Corrigendum

a) The following corrigendum are issued:-

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Tender Document Reference</th>
<th>Instead of</th>
<th>Read as</th>
</tr>
</thead>
</table>
| 1.     | Page No.55
   Section VI: Technical Specification | Existing text | Revised text at Annexure I |
| 2.     | Page No.52
   Section V: Schedule of Requirements | Existing Text | Revised Text at Annexure - II |
| 3.     | Page No.56 to 58
   Section VI A: Qualification Criteria | Existing Text | Revised Text at Annexure - III |
| 4.     | Page No.61
   Section VI: Bid form and Price Schedule | Existing Text | Revised Text at Annexure - IV |

All other terms and conditions of the tender remain unaltered.

The above forms part of the bidding documents. The bidder shall attach the copy of this corrigendum duly signed by their authorized signatory, in their bid.

Sd/-

General Manager (E)
ANNEXURE I

SECTION VI : TECHNICAL SPECIFICATIONS

1. Specification for Boyles Apparatus with Mechanical Ventilator (Type I)

1. Compact and modular, three gas Anaesthesia workstation with an integrated ventilator for adult to infants and integrated airway monitor for airway pressure and volume.

2. The machine should be suitable for low and minimal flow anesthesia application with compliance compensation of breathing ckt, fresh gas flow compensation/ decoupling.

3. The machine should have 3 drawers.

4. The system should have upto 1 Hr. battery backup.

5. System should confirm to EN 60601-2-13 (Requirement for safety and essential performance of anaesthesia system)

6. Gas Delivery System
   - Should have pin index yokes for Oxygen & Nitrous Oxide besides separate connection for central gas supply for Oxygen, Nitrous Oxide and Air.
   - The machine should have pressure gauges for cylinders & central supply lines mounted on front of Anaesthesia machine for better visibility. The gas connections should be non interchangeable.
   - Automatic cutoff of N2O by Oxygen pressure failure.
   - Hypoxic guard for linear regulation of minimum oxygen concentration at 21% volume and must ensure a minimum Oxygen flow of 200 ml at fresh gas flow settings even below total 500 ml fresh gas flow.
   - Audible visual oxygen failure alarm.
   - Emergency Oxygen flush at 30 – 70 L/min by passing the vaporizer.

7. Flow Meter
   - Dual Cascade type flow meter tubes for Oxygen & N2O. Range 20 ml / min to 10 Lit/min. Calibrated in multiple scales. Single tube for air 100 ml to 14 L/min.

8. Vaporizer
   - Machine should have possibility to mount two quick mount type vaporizer for easy interchangeability, and safety.
   - Should be provided with a Temperature / pressure compensated and flow independent vaporizer for Isoflourane or sevoflurane.
   - Vaporizer should have extended delivery range from 0 to 6 vol. %
- The vaporizer design should be maintenance free.

9. **Breathing System**
- Should have fresh gas de-coupled semi closed circle absorber system.
- Should have adjustable pressure relief valve from 5 to 75 mbar.
- Should have change over from Spontaneous to Bag ventilation with single step.
- Should have optimized absorber canister approx. 1.5 Ltr.
- Should have an external fresh gas outlet for connecting Magill or Bain’s circuit or paediatric circuit.

10. **Anaesthesia Ventilator**
- Electronically controlled electrically driven ventilator should not require any driving gas.
- Should not require changing of bellows for adult & infants.
- Modes : Volume controlled, Manual/Spont.
- Tidal Volume : 20 ~ 1500 ml
- PEEP : 0 ~ 20 mbar
- Breathing Frequency : 4 to 60 BPM
- I:E Ratio : 4:1 to 1:4
- Inspiratory pause : 0 – 50% of Ti
- Frequency 1 to 60 1/min, I : E = 2:1 to 1:3.
- Should automatically compensate for compliance of breathing system.
- Should have Desflurane compensation.
- Should be able to ventilate with atmospheric air, in case of missing gases.
- Should have oxygen sensor flow sensor calibration every time when the ventilator is switch on.
- Manual ventilation should be possible if the ventilator fails.

11. **Airway Monitoring**
- Integrated monitor for electronic monitoring and display of following parameters :
  - Expiratory Minute Volume
  - Expiratory Tidal Volume
  - PEEP, Peak & Mean and Plateau airway pressure
  - Frequency
  - Waveform display for Airway pressure.

