

COMMISSIONERATE OF GEOLOGY AND MINING

From

Thiru.J.Jayakanthan, I.A.S,
Commissioner of Geology and Mining,
Guindy,
Chennai-600032.

To

The Additional Chief Secretary
to Government,
Industries, Investment, Promotion
& Commerce Department,
Secretariat, Chennai – 600009.

Rc.No.5538/MM11/2016, dt.12.01.2023

Sir,

Sub: Mines and Minerals – NMET - 27th Meeting of the Executive Committee (EC) of National Mineral Exploration Trust- held on 22.12.2022- Financial assistance to State DGMs for procurement of machinery / Laboratory equipment / Instruments – proposal requested – furnished reg.

- Ref:
1. Director of e-Governance and Chief Executive Officer, Tamil Nadu e-Governance Agency (TNeGA) letter No. H-88/1/2021-eGov-DeG/TNeGA, dated 08.03.2022.
 2. Director, NMET, Ministry of Mines, New Delhi F.No.6/9/2015-NMET/294 dt.23.3.2022.
 3. Director & HoD, NMET, Ministry of Mines, New Delhi F.No.6/2/2015-NMET/250 dt.15.12.2022.
 4. The Chairman, TCC, NMET & ADG, GSI, Hyderabad conducted VC on 29.12.2022.
 5. Approximate cost furnished by the GSI, Chennai through e-mail dt. 5.1.2023.

Kind attention is invited to the references cited above.

2. In the reference 2nd cited, the Director, NMET, Ministry of Mines has issued an orders for providing financial assistance for procurement of procurement of machinery / equipment / Chemical analysis instruments aimed at enhancing the exploration activities through NMET fund.

3. In the said order it has been stated that in order to facilitate strengthening of machinery / equipment / instruments in the Central Government organisation and State DGM's, NMET will consider proposal for providing fund after evaluation by TCC as follows:

ii. "State DGM's/DMGs will be given upto 10% of the total approved exploration project cost including approved project cost of the concerned state PSUs, sanctioned in a year for the purpose of procurement of machinery/equipment/ instruments and other latest technological upgradation of the existing equipment/ software etc".,

4. The following detailed proposal is submitted for providing financial assistance to enhance the exploration capabilities of Department of Geology and Mining, Tamilnadu.

i. As per Section 9C of MMDR amendment Act, 2015 the contribution towards NMET collected from 12.1.2015 to 31.10.2022 is Rs. 63.74Cr.

ii. Under NMET fund the following projects have been approved for the State of Tamilnadu.

Sl. No	Name of the Block and Mineral	Area (in Sq. km)	Cost (in Lakhs)	Exploration agency	Stage of Exploration
1.	Regional Exploration for Dunite in Namakkal and parts of Perambalur (G4)	100	191.78	MECL	G4 Level Completed and report submitted
2.	Regional Exploration for Nickel, Chromium and Magnesite, Dunite in Namakkal and Trichy Districts (G4)	240	299.62	MECL	G4 Level Completed and report submitted
3.	Exploration for Iron Ore in Thirumanakaradu, Poomedu areas in Thiruppur Districts	100	282.34	KIOCL	Due to law and order problem, Exploration work could not be commenced and the project was dropped
4.	Detailed exploration for Lignite in Veeranam area in Cuddalore Districts	150	7042.0	MECL	Exploration under progress.
5.	Detailed Exploration for Lignite in Palayamkottai in Cuddalore District	32	851.0	MECL	Work Completed.
6.	G2 level exploration for Limestone in Adanakuruchi block in Ariyalur District	1.51	115.92	MECL	Area brought for auction

