Date: - 18th October, 2018

Corrigendum
For
Paediatric Plethysmography Machine for the Department of Pediatrics

NIT Issue Date	**:**	**25th July, 2018**
NIT No.	**:**	**Admn/Tender/75/2018-AIIMS.JDH**
Pre-Bid Meeting	**:**	**08th August, 2018 at 03:15 PM**
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Bid opening	**:**	**31st October, 2018 at 03:15 P.M**

The following revised and additional specification will be added:-

1. **Page No. 11, Annexure I, S No. 1, Item: Paediatric Plethysmography Machine, in general specification, point No. 1**

For: The dimensions of the plethysmographic chamber should be sufficient to accommodate newborn, infants and children up to 20 Kgs and 105 Cms length. It should have sufficient space for manipulation of the mask and breathing apparatus while the patient is placed in the chamber.

Read: The dimensions of the plethysmographic chamber should be sufficient to accommodate newborn, infants and children up to 20 Kgs and dimension of 127 x 71 x 128 cms (length x width x height), Cabin volume: 98 L, Cabin range: ± 80 mL at 1000 hPa Accuracy: ± 1% and Resolution: 0.04 mL. It should have sufficient space for manipulation of the mask and breathing apparatus while the patient is placed in the chamber.

2. **Page No. 11, Annexure I, S No. 1, Item: Paediatric Plethysmography Machine, in general specification, point No. 4**

For: The box should be made of polycarbonate/ similar materials that ensure adequate heat exchange and should not be excessively insulated. It is desirable that the net loss through the walls should equal net gain from infant and equipment to ensure rapid thermal equilibration.

Read: The box should be made of polycarbonate/ Acrylic glass material that ensure adequate heat exchange and should not be excessively insulated. It is desirable that the net loss through the walls should equal net gain from infant and equipment to ensure rapid thermal equilibration.

3. **Page No. 11, Annexure I, S No. 1, Item: Paediatric Plethysmography Machine, in general specification, point No. 7**

For: There should be a linear response of the box signal to known inputs over a range of appropriate breathing frequencies (e.g. 20 – 100 breaths per minute (bpm).

Read: There should be a linear response of the box signal to known inputs over a range of appropriate breathing frequency detection /support /response should be in the range 20 – 100 bpm

4. **Page No. 11, Annexure I, S No. 1, Item: Paediatric Plethysmography Machine, in specification for breathing apparatus, point no. 2**

For: The combined dead space of the PNT and occlusion shutter should be < 2 mL/kg to minimize dead space.

Read: The combined dead space of the PNT and occlusion shutter should be 2.0-4.5 mL to minimize dead space.

5. **Page No. 11, Annexure I, S No. 1, Item: Paediatric Plethysmography Machine, in specification for breathing apparatus, point no. 3**

For: The resistance of the combined apparatus should be <20% of the infant's intrinsic resistance at the highest flow likely to be encountered, i.e. in term neonates, <0.7 kPa.L/sec. at 166 mL/ sec, whereas for a 1-yr-old, it may be 0.5 kPa.L/sec at 500 mL/ sec.

Read: The resistance of the combined apparatus should be <20% of the infant's intrinsic resistance at the highest flow likely to be encountered, i.e. in term neonates, <0.7 kPa. L/sec. at 166 mL/ sec, whereas for a 1-yr-old, it may be 0.05 kPa.L/sec at 10 L/ sec.

6. **Page No. 11, Annexure I, S No. 1, Item: Paediatric Plethysmography Machine, in specification for breathing apparatus, point no. 4**

For: For airway resistance measurements, a two-valve system should be provided.

Read: For airway resistance measurements system should be of single valve system

7. **Page No. 11, Annexure I, S No. 1, Item: Paediatric Plethysmography Machine, in specification for breathing apparatus, point no. 5**

For: Automated closure should be feasible at end inspiration (EI), end expiration (EE), or other points through the breath as specified by the user. Programmable facility should be available.

Read: Automated closure should be feasible at end inspiration (EI), end expiration (EE). Programmable facility should be available.

8. **Page No. 12, Annexure I, S No. 1, Item: Paediatric Plethysmography Machine, in specification for breathing apparatus, point no. 7**

For: The reports of FRC should be based on at least two complete respiratory efforts against the occlusion with the occlusion for at least 10 s. The shutter must be able to withstand pressures of 3 kPa without any leaks or compressive effects.

Read: The reports of FRC should be based on at least two complete respiratory efforts against the occlusion with the occlusion for at least 10 s. The shutter must be able to withstand pressures of 1.3 bar without any leaks or compressive effects.

9. **Page No. 12, Annexure I, S No. 1, Item: Paediatric Plethysmography Machine, in specification for breathing apparatus, point no. 9**

For: The shutter must be easy to clean and reassemble. It should be light, with suitable means of support and easy manipulation within the box.

Read: The shutter must be fixed/mounted on the support arm. (Once box is closed there is no manipulation can be done and is not allowed also).

10. **Page No. 12, Annexure I, S No. 1, Item: Paediatric Plethysmography Machine, in specification for breathing apparatus, point 11th to be added after 10th :-**

Point no 11. Flow rate: 0 to ± 1500 mL/sec

11. **Page No. 12, Annexure I, S No. 1, Item: Paediatric Plethysmography Machine, in specification for breathing apparatus, point 12th to be added after 11th :-**

Point no 12. Accuracy: ± 3% or ± 4mL/s (whichever is greater)

12. **Page No. 12, Annexure I, S No. 1, Item: Paediatric Plethysmography Machine, in specification for breathing apparatus, point 13th to be added after 12th :-**

Point no 13. Resolution: 1 mL/s

13. **Page No. 12, Annexure I, S No. 1, Item: Paediatric Plethysmography Machine, in specification for breathing apparatus, point 14th to be added after 13th :-**

Point no 14. Shutter balloon material: Latex balloon

14. **Page No. 12, Annexure I, S No. 1, Item: Paediatric Plethysmography Machine, in specification for breathing apparatus, 15th point to be added after 14th :-**

Point no 15. Balloon volume: 0.7 Ml

15. **Page No. 12, Annexure I, S No. 1, Item: Paediatric Plethysmography Machine, in specification for breathing apparatus, 16thpoint to be added after 15th :-**

Point no 16. Calibration volume 8 mL, motor driven syringe

16. **Page No. 12, Annexure I, S No. 1, Item: Paediatric Plethysmography Machine, in specification for mask, point no. 1**

For: Dead space should be minimal and < 50% of total volume.

Read: Dead space should be minimal and < 50% of tidal volume.

17. **Page No. 12, Annexure I, S No. 1, Item: Paediatric Plethysmography Machine, in specification for mask, point no. 3**

For: The use of therapeutic putty to achieve a good, airtight seal is recommended

Read: Therapeutic putty or any other method to have good air tight sealing for masks is recommended & must be made available.