charge not included	day	1.2.1b	7850	52	408200	
v	4 labours/ party (As per rates of Central Labour Commissioner)	day	5.8	556	208	115648	Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher
vi	Survey Party Days for DGPS topographical contour survey, BH fixation and RL determination	day	1.3. 1	10500	30	315000	
vii	Boundary survey by DGPS	Nos	1.3.2	24000	4	96000	
viii	4 labours for surveyor	day	5.8	556	120	66720	
				Sub Total- A		**2893485**	
B	**PITTING**						
i	Pitting(1 x1 x2 m)10 No. of Pit	Cu m	2.1.2	4725	20	94500	

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					Sub Total- C	**94500**	
C	**DRILLING (In House)**						
i	Drilling (Soft Rock)	m	2.2.1.1c	5500	560	3080000	16 BHS @35 m depth
ii	Land / Crop Compensation	per BH	5.6	30000	16	480000	
iii	Construction of concrete Pillar (12"x12"x30") (16 BH Pillar +4 Boundary Pillar)	per borehole	2.2.7	2000	16	32000	
iv	Miscellaneous charges -Transportation of Drill Rig, Accomodation of Drill Camp, Camo setting & winding,Construction of Approach Road	Lumpsum	2.2.9			770000	Drilling cost < 50 lakhs -25% of the drilling cost
	Drill Core Preservation (One complete borehole plus mineralised cores of all the remaining BHs)	per m	5.3	1590	350	556500	
v	Bore Hole Fixation and determination of co- ordinates & Reduced Level of the boreholes by DGPS	Nos	1.3.2	24000	16	384000	16 Boreholes
					Sub Total- D	**5302500**	
D	**LABORATORY STUDIES**						
1	**Chemical Analysis**						
	Primary & Check samples for Limestone BRS/Pit/Chip/Channel/BH samples)						
	Complete analysis of Limestone	Nos	4.1.11	3900	380	1482000	Core Samples-350 , BRS-20, Pit-10
	b.Check samples(10%) Complete analysis of Limestone	Nos	4.1.11	3900	38	148200	
2	**Petrological samples (BH Core Samples)**						
i	Preparation of thin section	Nos	4.3.1	500	5	2500	
ii	Study of Thin Section alongwith 5 photomicrographs	Nos	4.3.4	2800	5	14000	
3	**Mineral Physics Studies**						
viii	Specific Gravity Determination	Nos	4.8.1	2500	5	12500	From BH

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					Sub Total- E	**1659200**	
					Total A to E	**9949685**	
E	Geological Report Preparation - including charges of typing text,, table etc., degitization of maps/ sectinons etc.,		5.2	Cost per 5 copies of report along with soft copy		250000	Total cost of the project exceeding 50 lakhs but < 150 lakhs-2.5 laks is taken
F	Peer review Charges		As per EC			30000	
G	Preparation of Exploration Proposal	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is lower		198993.7	
H	Total Estimated Cost without GST					**10428679**	
I	Provision for GST (18% of I)					**1877162**	GST will be reimburse as per actual and as per notified prescribed rate
J	Total Estimated Cost with GST					**12305841**	
					or Say Rs. In Lakhs	**123.06**	
Note:							
1	**Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.**						
2	**In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.**						
3	**If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execusion of the project by NEA on its own, a Certifiate 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 5A

Time Schedule for Preliminary Exploration (G3) for Limestone in Mander Block, District: Porbandar, State: Gujarat

Sl. No.	Activities	Months											
		1	2	3	Review	4	5	6	Review	7	8	9	10
1	Camp Setting	■											
2	Geological Mapping & Sampling (Bed Rock /Pit/Grab)	■	■										
4	Survey Work(1 Party) (Topography + BH Survey)						■						
5	Pitting	■	■										
6	Drilling					■	■						
7	Geological Work(1 Geologist)	■	■			■	■						
8	Sampling Work -BRS/Pit/Core Samples		■			■	■	■					
9	Camp Winding							■					
10	Laboratory Studies	■	■	■		■	■	■		■	■		
11	Geological Report Writing											■	■
12	Peer Review and Report Submission												■

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Agenda 95.1.8. Preliminary Exploration (G3) for Manganese and Associated Minerals in Pathrapeth-Koylari-Dulhapur Block, Dist: Balaghat & Seoni, Madhya Pradesh

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

a. The proposed block falls within Survey of India Toposheet No. 55O/10 and comprises litho-units of the Sausar Group, including quartz–muscovite schist/gneiss, marble, calc-silicate granulite/calc-gneiss, and phyllite, with muscovite schist/gneiss associated with manganese-bearing horizons.
b. Systematic geological mapping of the Sausar Group in Central India has been carried out by earlier workers including Fermor (1909), West (1936), and Narayanswami et al. (1963), while Gorle et al. (2013–14) undertook geophysical mapping in parts of Balaghat, Seoni, Nagpur, and Bhandara districts covering Toposheet Nos. 55O/9, 10, 11, 13, and 14.
c. During FS 2023–24, reconnaissance surveys for manganese were carried out in the Piparwani, Agri, and Koylari areas of Seoni and Balaghat districts, Madhya Pradesh, where major manganese deposits are associated with Mn-rich metamorphosed sediments of the Sausar Group.
d. GSI delineated three prospective manganese-bearing zones, namely Dulhapur, Pathrapet, and Koylari. Mn mineralisation occurs as discontinuous pockets and lenses with MnO values ranging from 19.32% to 32.33% in Dulhapur, 10.14% to 42.96% in Pathrapet, and 9% to 44.23% in Koylari.
e. The identified manganese-bearing zones are largely soil covered with sparse isolated outcrops, and the mineralisation exhibits pocket-type morphology with pinch-and-swell characteristics along both strike and dip directions.
f. In view of the encouraging manganese potential, the agency presented the proposed block for G3-stage exploration to assess manganese mineral resources in the area.
g. The proposed work programme includes detailed geological mapping on 1:2,000 scale, collection of surface samples, pitting and trenching (PTS), and exploratory drilling for assessment of mineral resources under the UNFC G3 category.
h. The proposal was earlier reviewed during the 91st TCC-I meeting, wherein the Committee observed that about 18 sq. km of the south-western part overlaps with an NMEDT-approved block and that several manganese mining leases exist in the northern part of the area.
i. The Committee advised the agency to verify the reserved areas of MOIL and ensure exclusion of all overlapping and leasehold areas while finalising the proposal.
j. Accordingly, the agency revised the block boundary by excluding the overlapping and leasehold areas, and MOIL subsequently confirmed that the revised proposal does not overlap with the mining leases held by MOIL in Balaghat district.
k. The Committee reviewed the revised proposal and advised the agency to undertake detailed geological mapping, geophysical surveys, and systematic surface sampling including trenching.
l. The Committee further suggested delineating the continuity and extension of individual manganese bodies through integrated exploration studies.
m. It was recommended that first-level boreholes be planned for 30 m vertical intersections, followed by a few second-level boreholes at 60 m vertical intersections for subsurface evaluation of the mineralised zones.

