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F-8(195) RMSC/EPM/M-2/NIB-470/2020-21/ 179

Dated: 03/11/2020

Clarification/Corrigendum/Addendum

Subject:- Revised Technical Specification for NIB No. F-8(195) RMSC/EPM/M-1/2020-21//NIB-470/4649 dated 25.08.2020 for items 1. Hot Air Oven, 2. Incubator, 3. Incubator (Bacteriological) Digital, 4. Fully Automated 4 Plate Elisa Processor, 5. Semi Automatic Elisa Reader and Washer.

In reference to subject cited above of NIB-470, various representations received from the firms and issues raised by the bidders are being examined authorities and technical committee. The following corrigendum/addendum is issued for inclusion in bid document as below:-

Revised Technical Specification of Hot Air Oven

1. Inner Chamber Size 24" x 24" x 24" approx.
2. The oven uses dry heat to sterilize articles at 100°C for 30 minutes.
3. Outer chamber is made of Mild Steel duly powder coated.
4. Inner chamber made of STAINLESS STEEL (304 Grade) sheet.
5. Forced convection system ensures good mixing, strong dispersion and maintains higher temperature uniformity inside the chamber.
6. Thermal loss is prevented by filling mineral wool (Insulation) in space between the outer body & Inner chamber.
7. Door Gasket Head on the double walled door for proper sealing.
8. Fitted with heavy hinges with a ball catcher, spring loaded door closing device. Door is duly insulated.
9. Adjustable ventilation slides control inner air circulation.
10. Beaded heating elements made of high quality Nichrome wire are placed in ribs, at bottom and sides for uniform heat distribution.
11. Inner chamber has ribs for placing the shelves at convenient levels. Supplied with 2/3 removable shelves.
12. Temperature is controlled by capillary type thermostat from 50°C to 250°C ($\pm 1^\circ\text{C}$).
13. Should provide with a digital temperature controller with digital display or should have graduated Temperature control knob in centigrade degrees for monitoring the temperature with a thermometer.
14. Control Panel is provided with ON/OFF switch, thermostat control knob and indicators for mains and thermostats.
15. Over-temperature cut out electronically above set temperature to ensure operational safety.
16. It should be operate on 220V-230V, 50Hz AC Supply and supplied with cord and plug.



17. System should confirm to IS:6365-1971(Reaffirmed 1995) with latest amendments in ISI specifications for Laboratory Electric Ovens and it should be CE Certified.

Terms & Conditions:-

1. Manufacturer should have ISO 13485 Certificate.
2. **Warrantee: Three years on equipment from the date of installation.**
3. 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 Warrantee period.
4. Installation will be done by supplier free of cost.
5. The service engineer should be based in Rajasthan
6. The company should mention the make & model name / number of the quoted equipment and submit the technical brochure of the quoted model in the Technical bid along with compliance sheet as per technical specifications.

Revised Technical Specifications of Incubator

1. **Temperature range: Ambient to 60°C, ±0.5°C Resolution**
2. Temperature control: digital control
3. Microprocessor based controller for mains, heating and cooling with separate indicator lights.
4. It should be operate on 220V-230V ,50Hz AC Supply and supplied with cord and plug
5. It should have Suitable built in voltage stabilizer.
6. Outer chamber is made of Mild Steel duly powder coated.
7. Inner chamber made of STAINLESS STEEL(304 Grade) sheet
8. Outer Full length inner plexi - glass door ,castor wheel mounted tie easy movability.
9. Triple wall with special grade glass wool insulation.
10. Long Lasting stainless steel tubular heaters with fins.
11. Fan convection to ensure uniform temp. Fitted with load indicator and safety. Thermostat take over indicator lamp. LCD/LED indicator.
12. Size(of inner chamber) - 605 (W) X 910(H) X 605 (D) mm approx. Capacity -10 cu. ft with 3 shelves made of stainless steel door swing 65 cms.
13. Equipment should be CE Certified.
14. **Warrantee: Three years on equipment from the date of installation.**
15. 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 Warrantee period.
16. Installation & Training will be done by supplier free of cost.
17. The service engineer should be based in Rajasthan
18. The company should mention the make & model name/number of the quoted equipment and submit the technical brochure of the quoted model in the Technical bid along with compliance sheet as per technical specifications.
19. Manufacturer should have ISO 13485 Certificate.



