

Minutes of the Pre-bid Meeting

Minutes of the Pre-Bid Meeting for Procurement of scientific equipment under ICB for NCSCM, Chennai, held on 20.01.2014, 11.30 AM, at the Conference Hall of NCSCM, Chennai.

Members Present:

1. Dr.B.R.Subramanian, Senior Scientific Consultant, NCSCM – Chairman
2. Dr. D. Chandramohan, Senior Scientific Consultant, NCSCM
3. Dr. V. Kannan, Senior Scientific Consultant, NCSCM
4. Dr. Purvaja Ramachandran, Scientist G, NCSCM, Chennai
5. Dr.S.Srinivasalu, Associate Professor, IOM Anna University
6. Dr. R. Murugesan, (External Member), Scientific officer, SAIF, IIT Madras
7. Dr. V.Ravichandran, (External Member), Professor and Head, Dept. of Nuclear Physics, University of Madras
8. Mr.Alok Ranjan Samal, Manager Finance, NCSCM
9. Dr. Robin R.S, Scientist C, NCSCM
10. Dr. Dipnarayanan Ganguly, Scientist C, NCSCM
11. Dr. Gurmeet Singh, Scientist C, NCSCM
12. Mr. Pradeep Tripathy, Procurement Specialist, NCSCM

Representatives of Participating Firms:

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| 1. Mr. N S R Murthy | M/s. JCS services Pvt Ltd. |
| 2. Mr. Prashant Puranik | M/s. Thermo Fisher Scientific India Pvt Ltd. |
| 3. Mr. B. Patra | M/s. Thermo Fisher Scientific India Pvt Ltd. |
| 4. Mr. M. Sekar | M/s. Thermo Fisher Scientific India Pvt Ltd.. |
| 5. Mr. R. Elangovan | M/s.. Agaram Industries, Chennai. |
| 6. Mr. N. Suman | M/s.. Perkin Elmer (India) Pvt. Ltd. |
| 7. Mr. N. Rama Krishna | M/s. Electronic Enterprises Pvt Ltd |
| 8. Mr. Boban Zacharia | M/s. Spitzen Analytic Instruments Pvt Ltd |
| 9. Mr. Kamlesh Joshi | M/s. SVI Analytica Pvt Ltd |
| 10. Mr. Sanjay Sinha | M/s. AMS System Pvt Ltd |
| 11. Mr. Madhusudhan | M/s. First Source Impex Pvt. Ltd |
| 12. Mr. Balakrishnan | M/s. First Source Impex Pvt. Ltd |
| 13. Mr. C. Sudeesh | M/s. Advancetech control |
| 14. Mr. Sujit Sarkar | M/s. Advancetech control |
| 15. Mr. Bandy Pawhyar | M/s. Bruker Axis analytical instruments Pvt. Ltd. |
| 16. Mr. D. Senthil Kumar | M/s. Spectrics Technologies Pvt. Ltd. |
| 17. Mr. K G Dhandapani | M/s. IR Technology Pvt. Ltd. |
| 18. Mr. R. Padmanabhan | M/s. Agilent Technologies |
| 19. Mr. S. Sivaramakrishnan | M/s. Agilent Technologies |

The pre-bid meeting was held under the chairmanship of Dr.B.R.Subramanian, Senior Scientific Consultant, NCSCM, Chennai. The Chairman welcomed all participants to the meeting.

The participants were invited to present their queries for the various instruments for which tender were called for. In response to the queries and suggestions made by the prospective bidders, the response is appended as Annexure-A.

The prospective bidders were invited to participate in the bidding process after careful consideration to provisions of the bid document published and possible amendment subsequent to the present pre-bid meeting.

Schedule of Requirements-Lot 1. Technical Specifications - IRMS with Accessories			
S.No	Particulars	Queries	Clarification/ Response
1.	<u>Instrument generals:</u>	In the specification seven cups configuration has been asked. Can the manufacturers be allowed to define number of collectors for the specified application rather than defining 7 collectors?	Please refer to Amendment
2.	Point 2. Mass resolution:	In this technical specification of instrument it is mentioned as “For C, N, O: $m/\Delta m > 110$ (10% valley) and For H: $m/\Delta m > 10$ (10% valley)”. Can it be changed to “For C, N, O be changed to: $m/\Delta m > 100$ (10% valley)” and for “H : $m/\Delta m > 40$ (10% valley)”	For C, N, O, it has been changed as: $m/\Delta m > 100$ (10% valley) . However there is no change for H. Please refer to Amendment
3.	Point 10. Vacuum system:	In this technical specification of instrument it is mentioned as “Automatic, maintenance free turbo pumps (250 L/s) along with suitable rotary pumps (preferably Edwards or Hitachi) with no requirement of cooling water. ” Can the manufacturers be allowed to define capacity of Turbo Pumps for required vacuum of the system? Can differential pumping system included. Can “the provision for cooling for turbo pump bearing” be included in the specification?	The capacity of turbo pump has been removed as well as differential pumping system has been included. We prefer turbo pump without requirement of cooling Please refer to Amendment
4.	Point 11 Dual inlet system:	In this technical specification of instrument it is mentioned as “Viscous gas flow dual inlet system using a mono block design along with all metallic valves along with a turbo molecular pump for the waste line” can metallic valve be changed to suitable valve.	Please refer to Amendment
5.	Point 11 Dual inlet system:	Can the sample size and <i>micro</i> DI system explained in details ?	The sentence has been modified. Please refer to Amendment
6.	Point 12. Continuous flow system:	In this technical specification of instrument it is mentioned as High linearity at least 0.002 per mil/nA.. Can it be changed as “0.02 per mil/nA” ?	Please refer to Amendment