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Sl. No.	Agency	Brief Comments
1	GSI	Based on the past baseline/exploration data, the manganese-bearing mineral phases identified in the study area include spessartine, braunite, hausmannite, bixbyite, jacobsite, psilomelane, and pyrolusite. Since the both the adjacent blocks, exhibits the encouraging values for MnO the area may be feasible for taking up Manganese and associated minerals.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	NA
4	State DMG/DGM/CGM	NA
5	NMEDT	Part of proposed block is falling in Recorded Forest Area. No NMEDT funded block overlaps with the proposed block in NGDR.

Recommendations of TCC-1:

The committee recommended the proposal titled "Preliminary Exploration (G-3) for Manganese and associated minerals in Dulhapur Block, Districts: Balaghat & Seoni State: Madhya Pradesh" for approval of PSC, NMEDT with an estimated cost of Rs. 176.14 lakhs (including GST) within time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure – 6A & 6B. The item will be reviewed after 3 and 6months.

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Annexure 6A

Preliminary Exploration (G-3) for Manganese and associated minerals in Dulhapur Block, Districts: Balaghat & Seoni State: Madhya Pradesh

[Block area- 3.00 sq. km; Schedule timeline- 10 months; BH-12 Nos; 10 BH: 1st Level; 2 BH: 2nd level. BH depth (1st level): 50m & (2nd level): 100 m, Total Drilling meterage- 700 m; Review- After 3 & 6 months]

SL No.	Item of Work	Unit	Rates as per NMET SoC		Estimated Cost of the Proposal		Remarks
			SoC- Item -Sl No.	Rates as per SoC	Qty.	Amount (Rs)	Drilling plan will be finalised after review of DM and Trenching
A	**GEOLOGICAL WORK & TOPOGRAPHICAL SURVEY (1:2000 scale)**						
i	Detailed Geological Mapping	day	1.1	18300	3.00	54900	
	Charges for one Geologist- Field	day	1.2.1a	14500	100	1450000	Including Mapping, Core logging and sampling
ii	Charges for one Geologist - HQ	day	1.2.1a	10500	30	315000	
iii	2 labours / Party	day	5.8	556	200	111200	
iv	Sampling Party days-1 Samplers Labour charge not included	day	1.2.1b	7850	32	251200	
v	4 labours/ party	day	5.8	556	128	71168	
vi	Survey Party Days for DGPS topographical contour survey, BH fixation and RL determination	day	1.3. 1	10500	30	315000	
vii	Boundary survey by DGPS	Nos	1.3.2	24000	4	96000	4 Cardinal Points
viii	4 labours for surveyor	day	5.8	556	120	66720	
					Sub Total- A	**2731188**	
B	**Surface Geophysical Survey**						
i	ERT(Electrical Resistivity tomography) 100 m Line spacing	L.km	3.6a	58880	10	588800	
iii	**Geophysicist HQ**	days	3.18	10500	10	105000	
					Sub Total- B	**693800**	

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C	**Trenching (1 x5x2 m) 10- Nos.**						
i	Trenching (1 x5x2 m) 10- Nos.	Cu m	2.1.2	4125	100	412500	
					Sub Total- C	**412500**	
D	**DRILLING (In House)**						
i	Drilling (Hard Rock)	m	2.2.1.1d	10000	700	7000000	BH-12 Nos; 10 BH: 1st Level; 2 BH: 2nd level. BH (1st level;30 m): 50m depth & (2nd level; 60m): 100 m depth, Total Drilling meterage- 700 m)
ii	Land / Crop Compensation	per BH	5.6	30000	12	360000	
iii	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7	2000	16	32000	(12 BH Pillar +4 Boundary Pillar)
iv	Miscellaneous charges - Transportation of Drill Rig, Accomodation of Drill Camp, Camo setting & winding,Construction of Approach Road and	Lumpsum	2.2.9	-	-	1400000	if Drilling cost >50 lakhs & < 1 Cr, 20% of the Drilling cost with Maximum of 15.0 Lakhs
v	Drill Core Preservation (One complete borehole plus mineralised cores of all the remaining BHs)	Per meter	5.3	1590	200	318000	1 complete BH + mineralised zone
vi	Bore Hole Fixation and determination of co- ordinates & Reduced Level of the boreholes by DGPS _ Bounday Pillars	Nos	1.3.2	24000	12	288000	12 BH
					Sub Total- D	**9398000**	
E	**LABORATORY STUDIES**						
1	**Chemical Analysis**						
	Primary & Check samples for Manganese BRS/Pit/Chip/Channel/BH samples)						

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	Complete analysis of Manganese	Nos	4.1.11	3900	225	877500	BH-150; BRS-25, Trench-50
	Check samples(10%) Complete analysis of Manganese	Nos	4.1.11	3900	23	87750	
	d.ICP-AES/ICPMS (sequential technique)	Nos	4.1.15	7400	10	74000	Per BH 2 samples
2	**Petrological samples (BH Core Samples)**						
i	Preparation of thin section	Nos	4.3.1	500	10	5000	
ii	Study of Thin Section plus photo micrographs	Nos	4.3.4	2800	10	28000	
3	**Mineral Physics Studies**						
	XRD Analyses for identification of minerals (Random)		4.5.2	4000	10	40000	
	Bulk Density		4.8.3	2500	5	12500	
					Sub Total- E	**1124750**	
					Total A to E	**14360238**	
E	Geological Report Preparation - including charges of typing text,, table etc., degitization of maps/ sectinons etc.,		5.2	Cost per 5 copies of report along with soft copy		250000	Total cost of the project exceeding 150 lakhs 7.5 lakhs is considser4ed
F	Peer review Charges		As per EC			30000	
G	Preparation of Exploration Proposal	5 Hard copies with a soft copy	5.1	2% of the Cost or Rs. 5.0 Lakhs whichever is lower		287205	
H	Total Estimated Cost without GST					**14927443**	
I	Provision for GST (18% of I)					**2686940**	GST will be reimburse as per actual and as

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			per notified prescribed rate
J	Total Estimated Cost with GST	**17614382**	
	or Say Rs. In Lakhs	**176.14**	
Note:			
1	**Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.**		
2	**In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.**		
3	**If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execusion of the project by NEA on its own, a Certifiate regarding non outsourcing of any component/project is required.**		
4	**Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.**		
5	**Any item of work not mentioned above shall be added as per SoC.**		
6	**All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency**		

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Annexure 6B

Time Schedule for Preliminary Exploration (G-3) for Manganese and associated minerals in Dulhapur Block, Districts: Balaghat & Seoni State: Madhya Pradesh

