



Rajasthan Medical Services Corporation Limited

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

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F-8(220) RMSC/EPM/M-2/2020-21/NIB-444/186

dated: 03/11/2020

Order for Rate Contract

Item/Bidder status: Importer

Indicative Quantity: 01

S. No.	Item	Detail
1.	Name of Equipment / Item	ICP Spectrophotometer with accessories
2.	Name & Address of Firm	M/s 7 Steps Consultores Pvt. Ltd. F-17, 1 st Floor, Shri Jinkushal Suri Complex, Plot No. 230-A, Masjid Moth, South Ex Part II, New Delhi-110049 Email: consultant@7steps.co.in
3.	Make	ThermoFisher Scientific
4.	Model	iCAP RQ
5.	Packing Unit	Each
6.	R/C No. & Validity	(R.C. No 616 Valid upto 30.09.2022)
7.	Net Rate Per packing Unit (Rs.)	1,27,00,000.00 (Rs. One Crore Twenty Seven Lac Only) HSN Code 90278090
8.	RMSC Surcharge @5%	Rs. 6,35,000.00
9.	Rates for Supply to RMSC from Suppliers	
	(i) Basic Rate (In Rs.)	12700000.00
	(ii) IGST@ 18 % (In Rs.)	2286000.00
	(iii) CGST @ 0 % (In Rs.)	0.00
	(iv) SGST @ 0 % (In Rs.)	0.00
	(v) Approved Rate for Suppliers From RMSC {(i)+(ii)+(iii)+(iv)} (In Rs.)	14986000.00
10.	Rate for Supply To Consignee From RMSC	
	(i) Basic Rate (In Rs.)	12700000.00
	(ii) RMSC Surcharge @ 5% on (In Rs.)	635000.00
	(iii) CGST @ 9% {On (i)+(ii)} (In Rs.)	1200150.00
	(iv) SGST @ 9% {On (i)+(ii)} (In Rs.)	1200150.00
	(v) Approved Rate for Consignee From RMSC {(i)+(ii)+(iii)+(iv)} (In Rs.)	15735300.00
11.	Technical specifications of - ICP Spectrophotometer with accessories is :-	
	Inductively Coupled Plasma Mass Spectrometer (ICP-MS) system consisting of Plasma Ion source, Vacuum system, quadrupole technology, mass analyzer, Ion detection system along with software and other accessories.	
1	Sample Introduction :Computer controlled Four channel peristaltic pump, Peltier cooled spray Chamber, low mist nebulizer	
2	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	
3	Plasma RF Power Range :650 W to 1500W or better	
4	RF Generator : 27 Mhz or Better as per system design If RF coil or equivalent coil is a consumable then additional coils should be quoted separately	
5	Alignment : Automatic and computer controlled	
6	Plasma view & Gases plasma view :Programmable computer controlled all gas flow system i.e nebuliser flow, auxiliary flow and plasma gas flow	
7	Auxiliary Gases :Built in option with programmable computer controlled system or equivalent facility.	
8	Ion Focusing, Cone interface setup & Gas cell modes a. Interface for best sensitivity for high matrix as well as low matrix samples b. Collision cell technology to remove polyatomic interference: The system should have collision and reaction cell technology for effective removal of polyatomic and isobaric interferences. The collision and reaction cell must operate effectively in collision mode using pure helium gas. The system should be operated in standards, Collision and	