Schedule of Requirements-Lot 1. Technical Specifications - IRMS with Accessories			
S.No	Particulars	Queries	Clarification/ Response
7.	Point 15. Automatic carbonate sample preparing device:	In this technical specification of instrument it is mentioned “Carbonate preparation device with acid dosing valve with provision for at least 40 samples”. Can the number of position be changed to “atleast 40”	Please refer to Amendment
8.	Point 15. Automatic carbonate sample preparing device:	In this technical specification of instrument it is mentioned as “Minimum carbonate measurable shall be <20 µg. The device shall yield a precision (1 σ standard Deviation) of <0.04 and <0.06 for δ13C & δ18O respectively”. Can the sentence reframed to “The device shall yield a precision (1 σ standard deviation) of <0.04 and <0.06 for δ13C & δ18O respectively for Sample size ≤20 µg”?	Please refer to Amendment
9.	Point 16. Water Sample preparation device:	In this technical specification of instrument it is mentioned as “A fully automated water equilibration device for measuring i) dissolved inorganic carbon (DIC), ii) hydrogen and iii) oxygen isotopes in water and shall be compatible with dual inlet system. Can it be changed to CF mode as DIC is done using CF Mode by all manufacturers	Please refer to Amendment.
10.	Point 16. Water Sample preparation device:	Can the specification be modified as “It shall yield a precision (1 σ standard deviation) better than 0.8‰ (δD) for sample sizes of less than 1 µL range”	Suggestion for sample size of less than 1 µL range is not considered for amendment as this is not our requirement. Please refer to Amendment.
11.	Point 16. Water Sample preparation device	In this technical specification of instrument it is mentioned as “It shall yield a precision (1 σ standard deviation) better than 0.04‰ (δ13C) 0.8‰ (δD) & 0.06‰ (δ18O) ”. Can it be changed to System for Dissolved inorganic carbon (DIC) should be quoted and it shall yield a precision (1 σ standard deviation) better than 0.06‰ (δ13C) & 0.08‰ (δ ¹⁸ O)?. The precisions requested are on the higher side - hence it is requested to relax that a bit	The suggestion for relaxing precision is not considered

Schedule of Requirements-Lot 1. Technical Specifications - IRMS with Accessories			
S.No	Particulars	Queries	Clarification/ Response
12.	Elemental analyser for C,H,N and O for solid samples:	In this technical specification of instrument it is mentioned as “A fully automated high-precision flash combustion (~1400°C) Elemental Analyzer”. Can it be changed to 1400 °C	Please refer to Amendment.
13.	Point 20	Liquid nitrogen container: Suitable Liquid Nitrogen containers for operation of the system.	Please refer to Amendment.

Schedule of Requirements-Lot 2. Technical Specifications (HR-ICPMS)			
S.No.	Particulars	Queries	Clarification/ Response
14.	Difference in technology	ICP-QQQ combines the proven matrix tolerance and dynamic range capabilities of the 7700 Series ICP-MS with the incomparable power of MS/ MS for interference removal , Two Quadrupoles having unit mass resolution and achieve the resolution better than that of . The result is a unique analytical tool that can handle even the most difficult samples and applications for trace element/isotopic analysis of corals, marine sediments, seawater samples, for a wide range of concentrations. with ease.	No change in specification, as the requirement is based on the nature of our specific study. The technical committee does not consider MS/MS technique as a replacement of magnetic sector analysis technique.
15.	Instrument Generals	Resolution: (High Resolution System) with computer controllable resolution from almost 300 to greater than 10,000 at 10% valley. All resolutions can be switched in one analysis. 600 to 20,000 (FWHM). Resolution tuning should not be required.	Please refer to Amendment
16.	Mass Analyzer System	Scan Speed: (Magnetic) 7 to 240 to 7 amu in less than 150 ms. Scan Speed: (Electric) Less than 1 ms / jump irrespective of mass range or better	Please refer to Amendment
17.	User Safety:	User Safety: All areas of the instrument where the user has to access should be at ground potential for best safety.	Please refer to Amendment
18.	Laser ablation	point16 -please specify laser wavelength.	Wavelength: 213 nm.; Please refer to Amendment

Lot 3 – Wave length Dispersive X-ray Fluorescence Spectrometer WDXRF			
S.No	Particulars	Queries	Clarification/ Response
1.	X-RAY GENERATOR	In this technical specification of instrument it is mentioned Solid state high frequency generator with ratings of 60 -70 kV and 120-160 mA, with a minimum of 4.0 kW.Can it be changed toRequest you to please change it to 120-160mA or more.	Please refer to Amendment
2.	Column Oven	In this technical specification of instrument it is mentioned as ' Generator should not switch off and on during loading and unloading of samples on measuring position.'. Can this be changed to 'Our Generator DOES NOT SWITCH OFF during loading & unloading of samples on measuring position ?	Please refer to Amendment
3.	X-RAY TUBE	In this technical specification of instrument it is mentioned as 'Very thin Be window (less than 50 micron) for achieving maximum primary X-rays intensity and brilliance.'. Can this be changed to Request you to please change it to less than or equal to 50 micron.?	Please refer to Amendment
4.	Detector	In this technical specification of instrument it is mentioned as 'Six or more selectable channel masks should be made available to provide optimal peak to background ratios evaluation and eliminate radiation from sample holder/ masks'. Can this be changed to 'Request you to kindly change it to Three selectable channel mask?	Please refer to Amendment
		In this technical specification of instrument it is mentioned as 'Third sealed detector (Xenon sealed detector) must be part of the Spectrometer for analysis of elements Ca, Sc, Ti, V, Cr, Mn, Fe, Co, Ni, Cu and Zn for better LOD and maximum CPS (4400 KCPS). Can this be changed to 'Please delete the clause "Third detector" or accept equivalent technology.	Please refer to Amendment