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No. F-8() RMSC/EPM/M-2/2015-16/NIB-165/ 8150

Dated: 3/5/16

CLARIFICATION/CORRIGENDUM/ADDENDUM

Sub:- Revised Technical Specifications of items and revised bid submission date under NIB No. F-8() RMSC/EPM/M-2/2015-16/NIB-165/1580 dated 30.03.16

In Reference to subject cited above and NIB-165, the various representations received from the firms and issues raised by the Bidders are examined by the competent Authorities and technical committee. The following Clarification/Corrigendum/Addendum is issued for inclusion in Bid document & Technical Specification of items as below:-

1. Amended Technical Specifications of item Deep Freezer (Large 500 Ltr.):-

1. Description of Function:

- (i) Deep Freezers maintain temperatures (-) 25°C to (-) 15°C, to store fruits & vegetable / Meat and /or freeze ice packs.
- (ii) Deep Freezers are required at district and regional levels, to store Food Samples and prepare ice packs required for passive cooling in food sample carriers and cold boxes.

2. Operational Requirements:

- (i) Designed for tropical climates Temperature up to 45 degree centigrade.
- (ii) Target holdover time should be not less than 2 hrs and 30 minutes.
- (iii) Hot and Cold compressors starting at 172 volts (22% below rated voltage).
- (iv) Manufacturing process of the product should not use or produce hazardous chemicals-gases.
- (v) Provision for drainage for the waste water.
- (vi) Should have legs in the base with rotating screw type height adjustments to balance the weight on uneven floor.
- (vii) The unit should have ground clearance minimum 100 mm.

3. Technical Specifications:

- (i) Gross Volume: 450- 500 Litres.
- (ii) Construction:
Internal: Stainless 304 grade steel/ Aluminum body.
External: Corrosion Resistance
- (iii) Chest Type with CFC-free insulation.
- (iv) Solid door with lock handle.
- (v) Type: Compression Cycled, CFC Free (both for refrigeration and insulation) All system tubing (suction tube, freezer tube and condensing tube) should be of **good** quality pure copper coil.
- (vi) Temperature of compartment to be maintained between (-) 25°C to (-) 15°C continuous availability of energy at ambient temperatures 5 to 45 °C.
- (vii) Inlet of Capillary should be outside the PUF body.
- (viii) ON/OFF Switch and power indicator should be available.
- (ix) A microprocessor based control unit should be provided for setting of temperature and display following features:
 - (a) 3 digit display (to one decimal point) of cabinet temperature. The sensor should be placed 25 to 50 mm above base of chamber.
 - (b) Power indicator.
 - (c) Audio (minimum 65dBA) and visual alarm against the violation of set temperature range.
 - (d) Min. & Max. Cabinet temperature digital display of last 24 hrs. and breaches during last 24 hrs.
 - (e) The Unit should be sealed protected from dust, moisture or condensed water falling over it
 - (f) Accuracy for digital controller +/-0.5 degree centigrade.

4. System Configuration

- (i) Programmable Micro-processor control unit with child lock facility.
- (ii) Should have provision to set minimum and maximum temperature at 0.1 degree Centigrade to programme the unit for continuous operation.
- (iii) Should have provision for defrosting program.

5. Accessories, spares

- (i) fruits & vegetable / Meat storage basket allowing free circulation of air, having the size to be able to accommodate 4 to 6 of them in the unit and suitable to match the net volume requirement. It should be minimum 5 wire basket.
- (ii) The supplier is required to maintain all the spare parts throughout the guarantee period and not less than ten years.

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6. Environmental Factors:

- (i) The unit should be capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 95%.
- (ii) The unit shall be capable of operating continuously in ambient temperature of 5 to 45 deg C and relative humidity of 90%.
- (iii) The plug should be flexible and unbreakable sealed rubber type.

