

Bid Document

Bid Details	
Bid End Date/Time	25-07-2020 17:00:00
Bid Opening Date/Time	25-07-2020 17:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	70 (Days)
Ministry/State Name	Ministry Of Coal
Department Name	Materials Management
Organisation Name	Northern Coalfields Limited
Office Name	Nagpur
Total Quantity	1
Item Category	Water Quality Meters / Analyzers
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Bid to RA enabled	No
Inspection Required	No
Estimated Bid Value	50000

EMD Detail

Required	No
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ePBG Detail

Required	No
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Splitting

Bid splitting not applied.

Water Quality Meters / Analyzers (1 pieces)

Technical Specifications

* As per GeM Category Specification

Specification	Specification Name	Values	Bid Requirement (Allowed Values)
TYPE / NOMENCLATURE / PROTECTION	Type of Meter / Analyzer	Bench Type	Bench Type
	Functional nomenclature	Multi Parameter Water Quality Analyzer	Multi Parameter Water Quality Analyzer
	Ingress Protection (Main Unit)	IP 65	IP 65
	Calibration	Automatic	Automatic
MEASURED WATER QUALITY PARAMETERS	Dissolved Oxygen (DO)	No	No
	DO % Stauration	No	No
	Conductivity	Yes	Yes
	Resistivity	Yes	Yes
	Salinity	Yes	Yes
	Total Dissolved Solids (TDS)	Yes	Yes
	pH	Yes	Yes
	Oxidation Reduction Potential (ORP)	Yes	Yes
	Ammonium	No	No
	Nitrate	No	No
	Chloride	No	No
	Turbidity	No	No
	Depth	No	No
	Temperature	No	No
	Atmospheric Pressure	No	No
MEASUREMENT OF DISSOLVED OXYGEN (DO) / DO % Saturation	Dissolved Oxygen (DO) measurement Principle	Electro Chemical (Amperometric)	Electro Chemical (Amperometric)
	Sensor / Probe/ Electrode Type	NA	NA
	Measurement Range for DO Content (in ppm or mg/l)	NA	NA
	Resolution (in ppm or mg/l)	0.01	*
	DO Accuracy (+/-)	2	*
	Measurement Range for DO % Saturation (in %)	NA	NA

	Resolution (in %)	0.1	*
	DO % Accuracy (+/-)	2	*
MEASUREMENT OF CONDUCTIVITY (EC)	Conductivity measurement principle	Inductive	Inductive
	Sensor/ Probe/Electrode Type	2 Cell Electrode	2 Cell Electrode
	Material of Electrode	NA	NA
	Measurement Range (in $\mu\text{S/cm}$)	0-1000	0-1000
	Resolution (in mho or $\mu\text{S/cm}$)	0.01,0.1	*
	EC Accuracy (+/-)	0.1	*
MEASUREMENT OF RESISTIVITY	Resitivity measurement principle	Conductivity Conversion	Conductivity Conversion
	Lowest Measurement Value for Resistivity (in ohm-cm)	0	0
	Highest Measurement Value for Resistivity (in Mega ohm-cm)	10	10
	Resolution (in ohm-cm)	100	*
	Resistivity Accuracy(+/-)	1	*
MEASUREMENT OF SALINITY	Salinity measurement principle	NA	NA
	Measurement Range (in parts per thousand or g/l or PSU)	0-80	0-80
	Resolution (in g/l)	0.01,0.1,1	*
	Salinity Accuracy (+/-)	1	*
MEASUREMENT OF TOTAL DISSOLVED SOLIDS (TDS)	TDS measurement principle	NA	NA
	TDS Measurement Range (in parts per thousand or g/l)	0-200	0-200
	Resolution (in g/l)	0.01,0.1	*
	TDS Accuracy (+/-)	1	*
MEASUREMENT OF pH	pH measurement	Electro chemical	Electro chemical

	principle		
	Sensor / Probe / Electrode Type	NA	NA
	Number of Sensors / Electrodes	Combination Electrode (2 Electrode)	Combination Electrode (2 Electrode), Differential Electrode (3 Electrode)
	pH Measurement Range	0-14	0-14
	Resolution (in pH number)	0.01,0.1	*
	pH Accuracy (+/-)	0.002	*
MEASUREMENT OF OXIDATION REDUCTION POTENTIAL (ORP)	ORP measurement principle	Electro chemical	Electro chemical
	Sensor / Probe/ Electrode Type	NA	Platinum Electrode, Ion Selective Electrode (ISE), NA
	Number of Sensors /Electrodes	Combination Electrode (2 Electrode)	Combination Electrode (2 Electrode)
	Lowest Measurement Value for ORP (in mV)	0	0
	Highest Measurement Value for ORP (in mV)	2000	2000
	Resolution (in \pm mV)	0.1	*
	ORP Accuracy (+/-)	0.2	*
MEASUREMENT OF AMMONIUM	Sensor / Probe/ Electrode Type	NA	Ion Selective Electrode, NA
	Measurement Range (in ppm or mg/l)	NA	NA
	Resolution (in ppm or mg/l)	NA	*
	Ammonium Accuracy (+/-)	0	*
MEASUREMENT OF NITRATE	Sensor / Probe/ Electrode Type	NA	Ion Selective Electrode, NA
	Measurement Range (in ppm or mg/l)	NA	0-100, 0-200, 0-300, 0-400, 0-500, 0-600, NA
	Resolution (in ppm or mg/l)	NA	*
	Nitrate Accuracy (+/-)	0	*
MEASUREMENT OF CHLORIDE	Sensor/Probe/Electrode Type	NA	NA

