List of NMEDT funded Procured instruments

	Indian Bureau of Mines (IBM)	
Year	**Project Name**	**Approved cost of the project & name of equipments sanctioned**
1.	Procurement of Wavelength Dispersive X-Ray Fluorescence (WD-XRF) Spectrometer through NMET fund.	WD-XRF
2.	Procurement of Inductively Coupled Plasma- Mass Spectrometer (ICP-MS) through NMET fund.	ICP-MS
3.	Procurement of laboratory scale mineral processing equipments, characterization and analysis instruments for modern mineral processing laboratory, IBM, Nagpur.	**Laboratory Scale Mineral Processing Equipment's** 1. WHIMS 2. Air Jig for Dry Separation 3. Flotation Column 4. Air Pulsated Batac Jig (for wet separation) 5. Leach Column 6. Electrostatic Separator 7. High Intensity Disc Magnetic Separator (Dry) 8. Electrophoretic Cell for Zeta Potential 9. Slurry Rheometer 10. BET Surface Area Analyzer [Rs. 40.0 Lakh] 11. LAARMANN Flotation Cell with External Air Supply (for Roughing and Cleaning)-
		Mineralogy- Characterization Instrument:- 1. FE-SEM with EDS 2. Digital X-Ray Diffractometer
		Chemical Laboratory- Analysis Instruments:- 1. Fire Assay Assembly along with accessories 2. Proximate Analyzer along with accessories

4.	Procurement of laboratory scale mineral processing equipment's, characterization and analysis instruments for Regional Mineral Processing Laboratory, Bengaluru.	**Mineral processing equipment's** 1. High Intensity Magnetic Separator Induced Roll "Lift Type" Laboratory Model. 2. High Temperature Furnace 1600o C with gas inlet Provision. 3. Hindered Bed Separator with feed pump and necessary accessories 4. Electrostatic Plate Separator 5. Spiral HG and MG configuration (each 1 No.). 6. Hydro-cyclone test rig assembly to test with different types of hydrocyclones with product and tailing handling pumps with different cyclone arrangements. 7. Leaching circuit with autoclave for pressure leaching and solvent extraction unit. 8. Column Flotation Cells. 9. Flotation Cells - Rougher 3 cells (0.5 m3 each) and Scavenger 1 cell (0.5 m3) circuit with feed pumps, 2 conditioning tanks with agitator, along with flotation product and tailing pumps, reagent dosing system and pilot scale filtration system for concentrator and tails (For Replacement of existing facilities).
		Mineralogy instrument & equipments 1.TG-DTA 2. Rock Cutting-cum-Automatic Thin Section Preparation equipment along with accessories and ancillary units (For Replacement of existing facilities)
		Chemical analysis instruments 1. (ICP-OES) with microwave digesting System 2. Carbon and Sulphur Analyzer

Geological Survey of India	
1.	Gravimeters
2.	Magnetometers (TF)
3.	DGPS
4.	Procurement of Geosoft (Oasis Montaj) Software

DGM, Arunachal Pradesh	
1.	GIS Software
2.	DGPS

DGM, Goa	
1.	DGPS
2.	Total Station
3.	GIS Softwares

CGM, Gujarat	
1.	GIS Software

DGM, Karnataka	
1.	Ore/Polarizing Microscope with Transmitted/Incident Light and oil immersion objectives.

DGM, Maharashtra	
1.	Rock cutting machines floor mounted
2.	Section grinding/polishing machine-double disc
3.	Section mounting Press-spring type
4.	Core cutting machine
5.	Pol Trinocular Research microscope with imaging system and Pelcon automatic point counter
6.	XMET8000 Expert Geo handheld XRF Analyzer
7.	ICP-MS
8.	Crusher
9.	Vibratory cup mill
10.	Pulveriser
11.	Drilling rig truck mounted (600m capacity) and its accessories (casing, barrels, etc)
12.	Drilling rig Tractor mounted
13.	Reciprocating pumping set (trolly mounted)
14.	Centrifugal pumping set (Multi stage 2 cylinder)

DMR, Meghalaya	
1.	DGPS
2.	Digital Camera
3.	Brunton Compass
4.	Total Station
5.	Corel Draw

6.	Handheld GPS
7.	Transmitted and reflected light research microscope with software attached camera

DGM, Nagaland	
1.	Skid mounted wire line drilling technology with capacity 600 m with HQ rod, 1000 m with NQ rod with accessories (casing, bits, barrel, etc.)
2.	Core splitter hydrostatic
3.	DGPS (1 set)
4.	Total Station
5.	Pulveriser
6.	Research Polarising Microscope with software attached camera for Transmitted and Reflected light with accessories
7.	Muffle furnace
8.	WD-XRF
9.	Press Pellet Machine
10.	Digital Camera
11.	Brunton Compass
12.	Geological Hammer
13.	Handheld GPS
14.	Corel DRAW
15.	Digital Camera
16.	Brunton Compass
17.	Geological Hammer
18.	Handheld GPS
19.	Corel DRAW
20.	Air Oven
21.	Bomb Calorimeter
22.	Proximate Analyser
23.	Fusion Bead Machine

DGM, Tripura		
1.	Digital Camera	
2.	Brunton Compass	
3.	Geological Hammer	
4.	Handheld GPS	

5.	GIS Software	
6.	Total Station	

DMM, West Bengal	
1.	Handheld GPS
2.	Binocular Polarizing Microscope with camera and software
3.	GIS Software
4.	Geological Hammer