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03/11/2020



	reaction mode in a single run without changing any hardware parameter and this should be demonstrated post installation.
9	Background noise and signal : Should be <1 cps
10	Interference Removal System : Should be equipped with best in line technology, capable of operating in standard, collision and reaction modes.
11	Controls & features :Gas controls should be inbuilt and software controlled. 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 d. Spray chamber provided along with the instrument should be of scott double pass or cyclonic and should have capability of peltier cooling from -10°C to 20°C or better
12	Mass Analyzer :Hyperbolic or equivalent quad rods for required to achieve required sensitivity, detection limit, LDR etc. Dwell time 0.1 ms or better The system should be capable of analysing in both mass filter mode and mass shift mode.
13	Range : 2 – 285 amu or better
14	Scan Speed : 3700 amu sec or better
15	Dynamic Range : Minimum 10 orders more
16	RF Frequency : minimum 2Mhz to maximum 3 Mhz
17	Mass calibration Stability : <0.05 amu over 8 hours of continuous operation
18	Heat Exchanger :Suitable re-circulating Chiller changer for plasma component cooling.
19	Setup and Detection Solutions : All setup and tuning solutions quoted should be available.
20	System control and data acquisition The system should perform auto optimization of plasma parameters like plasma power, 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 Ratio measurements using integral software. Analysis mode: Shall allow for semi quantitative analysis, external calibration and internal standard addition methods for fully quantitative analysis, allowing parts per trillion level analysis and isotope ratio measurements with precision better than 0.2 %. Report Generation: Output results formatted in mixed concentration units e.g. ppt, ppb, ppm etc. Quality control and software: Software for automated QA/QC during unattended operation. It must have all the features of CFR 21 Part 11 audit trials offered as standard. 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.
21	Vacuum System : a. Suitable turbo molecular pump, corrosion resistant and protected b. Automatic chamber vacuum isolation when plasma extinguishes c. Automatic chamber vacuum isolation during system faults d. The instrument should be operational for quantification within 3 hours from cold start (Demonstration during performance qualification after installation)
22	Certified standard required:- a. multielement EPA/water (02 Sets) ,1000 µg/mL Fe, K, Ca, Na, Mg, 10 µg/mL Ag, 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. Multi-element NIST traceable standard
23	Software: Original OEM Software's in Installable CD/Image Disks with licences for operation and complete data analysis. a. Should include all activation licenses/keys. 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 should be available. e. Acquire and process data for quantitation in calibration curve fit modes
24	Accessories:- 1. Dedicated Hydrofluoric Acid (HF) kit with separate inert torch, injector, Spray Chamber, tubing's, nebulizer etc. 2. High Purity Grade Gas cylinders with double stage regulators for ICPMS- (a) Argon (04 No.). (b) Helium, Hydrogen, Ammonia and Oxygen Gas cylinder (01 No each) 3. Gas purification panels with fittings for supplied gases, 4. Two stage manual manifold for Argon gas. 5. Suitable Fume hood/Exhaust system.



	6. Suitable online UPS of 20 KVA of reputed brand only with one hour Backup for complete system.
25	Consumables for ICPMS :- i. Standard Injector (03), 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), vi. Peristaltic pump tubing for sample Pk/12 (04 Set), 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- only then) (02 Set), xi. Pt skimmer and Pt sampler cone (02 set) , xii. Ni slimmer and sampler cone (02 sets) , xiii. Electronic Multiplier Tube (EMT)-(01 Nos.) 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.
26	Suitable/OEM recommended PC :- Suitable PC & Printer of reputed brand only 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
27	Laser Colour Printer with duplex printing.
28	Documents and Training and other notes: (i) The equipment should be certified by European CE marking or UL marking. (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. (vi)Satisfactory technical and application training to the personals at the site after installation. (vii)CMC will be given @3% 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. (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. (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 prerequisite required (if any) with specifications should be included with the instrument to run and complete the installation.


Executive Director (EPM)

Rajasthan Medical Services Corporation Ltd.,
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Copy forwarded to the following for information & necessary action:

1. P.S. to Hon'ble Health Minister, Medical & Health Deptt. Govt. of Rajasthan.
2. P.S. to PHS, Medical Health & FW Deptt. Rajasthan, Jaipur.
3. PS to Pr. Secy/Secy, Medical Education Department, Rajasthan, Jaipur
4. P.S. to Mission Director NHM Jaipur.
5. PA to Managing Director, RMSCL
6. Director, (PH)/(Aids)/(FW)/(RCH)/(IEC)/(ESI).
7. Principal, Medical College, Ajmer, Bikaner, Jaipur, Jodhpur, Kota, Jhalawar & Udaipur.
8. Principal R.U.H.S. College of Dental Science Jaipur.
9. Principal, RUHS College of Medical Sciences, Jaipur.
10. Superintendent Japuriya Hospital Jaipur (Associated with RUHS College of Medical Sciences, Jaipur).
11. Superintendent, SMS Hospital, Zenana Hospital, MahilaChikitsalya, Mental Hospital, J.K. Lon Hospital, T.B & Chest Hospital, Jaipur.



12. Superintendent Associated Group of Hospital-Ajmer, M.G. Hospital, Jodhpur, Ummaid Hospital- Jodhpur, PBM Hospital-Bikaner, MBS Hospital-Kota & A.G. Hospital-Udaipur.
13. Director, Medical & Health Services (ESI), Mobile Surgical Unit, Raj. Jaipur.
14. Addl. Director, Medical & Health Services (PW)/ (RH)/(Hospital Admn.)
15. Joint Director, Medical & Health Services, (Zone) Jaipur, Ajmer, Udaipur, Jodhpur, Bikaner, Kota & Bharatpur.
16. All P.M.O.'s.
17. All CM&HO's.
18. All Dy. CM&HO's.
19. AGM (IT), RMSC, Jaipur.
20. M/s 7 Steps Consultores Pvt. Ltd., F-17, 1st Floor, Shri Jinkushal Suri Complex, Plot No. 230-A, Masjid Moth, South Ex Part II, New Delhi-110049 Email: consultant@7steps.co.in
21. Guard File.

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