7.	G2 level exploration for Limestone in Alathiyur block in Ariyalur District	1.31	115.92	MECL	Area brought for auction
8.	G2 level exploration for Limestone in Anandawadi block in Ariyalur District	1.31	89.73	MECL	Area brought for auction
9.	G2 level exploration for Limestone in Ujini block in Ariyalur District	0.41	64.04	MECL	Area brought for auction
10.	G2 level exploration for Limestone in Reddipalayam block in Ariyalur District	2.11	270.0	KIOCL	Area brought for auction
Total			9322.35		

iii. It is further stated that after Amendment Act 2015, a number of mining lease applications preferred by the applicants for mining Limestone, Magnesite, Graphite, in the potential areas became ineligible. Hence, these areas have to be assessed as per Mineral (Evidence of Mineral Contents) Rules, 2015 for establishing the quantity and quality for which exploration is inevitable. Further, the areas which have been abandoned, surrendered and lapsed cases also need to be reassessed for estimation of reserves for bringing these areas for further exploitation.

iv. To facilitate the State DGM's TamilNadu to takeup exploration activities and to strengthen the capability of the Department, it is necessary to procure the following machinery / equipment / instruments as listed by the TCC, NMET.

A. Field Equipments

Sl. No.	Equipment	Model	<i>Tentative</i> Cost (in Rs.)	GST (18%) (in Rs.)	No's required	Total amount (in Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	Digital Camera	Canon Power Shot G7 X Mark III	2,89,975	52195.5	5	342171
2.	Brunton Compass	Brunton ComPro Pocket Transit Compass	26,53,000	477540	50	3130540
3.	Geologists Hammer	Estwing E3-22P	5,80,000	104400	100	684400
4.	Handheld GPS	-	25,00,000	450000	100	2950000
5.	UV Lamp	UV Lamp 254nm/365nm 4W Portable UVA/UVC Shortwave Longwave	3,50,000	63000	10	413000
6.	Handheld XRF	Shortwave and Longwave Ultraviolet Light Lamp	25,00,000	450000	1	2950000
7.	Scintilometer	-	10,00,000	180000	1	1180000
TOTAL			98,72,975	17,77,136	267	1,16,50,111

B. Sample processing/*Microscopic Study:* ~~preparation~~

Sl. No.	Equipment	Model	<i>Tentative</i> Cost (in Rs.)	GST (18%) (in Rs.)	No's required	Total (in Rs.)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1.	Rock cutting, polishing and mounting unit	TNEI Rock Cutting And Polishing Machine	3,40,000	61200	2	4,01,200
2.	Pulverizer	SNS Stainless Steel Rock Crusher Machine	22,00,000	396000	1	25,96,000

3.	Stereo zoom microscope	Leica Microsystems	4,00,000	72000	2	4,72,000
4.	Polarizing microscope	Leica Microsystems	52,00,000	936000	2	61,36,000
5.	Transmitted and reflected light research microscope with software attached camera	Leica Microsystems	26,00,000	468000	1	30,68,000
Total			1,07,40,000	19,33,200	8	1,26,73,200

C. Chemical Laboratory

Sl. No.	Laboratory Equipment	^{Tentative} Cost (in Rs.)	GST (18%)	No's required	Total (in Rs.)
(1)	(2)	(4)	(5)	(6)	(7)
1.	X-Ray Fluorescence Spectrometer (WS_XRF)	15254237	2745763	1	1,80,00000
2.	Hot Plates	12712	2288	1	15,000
3.	Muffle Furnace	169492	30508	1	2,00,000
4.	Air oven	42373	7627	2	50,000
5.	Bomb Calorimeter	211864	38136	2	2,50,000
Sub Total		1,56,90,678	28,24,322	7	1,85,15,000
Additional Requirement					
1.	Atomic Absorption Sepctrophotometer (AAS)	6779661	1220339	1	80,00,000
2.	Planetary Ball Mill (PBM)	847458	152542	1	10,00,000
3.	Jaw crusher	169492	30508	1	2,00,000
4.	Certified Reference Materials (CRMs)	1694915	305085	50	20,00,000
5.	Hydraulic Press 40 ton	1080508	194492	4	12,75,000
6.	Ion Selective Electrodes	296610	53390	6	3,50,000
7.	Fixed Volume Pipette	423729	76271	10	5,00,000