7. Power Supply

- (i) Power Input to be 220-240 VAC, 50 Hz as appropriate fitted with Indian plug.
- (ii) **Voltage Stabilizer should be supplied as per the quoted Deep freezer requirement.**

8. Standards and Safety

- (i) **Product should be CE approved.**

9. Documentation:

- (i) A paper copy of user/operator manuals to be supplied in English.
- (ii) A paper copy of technical/wiring diagram/maintenance manuals to be supplied in English.
- (iii) **Certificate of Testing should be submitted at the time of supply from NABL certified lab / ILAC/ STQC Labs.**

10. Packing of the equipment during shipment:

- (i) The supplier should provided strong and sufficient packing to ensure safe arrival of goods at the destination free from loss or damage.
- (ii) A vertical arrow should be marked at all sides of packages to ensure transportation of equipment in vertical position. TOP and BOTTOM should also be written.
- (iii) To put label and signage's for HANDLE WITH CARE on all sides of the crates as per -packing & shipment norms.

Terms & Conditions

1. Guarantee: **Two years** on equipment from the date of installation.
2. CMC: CMC will be given @5% (of net rate-inclusive of Excise Duty & exclusive of VAT/CST etc.) plus service tax (as applicable) and yearly escalation of 5% on last year's CMC price. The CMC may be awarded for three years (on yearly basis) after completion of guarantee period of two years.
3. Installation and Training will be done by the supplier free of cost.
4. The service engineer should be based in Rajasthan.
5. The company should mention the make and model name/number of the quoted equipment and submit the technical brochure of the quoted model in the technical compliance sheet as per technical specifications.

2. Amended Technical Specifications of item Ice Line Refrigerator -ILR (250-300 Ltr.):-

1. Description of Function:

- 1.1 Ice lined refrigerators maintain temperature of +2°C to + 8°C . Not more than 8 hrs continues or intermittent power should be sufficient per 24 hrs to maintain vaccine temperature below 8°C.
- 1.2 Ice-lined refrigerators are required at district and regional levels, since electricity suppliers are rarely perfect and standby electricity suppliers may not be available.

2. Operational Requirements:

- 2.1 Designed for tropical climates.
- 2.2 Target holdover time should be 20 hrs or more in a continues external temperature of 43°C.
- 2.3 Hot and Cold compressor starting at 172 Volts (22% below rated voltage).
- 2.4 Manufacturing process of the product should not use or produce hazardous chemical gases.
- 2.5 Provision for drainage for the waste water.
- 2.6 Should have legs in the base with rotating screw type height adjustments to balance the weight on uneven floor.
- 2.7 The unit should have ground clearance of minimum 100 mm.

3. Technical Specifications:

- 3.1 Net Storage Capacity: **250-300 liters** within basket in place.
- 3.2 Construction:
 - (a) Internal:-Stainless 304 grade steel/**Pre Painted Galvanized.**
 - (b) An additional special ice lining consisting of ice packs covered by strong plastic shell.
- 3.3 External: Corrosion Resistance.
- 3.4 Chest type with CFC-free insulation.
- 3.5 Should have horizontal water cool pack covering the top of the basket.
- 3.6 Solid door with lock and handle
- 3.7 Type: Compression Cycled, CFC free (both for refrigeration and insulation). All system tubing (suction tube, freezer tube and condensing tube) should be of minimum 99.97% of copper coil.
- 3.8 Temperature of a full vaccine and medicine to remain +2 deg C to +8deg C during continuous availability of energy at ambient temperature +5deg C to +45 deg C with intermittent/ continues electricity supply 8

hrs in a 24 hrs cycle. The temperature difference between any two points in the cabinet should not be more than +2 deg C once stabilized.

- 3.9 Inlet of Capillary should be outside the PUF body.
- 3.10 ON/OFF Switch and power indicator should be available.
- 3.11 A Micro Processor based control unit should be provided for setting of temperature and display following features :
 - 3.11.1 3 digit digital display (to one decimal point) of cabinet temperature. The sensor should be placed 25 to 50 mm above base of storage chamber.
 - 3.11.2 Power on LED/LCD indicator
 - 3.11.3 Audio (minimum 65 dBA) and visual alarm against the violation of temperature ranger (less than +2 and more than +8 degree C)
 - 3.11.4 Min. & max. cabinet temperature digital display of 24 hrs. and breaches during last 24 hrs.
 - 3.11.5 The unit should be sealed/protected from dust, moisture or condensed water falling over it.
- 3.12 Accuracy for digital controller +0.5 degree centigrade.