Sl. No.	Activities	Months											
		1	2	3	Review	4	5	6	Review	7	8	9	10
1	Camp Setting	■											
2	Geological Mapping & Sampling (Bed Rock /Pit/Grab)	■	■										
3	Survey Work(1 Party) (TopographIc Contouring + BH Survey)						■						
4	Surface Geophysical Survey	■	■										
5	Trenching	■	■										
6	Drilling					■	■	■					
7	Geological Work(1 Geologist)	■	■			■	■	■		■			
8	Sampling Work -BRS/PTS/Core Samples	■	■			■	■	■		■			
9	Camp Winding												
10	Laboratory Studies	■	■	■		■	■	■		■	■		
11	Geological Work/ Report Writing											■	■
12	Peer Review and Report Submission												■

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Agenda 95.2: Project Evaluation for In–Principle Approval

Agenda 95.2.1. Reconnaissance Survey (G4) For Graphite and associated Minerals in Teleimal-Betjharan Area, Sambalpur District, Odisha. (Proposal ID: ME/IN/G4/OD/P/26-27/006)

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

a. The proposed block falls within parts of Survey of India Toposheet Nos. 73C/07 and 73C/08 and comprises rocks of the Khondalite Group of the Eastern Ghats Mobile Belt (EGMB), including quartz–feldspar–garnet–sillimanite schists/gneisses, quartz–garnet–sillimanite–mica schists, opx-cordierite gneiss, and sillimanite schist.
b. Graphite mineralisation is restricted to the khondalite suite and its migmatised equivalents, where graphite occurs as crystalline and flaky disseminations, particularly within garnet–quartz–sillimanite–graphite schists.
c. Systematic Geological Mapping carried out by Joshi and Chattopadhyay (1976) in the Kisinda–Rampur area documented graphite mineralisation near Chatuni village, where coarse flaky graphite with metallic lustre was observed, especially along pegmatite contacts.
d. Specialised Thematic Mapping (STM) carried out during FS 2016–17 and 2017–18 reported significant graphite mineralisation associated with khondalite near Panimara and Gorhadian in the Kholgarh Reserve Forest. Samples from Gorhadian recorded total carbon up to 0.50%, including 0.46% total organic carbon.
e. Preliminary assessment of NGCM data from Toposheet Nos. 73C/07 and 73C/08 indicates anomalous concentrations of Ti, V, and REE in stream sediments. TiO_2 values range up to 10.93%, vanadium up to 573 ppm, and total REE up to 10,112 ppm, indicating significant potential for associated critical mineralisation.
f. In view of the encouraging graphite and associated critical mineral potential, the agency presented the proposed block for G4-stage exploration to delineate potential zones of graphite mineralisation and associated critical minerals.
g. The proposed work programme includes large-scale geological mapping on 1:12,500 scale, ground geophysical surveys (gravity and magnetic), and exploratory drilling with sampling for assessment of concealed mineral resources under the UNFC G4 category.
h. The Committee reviewed the proposal and observed that part of the proposed area falls within an Eco-Sensitive Zone (ESZ).
i. The agency was advised to coordinate with the State Government and Forest Department to obtain details of the ESZ and its buffer zone.
j. The Committee further advised the agency to revise the proposal by excluding the ESZ and buffer zone while considering the geological potentiality for graphite and associated minerals, and to resubmit the revised proposal in the forthcoming TCC-I meeting for review.

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Sl. No.	Agency	Brief Comments
1	GSI	The proposed block is slightly overlapping with RMT block of GSI. On the basis of existing work, as there is indication of occurrence of graphite, hence the block can be taken up for G4 level graphite exploration.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	The proposed area has been partly covered by DoMG in FS: 1985-86 and mapped in 1:25,000 scale. The proposed block was examined over the Group Plan and it is observed that there is no overlapping area found with any CL/ML block.
5	NMEDT	NE corner of proposed area falls in ESZ and the area falls in recorded forest areaas per PM Gatishakti portal. No NMEDT funded block is present in and around proposed area in NGDR Portal.

Recommendations of TCC-1:

The Committee did not recommend the proposal as part of the proposed area falls within the Eco-Sensitive Zone (ESZ). The agency was advised to communicate with the State Government and Forest Department to obtain details of the ESZ, including the buffer zone, before revising and resubmitting the proposal.

Agenda 95.2.2. Reconnaissance Survey (G4) for REE and associated minerals in and around Kosala village, Angul District, Odisha (Proposal ID: ME/IN/G4/OD/P/25-26/046)

[Implementing Agency: Eartnenviro Lab Private Limited]

a. The proposed block falls within Survey of India Toposheet No. 73C/16 and comprises ferruginous sandstones of the Kamthi, Barren Measures, and Barakar Formations of the Talcher Coalfield within the Gondwana Basin.
b. During the NGCM programme of GSI, 32 stream sediment samples were collected from the proposed block, of which 30 samples recorded ΣREE values exceeding 1000 ppm. Notably, 7 samples yielded values above 5000 ppm, indicating strong REE enrichment.
c. Reconnaissance Survey (G4 stage) for REE mineralisation in the Debinagar East area during FS 2023–24 delineated multiple anomalous REE zones with high values in stream sediments and soil regolith. Stream sediment samples recorded ΣREE values up to 3048.05 ppm along with elevated zirconium and thorium concentrations.
d. Monazite (LREE-rich) and zircon (HREE-rich) were identified as the dominant REE-bearing mineral phases. REE concentration is highest in stream sediments,

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moderate in soil/regolith, and lowest in bedrock, indicating secondary alluvial placer-type enrichment. High ΣREE zones are mainly associated with the Barren Measures Formation.

e. Further reconnaissance studies delineated two anomalous REE-rich zones suitable for G3-stage exploration, with scope for extending REE targeting across the Talcher Coalfield. Very high ΣREE values up to 17,658.07 ppm were recorded in heavy stream sediments, while regolith samples yielded values up to 2538.34 ppm, including a Barakar Formation sample containing 5679.52 ppm ΣREE.
f. In view of the encouraging REE and associated critical mineral potential, the agency presented the proposed block for G4-stage exploration comprising detailed geological mapping (1:2000 scale), geochemical sampling, and exploratory drilling with sampling for assessment of concealed mineral resources under the UNFC framework.
g. Based on earlier exploration carried out by GSI, the agency collected 7 samples from the mineralised horizons/flows for analytical studies.
h. The analysed samples recorded ΣREE+Y values ranging from 2120.15 ppm to 6171.49 ppm with an average of 3001.71 ppm, while LREE values vary from 1205.21 ppm to 3851.53 ppm and HREE values from 235.29 ppm to 819.97 ppm.
i. The Committee reviewed the proposal and observed that the proposed area overlaps with several G4/G3 stage exploration blocks for coal and REE explored by GSI, as well as existing coal mining lease areas.
j. The Committee advised the agency to consult the available GSI reports and study the REE-bearing mineral phases and their economic significance in the area.
k. The agency was further advised to exclude the overlapping explored areas and mining leases, and thereafter revise and resubmit the proposal.