12. **Alarm Limits & Alarms**
- Adjustable high / low limits with audio and visual alarms for the following :
Minute volume,
Airway pressure (incl stenosis and disconnect),
Insp oxygen concentration,
Audio power supply fail alarm,
Fail to cycle warning.

13. Machine should have RS 232 connectivity port.

14. **Scope of Supply**
- 3 gas Anaesthesia machine
- Trolley with 3 drawers
- Writing surface
- Pin Index yokes for O2 & N2O
- Pipeline connections for all three gases
- Ventilator & monitor
- Semiclosed breathing system
- Adult & Peadiatric autoclavable patient tubings
- Anaesthetic mask size – Adult & sevoflurane.
- Central gas supply hoses (Color coded)
- Instruction for use.

2. **Specification for Boyles Apparatus with Mechanical Ventilator (Type II)**

1. Compact and modular, three gas Anaesthesia workstation with an integrated ventilator for adult to infants and integrated airway monitor for airway pressure and volume.
2. The machine should be suitable for low and minimal flow anesthesia application with compliance compensation of breathing ckt, fresh gas flow compensation/ decoupling.
3. The machine should have 2 or 3 drawers.
4. The system should have upto 1 Hr. battery backup.
5. System should confirm to EN 60601-2-13 (Requirement for safety and essential performance of anaesthesia system)
6. **Gas Delivery System**
   - Should have pin index yokes for Oxygen & Nitrous Oxide besides separate connection for central gas supply for Oxygen, Nitrous Oxide and Air.
- The machine should have pressure gauges for cylinders & central supply lines mounted on front of Anaesthesia machine for better visibility. The gas connections should be non interchangeable.
- Automatic cutoff of N2O by Oxygen pressure failure.
- Hypoxic guard for linear regulation of minimum oxygen concentration at 21 to 25% volume and must ensure a minimum Oxygen flow of 200 ml at fresh gas flow settings even below total 500 ml fresh gas flow.
- Audible visual oxygen failure alarm.
- Emergency Oxygen flush at 30 – 70 L/min by passing the vaporizer.

7. **Flow Meter**

   Machine should have low flow capability with Dual cascade flow meters for Air, O2 and N2O. *(Indicate the range in ml/min)*

8. **Vaporizer**

   - Machine should have possibility to mount two quick mount type vaporizer for easy interchangeability, and safety.
   - Should be provided with a Temperature / pressure compensated and flow independent vaporizer for Isoflurane or sevoflurane.
   - Vaporizer should have extended delivery range from 0 to 6 vol. %
   - The vaporizer design should be maintenance free.

9. **Breathing System**

   - Should have fresh gas de-coupled semi closed circle absorber system.
   - Should have adjustable pressure relief valve *(Indicate the range in mbar)*
   - Should have change over from Spontaneous to Bag ventilation with single step.
   - Should have optimized absorber canister approx. 1.5 Ltr.
   - Should have an external fresh gas outlet for connecting Magill or Bain’s circuit or paediatric circuit.

10. **Anaesthesia Ventilator**

    - Electronically controlled, Electrically/Pneumatically driven ventilator
    - Should not require changing of bellows for adult & infants.
    - Modes : Volume controlled, Manual/Spont.
    - Tidal Volume : 20 ~ 1500 ml
    - PEEP : *(Indicate the range in mbar)*
    - Breathing Frequency : 4 to 60 BPM
- I:E Ratio : 4:1 to 1:4
- Inspiratory pause : 0 – 50% of Ti
- Frequency 1 to 60 l/min, I : E = 2:1 to 1:3.
- Should automatically compensate for compliance of breathing system.
- Should have oxygen sensor flow sensor calibration every time when the ventilator is switch on.
- Manual ventilation should be possible if the ventilator fails.

11. Airway Monitoring
- Integrated monitor for electronic monitoring and display of following parameters :
  Expiratory Minute Volume
  Expiratory Tidal Volume
  PEEP, Peak & Mean and Plateau airway pressure
  Frequency
  Waveform display for Airway pressure.

12. Alarm Limits & Alarms
- Adjustable high / low limits with audio and visual alarms for the following :
  Minute volume,
  Airway pressure (incl stenosis and disconnect),
  Insp oxygen concentration,
  Audio power supply fail alarm,
  Fail to cycle warning.

