Rajasthan Medical Services Corporation Limited, Jaipur
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No. F-8(M1/)RMSC/EPM/R.C. 13-14/NIT No.-18/2013/467 Dated: 12.3.13

Corrigendum/Amendments/Clarifications
(NIB No. 18)

Subject: - **Amended technical Specifications and other conditions of Bid document after Pre-Bid dated 19/02/2013, for the tender of Equipment & Instruments, under NIB No. F-8(M1/) RMSC/EPM/R.C. 13-14/NIT No.-18/2013/343 Dated: 08/02/2013**

Reference: - **Pre Bid Conference held on 19/02/2013**

In Reference to above sited subject and NIB, The pre-Bid meeting of NIB no.-17 was held on dated 19.02.2013. The various representations received from the firms and issues raised by the Bidders are examined by the competent Authorities and technical committee. The following Corrigendum/ Amendments/ Clarifications are issued for inclusion in Bid document & Technical Specification of items (Annexure-c) as below

1. **Last Date for Sale of Bid, Date of Receipt of Bid & Date of Opening of Technical Bid is hereby extend as below:-**

Existing Dates			Extended Dates		
Last Date for Sale of Bid Form	Last Date of Receipt of Bid Form	Date of Opening of Technical Bid	Last Date for Sale of Bid Form	Last Date of Receipt of Bid Form	Date of Opening of Technical Bid
1	2	3	4	5	6
14/03/2013 upto 6.00 P.M.	15/03/2013 Upto 1.00 P.M.	15/03/2013 From 3.00 P.M.	02/04/2013 upto 6.00 P.M.	03/04/2013 Upto 1.00 P.M.	03/04/2013 From 3.00 P.M.

2. **The terms and conditions of Bids and rate contract no. 9 of Annexure-B is amended as below. The Bid form fee, processing fee and bid security shall be submitted through either of the below given options :**
   (i) Bid security , Bid form fee and processing fee shall be deposited through three separate prescribed challans (format enclosed in annexure-1) in any branch of the **Punjab National Bank, Account no. 2246002100024414 throughout the country**. The bidders shall submit scanned copy of the challans in Technical Bid (Cover-A).

OR

The Tender form fee Rs. 2000.00 (Rs. 1000.00 for SSI Units of Rajasthan) downloaded from the website shall be submitted in the form of D.D./Banker cheque in favor of M.D., RMSCL payable at Jaipur. The bidders are also required to deposit processing fee of Rs. 1000.00 in the form of D.D./Banker cheque in favor of M.D., RISL payable at Jaipur. The Tender fee, processing feeand EMD shall be deposited physically at the office of M.D., RMSCL, Jaipur before the last date and time of bid submission.

3. **It is clarified that the average annual turnover for a particular item shall be as per table-1 provided at point no.-5 of general instruction to bidders.**
   The Average annual turnover shall be as per Table-1 for last three years and minimum 50.00 lacs for SSI units of Rajasthan for last three years. The turn over statement duly certified and signed by Chartered Accountant & Attested by Notary Public shall be submitted along with bid. Failing to specified turnover criteria bid will be rejected. Distributors/Suppliers/ Agents/Loan Licensees are not eligible to participate in the tenders.

4. **The clause no. 28. of Annexure-B the procuring entity's right to vary quantity is amended as given below:**
   (i) The quantity of equipments originally indicated in the bidding document may vary without any change in the unit prices and other terms and conditions of the bid and the conditions of contract.
   (ii) If the RMSCL procures less than the quantity indicated in the bidding documents the bidder shall not be entitled for any claim or compensation except otherwise provided in the conditions of contract.
   (iii) If the Bidder fails to supply the RMSCL shall be free to arrange/procure the items and the extra cost incurred shall be recovered from the Supplier.

