

## Procurement Projection for next 5 years

Name of the organisation : Central Mine Planning and Design Institute Limited (CMPDI)

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Ministry/Department:	Ministry of Coal/Coal India Ltd.

### 1. FINANCIAL YEAR 2020-21

Sr. No	Description	Broad specification parameters	Quantity	Accounting Unit	Total Estimated Value of procurement (in lakhs)
1	Ash Fusion Temperature range Apparatus	Measuring Fusion temperature Range of Coal Ash	1	Number	60.00
2	Geophysical Logger	1500 m winch capacity with multi parametric probes & calibration kit	2	Number	700.00
3	Geosoft	Modelling & interpretation software for Gravity-Magnetic survey data	2	Number	200.00
4	2D/ 3D Seismic Data Acquisition Planning Software	Planning & designing software for field data acquisition parameters for Seismic surveys	2	Number	70.00
5	Truck	4 x 4 Wheel Drive	5	Number	100.00
6	Differential Global Positioning System	One Base and two rovers, RTK/ SBAS facility	3	Sets	96.00
7	Atmospheric Mercury Analyser - for measurement of Hg in ambient air	Use in mercury analysis in ambient air	1	Number	100.00
8	ICP-MS (Inductive Coupled Plasma Mass Spectrophotometry)	Use in trace metal analysis in water and air	1	Number	150.00
9	CHNS Analyser	Carbon, Hydrogen, Nitrogen and Sulphur analysis in Coal	1	Number	65.00
10	TGA Analyser	Use in Coal characterisation	1	Number	50.00
11	Tri-axial Rock Testing System (Capacity 1500KN)	Use in Rock analyser	1	Number	56.00
12	Spares/Components/Sub-Assemblies related to Lab Equipments	Spares, Components, Sub-Assemblies related to Lab Equipments	-(As and when required)	Number	353.00
					<b>2,000.00</b>

### 2. FINANCIAL YEAR 2021-22

Sr. No	Description	Broad specification parameters	Quantity	Accounting Unit	Total Estimated Value of procurement (in lakhs)
1	Thermo Gravimetric analyzer with dual furnace	For measuring ash, moisture and volatile matter of coal. Dual furnaces connected with single pc.	1	Number	65.00

2	Geophysical Logger	1500 m winch capacity with multi parametric probes & calibration kit	2	Number	700.00
3	Ground Penetrating Radar	EM wave system. Capable to investigate at least 50m target depths	4	Number	240.00
4	Resistivity Imaging	Capable to investigate at least 80m depths having 48 channel capacity with roll over function	1	Number	60.00
5	Electromagnetic System	(Used for metallic mineral exploration.) Capable to investigate at least 50m target depths.	2	Number	100.00
6	Logging Probes (Induction, Gamma Ray Spectrometry & Magnetic Susceptibility)	Specialised component of geophysical loggers. The Probes should be compatible with existing GeoVista, RG and Century make Geophysical Loggers	3	Number	60.00
7	Accelerated Weight Drop (AWD)	(A nonexplosive source generator used in seismic survey) Capable to generate power to investigate up to 1000m.	2	Number	200.00
8	Truck	4 x 4 Wheel Drive	10	Number	200.00
9	Terrestrial Laser Scanner	Range: 4000 meters	4	Number	960.00
10	AAS/ICP/GC or similar Equipment for elemental analysis in trace amount	Use in Trace metal analysis and GC for Organic matter analysis	1	Number	80.00
11	Spares/Components/Sub-Assemblies related to Lab Equipments/ Geo-Technical Softwares	Spares, Components, Sub-Assemblies related to Lab Equipments & Softwares	-(As and when required)	Number	335.00
					<b>3,000.00</b>

### 3. FINANCIAL YEAR 2022-23

Sr. No	Description	Broad specification parameters	Quantity	Accounting Unit	Total Estimated Value of procurement (in lakhs)
1	Geophysical Logger	1500 m winch capacity with multi parametric probes & calibration kit	3	Number	1,050.00
2	Electromagnetic System	(Used for metallic mineral exploration.) Capable to investigate at least 50m target depths.	3	Number	150.00
3	Logging Probes (Induction, Gamma Ray Spectrometry & Magnetic Susceptibility)	Specialised component of geophysical loggers. The Probes should be compatible with existing GeoVista, RG and Century make Geophysical Loggers	3	Number	60.00
4	Truck	4 x 4 Wheel Drive	11	Number	220.00
5	Multi Utility Vehicle	Multipurpose utility vehicle	18	Number	134.00
6	Advance Research Petro logical microscope with Digital camera , Fluorescence attachment, photometer and Point counting stage with complete software and other accessories.	With digital camera,fluorescence attachment, Photometer along with Point counting stage with complete software and accessories for carrying out coal petrography.	1	Number	90.00

7	AAS/ICP/GC or similar Equipment for elemental analysis in trace amount	Use in Trace metal analysis and GC for Organic matter analysis	1	Number	80.00
8	Spares/Components/Sub-Assemblies related to Lab Equipments/Geo-Technical Softwares	Spares, Components, Sub-Assemblies related to Lab Equipments & Softwares	-(As and when required)	Number	216.00
					<b>2,000.00</b>

#### 4. FINANCIAL YEAR 2023-24

Sr. No	Description	Broad specification parameters	Quantity	Accounting Unit	Total Estimated Value of procurement (in lakhs)
1	Geophysical Logger	1500 m winch capacity with multi parametric probes & calibration kit	2	Number	700.00
2	Resistivity Imaging	Capable to investigate at least 80m depths having 48 channel capacity with roll over function	2	Number	120.00
3	Seismograph	360 channel capacity seismograph with 3D Capability	1	Number	300.00
4	Truck	4 x 4 Wheel Drive	6	Number	120.00
5	Unmanned Aerial Vehicle (UAV)/ Drone with payload sensors	Multi-copter, Endurance Time: Minimum 1 (One) Hour, Pay-load Capacity: Minimum 2 (two) Kg.	1	Set	400.00
6	Hydro-static Drill (To be purchased against survey off)	Hydro-static Drill	1	Number	250.00
7	Spares/Components/Sub-Assemblies related to Lab Equipments	Spares, Components, Sub-Assemblies related to Lab Equipments	-(As and when required)	Number	110.00
					<b>2,000.00</b>

#### 5. FINANCIAL YEAR 2024-25

Sr. No	Description	Broad specification parameters	Quantity	Accounting Unit	Total Estimated Value of procurement (in lakhs)
1	Geophysical Logger	1500 m winch capacity with multi parametric probes & calibration kit	2	Number	700
2	Resistivity Imaging	Capable to investigate at least 80m depths having 48 channel capacity with roll over function	2	Number	120.00
3	Magnetometer	Precision of at least 0.5 nT	3	Number	150.00
4	Gravimeter	Accuracy of atleast 1 milligal	1	Number	50.00
5	Truck	4 x 4 Wheel Drive	3	Number	60.00
6	Unmanned Aerial Vehicle (UAV)/ Drone with payload sensors	Multi-copter, Endurance Time: Minimum 1 (One) Hour, Pay-load Capacity: Minimum 2 (two) Kg.	4	Sets	1,600.00

7	Spares/Components/Sub-Assemblies related to Lab Equipments	Spares, Components, Sub-Assemblies related to Lab Equipments	-(As and when required)	Number	320.00
					<b>3,000.00</b>