

Rajasthan Medical Services Corporation Limited, Jaipur

Gandhi Block, Swasthya Bhawan, Tilak Marg, C-Scheme, Jaipur - 302005

Ph. No. 0141-2223887, Fax: 0141-2228065 CIN:U24232RJ2011SGC035067

E-mail: edepmrmsc-rj@nic.in Website: http://rmsc.health.rajasthan.gov.in

No. F-8() RMSC/EPM/M-2/18-19/NIB-411/ 3 62 A

Dated: 5-219

CLARIFICATION/CORRIGENDUM/ADDENDUM

Sub:- Revised bid Schedule and amended Technical Specification of the rate contract for ICP-Spectrophotometer with Accessories for under NIB No. F-8() RMSC/EPM/M-2/18-19/NIB-411/89 dated 09.01.2019

In reference to subject cited above and NIB-411, the representations received from the various firms and issues raised by the Bidders, are examined by the competent Authorities and technical committee and approved by purchase committee. The following Clarification/Corrigendum/Addendum is issued for inclusion in Bid document Amended Technical Specification of items as below:-

Revised Technical Specifications for ICP- Spectrometer with accessories:-

	Sample Introduction	Computer controlled Four channel peristaltic pump, Peltier cooled spray Chamber, low mist nebulizer				
	Sample Dilution	Software controlled Argon or aerosol dilution system or combination of argon and Liquid dilution system should be included. The system should be able to analyse samples of TDS up to 20%. Productivity mode configuration should be offered				
	Plasma	500-1500W or better				
	RF Generator	27 or 40 Mhz, as per system design If RF coil is a consumable then additional coils should be quoted separately				
	Alignment	Automatic and computer controlled				
	Plasma view & Gases plasma view	Programmable computer controlled all mass flow controllers' i.e nebuliser flow, auxiliary flow and plasma gas flow				
	Auxiliary Gases	Built in option with programmable computer controlled mass flow controllers				
	Ion Focusing, Cone interface setup & Gas	a. Universal cone interface for best sensitivity for high matrix as well as low matrix samples				
	cell modes	b. Collision cell technology to remove polyatomic interference: The system should have collision/reaction cell technology for effective removal of polyatomic and isobaric interferences. The collision/reaction cell must operate effectively in collision				
		mode, using pure helium gas. The system must have a dedicated gas line for reactive gas such as H2, O2, CH4, and NH3. The system must have the capability to use above				
28	2	gases in pure or premix form. The system should be operated in standards, Collision and reaction mode in a single run without changing any hardware parameter and this should be demonstrated post installation.				
12	Background noise and signal	Should be <1 cps				
en e	Interference Removal System	Should be equipped with best in line technology, capable of operating in standard, collision and reaction modes.				
a	Controls & features	Gas controls should be inbuilt and software controlled.				
1		a. Argon gas humidifier must be quoted along with main instrument.				
		b. Shield torch (if required) or suitable mechanism. (If shield torch is a consumable				
		then it should be clearly mentioned and additional shield torch should be quoted for five years of smooth operation)				
		c. The system should be able to analyze high matrix samples and high sensitivity mode without changing any hardware in the interface				
L	<u> </u>					