5. **The security deposition at clause-17 of Annexure-B is amended and clarified as under:**
   (i) All firms whose offers are accepted will have to deposit a security of minimum Rs. 5.00 lacs for each item in favor of M.D., Rajasthan Medical Services Corporation Ltd., Jaipur at the time of agreement. The SD shall be deposited in the form of DD/Banker cheque/ BG. However the minimum amount of BG shall be 10.00 lacs with a validity period of 30 months. The security amount shall in no case be less than the earnest money.
   (ii) The firm may submit Bank Guarantee issued by any nationalized bank. The minimum validity of bank guarantee should be thirty months or up to 6 months after completion of guarantee period of item.
   (iii) The S.D. shall be 5% of the total value of stores ordered for supply. If the total value of stores supplied by the firm to various consignees as directed by M.D. RMSC Ltd., Jaipur is exceeded 100.00 lacs, the firm shall deposit an additional 5% security of value of supply orders exceeding amount to 100.00 lacs to M.D., Rajasthan Medical Services Corporation Ltd., Jaipur. Before ensuring the security deposit, the Purchase Officer will not release payment until the additional S.D. amount deposited by the suppliers. Additional S.D. shall be estimated/calculated based on the information submitted by firms in statement no. I and II. Supply orders should only be placed after appropriate deposition or adjustment of S.D. by RMSC.
   (iv) The earnest money (bid security) of successful Bidder will be adjusted toward security deposit. The bidders shall submit scanned copy of the challan/DD/Banker cheque in Technical Bid (Cover-A).

(iv) The security will be refunded after six months from the date of expiry of the contract on satisfactory completion of contract and after satisfying that there are no dues outstanding against the Bidder subject to CMA provisions.

6. **The clause-36 of Annexure-B grievance redressal during procurement process is amended as under:**
   (1) The Designation and address of the First Appellate Authority is The Secretary, Department of Medical & Health (MD, NRHM), or as decided by the Govt. of Rajasthan.
   (2) The Designation and address of the Second Appellate Authority is Principal Secretary, Medical, Health & Family Welfare, Govt. of Rajasthan and Chairman, RMSCL, or as decided by the Govt. of Rajasthan.

7. **The point three of Annexure-L the offering conditions of the firm are amended and clarified as under :**
   (g) Firms Offering Conditions:-

• Response time	48 Hours after first contact
• Service hours	Mon-Fri (09:30-18:00)
• Preventive Maintenance (PM)**	At least two half yearly or any number
• Parts for Preventive maintenance	All, as per requirement free of cost during guaranty period
• Up time	95% (346 Days)
• Breakdown	All
• Technical & Application Support Session	As required
• Demonstrations & Trainings	As & when required

Note:** PM Includes Quality Assurance, Safety checks and calibration

8. **The point no.-8 of Annexure-L the liquidated damages are amended and clarified as under :**

(i) The Supplier/service providing firm shall be liable to pay a penalty of Rupees five Hundred per day **(Varies from equipment to equipment)** if the firm didn't response after 48 hours from the time of receiving first complain. The complaint may be sent to firm by way of telephone/fax/letter or e-mail. The amount of L.D. will be directly deducted from the S.D. of the firm at the time of refund or before by way of any adjustment order.

(ii) During breakdown of equipments/machine firm will depute the engineer for immediate rectification of defect within 48 hours positively otherwise equipment may be got repaired on the risk & cost of firm.

9. **The declaration of Annexure-N is amended as- The word 'black listing' is replaced by the word 'debar'**

10. **A new Annexure P-1 is inserted as given below :**

(Shall be submitted on letter head of firm) **Annexure-P -1**

Date:_____

NIB No.:_____

Declaration

I/We a legally constituted firm/body_____ and represented by_____ declare that I am/ we are Manufacturers/Direct Importer in the Goods and Related Services for which I/We have Bid.

If this declaration is found to be incorrect then without prejudice to any other action that may be taken, my/our Bid Security may be forfeited in full and the Bid if any to the extent accepted may be cancelled.

Signed.....

Name.....

In the capacity of: .....

Duly authorized to sign the Authorization for and on behalf of.....

.....

Tel: .....

Fax: .....

E-mail: .....

Date: .....

11. **The Annexure-Q is amended as under**

I.....S/o.....Aged.....Yrs.....residing at ..... Proprietor/Partner/Director of M/s..... verify and confirm that the contents at **Annexure (A) to (P-1)** above are true and correct to the best of my knowledge and nothing has been concealed therein. May, God help me.

Signature of Bidder.....

Name:.....

Address:.....