Sl. No.	Agency	Brief Comments
1	GSI	The proposed block partially overlaps with a GSI G4 REE exploration block (FSP 2023–24) and several G3/G4 coal exploration blocks. It also overlaps with existing mining leases, including Naini (SCCL), Baitarani West (OMC Ltd), and Mandakini B (NTPC Ltd). Hence, the block boundary should be revised to exclude these lease areas and the GSI REE block.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	The proposed block has no overlapping with the AMD's ongoing or completed projects.
4	State DMG/DGM/CGM	The area forms a part the Talcher Coal Field. The proposed area has been covered by DoMG during F.S 1962-63. On examination over the Group plan, it is overlapping with Naini Coal Block of M/s Singareni, Mandakini-B of M/s NTPC & Baitarini West of OMC. The proposed area is also explored by GSI in Field Seasons-2023-24, 2024-25 & 2025-26.

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5	NMEDT	Proposed block is overlapping with the GSI projects of FS 2022-23 (RMT) and 2024-25 (M2). RFA is present in the proposed block. Proposed block is not overlapping with any NMEDT funded projects as per NGDR Portal information.

Recommendations of TCC-1:

The Committee did not recommend the proposal as the proposed area overlaps with several G4/G3 stage exploration blocks for coal and REE explored by GSI, as well as existing coal mining lease areas.

The Committee advised the agency to consult the relevant GSI reports, understand the REE-bearing mineral phases and their economic significance, exclude the overlapping explored and leasehold areas, and thereafter revisit the proposal.

Agenda 95.2.3. Reconnaissance survey (Ga) for REE and other associated RM mineralization within Chhotanagpur Granite Gneissic Complex in and around Bairdih Kalan, Karamdih, Idaripath, Magaji, Bairdih Khurd, Laxmanpur, Bentpani, Champanagar, Tatijhariya etc. areas of Balrampur District of Chhattishgarh.

[Implementing Agency: IMPCON]

a. The proposed block falls within Survey of India Toposheet No. 64M/15 and is situated within the geological domain of the Chhotanagpur Granite Gneissic Complex (CGGC), overlain by Cenozoic laterite cover.
b. GSI carried out Geochemical Mapping during FS 2015–16 in the Bilaspur–Raigarh–Surguja Metamorphic Belt covering parts of Toposheet Nos. 64N/05, 64M/15, and 64N/06, wherein elevated concentrations of REE, zirconium, and hafnium were reported over granitic terrain in parts of Toposheet No. 64M/15, indicating potential for REE mineralisation.
c. Several G4-stage investigations for vanadium under similar geological settings were previously undertaken in adjacent Toposheet Nos. 73A/01, 73A/05, 73A/07, and 73A/13, which established vanadium mineralisation associated with lateritic and regolith horizons.
d. GSI investigations during FS 2013–15 in the Garha–Hanrup–Kaprapat–Risahattoli–Kurhetola Block, Gumla district, Jharkhand, identified significant concentrations of TiO_2 (up to 21.36%), V_2O_5 (up to 0.49%), and gallium (up to 113 ppm) in core samples, along with appreciable values in bedrock samples.
e. A G3-stage exploration carried out during FS 2021–22 in the Karma Block, Palamu district, Jharkhand, delineated vanadium-bearing ore lodes within graphitic gneiss. Estimated vanadium resources are about 5.84 million tonnes at an average grade of 781 ppm (0.14% V_2O_5) by cross-section method and 5.05 million tonnes at 786 ppm (0.14% V_2O_5) by LV panel method.
f. In view of the encouraging indications of REE and associated rare metal mineralisation, the agency presented the proposed block for G4-stage exploration to assess the REE and associated RM potential of the area.
g. The proposed work programme includes geological mapping on 1:12500 scale, geochemical sampling, pitting and trenching (PTS), and exploratory drilling to assess concealed mineral resources under the UNFC G4 category.

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h. The Committee reviewed the proposal and observed that a tiger corridor falls within the proposed area; moreover, the existing database was found to be insufficiently encouraging for taking up the proposed exploration.
i. The agency was advised to revisit the proposal by excluding the tiger corridor and its buffer zone, undertake field visits and sample collection to identify a more prospective area, and thereafter submit a revised proposal for review.

Sl. No.	Agency	Brief Comments
1	GSI	No overlap is found with the GSI FSP exploration projects.
2	MECL	The proposed block is not overlapping with any of the ongoing/completed blocks of MECL.
3	AMD	There is no ongoing exploration / reconnaissance project. However, in view of known potentiality for uranium in the area, uranium may also be included in the list of elements to be analysed. Further, intimation regarding drilling of the boreholes, if any, during the exploration may be communicated to AMD for gamma ray logging.
4	State DMG/DGM/CGM	NA
5	NMEDT	Buffer zone of the proposed block is overlapping with the Leasehold area of M/s HINDALCO INDUSTRIES LTD. RFA and Tiger Corridor is present in the proposed area as per PM Gati Shakti portal. Proposed block is not overlapping with any NMEDT funded projects as per NGDR Portal.

Recommendations of TCC-1:

The committe did not recommend the proposal as *the proposed area falls in Tiger Corridor. Moreover, the existing database is also not encouraging. The agency has been advised revisit the proposal, exclude the tiger corridor and buffer zone, visit field, collect samples, identify a potential area and submit project proposal for review.*

95.3: Review of Ongoing Exploration Project & Timeline Extension

Agenda 95.3.1. Preliminary exploration (G3) for rare earth elements and associated mineralization in North of Kuship Block, Balotra District, Rajasthan.

[Implementing Agency: M/s Ocean Drilling and Exploration Private Limited]

a. The agency informed that the project was approved in the 5th PSC Meeting held on 9th February, 2026. The Sanction Order was issued on 6th March, 2026 with timeline of 12 months (up to 5.02.2027) and approved cost was Rs. 6,82,36,468/.
b. The agency informed the committee that while approval of project component of analysis of Trench samples are there but erroneously trenching component was not approved.
c. The commitee reviewed the cost sheet and modified it.

Recommendations of TCC-1:

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The project is recommended to PSC, NMEDT for revision of cost from Rs. 682.36 lakh to Rs. 684.80 lakh with a change in amount of Rs. 2.44 lakh (~0.35 % escalation) as per Annexure 7.

