



GOVERNMENT OF ARUNACHAL PRADESH
DEPARTMENT OF GEOLOGY AND MINING
ITANAGAR

No: DGM/NMET/809/2022

298-303

Dated 13th Jan, 2023

✓ The Director
National Mineral Exploration Trust (NMET)
Ministry of Mines,
F-114, 1st Floor
Shastri Bhawan
New Delhi -110001

Sub: Financial Assistance for procurement of GIS software and survey equipment etc: Reg

1. Ref: Your letter No. 6/9/2015-NMET/237, Dated 25th Nov, 2022
2. Ref: Your letter No. 6/9/2015-NMET/71, Dated 8th June, 2022
3. Ref: Our letter No. DGM/NMET/80 Dated 21st Dec, 2022
4. Ref: Our Letter No. DGM/NMET/809/2022/3037-41, dated 28th Dec, 2022

Sir,

With reference to the subject cited above and as discussed in the 48th Technical-cum-cost Committee (TCC), held on 22nd and 23rd December 2022 through video conference at DGCO, GSI, New Delhi, I am to forward herewith a revised proposal for Financial Assistance for the procurement of GIS software along with DGPS for the purposes of mineral exploration in the state for amounting to Rs 4,99,000,00/- (Rupees Four Crore Ninety Nine Lakhs) only.

A copy of the revised proposal for the grant of financial assistance is enclosed at Annexure-A for favorable consideration, please

Thanking you,

Sd/-(Anirudh Singh),IRS
Secretary. (Geology & Mining)
Govt. of Arunachal Pradesh
Itanagar

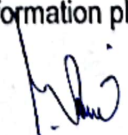
Enclosed: As above

Memo No. DGM/NMET/809/2022

Dated 13th Jan, 2023

Copy to:-

1. PS to HM (G&M), Arunachal Pradesh for information please.
2. PA to Hon'ble Advisor (G&M), Arunachal Pradesh for information please.
3. US to Ld. Chief Secretary, Govt of Arunachal Pradesh for information please
4. The Director (G&M), Govt. Of Arunachal Pradesh for information please.
5. Office copy


(T.Rumi),APCS
Joint Secretary (Geology & Mining)
Govt. of Arunachal Pradesh
Itanagar



**Government of Arunachal Pradesh
Department of Geology & Mining
Itanagar**



सत्यमेव जयते

PROJECT PROPOSAL

For Grant of

**FINANCIAL ASSISTANCE FOR PROCUREMENT OF
MACHINERY/GIS SOFTWARE ETC.**

Sub: Financial Assistance for procurement of machinery/laboratory equipment/GIS Software etc.

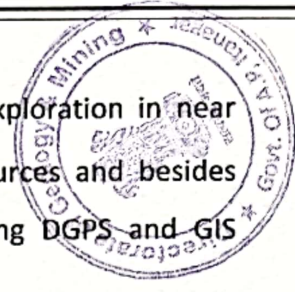


1) Introduction:

Arunachal Pradesh is the largest among all the North-Eastern states covering an area of 83,743 sq. km and known as a land with the hidden treasure of mineral resources. The identified mineral resources of the state are Crude Oil, Coal, Limestone, Dolomite, Graphite, Quartzite, etc. Most of the mineral resources are still unexplored due to a lack of infrastructure, laboratory equipment/ machinery for exploration of mineral resources of the state. Exploration of minerals resources are quite challenging in Arunachal Pradesh due to its unique geographic condition, rugged topography, lack of communication, climatic conditions, earthquake and landslide-prone zone, local customary landholding system and dense and thick forest-covered. Mining of minerals are directly and indirectly play important role in the economy of the state and country as a whole, therefore needing special attention.

2) Overview of Mineral Resources in the state :-

Name of Minerals	Estimated Resources (in Million Tonnes)	Location	District
Coal	84.23	Namchik-Namphuk	Changlang
	Reported	Miao	Changlang
	Reported	Jairampur	Chanlang
	Reported	Naitong	Tirap
	Reported	Talhat	Tirap
Limestone	Reported	Menga	U/Subansiri
	67.89	Tidding	Anjaw
	07.00	Pangin	East Siang
	37.00	Lokpeng	East Siang
	225.00	Dali	West Siang
	Reported	Hunli	Dibang Valley
	Reported	Pawlang Sangri	Kra-Dadi
Graphite	0.50	Laa- Lamdak	Kamle
	2.46	Bopi	Kamle
	100.00	Taliha	U/Subansiri
	2.98	Dodeserum	L/Subansiri
	3,23	Tai	Leparada, U/Subansiri
	Reported	Lalpani	Lohit
Dolomite	252.00	Rupa	West Kameng
	11.13	Kaspi (Jameri)	-do-
Quartzite	1.25	Kalaktang	-do-



3) **Background:** Deptt proposed to undertake the various mineral exploration in near future such as Limestone, dolomite, Quartzite, Graphite, Coal resources and besides various minor minerals also will be surveyed and mapped by using DGPS and GIS application.

4) **Applications of GIS and DGPS:** Field data collected by using DGPS and remote sensing during the various mineral explorations shall be analyzed through a GIS system. The study area is captured and digitally analyzed using any GIS software like ArcGIS. GPS receiver is used to categorize ground sections for the collected data. Geometric corrections, supervised or unsupervised classification and setting quantitative relationships between spectral signatures and ground features that are indicators of appearance or absence of mineral deposits can also be done effectively using this tool. Differential Global Positioning Systems (DGPS) techniques are required to obtain the accuracy required by many GIS data capture applications. It is an appropriate tool for capturing coordinate data for a GIS database. Modern DGPS/GIS data collection devices have the capability to collect a wide range of GIS attribute data in addition to the position of the feature of interest, including point, line, and area features. DGPS will be used in GIS data capture applications, including applications as diverse as Georeferencing of Base images, mapping, land-use land cover mapping, Settlement, boundary mapping etc. Also, it is used for analysis purposes.

5) In view of above, a revised proposals for the procurements of the following equipment/software is proposed for the consideration of Director, NMET, MoM, Gol:-

No.	Name of Item	Qty	Description	Unit Price inclusive GST 18%
1	GiS Software	1	Arc GiS EA Unlimited Licenses	4,83,00,000.00
2	DGPS	1	Trimble R12 LT	16,00,000.00
TOTAL (Rupees Four Crore Ninety Nine Lakhs) only				4,99,00,000.00

6) Proposal for grant of financial assistance of Rs 4,99,00,000.00 for the procurements of scientific equipments/software is herby submltted for the approval of the Director, NMET, MoM, Gol to the Deptt of Geology & Mining, Govt of Arunachal Pradesh.