12. The following amendments/modification are made as suggested by Bidder's during pre-bid meeting in Annexure-D:

Revised-ANNEXURE- D

Rajasthan Medical Services Corporation Limited, Jaipur

FINANCIAL BID FOR QUOTED ITEM NIB NO.-18

Code No.	Name of Item With full Specification	Brand	Approx Qty.	Packing Unit	Net Rate Per packing Unit (In Rs.)	Rate of RST (VAT) or Concessional CST against C-from, if applicable	Rate of Excise duty (It should be included In net Rate) (Col, 6)	Amount of excise duty workout accordingly Col.No. 8	Total rates (Rs.) (6+7)	Maintenance charges/ Rates for Ist year (Rs.)	Maintenance charges/ Rates for IInd year (Rs.)	Maintenance charges/ Rates for IIIrd year (Rs.)	Maintenance charges/ Rates for IVrth year (Rs.)	Maintenance charges/ Rates for Vth year (Rs.)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
LEA006	(A)THREE PART AUTOMATIC HEMATOLOGY ANALYZER (BLOOD CELL COUNTER)		495	Each										
	(B)DILUENT			20 LITERS										
	(C)LYSE			Vary										
	(D) CLEANER			100 ml										
	(E) CONTROL			1X5 ml										
	(F)Calibrator													
	(G) Any 0ther as per requirement of equipment													
LEA007	(A)FIVE PART DIFFERENTIAL HEMATOLOGY ANALYZER (BLOOD CELL COUNTER)		141	Each										
	(B)DILUENT			20 LITERS										
	(C) LYSE			Vary										
	(D) CLEANER			100 ml										
	(E)CONTROL			1X5 ml										
	(G) Any 0ther as per requirement of equipment			---										

LEA008	SEMI AUTO BIO CHEMISTRY ANALYZER		348	Each											
LEA009	(C) FULLY AUTOMATED CLINICAL CHEMISTRY ANALYZER (MEDIUM SPEED)		291	Each											
LEA009	(D) FULLY AUTOMATED CLINICAL CHEMISTRY ANALYZER (HIGH SPEED)		5	Each											
Rates shall only be filled in BOQ on https://eproc.rajasthan.gov.in (Not to be disclosed here)															

For comparison of rates the average comprehensive annual maintenance charges per year shall be added to the total rates (Column No. 10) of equipments, if CAM (Comprehensive Annual Maintenance) is applicable. The rate of one standard pack shall be added in equipments rates for comparison in LEA006 & LEA007 & firm shall also give rates of control, calibrators and spare parts and rates analysis per test sheet. This information shall be submitted physically at the time of sampling/demonstration in a separate sealed envelope to RMSC. Pack size of automated equipment reagents may vary.

Signature
Name in Capitals
Company / Firm Seal

Date

NOTE: -

1. The concessional cst against c- form shall be applicable.
2. The rate quote should be inclusive of excise duty but exclusive of sales tax/vat.
3. Excise component should be separately shown in column no.8 for further reference.(see condition no. 14.(v) etc.
4. Rate should be quoted on separate sheets for each item. (see condition no. 5)
5. Rate should be quoted only for packing units as mentioned in the tender catalogue.
6. No quantity or cash discounts should be offered.
7. Read all the terms & conditions before filling the annexure-d.
8. Please quote rates of maintenance charges after guarantee period, if applicable for the item.
9. Please quote rates in absolute amount only.
10. Please enclose the rate list of reagent, consumables & spares for making supplies to rmsc in annexure- 1 (point-6)
11. Firm is also required to submit cost analysis details / report of per test with all required documentary evidences
12. T.C. may ask for any technical information from the bidder to evaluate the equipment.

13. APPLICABILITY OF CLAUSES:- All the clauses from 1 to 48 and their annexure, formats & enclosures and their amendments are applicable for the tendered items.

