

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 | Analyser - for measurement of Hg in ambient air | Use in mercury analysis in ambient air | 1 | Number | 100.00 |
| 8 | 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 |
| | | | | | 2,000.00 |

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 |

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| 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 | Spares, Components, Sub-Assemblies related to Lab Equipments | -(As and when required) | Number | 335.00 |
| | | | | | 3,000.00 |

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 | 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 | Spares, Components, Sub-Assemblies related to Lab Equipments | -(As and when required) | Number | 216.00 |

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| | | | | | 2,000.00 |
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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 |
| | | | | | 2,000.00 |

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 |
| | | | | | 3,000.00 |