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Annexure 7

Revised Cost For Preliminary exploration (G3) for rare earth elements and associated mineralization in North of Kuship Block, Balotra District, Rajasthan
Area: 2.3 sq.km, Scale 1:2,000
(Schedule timeline: 12 months Review: After 06 Months)

S. No.	Item of Work *	Unit *	Rates as per NMEDT SoC 2025-26		Estimated Cost of the Proposal	Total Amount(Rs)as per SoC 2025-26	Revised Cost of the Proposal	Total Amount(Rs)as per SoC 2025-26	Remarks
			SoC-Item No.*	Rates as per SoC*	Qty. (b)		Qty. (b)		
A	**Geological Mapping, Other Geological Work & Surveying**								
	a.Geological Mapping(DM)(1:2000 scale)with Countouring	Per sq.km.	1.1	18300	2.3	42,090	2.3	42,090	
1	b. Charges for Geologist per day (Field) Geological mapping (1:2,000 scale)	day	1.2.1a.b	14,500	180	2,610,000	180	2,610,000	
	c. Labours Charges; Base rate	day	5.8	541	360	194,760	360	194,760	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
3	a. Charges for Geologist per day (HQ)	day	1.2.1a.a	10,500	60	630,000	60	630,000	
4	a. Charges for one Sampler per day (1 Party)	one sampler per day	1.2.1b	7,850	146	1,146,100	146	1,146,100	
	b. Labours (4 Nos)	day	5.8	541	584	315,944	584	315,944	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or

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									respective State Govt. whichever is higher.
	Sub Total- A					**4,938,894**		**4,938,894**	
B	**Survey work**								
1	DGPS Survey for BH fixation & RL determination along with the demarcation of block boundary	Per Point of observation	1.3.2	24,000	35	840000	35	840000	
2	a. Charges of Surveyor (1 party) for Detail mapping and contouring by total station (outsource)	one surveyor per day	1.3.1	10,500	45	472500	45	472500	
	b. Labour Charges for survey work (4 Nos)	day	5.8	541	180	97380	180	97380	Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher.
	Sub-Total B					**1,409,880**		**1,409,880**	
C	**DRILLING (In-house)**								
1	Drilling up to 300m (Hard Rock), HQ	m	2.2.1.1d	10000	3650	36,500,000	3650	36,500,000	In the initial phase 4 BH will be drilled one on each grid line.The Subsequent drilling will be after the review of results
2	Land / Crop Compansation (in case the BH falls in agricultural Land)	per BH	5.6	30,000	31	930,000	31	930,000	As per actuals

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3	Construction of concrete Pillar (12"x12"x30")	per borehole	2.2.7	2000	31	62,000	31	62,000	
4	Borehole plugging by cement	BH	2.2.8	10000	31	310000	31	310000	
5	Transportation of Drill Rig & Truck associated per drill (3 rigs) (36*3=108)	Miscellaneous charges (Transportation of Drilling Rig,Accommodation for drill Camp,Camp setting and winding,construction of Approach road and drill core preservation).	2.2.9(4)	For Drilling cost more than 2 crore:10% of the Drilling Cost with a maximum ceiling of INR 25 Lakh.		2,500,000		2,500,000	Core Preservation of 1000 m to be done
6	Monthly Accommodation Charges for drilling Camp (For 2 Rigs 50000+ ((50000 X 50%) X 1) = 75,000								
7	Drilling Camp Setting Cost								
8	Drilling Camp Winding up Cost								
9	Road Making (Rugged-hilly Terrain)								
10	Drill Core Preservation								
	Sub Total C					**40,302,000**		**40,302,000**	
D	**Borehole Geophysical Logging**								
1	Borehole Geophysical Logging (5 bh of 350m each)	(5 bh of 350m each)	3.12	1088941	1	1,088,941	1	1,088,941	
	Sub Total D					**1,088,941**	**1,088,941**	**1,088,941**	
E	**LABORATORY STUDIES**								
1	**Chemical Analysis**								
	Primary samples								
i)	a. Analysis of one rock sample for determination of package by 34 elements by ICP-MS	Nos	4.1.16f	7,400	1,000	7,400,000	1,000	7,400,000	The quantum of sampling will be determined after the results of initial 4 BHs (100 BRS, 50 Trench)

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	b. Check samples Internal (10%)	Nos	4.1.16f	7,400	100	740,000	100	740,000	
2	**Petro Chemical Samples (Whole rock analysis)**								
i)	Major oxides by XRF	Nos	4.1.17a	4,200	30	126,000	30	126,000	
	b. Check samples Internal (10%)	Nos	4.1.17a	4,200	3	12,600	3	12,600	
iii)	Analysis of one rock sample for determination of a package by 34 elements/radicals by ICP-MS	Nos	4.1.15	7,400	30	222,000	30	222,000	
	b. Check samples Internal (10%)	Nos	4.1.15	7,400	3	22,200	3	22,200	
3	XRD analysis for identification of minerals (Random)	Nos	4.5.2	4,000	10	40,000	10	40,000	
4	**Physical & Petrological Studies**							0	
i	Preparation of thin section	Nos	4.3.2	800	25	20,000	25	20,000	
ii	Study of thin section	Nos	NA	NA	25	NA	25	NA	
iii)	Digital photomicrograph of thin polished section	Nos.	NA	NA	50	NA	50	NA	
iv)	Complete petrographic/ore microscopic study/mineralgraphic report of rock sample(along with 5 nos. digital photo micrographs)	per Sample	4.3.4	2800	25	70000	25	70000	
v)	Bulk Density	Nos	4.8.3	2500	20	50,000	20	50,000	

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vi)	EPMA	per hour	4.4.1	10,500	10	105,000	10	105,000	
	Sub Total E					**8,807,800**		**8,807,800**	
F	**Trenching**								
	Excavation of Trenches upto 2.0 m depth with back filling	**per cu m**	2.1.1	4125			50	206,250	
G	**Total A to F**					**56,547,515**		**56,753,765**	
H	**Geological Report Preparation**	**5 Hard copies with a soft copy**	5.2(iii)	750,000		750,000		750,000	Reimbursement will be made after submission of the final Geological Report in Hard Copies (5 Nos) and the soft copy to NMET.
I	**Peer review Charges**		**As per EC decision**	30,000		30,000		30,000	
J	**Preparation of Exploration Proposal (5 Hard copies with a soft copy)**	**5 Hard copies with a soft copy**	**5.1**	**500,000**		**500,000**		**500,000**	EA will be reimbursed after submission of the Hard Copies and the soft copy of the final proposal along with Maps and Plan as suggested by the TCC-NMET in its meeting while clearing the proposal.
K	**Total Estimated Cost without GST**					**57,827,515**		**58,033,765**	
L	**Provision for GST (18% of K)**					10,408,953		10,446,078	GST will be reimburse as per actual and as per notified prescribed rate

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M	Total Estimated Cost with GST			68,236,468		68,479,843	
N	Rs. In lacs			682.36		684.80	
Note:							
1	Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.						
2	In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.						
3	If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execusion of the project by NEA on its own, a Certifiate regarding non outsourcing of any component/project is required.						
4	Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.						
5	Any item of work not mentioned above shall be added as per SoC.						
6	All the Geological Reports and data are to be uploaded on NGDR as per MERT template by the agency						

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Agenda 95.3.2. Preliminary (G-3) Exploration for Iron and Bauxite Ore in Amoch-Chhapra Block (4.86 sq.km.), District- Jabalpur & Katni, Madhya Pradesh.