14. THE TECHNICAL SPECIFICATIONS ARE AMENDED/REVISED AS UNDER AS DECIDED BY T.C.

Sr. No.	Code No.	Amended/Revised Technical Specification	Packing Unit	Quoted Item YES/NO
1	2	3	4	5
1	LEA006	**Three Part Automatic Hematology Analyzer** **(Blood Cell Counter)** • It should be 3 part fully automatic hematology analyzer with 18 parameters (WBC, RBC, Hb, HCT, MCV, MCH, MCHC, RDW, PLT, MPV, MCT, PDW, Gr% Gr#, Ly%, Ly#, Mo%, Mo# with three histogram). Histogram interpretation booklet of the same company for model quoted should be provided. • Method – Principle of cell counting by impedance and selective lysing - Hb by cynanide free liquid, photometry • Instrument should have dual chamber for RBC & Platelets, WBC & Hb. • Sample volume range less than 100µl whole blood. • Through put 60 samples/hrs. Use only 3 reagents diluents, lyse, cleaner with automated cleaning of sample probe and reagents should be in compact pack • Linearity of the parameter should be; • WBC – 0 to $100X10^3/mm^3$; RBC – 0 to $7X10^6/mm^3$; HGB – 0 to 25gm/dl; HCT – 0 to 80%; PLT – 0 to $999X10^3/mm^2$. • It should have inbuilt printer. Facility for external printer should be provided. • It should be US-FDA approved/ CE98/791CE directive or ISO 13485:2003. • The firm should have their own quality control and calibrators and extensive QC features. • Firm must have various zonal office at district based engineer. Service should be provided within 24 hrs of breakdown call. List of engineers together with their contact numbers should be given. • 0.5KVA UPS with 30 minutes backup should be supplied with equipment. • Firm should submit list of user quoted model in Rajasthan particularly from reputed Lab/ Govt. Lab performance report will be considered. • It should have USB port OR RS232 port for data transmission. • Equipment should be pest proof. • Cost of reagents of start up, shutdown and cost of controls per cycle per test cost should be mentioned separately and shall be considered apart from cost of equipment should be mentioned in financial bid. . • CAMC for 3 yrs after expiry of 2 yrs guarantee period – Either manufactures or importer in India can quote the tender certificate of authorization should be enclosed. • Free reagents for star up, minimum of 1000 tests should be provided, with a set of controls with the equipment at time of installation. • UPS of with minimum half an hour backup AC 1.5 tonn should be provided. • Technical final approval after demonstration. **Note:** – Each firm should provide original Broucher for the equipment with detail specification. Other features should be on letter head of the company not from distributor.	Each	

2	LEA007	**FIVE PART DIFFERENTIAL HEMATOLOGY ANALYZER (BLOOD CELL COUNTER)** • The instrument should be fully automated Fluorescence/optical based flow cytometry Laser based 5-part differential hematology analyzer offering automatic start-up, shutdown and sample-analysis. • The instrument should have random access discrete analysis modes for CBC and CBC+DIFF. • The instrument should have 24 PARAMETERS reported: • WBC, RBC, HGB, HCT, MCV, MCH, MCHC,RDW-SD, RDW-CV , PLT, NEUT %, LYMPH %, MONO%, EOS %, BASO %, NEUT #, LYMPH #, MONO #, EOS #, BASO #, PDW, MPV, PCT, P-LCR(OPTIONAL) • SPECIAL RESEARCH PARAMETERS-IG%, IG#/atupical/lymphocyte and immature cells in % # • THREE HISTOGRAMS – WBC, RBC, PLT. • ONE SCATTERGRAMS - DIFF. • The instrument should have throughput of 80 samples per hour in both the discrete analysis modes. • The instrument should be capable to differentiate all five parts of WBC population in one channel. Linearity of WBC should be from 0.02 to 4,00,000 cells / µL. WBC differentiation should be using three angles scattered light detection with advanced flexible (not fixed) gating system. • The instrument should have Hydrodynamic focusing impedance method for RBC/PLT channel which should be separate from optical flow-cell for easy removal of clog removal. Linearity of PLT should be from 5 to 20,00,000 cells / µL. • The instrument should have Cyanide free SLS-/colorimetric method for the hemoglobin measurement using long life LED not tungsten lamp. • The instrument should have semiconductor laser based flow cytometry or peroxydase or optical light absorbance method for WBC Differential with specific staining to stain nucleic acid content of cells which generate fluorescence to differentiate between abnormal cells and normal cells. • The instrument should have Comprehensive information processing system using separate branded computer system with colour LCD 15" monitor LASER Printer and TCP/IP-LAN connectivity. • User friendly Windows XP based software. • Network integration possible with Lab Information system and USB and RS 232port and barcode reader.. • 10000 sample data with histogram and scatter grams storage. • 5000 patient information storage. • 21 QC files each with 300 points for QC can be stored. • The company should have its own quality control, reagents and calibrators and should have its own manufacturing units & RD win. A certificate of which shall be enclosed. • 1000 test order information in memory. • The instrument should have EXTENSIVE QC FEATURES and Option for online QC also available. • The company supplying the instrument should have a good track record and excellent service and distributor network all over India & Engineer should be locally based in various cities in Rajasthan to provide prompt services. (List of engineers working in raj.) • Company should install UPS having 30 Min back up and a window AC of 1.5 ton with the instrument. • Cost of instruments, Reagents and consumables will be considered separately. • Installation list (user list of quoted model) should be provided along with tender. • Free reagents for start-up (With standard pack size). Minimum of 800 tests should be provided at time of installation. • Technical final approval after demonstration. Note: Each firm/Company should provide Boucher of the equipment with detailed specifications and all accessories should be quoted on	Each	