M



	16.7 6. 175. 375	cyclonic and should have capability of peltier cooling from -10°C to 20°C or better			
	Mass Analyzer	Hyperbolic or equivalent quad rods for required to achieve required sensitivity, detection limit, LDR etc.			
	Donge	2 – 285 amu or better			
	Range	3000 amu/sec or better			
	Scan Speed				
	Dynamic Range	Minimum 9 orders or more			
8	RF Frequency	minimum 2Mhz to maximum 3 Mhz			
	Mass calibration Stability	<0.05 amu over 8 hours of continuous operation			
	Heat Exchanger	Suitable re-circulating Chiller changer for plasma component cooling.			
	Guaranteed a. Detection Limit ng/L (ppt): Li or Be (low mas) < 0.5; In or Y (mid				
	Performance	Bi Or Ti (High Mas) < 0.2			
		b. Sensitivity Mcps/ppm: Li Or Be (Low mass) :>50 Mcps/ppm, Y or In (mid mass)			
		>200 Mcps/ppm & Tl Or U (High mass) >280			
		c. Oxide ratio.CeO+/Ce+ < 3 %			
		d. Doubly charge ratio :Ce++/Ce+ < 3%			
	۸	e. Isotope-ratio Precision: <0.1%RSD			
	Setup and Detection	All setup and tuning solutions quoted should be available.			
	Solutions				
_	System control and	The system should perform auto optimization of plasma parameters like plasma power			
	data acquisition	plasma gas flow etc. The instrument software shall allow auto - tuning to enable the			
		instrument to be used with the consistent and reproducible day to day performance			
		independent of the operator.			
		Acquisition mode: Peak Jumping, scanning, Time resolved analysis, Isotope Rati			
		measurements using integral software.			
		Analysis mode: Shall allow for semi quantitative analysis, external calibration an			
		internal standard addition methods for fully quantitative analysis, allowing parts pe			
		trillion level analysis and isotope ratio measurements with precision better than 0.2 %			
	at	Report Generation: Output results formatted in mixed concentration units e.g. ppt, ppt			
		ppm etc.			
	0	Quality control and software: Software for automated QA/QC during unattended			
		operation.			
	02	It must have all the features of CFR 21 Part 11 audit trials offered as standard.IQ/O			
	¥ *	kit to be included in the quote.			
		Offline data processing and exportability of data to other standard packages should be			
		available.			
		Matrix specific databases to provide preferred isotope selection should be available.			
		ICPMS should be compatible and capable to connect with ion chromatography to			
		perform speciation study in future if required. Preferably system should be capable to			
		control both IC and ICPMS through single software			
		control both ic and icrivis through single software			
	Vanuum Cristian	a. Suitable turbo molecular pump, corrosion resistant and protected			
	Vacuum System:	b. Automatic chamber vacuum isolation when plasma extinguishes			
		The state of the s			
	3.00	c. Automatic chamber vacuum isolation during system faults			
	market state of the control	d. The instrument should be operational for quantification within 3 hours from cold			
	0.40	start (Demonstration during performance qualification after installation)			
	Certified standard a. multielement EPA/water (02 Sets) ,1000 µg/mL Fe, K, Ca, Na, Mg,				
	a second was a second	Al, As, Ba, Be, Cd, Co, Cr, Cu, Mn, Mo, Ni, Pb, Sb, Se, Tl, V, Zn, Th etc.			
		b. Tuning solution kits should be supplied.			
	Software	Original OEM Software's in Installable CD/Image Disks with two licences for			
	1	operation and data analysis.			