[Implementing Agency: MECL]

a. MECL informed that the project was approved in the 36th EC Meeting held on 29th July, 2024. The Sanction Order was issued on 29th August, 2024 with timeline of 10 months (up to 28.06.2025) and approved cost was Rs. 106,83,673/-. Time line extension upto 31.03.2026 was approved in 5th meeting of PSC.
b. The agency apprised the committee that the Geological Report has been peer reviewed and all the comments and suggestions of peer reviewer has been duly complied with.
c. The resource estimation for Aluminous laterite, Titanium and Vanadium was conducted using two methods: the Polygonal Method as the principal method and the Cross-Sectional Method as a check method.
d. Net resource estimation by Polygonal method is Al_2O_3 at 20% cutoff is 36.34 million tonnes with average grade of 28.38% Al_2O_3, Ti at 2% cutoff is 18.95 million tonnes with average grade of 2.45% Ti and V at 500ppm cutoff is 29.06 million tonnes with average grade of 623.24ppm.
e. Net resource estimation by Cross Sectional method is Al_2O_3 at 20% cutoff is 33.98 million tonnes with average grade of 28.24% Al_2O_3, Ti at 2% cutoff is 16.21 million tonnes with average grade of 2.41% Ti and V at 500ppm cutoff is 26.27 million tonnes with average grade of 653.62ppm.
f. All estimated resources have been categorized under the Inferred Resource (333) category in accordance with the UNFC guidelines.
g. The comments and their compliance by agency was discussed.
h. The committee reviewed the work and agreed for submission of GR.

Recommendations of TCC-1:

The committee agreed for submission of Geological Report (GR).

Agenda 95.3.3. Preliminary exploration (G-3 stage) for limestone in Pedaveedu West Block, Suryapet District, Telangana.

[Implementing Agency: MECL]

a. MECL informed that the project was approved by Chairman, EC on 25.06.2025 and ratified in the 43rd EC Meeting held on 14th August, 2025. The Sanction Order was issued on 2nd July, 2025 with timeline of 7 months (up to 01.02.2026) and approved cost was INR 88,95,875/-. Timeline was extended upto 30.04.2026 by PSC in its 5th meeting.
b. The agency apprised the committee that the Geological Report has been peer reviewed and all the comments and suggestions of peer reviewer has been duly complied with.
c. MECL has carried out Preliminary exploration (G3) over 7.79 sq.km. of Pedaveedu West block, total Geological Net In-situ Resources of Cement Grade resource estimate is 646.95 million tonnes with an average grade of CaO 49.00%, MgO 1.18% and SiO2 9.84%. as per MEMC rules 2015 (Amended 2021).

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d. Estimated resources are considered under 333 category as per UNFC nomenclature. This report will facilitate state Govt. of Telangana to auction the block for mining license.
e. The comments and their compliance by agency was discussed.
f. The committee reviewed the work and agreed for submission of GR.

Recommendations of TCC-1:

The committee agreed for submission of Geological Report (GR).

Agenda 95.3.4. Preliminary Exploration (G3) for REE Mineralization in Maravapaliyam Block, Tiruppur District, Tamil Nadu.

[Implementing Agency: MECL]

a. MECL informed that the project was approved in the 37th EC Meeting held on 23rd September, 2024. The Sanction Order was issued on 22nd October, 2024 with timeline of 12 months (up to 21.10.2025) and approved cost was INR 125.17 Lakhs. Timeline extension upto 21.04.2026 was approved by PSC in its 3rd meeting.
b. The agency informed that drilling could not be initiated due to local agitation.
c. However, after negotiation the locals have agreed for drilling of 2 BH and hence requested for timeline extension of 3 months.
d. The agency informed that as per the approved Schedule of Charges (SoC) 2025 of NMEDT/NMET for analytical studies, EPMA analysis charges are Rs 10,500/- per hour, while this ongoing project were sanctioned at earlier SoC rates of ₹8,540 per hour (SoC 2020).
e. Upon Market survey it was understood that and as per approved GSI SoC-2023, the EPMA charge is ₹8,395 per hour (including yearly escalation). Accordingly, the effective analytical cost works out to approximately ₹9,906 per hour (including 18% GST), which also includes calibration and carbon coating time.
f. The agency requested for cost enhancement of EPMA component of the project.
g. The committee reviewed the progress of the work and agreed for timeline extension.
h. However, the committee opined that enhanced cost (as per SoC 2025-26) cannot be given for projects and components approved as per older SoC (2020-21).

Recommendations of TCC-1:

The committee recommended timeline extension of 3 months, upto 21.07.2026 for approval of PSC, NMEDT. Timeline extension is recommended for completion of work and submission of GR.

The committee did not agree for enhancement of cost for EPMA component of the work.

Agenda 95.3.5. Preliminary Exploration (G-3 Stage) for limestone in Chokkanathapuram Block, Ariyalur and Perambalur Districts, Tamil Nadu.

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

a. Geo Exploration and Mining Solutions informed that the project was approved in the 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 10th February, 2025 with timeline of 8 months (up to 09.10.2025) and approved cost was INR 2,24,59,105/-. Timeline was extended upto 31.03.2026 in 5th PSC meeting.

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b. The agency informed that the GR has been peer reviewed and the comments of reviewer has been received shortly. The compliance of comments is under progress. Geological map is also being updated as per comments of reviewer.
c. The committee reviewed the progress and opined that the agency may come again for review after attending the comments/ suggestions of peer reviewer.
d. The committee will review the compliance of peer reviewers' comments in upcoming TCC.

Recommendations of TCC-1:

The committee will review the compliance of peer reviewers' comments in upcoming TCC.

Agenda 95.3.6. Preliminary exploration (G3 stage) for limestone in Kulumur Block, Ariyalur and Perambalur Districts, Tamil Nadu.

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

a. Geo Exploration and Mining Solutions informed that the project was approved in the 39th EC Meeting held on 24th January, 2025. The Sanction Order was issued on 10th February, 2025 with timeline of 8 months (up to 09.10.2025) and approved cost was INR 2,25,09,644/-. Timeline was extended upto 31.03.2026 in 5th PSC meeting.
b. The agency informed that the GR has been peer reviewed and the comments of reviewer has been received shortly. The compliance of comments is under progress. Geological map is also being updated as per comments of reviewer.
c. The committee reviewed the progress and opined that the agency may come again for review after attending the comments/ suggestions of peer reviewer.
d. The committee will review the compliance of peer reviewers' comments in upcoming TCC.

Recommendations of TCC-1:

The committee will review the compliance of peer reviewers' comments in upcoming TCC.