4 System Configuration

- 4.2 Programmable Micro-processor control unit child lock facility.
- 4.2 Should have provision to set minimum and maximum temperature at 0.1 degree Centigrade to programme the unit for continuous operation.
- 4.3 Should have provision for defrosting program.

5. Accessories and spares

- 5.1 Food Storage Basket allowing free circulation of air, having the size to be able to accommodate 4 to 6 of them in them in the unit and suitable to match the net volume requirement. It should be minimum 5 wire basket.
- 5.2 Stem Alcohol thermometer (specification and standard as per MOHFW approved Annexure-1) – one piece per unit range of -30 to + 50 degree centigrade.
- 5.3 The supplier is required to maintain the entire spare throughout the guarantee period.

6. Environmental factors:

- 6.1 The unit shall be capable of being stored continuously in ambient temperature of 0 to 50deg C and relative humidity of 95%
- 6.2 The unit shall be capable of operating continuously in ambient temperature of 5 to 45 deg C and relative humidity of 90%
- 6.3 The plug should be flexible and unbreakable sealed rubber type.

7. Power Supply

- 7.1 Power input to be 220-240 V AC , 50 Hz as appropriate fitted with Indian Plug .
- 7.2 Suitable capacity Voltage Stabilizer as per requirement of ILR.

8. Standards & Safety

- 8.1 Product Should be CE Approved

9. Documentation:

- (i) A paper copy of user/operator manuals to be supplied in English.
- (ii) A paper copy of technical/wiring diagram/maintenance manuals to be supplied in English.
- (iii) Certificate of Testing should be submitted at the time of supply from NABL certified lab / ILAC/ STQC Labs.

10. Packing of the equipment during shipment:

- (i) The supplier should provide strong and sufficient packing to ensure safe arrival of goods at the destination free from loss or damage.
- (ii) Vertical arrow should be marked at all sides of packages to ensure

Terms & Conditions

1. **Guarantee: Two years** on equipment from the date of installation.
2. **CMC:** CMC will be given @5% (of net rate-inclusive of Excise Duty & exclusive of VAT/CST etc.) plus service tax (as applicable) and yearly escalation of 5% on last year's CMC price. The CMC may be awarded for three years (on yearly basis) after completion of guarantee period of two years.
3. Installation and Training will be done by the supplier free of cost.
4. The service engineer should be based in Rajasthan.
5. The company should mention the make and model name/number of the quoted equipment and submit the technical brochure of the quoted model in the technical compliance sheet as per technical specifications.

3. Amended Technical Specifications of item Cold Box (Large):-

1 Description of Function

- 1.1 Cold Box is essential for safe transportation of sensitive Food Item from the place of manufacturing to the place of field storage and final carriage to the place of Testing Lab. Thus CFC – free cold boxes ensure a pre-determined safe temperature range (+2 to + 8 C) for a particular period known as cold product classifications made by WHO.

2 Operational Requirements

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- 2.1 The Large cold box, long range should be able to keep the Food Sample safe while transporting to long distances for longer hours of time.

3 Technical Specifications

3.1 Storage Capacity 20-30 Liters

- 3.2 Weight Fully Loaded should be less than 50Kgs
 3.3 Weight Empty (with empty ice pack) should less 25Kg
 3.4 External surface and internal lining material LLDPE-(Linear Density Polyethylene)
 3.5 Insulation material CFC-free Polyurethane
 3.6 Insulation thickness 100-120 mm
 3.7 Each Cold Box shall contain adequate ice packs of following specs :
Volume of ice Pack 0.35 -0.4 liters. External dimensions 165*95*33mm+/-1mm
 3.8 Each Cold box shall contain shall contain **ice packs** of WHO specifications PIS Ref : E/IP .2. The specification are as give below:

Water Content: 0.35 to 0.4 Liters.

External Dimension: 165x95x33 mm+/- 1 mm.

Robustness: The Ice Packs samples shall withstand a one meter drop on every face, edge and corner when in a frozen state (-10 deg C to -20 deg C).

It will then successfully pass the leakage test after thawing.

Leakage Test: No leaks when 40 Kg lateral force is applied.

Features: Effective reinforcements to restrain walls against swelling.

Removable cap for filling ; cap to have effective internal water seal to resist 40

- 3.9 Should be provided with handles for two people to carry it to a large vehicle.