13. Machine should have RS 232 connectivity port.

14. Scope of Supply
- 3 gas Anaesthesia machine
- Trolley with 3 drawers
- Writing surface
- Pin Index yokes for O2 & N2O
- Pipeline connections for all three gases
- Ventilator & monitor
- Semiclosed breathing system
- Adult & Pediatruc autoclavable patient tubings
- Anaesthetic mask size – Adult & sevoflurane.
- Central gas supply hoses (Color coded)
- Instruction for use.

**Note:** Bidders shall furnish technical compliance statement for the model quoted, details of manufacturer including deviations if any. Technical catalogue/data sheet shall also be furnished in support of technical compliance statement without fail.
ANNEXURE – II

SECTION – V
SCHEDULE OF REQUIREMENTS

<table>
<thead>
<tr>
<th>Sch. No.</th>
<th>Brief Description</th>
<th>Unit</th>
<th>Qty.</th>
<th>Bid security (Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Boyle’s Apparatus with Mechanical Ventilator (Type I) as per specification</td>
<td>Nos.</td>
<td>42</td>
<td>5,61,000.00</td>
</tr>
<tr>
<td>2.</td>
<td>Boyle’s Apparatus with Mechanical Ventilator (Type II) as per specification</td>
<td>Nos.</td>
<td>42</td>
<td>5,61,000.00</td>
</tr>
</tbody>
</table>

Delivery Schedule: - 30 days from the date of purchase order.

Important Note: The bidder may quote the prices for any one or both schedule separately. However, the purchaser reserves the rights to order to any one of the schedule or combination of both, at their full discretion based on prices and the utility factors.

Place of Delivery:- The above equipment is delivered at

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Hospital</th>
<th>Quantity in Nos.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Govt. Head Quarters Hospital, Kancheepuram</td>
<td>2</td>
</tr>
<tr>
<td>2.</td>
<td>Govt. Head Quarters Hospital, Cuddalore</td>
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</tr>
<tr>
<td>3.</td>
<td>Govt. Head Quarters Hospital, Erode</td>
<td>4</td>
</tr>
<tr>
<td>4.</td>
<td>Govt. Head Quarters Hospital, The Nilgris</td>
<td>2</td>
</tr>
<tr>
<td>5.</td>
<td>Govt. Head Quarters Hospital, Pudukottai</td>
<td>2</td>
</tr>
<tr>
<td>6.</td>
<td>Govt. Head Quarters Hospital, Dindigul</td>
<td>2</td>
</tr>
<tr>
<td>7.</td>
<td>Govt. Head Quarters Hospital, Virudhunagar</td>
<td>4</td>
</tr>
<tr>
<td>8.</td>
<td>Govt. Head Quarters Hospital, Ramanathapuram</td>
<td>2</td>
</tr>
<tr>
<td>9.</td>
<td>Govt. Head Quarters Hospital, Nagapattinam</td>
<td>3</td>
</tr>
<tr>
<td>10.</td>
<td>Govt. Head Quarters Hospital, Karur</td>
<td>4</td>
</tr>
<tr>
<td>11.</td>
<td>Govt. Head Quarters Hospital, Perambalur</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Govt. Head Quarters Hospital, Thiruvallur</td>
<td>4</td>
</tr>
<tr>
<td>---</td>
<td>------------------------------------------</td>
<td>---</td>
</tr>
<tr>
<td>13.</td>
<td>Govt. Head Quarters Hospital, Namakkal</td>
<td>1</td>
</tr>
<tr>
<td>14.</td>
<td>Govt. Head Quarters Hospital, Krishnagiri</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>42</strong></td>
<td></td>
</tr>
</tbody>
</table>
ANNEXURE-III

SECTION VI-A : QUALIFICATION CRITERIA

(Referred to in Clause 11.2 of ITB)

For determining the lowest-evaluated bid, the Purchaser shall carry out the post qualification of the Bidder in accordance with ITB Clause 11.2, using only the requirements specified. Requirements not included in the text below shall not be used in the evaluation of the Bidder’s qualifications.

The Bidder shall furnish documentary evidence to demonstrate that it meets the following experience requirement(s):

1. **Manufacturer Bidders**
   
   (i) The bidder must have manufactured and supplied satisfactorily the similar model quoted in each schedule of the Schedule of Requirements either directly or through of any other authorized dealer to the extent of at least 1 No. for Sl. No.1 & 2 under “Section – V, Schedule of Requirements” in any one of the last five years of which minimum 1 No. for Sl. No.1 & 2 should have been supplied to Indian Institution and should be in use satisfactorily with no adverse report for at least one year preceding the date of bid opening.