Agenda 95.3.7. Preliminary Exploration (G3) for Bauxite, Titanium, and Associated Minerals Harhapat block, Gumla, Jharkhand.

[Implementing Agency: JEMCL]

a. JEMCL informed the committee that the project was approved in the 37th EC Meeting held on 23rd September, 2024. The Sanction Order was issued on 28th October, 2024 with timeline of 10 months (up to 27.08.2025) and approved cost was INR 73,85,536/-. Timeline was extended upto 28.02.2026 during 2nd meeting of PSC.
b. The agency informed that they have completed the majority of the geological exploration work following approval of the first extension proposal, except for completion of drilling documentation and submission of the final geological report.
c. The agency apprised the committee that the delay was mainly due to objections from local villagers and landowners during installation and inter-site mobilization of drilling rigs delayed commencement and continuity of drilling operations, requiring repeated stakeholder meetings and on-site intervention by senior officials of the agency.

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d. Further, hard geological formations encountered in parts of the block necessitated shorter drill runs to achieve better core recovery, which increased drilling time despite deployment of two rigs operating at optimum capacity.
e. Adverse weather conditions, particularly cold and foggy conditions during the field season, reduced effective working hours and further contributed to the delay in completion of the work.
f. JEMCL further informed that they have dispatched 111 samples for chemical analysis and is awaiting the analytical results of core and check samples, which are essential for resource estimation and preparation of the final geological report.
g. They sought timeline extension for submission of GR.
h. The committee reviewed the progress of work and expressed their dissatisfaction over the slow work.
i. The committee agreed upon timeline extension upto 15.07.2026 for submission of GR.

Recommendations of TCC-1:

The committee recommended timeline extension upto 15.07.2026 for approval of PSC, NMEDT. Timeline extension is recommended for submission of GR.

Agenda 95.3.8. Reconnaissance Survey (G4 Stage) for Iron ore in Yaparlapadu - Dhone Area, Kurnool & Nandyal Districts, Andhra Pradesh.

[Implementing Agency: CMT]

a. The agency informed that the project was approved in the 42nd EC Meeting held on 2nd June, 2025. The Sanction Order was issued on 1st July, 2025 with timeline of 10 months (up to 30.04.2026) and approved cost was Rs. 1,52,82,042/-.
b. The agency apprised the committee that geological mapping has been completed; 100 BRS have been collected, with analytical results received for 82 samples and results for 18 samples awaited; 94 out of 120 pits have been completed and results are awaited for 42 pit samples. The remaining pitting of 26 pits are being taken up and completed by next week.
c. Forest clearance in Kurnool district was issued by the Divisional Forest Officer (DFO) on 27/02/2026 for undertaking exploration activities involving 33 pits and 01 drill hole in the Yaparlapadu area and Dhone Block, in accordance with applicable forest regulations and environmental safeguards.
d. Forest clearance in Nandyal district was issued by the Divisional Forest Officer (DFO) on 15.04.2026 for undertaking exploration activities involving 09 pits and 02 drill holes in the Yaparlapadu area and Dhone Block, in accordance with applicable forest regulations and environmental safeguards.
e. The exploratory pitting work in Nandyal district has been successfully completed on 04.04.2026. A total of 09 pits were excavated across the designated forest areas.
f. The agency sought timeline extension of four months to complete the remaining drilling, lab analysis, synthesis of the data and Geological Report submission etc. for Yaparlapadu and Dhone Block.
g. The committee review the progress of work and suggested the agency to come for review in next month along with bore hole plan

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Recommendations of TCC-1:

The Committee reviewed the progress of work and advised the agency to present the borehole plan during upcoming TCC meeting.

Agenda 95.3.9. Reconnaissance Survey (G4) for REE & RM (Sc, Nb) mineralisation in Samalpatti, Krishnagiri District, Tamil Nadu.

[Implementing Agency: KIOCL]

a. KIOCL informed that the project was approved in the 38th EC Meeting held on 29th November, 2024. The Sanction Order was issued on 13th December, 2024 with timeline of 10 months (up to 12.10.2025) and approved cost was Rs. 132.12 Lakhs. The cost was modified to 134.16 lakhs during 43rd meeting of EC. Timeline extension upto 31.12.2025 and 28.02.2026 was approved in 2nd and 5th meetings of PSC respectively.
b. The agency apprised the committee that the Geological Report has been peer reviewed and all the comments and suggestions of peer reviewer has been duly complied with.
c. The agency further apprised that since only 140 m out of assigned target of 500 m of drilling was completed, the cost sheet needs to be revised. The agency further sought timeline extension upto 4.05.2026 for submission of report.
d. The comments and their compliance by agency was discussed.
e. The committee reviewed the work and agreed for submission of GR.
f. The committee also recommended revision of cost and agreed for timeline extension.

Recommendations of TCC-1:

The committee agreed for submission of Geological Report (GR). The committee recommended timeline extension upto 04.05.2026 for approval of PSC, NMEDT. Timeline extension is recommended for submission of GR.

The project is also recommended to PSC, NMEDT for revision of cost from Rs. 134.16 lakh to Rs. 61.56 lakh with a change in amount of (-) Rs. 72.60 lakh (~54.11 % de-escalation) as per Annexure 8.

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Annexure 8

Revised Cost Estimate for Reconnaissance Survey (G4) for REE & RM (Sc, Nb) mineralisation in Samalpatti, Krishnagiri District, Tamil Nadu

Sl	Item of Work	Unit	Approved as per 78th meeting of TCC- NMET					Revised Cost					
			Rates as per NMET SoC 2020-21				Tendering/ Outsourcing components	Unit Cost	Inhouse			Tendering/ Outsourcing amount	Remarks
			SOC Item No	Rates as per SOC	Qty	Amount (Rs)			Qty	Amount (Rs)			
(a)	(b)	(c)	(d)	(e)	(f)	(g)=(e)*(f)	(h)	(i)	(j)	(k)		(l)	(m)
1	**INCORPORATION OF CORBONOTITE BODIES IN GSI's 12.5k MAP (FSP 2016-17) OVER AN EXTENT OF 28.5 sqkm**												
1.1	Geologist Party days - Field	days	1.2	11,000	60.0	660,000	**1,378,640**	11,000	50.0	550,000	1,124,600		
1.2	Geologist Party days - HQ		1.2	9,000	20.0	180,000		9,000	20.0	180,000			
1.3	Labour charges @ 2nos per Geologist	days	5.7	522.00	120.0	62,640		522	100.0	52,200			
2	**PITS/ TRENCHING WORKS**												
2.1	Pits/ Trenching works	cum	2.1.2	3,800	100.0	380,000		3,800	80.0	304,000			
3	**Survey works**												
3.1	Demarcation of Lease boundary and fixation of borehole and determination of coordinates and RL by DGPS	Per point of observation	1.6.2	19,200	5.0	96,000		19,200	2	38,400			
4	**DRILLING**												
4.1	Drilling (01 rig - Medium Hard Rock) **(Outsourcing)**	m.	2.2.1.3a	10,100	**500.0**	5,050,000	**5,447,500**	**5,447,500**	7601.69	**140**	1,064,237	1,286,837	1,064,237	Out sourced through GeM portal @