D\\$\$\$_Vikas Kumar Kalwania\NIB-411 ICP\Corrigendum.docx Page No. 2



~		
	2	a. Should include all activation licenses/keys.
1		b. All analysis parameters should be software controlled within a single method
		c. Should control all operating components
		d. Functionality like Internal standard stability, QC checks, error flag
		e. Acquire and process data for quantitation in calibration curve fit modes
	Accessories	a. Dedicated Hydrofloric Acid (HF) kit with separate inert torch, injector, Spray
		Chamber, tubing's, nebulizer etc.
4		
		a. Gas cylinders for ICPMS- Argon (04 No.),
	THE VIEW THAT	b. He, H2 and NH3 gases cylinder (01 No each either in pre-mix or pure form.),
	45.4.24	c. Oxygen Gas cylinder (01 No),
		d. Gas purification panels with fittings for supplied gases,
		e. Two stage manual manifold for Argon gas,
		f. Suitable Fume hood/Exhaust system.
ŀ		g. Suitable online UPS with 1 Hr Backup.
¥		h.21/23 Multi-element NIST traceable standard.
	Consumables for	i. Standard Injector (03),
	ICPMS	ii. Oil Element /Mist Filter (02Set),
		iii. Standard Spray chamber (02 Set),
		iv. Standard Torch (04 Set),
		v. Peristaltic pump tubing for drain Pk/12 (04set),
w.E.	A STATE OF THE STA	vi. Peristaltic pump tubing for sample Pk/12 (04 Set),
	100	vii. Vacuum Pump oil for 5 years of smooth operation.
	= =	viii. Screw, Spacer & O-ring for cell (04) Set),
		ix. Tubing for drainage (04 set),
		x. RF coil (if consumable)(02 Set),
	P	xi. Pt skimmer and Pt sampler cone (02 set),
		xii. Ni slimmer and sampler cone (02 sets),
		xiii. Enhanced Metric Torch (EMT (01),
	Printed and the second	xiv. ICPMS Auto sampler 180 sample capacity or more vial with complete tubing set
		sample intake ,rinse& drain (02 set each), Auto sampler Injection Syringe/needle (02
		set) with 1000 Vials.
	Suitable/OEM	Suitable PC & Printer with suitable UPS of 60 minute backup time of reputed brands
	recommended PC	specification as under:
		Processor - Intel i7 Latest generation; RAM - 16 GB; Hard disk - 2 TB; Graphic
		Card; DVD writer; 23" TFT screen; LAN Port; USB 2.0 Ports (4 Nos.); Wi-Fi;
		Multimedia Keyboard; Optical Mouse
	Operating System	Windows 10/8 64 Bit architecture
	Printer	Laser Colour Printer Monochrome with duplex printing and LAN port.
	Documents and	Documents /Training and other notes:
	Training and other	(i) The equipment should be certified by European CE marking or UL marking.
	notes:	(ii)Should have safety certificate from a competent authority like CE/Equivalent or
		valid detail of electrical and functional safety test. Copy of the certificate/test report
		shall be produced along with the technical bid
-		(iii)Comprehensive guarantee period with spare parts for at least three years from the
}		date of installation.
		(iv)Instruction Manuals (Hard Copy or Soft copy as applicable) along with standard
		Operation Procedures (SOP) and appropriate Dust cover for the instrument.
		(v)Installation qualification (IQ), Operational Qualification (OQ) and Performance
		Qualification (PQ) documents should be provided at the time of supply of the
		instrument.
ĺ		
لـــــا		(vi)Satisfactory technical and application training to the personals at the site after

D:\\$\$\$_Vikas Kumar Kalwania\NIB-411 to P\Corrigendum.docx Page No. 3



	21	installation.
	* /	(vii)CMC will be given @5% of net rate-inclusive of GST (as applicable) & yearly
		escalation of 5% on last year's CMC price. The CMC may be awarded for five years
	₩ • • • • •	(on yearly basis) after completion guarantee period.
_	e e	(viii)Minimum of two routine maintenance services/inspections to be provided
		annually and any number of breakdown emergency calls should be attended during the
		guarantee period.
	44	(ix)Price quoted should be inclusive of their complete installation in all respects at site
	=	as per purchase order.
	· · · · ·	(x) Final technical approval only after demonstration of the quoted product.
		(xi)Any other perquisite required (if any) with specifications should be included with
		the instrument to run and complete the installation.

Revised bid schedule:-

E-bids are invited as per following revised time schedule:-

Existing Dates				Extended Dates		
Last Date for Sale of Bid Form	Last Date of Date of Opening Receipt of Bid of Technical Bi		711	Last Date for Sale of Bid Form	Last Date of Receipt of Bid Form	Date of Opening of Technical Bid
1	Form 2	3		4	5	6
11.02.2019 11:00 AM	11.02.2019 6:00 PM	12.02.2019 11:00 AM		14.02.2019 11:00 AM	14.02.2019 6:00 PM	15.02.2019 11:00 PM

Note:- Please note that all above amendments/corrigendum in technical specifications/bid conditions is the integral part of (Section-V, Schedule of Supply, and Point no. 3) and the bid document. This corrigendum/ addendum should be signed and annexed with bid document. All other terms & conditions remains the same.

This bears an approval of Managing Director, Rajasthan Medical Services Corporation Limited, Jaipur.

Executive Director (EPM) RMSCL, Jaipur