4 System Configuration Accessories, spars and consumables

- 4.1 Large Cold Box-Large Range (including integrated lockable fittings)

5 Power Supply: None

6 Standards, Safety and training

- 6.1 The equipment should conform to WHO Specification E004/CB.01.3 The equipment should preferably be listed on the product Information Sheet of WHO.

- 6.2 The system should be tested as per WHO Standard Test procedures as per E004/CB01-VP3 Copy enclosed.

7 Documentation

- 7.1 Manufacturer's certification of compliance of test procedures as per WHO Standards Test procedures.

- 7.2 **Certificate of Testing should be submitted at the time of supply from NABL certified lab / ILAC/ STQC Labs.**

Terms & Conditions

- Guarantee: Three years** on equipment from the date of installation.
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- Installation and Training will be done by the supplier free of cost.
- The service engineer should be based in Rajasthan.
- The company should mention the make and model name/number of the quoted equipment and submit the technical brochure of the quoted model in the technical compliance sheet as per technical specifications.

4. Amended Technical Specifications of item BOD Incubator:-Digital (S.S. of 304):-

- Capacity (6 Cu ft.) – 170-190 Ltrs
- Double walled , double door Construction. **Temp range 0° to 60°C** with accuracy $\pm 0.1^\circ\text{C}$ high quality, least count 0.1°C , environment friendly refrigerant, with voltage stabilizer of sufficient capacity .
- Independent temperature measuring through PT-100 sensor with indicator LCD display.
- Inner Acrylic Door: Full Size 8 mm thick, Interior lighting facility, PID Control : Microprocessor based PID Controller.
- Insulated door fitted with heavy hinges handles locking, mechanical door lock.
- Recovery time short, precise regulation of temp and acoustic alarm.
- Digital safety thermostat.
- Adjustable ventilation rate 10 to 100% thin form air circulation.
- The Unit Shall be capable of Operating Continuously in ambient temp of 10-45°C temp. Temp. Should be equally distributed in whole incubator, Synthetic rubber gasket at the door.
- Whole system should be **CE certified/ ISI MARK.**

Terms & Conditions:

- Guarantee: Three years** on equipment from the date of installation.
- CMC:** CMC will be given @ 5 % (of net rate - inclusive of Excise Duty & exclusive of VAT / CST etc.) plus service tax (as applicable) and yearly escalation of 5 % on last year's CMC price. The

CMC may be awarded for three years (on yearly basis) after completion of Guarantee period of two years.

3. Installation & Training will be done by supplier free of cost.
4. The service engineer should be based in Rajasthan.
5. 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.

5. Amended Technical Specifications of item Incubator (Bacteriological):-Digital (S.S. of 304):-

1. Size of Inner chamber is Approx. 150-180 liters.
2. Double wall door with double toughened glass windows is provided for observation in the chamber.
3. Inner Chamber made of highly polished stainless steel and outer chamber should be of SS sheet.
4. Inner Chamber should be made of ribs for adjusting shelves, shelves should be stainless steel and 3 shelves should be supplied.
5. Temp should be thermostatically controlled with range from ambient to 50°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.**


Terms & Conditions:

1. **Guarantee: Three years** on equipment from the date of installation.
2. **CMC:** CMC will be given @ 5 % (of net rate - inclusive of Excise Duty & exclusive of VAT / CST etc.) plus service tax (as applicable) and yearly escalation of 5 % on last year's CMC price. The CMC may be awarded for three years (on yearly basis) after completion of Guarantee period of two years.
3. Installation & Training will be done by supplier free of cost.
4. The service engineer should be based in Rajasthan.
5. 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

6. The bid is re-scheduled as follows:

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
up to 11:00 A.M. 11.05.2016	up to 1.00 P.M. 11.05.2016	from 3.00 P.M. 11.05.2016	up to 11:00 A.M. 17.05.2016	up to 1.00 P.M. 17.05.2016	from 3.00 P.M. 17.05.2016

This corrigendum shall be signed and annexed with bid document. This bears an approval of Managing Director, Rajasthan Medical Services Corporation Limited, Jaipur.


Executive Director (EPM)
RMSCL, Jaipur