Revised Technical Specifications of Incubator (Bacteriological)- Digital

1. Inner Chamber size 17"x17"x17" approx.
2. Double wall door with double toughened glass window & provided for observation in the chamber.
3. Inner chamber made of highly polished stainless steel and outer chamber should be of mild steel sheet duly powder coated.
4. Inner chamber should be made of ribs for adjusting shelves, shelves should be stainless steel and 3 shelves should be supplied.
5. Temperature should be thermostatically controlled with range from ambient to 60°C ($\pm 0.5^\circ\text{C}$). Air ventilators to be provided both side, PID Control: Microprocessor based PID Controller, Should have air circulating fan (Which can be turned ON/OFF on demand) for uniform temperature on all the shelves, synthetic rubber gasket at the door.
6. The equipment should be provided with thermostat control knob, on off switch pilot lamp and timer digital indicator.
7. Whole system should be CE certified/ ISI MARK.
8. It should be operate on 220V-230V, 50Hz AC supply and supplied with cord and plug.
9. Should be supplied with compatible voltage stabilizer.

Terms & Conditions

1. Warrantee: Three years on equipment from the date of installation.
2. Manufacturer should have ISO 13485 Certificate.
3. 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 Warrantee period.
4. Installation & training will be done by supplier free of cost.
5. The service engineer should be based in Rajasthan
6. The company should mention the make & model name/number of the quoted equipment and submit the technical brochure of the quoted model in the technical bid along with compliance sheet ns per technical specifications

Revised Technical Specification of Fully Automated 4 Plate Elisa Processor

1. It Should be a Fully Automated micro plate System.
2. System should be able to automate all the steps of any Elisa protocol.
3. The system should be capable to wash flat, round and V bottom plates and strip.
4. System should easily process up to 96 well micro plate and up to 12 different assays simultaneously.
5. 4 plate loading position with inbuilt incubator & shaker of independent for each plate position.
6. Should be equipped 4 filters 405, 450, 492 & 630nm wavelength with 2 empty filter position.
7. The system should have fully negotiated for photo Elisa processor.
8. Should have 8 Channel or 12 channel washer manifold.
9. Should have Individual robotic system for Dispensing reagents and transportation of micro plates.



10. Should have 96 well Micro Plate Reader with bichromatic and monochromatic reading options.
11. Should be able to perform individual modular functions like Washing, reading, incubation and sample addition separately.
12. The system should have capacity to load 100 or more samples.
13. The system should have capacity to load minimum 10-12 reagent bottles.
14. The system should have minimum 4 wash buffer position, liquid waste, tip waste.
15. **The system should have dispensing volume 10ul to 1000ul.**
16. The system should have fluid alarm system for low reagent.
17. The Spectrophotometric range should be between 0-3.5 OD.
18. The system should have minimum of 4 independent incubators with temperature options from room temperature to 47°C.
19. The system should have sample pre-dilution and stable distribution from primary tubes.
20. **The system should have clot detection & Barometric for sample aspiration & dispense monitoring.**
21. **The system should have Disposable tips to eliminate carry over.**
22. The system should have Liquid level sensing/fill verification.
23. The system should have Photometry endpoint and kinetic reading facility.
24. The system should be window based with easy to upgrade software.
25. The system should have barcode reader as additional features.
26. **Quoted model should be CE and IVD/USFDA approved(Certificate must be enclosed in Technical Bid).**
27. The system should have advance QC Monitoring & data management system.
28. Warrantee: Three years on equipment from the date of installation.
29. 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 Warrantee period.

