

Addendum 02**Tender No. 2022-23/02****Equipment Bid No: GEM/2022/B/2265305 – High Resolution Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)**

Sl.No.	Specification	Range / Value	Revised Specification
1	Introduction	The ICP should be true simultaneous using polychromatic, in all aspects of measurements including simultaneous measurements of all analytic wavelengths, internal standard and background.	The ICP should be simultaneous background correction using double monochromator/polychromator
2	Optical System	The instrument shall be equipped with a high energy Echelle Cross Dispersion Spectrometer with focal length of less than 400mm & a “side by side” arrangement of prism and grating.	The instrument shall be equipped with a high energy Echelle Cross Dispersion Spectrometer with focal length of less than 400mm & a “side by side” or suitable arrangement of prism and grating
3	Optical System	Emission spectra shall be dispersed in both wavelength and order in a 2 dimensional array	Emission spectra shall be dispersed in both wavelength and order in a 2 dimensional array or in suitable mechanism
4	Plasma / Auxiliary / Nebulizer / Gases	Shear gas should be avoided for better resolution & sensitivity.	Not required
5	Plasma Viewing	The torch orientation should be horizontal and plasma shall be viewed axially as well as radially. Auxiliary optics shall be available to provide a radial plasma view.	The torch orientation should be horizontal or vertical and plasma shall be viewed axially as well as radially. Auxiliary optics or suitable mechanism shall be available to provide a radial plasma view.
6	Microwave Digestion System	Vendor should provide Microwave Digestion System for 8 positions	Vendor should provide Microwave Digestion System for 8 positions or more
7	Microwave Digestion System	Micro sample facility: Instrument should be offered with glass inserts minimum 100 number for carrying out digestion with 1ml acid and for micro sample. Minimum three years from date of installation	Not required
8	Local Accessories	Argon gas cylinders (01 no`s) with double stage regulator, Nitrogen gas cylinders (02 no`s) with double stage regulator	Argon gas cylinders (02 no`s) with double stage regulator, Nitrogen gas cylinders (01no) with double stage regulator
10	Calibration standards	1000 ppm of Each As, Hg, & Au Single Element Standard 100ml quantity	1000 ppm of Each As, Hg, & Au Single Element Standard 100ml quantity with NIST traceability

