

Technical Evaluation criteria for Coal Laboratory Instruments:

Research, Testing & Development (R,T&D) Technical Evaluation criteria	Documentation	RT&D Weighting Criteria and evidence %
Adherence to scope of work	<p>Specifications for :</p> <p>Carbon, Hydrogen and Nitrogen</p> <ul style="list-style-type: none"> It must be equipped with autoloader with 30 or more sample position. Instrument must provide compatibility to an external balance, printer, and Laboratory Information Management System (LIMS) with customizable transport feature supporting file, Ethernet, or serial data transporting. The instrument must use a combustion-based technique utilizing independent detectors for each element and sample throughput of 15 samples per hour on a full CHN Analysis. The instrument must be able to achieve Analytical Range: <ul style="list-style-type: none"> Carbon : 0.02 mg to 175 mg Hydrogen: 0.02 mg to 17 mg Nitrogen: 0.02 mg to 300 mg <p>Ash Fusion Temperature instrument:</p> <ul style="list-style-type: none"> The instrument must have an optional dual-configuration allows for simultaneous analysis of up to 12 samples. The instrument must be compliant to ASTM and ISO standards for ash fusibility analysis. Instrument must provide compatibility to an external balance, printer, and Laboratory Information Management System (LIMS) with customizable transport feature supporting file, ethernet, or serial data transporting. The Instrument must have a Coal analysis application note detailing the method settings, analysis procedure and typical results with statistics. <ul style="list-style-type: none"> Temperature Range: 400 °C to 1500 °C Temperature Precision: 1064 C ±5 °C Temperature Ramp Rate: Programmable from 4 °C to 20 °C/minute Ash Fusibility Determination: Automatic or manual (IT, ST, HT, FT) Analysis Time: Typical cycle time of 4 hours Image Collection: Digital with a resolution of 1280 x 1024 pixels Built-in furnace exhaust with active exhaust hose Built in CO monitor with auditory alarm, gas flow stopped on alarm 	<p>Instrument brochure with detailed specifications</p> <p>60%</p>
Lead time for delivery of the goods	<p>Two weeks and less 20%</p> <p>Three weeks 15%</p> <p>Four weeks or more 5%</p>	<p>Letter of commitment for delivery date</p> <p>40%</p>
Total		100%
Threshold		80%