MEASUREMENT OF TURBIDITY	Measurement Range (in ppm or mg/l)	NA	0-400, 0-600, 0-800, 0-1000, 0-1200, 0-1500, NA
	Resolution (in ppm or mg/l)	NA	*
	Chloride Accuracy (+/-)	0	*
	Turbidity measurement principle	NA	NA
	Light Source	NA	NA
	Measurement of scattered light	NA	NA
	Lowest Measurement Value for Turbidity (in FNU or NTU)	NA	NA
	Highest Measurement Value for Turbidity (in FNU or NTU)	NA	NA
	Resolution (in FNU or FTU)	NA	*
	Turbidity Accuracy (+/-)	0	*
MEASUREMENT OF TEMPERATURE	Sensor/Probe Type	Resistance Temperature (RTD) Detector	Resistance Temperature (RTD) Detector
	Lowest Measurement Value for Temperature (°C)	0	0
	Highest Measurement Value for Temperature (°C)	105	105
	Resolution (°C)	0.1	*
	Temperature Accuracy (+/-)	0	*
MEASUREMENT OF PRESSURE	Sensor /Probe Type	NA	NA
	Lowest Measurement Value for Pressure (in mmHg)	NA	NA
	Highest Measurement Value for Pressure (in mmHg)	NA	NA
	Resolution (in mmHg)	NA	*

	Pressure Accuracy (+/-)	0	*
MEASUREMENT OF DEPTH	Measurement Method	NA	NA
	Depth Measurement Range (in meters)	NA	NA
	Length of Cable connecting probe (inclusive in the scope of supply)	1	1.0
COMPENSATION / CORRECTION	Temperature correction	Automatically compensates for manual input value	Automatically compensates for manual input value
	Salinity Correction	Automatically compensates for manual input value	Automatically compensates for manual input value
	Barometric Pressure correction	Automatically compensates for manual input value	Automatically compensates for manual input value
DISPLAY / STORAGE	Type of Display	LCD	*
	Display Digit Size	0.3	*
	Number of Digits in Display	5	*
	Number of parameters displayed simultaneously	1	*
	Memory (in Data Sets)	500	*
	Internal memory (GB)	1	*
	In-built GPS	No	*
	Date /time Stamp in Entries	No	*
	Connectivity interface	USB	*
POWER SOURCE	Power Source	Mains (230 ±10 Volts / 50 Hz AC)	*
	Battery Size, if Non Rechargeable Battery	NA	*
	Battery Chemistry, if Rechargeable Battery	NA	*
	Voltage of each Battery	0	*
	Number of Batteries required for operation	0	*
	Number of Batteries Inclusive in the Scope of Supply	0	*
	Battery Capacity (mAh)	0	*

	Battery Life	0	*
	Suitable Adapter to be supplied to make the equipment Work on 230 V \pm 10 %, 50 Hz	Yes	*
GENERIC	Armour housing of Sensor / Probe	Rubberised metallic	*
	Probe / Sensor / Electrode supplied with equipment	Yes	*
	Number of elctrodes supplied	2	*
	Weight	1200	*
	Dimensions (mm x mm x mm)	-	*
	Carry Case included in the scope of supply	Yes	*
	Any other features	-	*
	List of Items and Quantity of each item included in the offer	-	*
OPERATING CONDITIONS	Minimum Operating Temperature	0	0.0
	Maximum Operating Temperature	60	60.0
	Operating Humidity, Rh at 40 deg C	65	65.0
WARRANTY	Warranty on Equipment	1	1.0
	Warranty on Probe / Electrode	6	6.0
	Warranty on Cables for Connecting Probe	1	1.0
CERTIFICATION	Availability of Test Reports from Central Govt / NABL approved / ILAC accredited Lab to prove conformity to the specification	No	No
	If Yes, Test Report to be furnished to the Buyer on demand	NA	*
	Test Report No and Date	-	*
	Name of the Lab and Address	-	*

- * Specifications highlighted in bold are the Golden Parameters.
- * Bidders may note that In respect of non-golden Parameters, the specifications 'Values' chosen by Buyer will generally be preferred over 'Bid requirement (allowed Values) by the Buyer.

Additional Specification Documents

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Abhay Kumar	440015,CMPDI CAMPUS, KASTURBA NAGAR, JARIPATKA, NAGPUR	1	60

Bid Specific Additional Terms and Conditions

1. Scope of supply (Bid price to include all cost components) : Only supply of Goods

[This Bid is also governed by the General Terms and Conditions](#)

---Thank You---