		the letter head of manufacturer/Importer not on letter head of local distributor.		
3	LEA008	**SEMI AUTO ANALYZER :** 1. Analyzer – semi automated bench top device using wet chemistry reagents. 2. Analyzer should have ability to use both external cuvettes and integrated flow cell. 3. Analyzer should have direct test access keys on the key board for routine chemistry parameters. 4. Analyzer should have more than 190 programmable channels. 5. Analyzer must have key board with water proof membrane. 6. Analyzer must have following assay types: • 1-Point (End Point), 1-Point with sample blank • 2-Point (Fixed Time) • Rate-A (Kinetic) • Absorbance Measurement. 7. Analyzer must have following calibration types: • Linear, Two Point • K Factor • Log-Logit. 8. In kinetic assays, measurement interval should be 1 second. 9. Analyzer must have storage for three different calibration for each chemistry. 10. Three level controls (QC) with day to day Levey Jennings chart stored and displayed. 11. The flow cell must be Quartz. 12. The flow cell must have an optical path of 10 mm. 13. The flow cell volume should be less than 20 µl. 14. Measurement temperature range should be from 20-40 degree C with variable 1 degree C increment. 15. Analyzer must have following wavelengths as standard: • 340 nm, 415 nm, 510 nm • 546 nm, 578 nm, 600 nm • 660 nm, 700 nm 16. Analyzer should have absorbance range from 0.00 – 3.0 Abs units. 17. Analyzer resolution must be 0.0001 Abs. 18. Analyzer detector should be more than 12 bit silicon photo diode. 19. Analyzer must store 1000 results. 20. Analyzer must store reaction graphs for previous 10 samples. 21. One year QC data can be stored. 22. Internal thermal printer should be available. 23. Analyzer should be capable to do multiple testing up to 3 replicates. Should display mean. SD, CV. 24. Measuring time programmable from 2-998 seconds for kinetic & two point type tests and delay from 0-999 seconds. 25. Analyzer should have semi-automatic aspiration of reaction mixture directly into flow cell using peristaltic pump. 26. Analyzer should be able to perform HbA1c testing. 27. The system should be quoted with standard one year guarantee and CAMC for next three years should be quoted, after guarantee period. 28. Demonstration of functionality should be arrange at Jaipur. 29. USFDA approval is must, certificate be enclosed.	Each	

