



Technical Specification of Flame Photometer

Specification No. CCMLT/FP/2013/01

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A. General Requirement:

SL NO	PARAMETER	BHEL SPECIFICATION
1	Item	Flame Photometer
2	Purpose	To measure sodium, potassium, lithium, calcium and barium elements respectively in a solution.
3	Scope of Supply	Supply of "Flame Photometer Equipment" including air compressor, all desired accessories (essential to run the equipment) for quantitative analysis of five elements, i.e., sodium, potassium, lithium, calcium & barium respectively and required software for capturing data and report generation in a windows-based PC.
4	Qualifying Requirement:	A. Manufacturers/ Principals of original equipment manufacturer/s should have supplied similar equipment/s for similar use in Industries / Institutions etc. B. Vendor shall provide 'performance certificate' from at least 'one of the end users' to demonstrate satisfactory operation of equipment /s for a period of at least one year.
5	Warranty	One year warranty from the date of installation/commissioning of the equipment at BHEL Lab
5	Technical Offer submission	Technical Offer should be submitted as per the format of this Technical Specification with desired information clearly mentioning in each parameter of the specification.

B. Technical Specification –wise Requirements:

SL NO	PARAMETER	BHEL SPECIFICATION
		I. Item: Flame Photometer
		II. Instrument Type: The Flame Photometer should be able to detect and display the results for the desired 05 elements simultaneously , i.e. sodium, potassium, lithium, calcium and barium respectively. The equipment should come with built-in compressor and auto-ignition features.
		III. Limits of Detection: a. Sodium: 0.01 ppm – 0.25 ppm b. Potassium: 0.01 ppm – 0.25 ppm c. Lithium, Calcium & Barium – to be specified by the vendor
		IV. Interference Filters: The system should come with built-in filters for all the above five elements, i.e., Sodium, potassium, lithium, calcium and barium respectively
		V. Calibration: Standard sample/s required for calibration shall be offered along with the equipment.
		VI. Software & PC interface: The equipment should have provision to transfer the data to a windows-based PC. The offer should include the DESIRED SOFTWARE for PC interface and data download to a PC and the software should facilitate the creation of data (data download) and reports. The configuration for the PC and printer should be specified and to be offered as optional item.
		VII. Fuel Type: The equipment should be compatible to LPG fuel.
		VIII. Accessories & Power: The equipment shall be offered with all the desired accessories, those are essential to run the equipment. Any exceptions, in this regard, should be mentioned in the offer. The equipment should be compatible to <u>Indian power supply standards</u> .
		IX. Spares: Mandatory Spares / Optional Spares are clearly to be mentioned separately in each category in the offer

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