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8.	Variable volume Pipette set	677966	122034	2	8,00,000
9.	Distilled water plant	118644	21356	2	1,40,000
10.	Fume Exhausted	211864	38136	2	2,50,000
Sub Total		1,23,00,847	22,14,153	79	14,51,5000
Total		1,85,15,000	33,32,700	86	3,30,30,000

D. Software for map preparation and data analysis

Sl. No.	Software	^{Tentative} Cost (in Rs.)	GST (18%)	No's required	Total (in Rs.)
1.	GIS Software	35,40,000	6,37,200	1	41,77,200
2.	Surfer	1,23,075	22,154	1	1,45,229
3.	Corel Draw	92,630	16,673	1	1,09,303
Total		37,55,705	6,70,027	3	44,31,732

E. Drilling Activities

Sl. No	Drilling Equipments	^{Tentative} Cost (in Rs.)	GST (18%)	No's required	Total (in Rs.)
1.	Drilling Machine upto 1000m Capacity	50,00,000	9,00,000	1	59,00,000
2.	Hydrostatic truck mounted drill machine with 600m to 1000m capacity	1,80,00,000	32,40,000	1	2,12,40,000
3.	Bits	4,00,000	72,000	10	4,72,000
	drill rods, casing, core barrel (for one year requirement for one time)	2,00,000	36,000	40	2,36,000
4.	Pumps (pressure/mud)	10,00,000	1,80,000	1	11,80,000
5.	Core splitter/core splitter hydrostatic	1,50,000	27,000	1	1,77,000
Total		2,47,50,000	44,55,000	54	2,92,05,000

F. Survey

Sl. No.	Instrument	Model	<i>Tentative</i> Cost (in Rs.)	GST (18%)	No's required	Total (in Rs.)
1.	DGPS	GeoMax DGPS	33,00,000	594000	3	38,94,000
2.	Total Station	GeoMax	7,500,000	1350000	30	88,50,000
3.	Borehole Camera	Borehole Inspection Camera For Mines	4,00,000	72000	4	4,72,000
4.	Resistivity-Potential Meter	W- 2/3 Digital D.C Resistivity Meter	11,80,000	212400	2	13,92,400
Total			12,380,000	22,28,400	39	1,46,08,400

SOFTWARE :**G. Additional Requirement**

Tentative						
Sl. No.	Instrument	Description	Cost (in Rs.)	GST (18%)	No's required	Total (in Rs.)
1.	Development and maintenance of the online application for monitoring the projects sanctioned under DMFT fund	Software Component	54,26,195	8,49,349	1	62,75,544
2.		Server Procurement / Hosting charges			1	
Total			54,26,195	8,49,349	2	62,75,544

ABSTRACT

Sl. No.	Description	Cost + GST (in Rs.)
1.	A. Field Equipments	1,16,50,111
2.	B. Sample processing / preparation	1,26,73,200
3.	C. Chemical Laboratory	3,30,30,000
4.	D. Software for map preparation and data analysis	44,31,732
5.	E. Drilling Activities	2,92,05,000
6.	F. Survey	1,46,08,400
7.	G. Additional Requirement SOFTWARE	62,75,544
Total		11,18,73,987

To strengthen the exploration activity in the State of Tamil Nadu it is essential to provide financial assistance under NMET fund for which an amount of Rs. 11,18,73,987/- (Rupees Eleven Crore Eighteen Lakhs Seventy Three Thousand Nine Hundred and Eighty Seven only) may be sanctioned for the procurement of machinery / equipment / instruments as listed by the TCC, NMET.

In view of the above, the Government is requested to send the proposal to the Director, National Mineral Exploration Trust (NMET), Ministry of Mines, F-114, 1st Floor, Shastri Bhawan, New Delhi-110001 to place the same before the Technical Cost Committee of NMET for obtaining approval for sanction of funds for procuring machineries ^{and Softwares} for enhancing the capacity building of the State Department of Geology and Mining, Tamil Nadu.

Commissioner of Geology and Mining

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