4	LEA009	**(C) Medium Speed Auto analyzer :** 1. The Equipment must be a Random Access compact System: The instrument should be capable of all routine, STAT and special biochemical tests including specific proteins, therapeutic drugs (TDM), drugs of abuse, immuno-turbidimetric Assays, nutritional status and user definable applications. 2. It should be Open System with options of Bar-coded reagents for Automated Online Reagent Inventory, Stability, and Expiry Checks. 3. Throughput more than 500 tests per hour with ISE (Minimum 400 Photometric) 4. Must have Direct ISE unit for Na, K & Cl measurement. Life time of ISE electrodes should be up to 6 months or 10000 samples. 5. Must have minimum reaction volume up to 150 µl. 6. Must have self diagnostic tests with error message & online display. 7. Analyser must be flexible enough to enable loading variety of sample tubes and cups. 8. Must have built in cooled Reagent Compartment to maximize reagent stability & have at least 50 positions for reagents. 9. Must have continuous loading of samples facility. 10. Must have on board capacity of at least 80 permanent and numbered cuvettes (results matched to cuvettes) with 5 year service life. 11. Must have separate reagents probe for R1 and R2. 12. Calibration options must be Linear, Factor, 2 Point, Point to Point, Log-Logit, Spline and Exponential with Maximum number of calibrators per test up to 7 calibrators for multipoint and option of Automatic calibration interval. 13. Should have both internal & external Probe cleaning/washing facility. 14. Sample type & capacity must be Serum, Plasma and Urine, CSF and supernatant with capacity of at least 70 samples position for routine, stat samples. 15. Sample Dead Volume and pipetting must be 100 µl in primary tube and 50 µl in paediatric cups. Dedicated sample micropipette with liquid level sensor, crash detection, bubble detection and clot detection. Rinsed inside and outside with purified water. 16. Should have onboard laundry system with at least 5 steps washing system. 17. System should have inventory management system. 18. Provision for automatic checking of serum indices (haemolytic, icteric, lipemic/turbid) should be available. 19. System should have 12 different wavelengths (340, 380, 415, 450, 510, 546, 570, 600, 660, 700, 750 and 800 nm) generated through diffraction grating. 20. System should have provision to store Multiple Reference Ranges up to 40. 21. System should have Separate Dedicated PC System, system compatible. Windows Based Software interface, bi-directional connection to host interface. 22. System should have ability to perform automatic re-runs with increased, decreased or diluted sample volume. 23. System should allow programming of up to 15 different set panels of tets. 24. System should have auto start/shut off facility. 25. It should have sample bar code reading facility. 26. It should meet all relevant internationally recognised accreditation such as FDA, CE, and UL approval. 27. It should have halogen tungsten light source with minimum 1000 hours service life. 28. Online QC Tracking with Levy & Jennings Charts for up to 30 different controls and enabled with dedicated peer group reporting software should be available. 29. It should be able to perform serial dilution for calibrator. 30. The Software should have the provision to store reaction and calibration curves, raw data can be viewed and printed in table or graph format. 31. Graphical user interface software, Software must be user friendly with LIMS Capability. 32. Should have at least 20,000 patient result storage. Complete back up of the system database should be possible for calibration control	Each	

		and patients sample results. 33. The system should be able to perform HbA1c testing. 34. The system should have an installation base of minimum 25 systems across in Government/Semi Government/Corporate /private establishments, in India. 35. The system should be supplied with suitable UPS with 30 minutes battery backup and 2 Ton A.C. with Stabilizer. 36. The system should be supplied with suitable external printer. 37. The system should be supplied with suitable water purification system. 38. The system should be quoted with standard one year guarantee and CMC for next three years should be quoted, after guarantee period. 39. Demonstration of functionality should be arranged at Jaipur. 40. Service back up should be available within 24 hours after which penalty of Rs. 5000 will be imposed for each passing day, company should have Jaipur based Engineer.		
5	LEA009	**(D) High Speed Auto Analyzer :** 1. It should be Fully Automated, Fully-Open Random Access Biochemistry Analyzer with STAT testing capability. 2. The Instrument should be capable of all routine and special biochemical tests including Specific Proteins, Therapeutic Drug Monitoring, Drug of Abuse, and Immunoturbidimetric Assays serum, plasma, urine, CSF etc. 3. Throughput of machine should not be less than 800 Photometric tests/hour and about 1200 tests/hour with ISE. 4. It should have ISE for electrolytes Sodium, Potassium and Chloride. 5. It should be able to perform test of HbA1c using and coagulateed whole blood. 6. Reaction Cuvettes should be at least 150 permanent cuvettes For permanent cuvettes the cleaning should be with at least 7 or more steps. 7. It must have Low water requirement of not more than 30 Litres/hour even during full load use. It must have alarm for fluid levels. 8. Sample dispenser probe must have level and crash sensors. Should have both internal and external washing facility for the probe. Liquid level detection, clot, collision and bubble detection must be present. Removal of Clot by pressure facility. Facility of Repeat washing the probes & cuvettes as per user requirements. 9. It should show alert whenever sample is turbid, icteric, lipemic or hemolysed. 10. Total Reactions Volume and Reading Volume should be low about 120µl or 150µl for most chemistries and maximum 450µl. 11. Must be programmable for all test menus and state of art work stations. 12. Must have Self Diagnostic Tests with Error Messages and Online Display. 13. It should have Diffraction Grating Photometric Detection with 12 or more wavelength selections in the spectral range 340nm to 800 nm. The wavelengths 405nm, 450nm, 505nm, 546nm, 570nm, 600nm, 660nm, 700nm and 800nm should be selectable Wavelength Precision ±2nm. Linear Range 0 – 3 Abs. 14. Light source Halogen/Xenon lamp should be covered under warranty and should have minimum life of 1000 hours. 15. Assay Types should be End-point, Kinetic, Fixed rate, Monochromatic, Bi-chromatic, ISE, Turbidimetric and Homogenous. 16. It must have Provision of barcode reader. 17. Equipment should be supplied with compatible External water treatment system Compatible On-line UPS for entire machine with one hour backup and 3 ton A.C. with Stabilizer. 18. Must be programmable for all test menus and have state of art work station. It should have capability for pre-dilution and automatic repeat of the diluted sample. Automatic repeat for reduced or increased volume of sample. 19. Must have continuous loading of samples with on board capacity of at least 75 samples. 20. Cuvette temprature should be maintained at 37 ± 0.1 C 21. Mixing of reactants should be done by stirres. It should have at least 80 positions for various reagents in cooled reagent compartment.	Each	