Revised Technical specifications of Semi Automatic Elisa Reader & Washer

Technical specifications of Elisa Reader-

1. Halogen Lamp should have minimum usage option, i.e. it's should get 'on' while reading and should be 'off' mode even the instrument is on standby mode.
2. Fully automatic & easy to operate.
3. Photometer should be able to read all kind of wells flat, V and U.
4. Photometer should be of 8 measurement channel.
5. Should be able to read 2-3 strips or plate at a time.
6. Should be totally open system.
7. Should contain commonly required filter 405nm, 450nm, 630nm, (Space for optional filters

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8. Should have facility to measure at single as well as dual a wavelength (Bichromatic reading with photo metric accuracy of 2% single wavelength -15 seconds approx and wavelength -20 secs. approx
9. Should have built in thermal/matrix printer
10. Should be able to report raw data, absorbance values, cut off and concentrations & multi standard
11. Should be able to plot graphs and curves
12. Absorbance range 0 to 4.0.
13. Should be able to plot all kinds of curves like linear, log point to point it. should have large LCD display & memory should have plate making feature.
14. It should be operate on 220V-230V ,50Hz AC Supply and it Should be supplied with power cord, spare fuses, dust cover, instruction manual and warranty card
15. **Quoted model should be CE and IVD/USFDA Approved (Certificates must be enclosed in technical bid).**
16. Multi label measurement and kinetic measurement
17. Licensed window based software
18. Display: Operation through PC
19. Company should have local service network.
20. Firm should provide original brochure of Equipment model with satisfactory users certificate and list.
21. Should have automatic calibration and self diagnostics of any possible error in optical alignment before each program reading.
22. Internal software (standalone mode) should have all the basic application related to ELISA like quality control, qualitative classification, standard graph etc.
23. The instrument should have a memory of 99 inbuilt protocols in stand-alone mode and 100 result memory .
24. System should have USB port for external printer connectivity optionfor the data printout.
25. Firm should supply one desk top computer (System should have i3 processor with latest operating system, HDD 1 TB, 4GB RAM, 17" screen) with UPS. (Guarantee card with bills have to be submit with items to claim guarantee of these items).
26. Compatible UPS with Battery should be provided free of cost with the system.
27. **Warrantee: Three years on equipment from the date of installation.**
28. 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 Warrantee period.

Technical specification of ELISA Washer/Microplate Washer-

1. Should have capability to wash 96well micro plates and have 1x 8 way wash head
2. Should have programmable washing time, volume and soaking time.
3. Should use non-pressurized bottles to minimize the risk of spillage and also choice for user to substitute bottles with general labware bottles.



4. Should provide two 2 liter wash bottles and two 2 liter waste bottle with level sensor.
5. Should provide aerosol cover to prevent aerosols of infectious diseases from spreading.
6. Should have residual volume less than 1.5 µl.
7. Dispensing volume should be 50 – 400 µl for 96 well.
8. Should have a USB/RS-232 port for easy data transfer.
9. Should Provide 1000 ml Measuring Jug(Euro design) having marking from 100-1000ml.
10. Should have large 5” or more Color/LCD Display for easy set-up of wash protocols.
11. Should have the liquid level sensors in both the wash and waste bottles to guarantee safe performance.
12. Should have plate sensor to recognize if a plate is present or not.
13. After using the instrument, the rinse can be done manually.
14. Quoted should be CE and IVD/USFDA Approved (Certificates must be enclosed in technical bid).
15. Warrantee: Three years on equipment from the date of installation.
16. 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 Warrantee period.

Bidder has to quote separate rate of Elisa Reader and Elisa Washer/ Microplate Washer (in percentage) in annexure 'I' and annexure 'I' must be attached with technical bid.

annexure 'I'

S.N.	Name of Goods	Cost of the Goods (In Percentage of the total rate quoted in online BOQ for Semi Automated Elisa Reader and Washer)
1	Elisa Reader	
2	Elisa Washer/ Microplate Washer	


Executive Director (EPM)
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