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															Rs 7601.69 / m (Ref Annexure 2)
4.2	Core preservation		m	5.3	1,590	**250.0**	397,500			1,590	**140**	222,600			
5	**LABORATORY STUDIES**														
5.1	Sample processing works	Sampler charges	days	1.5.2	5,100	41.0	209,100	**294,708**		5,100	**31**	158,100	222,828		
5.2		Labour charges	days	5.7	522.00	164.0	85,608			522	124	64,728			
5.3	34 elemental analysis by ICPOES (Sequential technique)	Primary	per sample	4.1.14	7,731	**300.0**	2,319,300	**2,593,230**		7,731	**225**	1,739,475	1,812,746		Inhouse (BRS, Channel & Regolith (57 nos) +Trench (58 nos)+ Drill core: (110 nos))
5.4		External Check (10%) **(Outsourcing)**		4.1.14	7,731	30.0	231,930		**231,930**	1737.28	18	31,271		31,271	Out sourced through GeM portal (Ref Annexure 3)
5.5		Estimation of major oxides		4.1.15	4,200	10.0	42,000			4,200	10	42,000			
5.6	Petro studies **(Outsourcing)**	Preparation of Standard Thin section	nos	4.3.1	2,353	15.0	35,295	**293,810**	**293,810**	2,300.0	8.0	18,400	193,600	193,600	Outsourced to IIT Bombay
5.7		Complete Petrological Report of rock sample	nos	4.3.4	4,232	15.0	63,480			4,000.0	8.0	32,000			

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5.8		Preparation of Polished Thin section	nos	4.3.2	1,549	15.0	23,235			1,500.0	8.0	12,000			
5.9		Mineragraphic studies	nos	4.3.4	4,232	15.0	63,480			4,000.0	8.0	32,000			
5.10		XRD for Mineral phase analysis	nos	4.5.1	4,000	10.0	40,000			3,900.0	8.0	31,200			
5.11		EPMA	nos	4.4.1	8,540	8.0	68,320			8,500.0	8.0	68,000			
6	**Sub Total (1+2+3+4+5+6)**						**10,007,888**	**10,007,888**	**5,973,240**			**4,640,611**	**4,640,611**	**1,289,108**	
7	**Peer review of report**		lump sum		MoM Office Memorandum Dtd 12 July 2023		30,000	1,361,803				30,000			
8	Preparation of Exploration Project Proposal		lump sum	5.1	2% of approved project cost subject to maximum of ₹ 5 lakh"		197,685					92,812			@2% of Rs 46,96,359/-
9	Exploration Report (5% of (Sl 9 + Sl 10))		lump sum	5.2(i)	Reconnaissance survey/Preliminary exploration upto 50 Lakhs: A min. of Rs.1.5 Lakhs or 5% of the value of work whichever is more.		491,787					232,031			@5% of Rs 46,96,359/-
10	Tender processing Cost		lump sum	2.3	One time in case of outsourced component(s) of project work		108,912					92,812			@2% of Rs 12,89,108/-

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				(2% of the approved project cost or 5 lakh whichever is lower)										
11	Operational Charges (Reimbursement of cost in case of outsoruced components of project work)	lump sum	6(i)	In case of total outsourced cost up to Rs 50 lakhs : 10% of outsourced cost		533,419					128,911			@10% of Rs 12,89,108/-
12	**GRAND TOTAL (7 to 11)**					**11,369,691**	**11,369,691**				**5,217,176**			
13	**GST 18%**					**2,046,544**	**2,046,544**				**939,092**			
14	**Grand Total (with GST 18%)**					**13,416,235**	**13,416,235**				**6,156,268**			
Note														
1	**Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.**													
2	**In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.**													
3	**If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of execusion of the project by NEA on its own, a Certifiate 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

List of participants who attended the 95th Meeting of Technical-cum-cost Committee (TCC-I) of NMEDT held on 27th and 28th April 2026 through video conferencing mode

S.no	Name	Designation	Email ID	Contact No	Organization
1	Dr. S. Ravi	Dy. Director General, GSITI, Hyderabad	s.ravi1@gsi.gov.in	9441138834	Chairman, TCC-1
2	Shri. I.R. Kirmani	ADG (Retd.), GSI	irkirmani@yahoo.com	9414014723	Member TCC-1
3	Shri. M. Mohan	Dy. Director General (Retd.), GSI	mariappan.mohan@gmail.com	9423686547	Member TCC-1
4	Shri. K. Koteswara Rao	Dy. Director General (Retd.), GSI	kkrao1957@gmail.com	9000117969	Member TCC-1
5	Dr. S. K. Kulshrestha	DDG-RMH-III, NER, GSI, Shillong	s.kulshrestha@gsi.gov.in	9413330658	Member TCC-1
6	Shri A. R. Mukundhan	Regional Director, AMD, South Central Region	mukuagaram@rediffmail.com	6303606347	Member TCC-1
7	Dr. E.V.S.S.K. Babu	Scientist (G), NGRI	evsskbabu@ngri.res.in	9441535852	Member TCC-1
8	Sh. S K Adhikari	Chief Mining Geologist, IBM, Nagpur	skadhikari@ibm.gov.in	7588690545	Member TCC-1
9	Smt. Vandana	Cost Accounts Officer, RSAS, Bangalore, GSI	vandana@gsi.in	8660939235	Member TCC-1
10	Shri S Dhanendran	Director, GSITI & Member Secretary, TCC-I	s.dhanendran@gsi.gov.in	9944882204	Member Secretary TCC-1
11	Representatives from M/s. Enkay Enviro Services Pvt. Ltd.				
12	Representatives from MECL				
13	Representatives from M/s MMPL Private Limited				
14	Representatives from M/s. Envirogreen Consultants (India) Private Limited				
15	Representatives from M/s. APC Drilling & Construction Private Limited				
16	Representatives from My World Consultancy Services Pvt. Ltd.				
17	Representatives from Eartnenviro Lab Private Limited				
18	Representatives from IMPCON				
19	Representatives from M/s Ocean Drilling and Exploration Private Limited				
20	Representatives from M/s Geo Exploration and Mining Solution				
21	Representatives from JEMCL				
22	Representatives from Critical Mineral Tracker				
23	Representatives from KIOCL				
24	Ms. Bishakha	Senior Geologist	sr.geologist1-nmet@gov.in	8126541605	NMEDT
25	Smt. Palak Kapoor	Senior Geologist	sr.geologist4-nmet@gov.in	8851742488	NMEDT

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