		22. It should have good Real-time QC programme with L-J graph for NABL activities. Printout of QC charts and reports. Data Management should be in Real-time with monthly QC DATA LOGS, Automatic plotting of Levy-Jennings charts and Alarms when control results are out of range. 23. It should have Automatic printout of Patient Reports and full Patient Demographic. 24. Connectivity Connect with bidirectional LIS/HIS system: Extensive data management software, compatible & programmable windows based comprehensive data processing and management system. Graphical user interface software, LIMS Capability, Complete backup of data base for calibration control and patient sample results. 25. Reagents probes must have liquid level sensor and crash detection. Should have internal and external washing facility for probes. All probes should have long lift of at least 24 months and covered in warranty otherwise free replacement during every breakdown if 24 months life is not obtained each time even during future replacements. 26. If should have two separate probes for reagents and separate probe for samples. Must typically use between 2-15 µl sample in 0.1 µl steps and 20-300 µl reagents in 1 µl steps. For paediatric samples minimum dead volume of sample cup not more than 50µl. 27. It should support Sample Tubes of various standard sizes. 28. It should be able to take blank cuvette reading for each run. 29. It should have a dedicated program for precision study. Vendor must provide QC software to manage QC data of the laboratory as per NABH/NABL requirements. 30. Should have pre and post dilution of samples and rerun capacity of out of range samples. 31. Calibrations should be automatic by 1, 2 point linear method and non-linear method. Calibration by Factor, Point to Point, spline & exponential type be available. Several types of calibration curves should be obtained by using multiple calibrators per test. Calibrator tracking and control with repeat facility be available. Should be able to perform serial dilutions of Calibrator. 32. The Operating System should be system compatible, Windows based Software. 33. It should have capability of : Reaction process monitoring, Cross-contamination pervention, Unclean cup memory & skipping, Patient information memoty, Automatic, Audit report, Report statistics, Reference range inputs, Automatic dormancy and start up, Report Printing, Report formats in user-defined mode. 34. It should have Reagent Inventory Calculation of remaining reagnet volume and number of tests available. Alerts for reagents shortage to ensure continuous analysis by Reagnet refill message and monitoring. 35. It should have the compatible PC . 36. Complete service manual & circuit diagrams, operating manual must be provided. 37. Comprehensive and full training of all users by supplier for operating equipment and trouble free maintenance at installation point. 38. System should be supplied with all necessary pre requisites, start-up kits, QC and calibrators, free reagents and consumables for testing and calibration. 39. Vendor must have 3 year standing in India and have done installations of same machine in any Govt./Semi Govt./Reputed NABL accredited Lab. and provide the user list with address and telephone contacts. 40. Vendor must give written assurance & undertakings that they have an Instrument specialist who will attend to any machine related problems within 24 hours. 41. The system should be quoted with standard one year guarantee and AMC/CMC for next three years should be quoted after guarantee period. 42. Demonstration of functionality should be arranged at jaipur. 43. Service back up should be available within 24 hours after which penalty of Rs. 5000 will be imposed for each passing day. Company should have Jaipur based engineer. 44. System should be FDA & CE approved.		

15. **It is clarified that the information required in bidding document should be submitted only in enclosed annexure (A to P-1) without any change or modification in its formats. Bids submitted with changed or modified annexure/ formats may be rejected.**

Note:- Please note that above all Amendments/corrigendum in technical Specifications/bid conditions, is the integral part of Annexure-C and tender document. This corrigendum shall be signed and annexed with tender/ bid document.

Managing Director
Rajasthan Medical Services Corporation Ltd.,
Jaipur