



Ref: NCB/F-642/2016-2017 (N)

August 23, 2016

Addendum No:1

Ref. 1) : Tender Notice No: 011/2016-2017, 2): NCB/F-642/2016-2017 (N)

The following Addendum is issued to our Tender, under Reference No: **NCB/F-642/2016-2017 (N)** to **amend the Annexure A, Technical Specifications and Technical Evaluation Criteria with Marks.**

FOR:

ANNEXURE A – Specifications, FOURIER TRANSFORM MASS SPECTROMETER – Qty. 1 No.

Sl. No.	Features
1	FT-MS: The instrument must combine quadrupole, linear ion trap and Orbitrap mass analysis to provide in-depth coverage of complex proteome samples.
2	Multiple fragmentations: The instrument should be able to carry out multiple fragmentations techniques such as CID, ETD and HCD at any stage of MS ⁿ with fragment ion detection in either the ion trap or Orbitrap mass analyzer.
3	Probe for ionisation source: The instrument should have electrospray and nano electrospray ionisation sources and should be able to handle flow rates from 50 nl/min to 2 ml/min without splitting.
4	Scan functions: The instrument must be able to perform MS and MS ⁿ acquisition in parallel.
5	Quadrupole mass filter: The instrument should have a quadrupole mass filter that will enable filter precursor ion selection with precursor width from 0.4 – 1,200 amu. It should also provide precursor ion isolation with high transmission from 50 – 3,000 m/z.
6	Mass range (m/z): The instrument must have a mass range (m/z) of 50-2000 Da in normal mode and m/z 200-4,000 in high mass mode both in ion trap as well as Orbitrap.
7	Resolution and Mass accuracy: The instrument should have resolution up to 500,000 FWHM at m/z 200 and isotopic fidelity up to 240,000 FWHM m/z 200. The instrument must provide mass accuracy of <3 ppm RMS using external calibration and <1 ppm using internal calibration.
8	Scan rate: Scan rate must upto 20 Hz.
9	Dynamic Range: Dynamic range within a spectrum must be > 5,000.
10	Polarity switching: The instrument should be able to switch ionization mode polarity within 1.1 sec (one full scan in positive mode and one full scan in negative mode at resolution setting of 35,000)
11	Data System: The software must be robust instrument control software: User interface of the tune editor and method editor should be user friendly to allow easier instrument calibration and method development. It should contain a library of application specific templates for commonly performed analyses.
UHPLC for above MS	
12	Pumping Modules: Flow rate 20nl/min - 2000 nl/min, Independent nano pump for Sample introduction, Max Pressure upto 15,000 psi, Retention Time reproducibility:0.1-0.5% RSD
13	Autosampler (XL): Injection Vol Range 0.1 µl – 18 µl, for 20 µl loop, Injection Precision < 0.3% RSD full loop, carryover (UV) < 0.05%, sample capacity 54 vials, microtiter plate 96/384. LCD display with touch screen for independent run
14	Warranty and service support Five year on-site comprehensive warranty for all parts of the MS and accessories supplied. Free maintenance and service must be provided during warranty. Must include 3 preventive maintenance visits per year.

For and on behalf of
National Centre for Biological Sciences

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READ:

ANNEXURE A – Specifications, FOURIER TRANSFORM MASS SPECTROMETER – Qty. 1 No.

Sl. No.	Features
1	MASS SPECTROMETER: The instrument should have combination of quadrupole, linear ion trap and Orbitrap or similar mass analysis to provide in-depth coverage of complex proteome samples.
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3	Probe for ionisation source: The instrument should have electrospray and nano electrospray ionisation sources and should be able to handle flow rates from 50 nl/min to 2 ml/min without splitting.
4	Scan functions: The instrument must be able to perform MS and MS ⁿ acquisition in parallel.
5	Quadrupole mass filter: The instrument should have a quadrupole mass filter that will enable filter precursor ion selection with precursor width from 0.4 – 1,200 amu. It should also provide precursor ion isolation with high transmission atleast from 50 – 2,000 m/z.
6	Mass range (m/z): The instrument should have a mass range (m/z) of 50-2000.
7	Resolution and Mass accuracy: The instrument should have resolution above 400,000 FWHM at m/z 200. The calibrated instrument must provide mass accuracy of <5 ppm RMS.
8	Scan rate and dynamic range: Scan rate should be >10 Hz and dynamic range within a spectrum should be > 5,000.
9	Data System: The software must be robust instrument control software: User interface of the tune editor and method editor should be user friendly to allow easier instrument calibration and method development. It should contain a library of application specific templates for commonly performed analyses.
	UHPLC for above MS
10	Pumping Modules: Flow rate 20nl/min - 2000 nl/min, Independent nano pump for Sample introduction, Max Pressure upto 15,000 psi, Retention Time reproducibility:0.1-0.5% RSD
11	Autosampler (XL): Injection Vol Range 0.1 µl – 18 µl, for 20 µl loop, Injection Precision < 0.3% RSD full loop, carryover (UV) < 0.05%, sample capacity 54 vials, microtiter plate 96/384. LCD display with touch screen for independent run
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INFORMATION TO TENDERERS

FOR:

Technical Evaluation shall comprise of

TECHNICAL EVALUATION CRITERIA WITH MARKS		
Sl. No.	Features	Max marks
1	FT-MS: The instrument must combine quadrupole, linear ion trap and Orbitrap mass analysis to provide in-depth coverage of complex proteome samples.	15
2	Multiple fragmentations: The instrument should be able to carry out multiple fragmentations techniques such as CID, ETD and HCD at any stage of MS ⁿ with fragment ion detection in either the ion trap or Orbitrap mass analyzer.	15
3	Probe for ionisation source: The instrument should have electrospray and nano electrospray ionisation sources and should be able to handle flow rates from 50 nl/min to 2 ml/min without splitting.	5
4	Scan functions: The instrument must be able to perform MS and MS ⁿ acquisition in parallel.	5
5	Quadrupole mass filter: The instrument should have a quadrupole mass filter that will enable filter precursor ion selection with precursor width from 0.4 – 1,200 amu. It should also provide precursor ion isolation with high transmission from 50 – 3,000 m/z.	5
6	Mass range (m/z): The instrument must have a mass range (m/z) of 50-2000 Da in normal mode and m/z 200-4,000 in high mass mode both in ion trap as well as Orbitrap.	5
7	Resolution and Mass accuracy: The instrument should have resolution up to 500,000 FWHM at m/z 200 and isotopic fidelity up to 240,000 FWHM m/z 200. The instrument must provide mass accuracy of <3 ppm RMS using external calibration and <1 ppm using internal calibration.	10
8	Scan rate: Scan rate must upto 20 Hz.	5
9	Dynamic Range: Dynamic range within a spectrum must be > 5,000.	5
10	Polarity switching: The instrument should be able to switch ionization mode polarity within 1.1 sec (one full scan in positive mode and one full scan in negative mode at resolution setting of 35,000)	5
11	Data System: The software must be robust instrument control software: User interface of the tune editor and method editor should be user friendly to allow easier instrument calibration and method development. It should contain a library of application specific templates for commonly performed analyses.	5
UHPLC for above MS		
12	Pumping Modules: Flow rate 20nl/min - 2000 nl/min, Independent nano pump for Sample introduction, Max Pressure upto 15,000 psi, Retention Time reproducibility:0.1-0.5% RSD	5
13	Autosampler (XL): Injection Vol Range 0.1 µl – 18 µl, for 20 µl loop, Injection Precision < 0.3% RSD full loop, carryover (UV) < 0.05%, sample capacity 54 vials, microtiter plate 96/384. LCD display with touch screen for independent run	5
14	Warranty and service support Five year on-site comprehensive warranty for all parts of the MS and accessories supplied. Free maintenance and service must be provided during warranty. Must include 3 preventive maintenance visits per year.	10
	Total	100
<p>Technical evaluation will be carried out and Vendors who score ≥ 75% will qualify for Price Bid opening. Thereafter, Financial proposal shall be evaluated. The Commercially LOWEST BIDDER shall be first preferred Vendor for the award of Order</p>		

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INFORMATION TO TENDERERS

READ:

Technical Evaluation shall comprise of

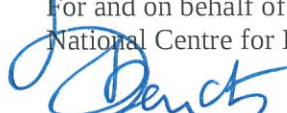
TECHNICAL EVALUATION CRITERIA WITH MARKS		
Sl. No.	Features	Marks
1	MASS SPECTROMETR: The instrument should have combination of quadrupole, linear ion trap and Orbitrap or similar mass analysis to provide in-depth coverage of complex proteome samples.	25
2	Multiple fragmentations: The instrument should be able to carry out multiple fragmentations techniques such as CID, ETD and HCD.	15
3	Probe for ionisation source: The instrument should have electrospray and nano electrospray ionisation sources and should be able to handle flow rates from 50 nl/min to 2 ml/min without splitting.	5
4	Scan functions: The instrument must be able to perform MS and MS ⁿ acquisition in parallel.	5
5	Quadrupole mass filter: The instrument should have a quadrupole mass filter that will enable filter precursor ion selection with precursor width from 0.4 – 1,200 amu. It should also provide precursor ion isolation with high transmission atleast from 50 – 2,000 m/z.	5
6	Mass range (m/z): The instrument should have a mass range (m/z) of 50-2000.	5
7	Resolution and Mass accuracy: The instrument should have resolution above 400,000 FWHM at m/z 200. The calibrated instrument must provide mass accuracy of <5 ppm RMS.	10
8	Scan rate and dynamic range: Scan rate should be >10 Hz and dynamic range within a spectrum should be > 5,000.	5
9	Data System: The software must be robust instrument control software: User interface of the tune editor and method editor should be user friendly to allow easier instrument calibration and method development. It should contain a library of application specific templates for commonly performed analyses.	5
UHPLC for above MS		
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TOTAL		100

Technical evaluation will be carried out and Vendors who score ≥ 75% will qualify for Price Bid opening. Thereafter, Financial proposal shall be evaluated. The Commercially **LOWEST BIDDER** shall be first preferred Vendor for the award of Order

All other terms and conditions of the Tender Documents remain unaltered. Please return the **Addendum No:1 dt.23/08/2016** with your signature, date & stamp and should be enclosed in the **sealed cover**.

The Addendum-1 is available in our **Web site - <http://www.ncbs.res.in/information/tenders.html> and also available in Central Public Procurement Portal, <http://eprocure.gov.in/cppp>.**

Thanking you,

Yours faithfully,
For and on behalf of
National Centre for Biological Sciences,

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