   (ii) The Bidder should furnish a brief write-up, backed with adequate data, explaining his available capacity and experience (both technical and commercial) for the manufacture and supply of the required equipment within the specified time of completion after meeting all their current commitments.

   (iii) The bidder should clearly confirm that all the facilities exist in his factory for inspection and testing and these will be made available to the purchaser or his representative for inspection.

2. **Non-Manufacturer Bidders**
   
   In the case of a Bidder offering to supply Goods under the Contract that the Bidder does not manufacture or otherwise produce, the Bidder should be duly authorized by the manufacturer of the Goods who meets the criteria under (1) above (all supporting documents/information as asked above for manufacturer shall be submitted with the bid) and

   a) The manufacturer furnishes a legally enforceable authorization in the prescribed Form [Section XII] assuring full guarantee and warranty obligations as per GCC and SCC for the goods offered; and

   b) The bidder, as authorized by the manufacturer, must have supplied and provided after sales service to the extent of at least 1 No. for Sl. No.1 & 2 of the quantities of similar model in the Schedule of Requirements in any one of the last five (5) years to Indian Institution, which must be in satisfactory operation at least for one year on the date of bid opening.
3. **Common to Both Manufacturer and Bidder**

(i) The information on past supplies and satisfactory performance should be given in the Proforma given under Section-XI.

(ii) Documentary evidence (end users certificate) in support of the satisfactory operation of the goods as specified above shall invariably furnished.

(iii) Data to support that the manufacturer has the financial and production capacity to perform the contract and complete the supplies within the stipulated delivery period shall be furnished. for the non-manufacturer bidder data to support that he has the financial capacity to perform the contract and complete the supplies within the stipulated delivery period shall be furnished. Reports on financial standing shall be in the form of profit and loss statements, balance sheets and auditors report for the past three years, bankers certificate, etc.,

a) The bidder should have a manufacturing capacity of atleast 756 Nos. for sl. No.1 & 2 similar capacity machines per annum certified by licensing authority/ chartered accountant.

b) The annual sales turnover for the bidder should be at least Rs.561.83 lakhs for sl. No 1 & 2 in any one of the last three years (2013-2014 to 2015-2016), and it should be certified by the chartered accountants.

c) The bidder should have a cash/ credit limit of at Rs.140.46 lakhs for SL. No 1 & 2 with their bankers exclusively for this contract and a certificate for the above shall be furnished by the bankers.

(iv) Further, the manufacturer should be in continuous business of manufacturing / supplying and after sale services of products similar to that specified in the ‘Schedule of requirement’ during the last 5 years prior to bid opening. In case of non-manufacturer bidders, this condition should be satisfied by the manufacturer of the product.

1) The legal status, place of registration and principal place of business of the company or firm or partnership, etc.;

Notwithstanding anything stated above, the purchaser reserves the right to assess the bidder’s capabilities and capacity to execute the contract satisfactorily before deciding on award

Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements; and/or record of poor performance such as, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc.

Note:

1) The above post qualification requirements are to be met by the bidder (in case of manufacturer bidders) and the bidder and the manufacturer respectively (in case of non-manufacturer bidders).
manufacturer bidders) and qualification of group/sister/parent companies will not be considered for meeting the above requirement.

2) For the purpose of furnishing documentary evidence to meet the post qualification criteria, the bidder should furnish the following:

   a. The supply made to public sector/Government units in India/private sector, the bidder should submit an affidavit confirming that the performance statement given is correct along with copy of purchase order, copy of invoices, proof of payment received from Purchasers, documentary evidence (end user certificate) in support of satisfactory completion of orders and function as stated above.”

   b. The foreign manufacturer is permitted to submit an affidavit in their letter head duly signed by the authorized signatory of the manufacturer confirming that the performance statement given is correct.
## PRICE SCHEDULE - REVISED

<table>
<thead>
<tr>
<th>Sc</th>
<th>Item Description</th>
<th>Country of origin</th>
<th>Quantity &amp; Unit</th>
<th>Ex-factory Ex-warehouse Ex-showroom off-the shelf</th>
<th>Excise duty, if any</th>
<th>Packing &amp; forwardiing</th>
<th>Inland transport, Insurance and Incidental costs incidental to delivery</th>
<th>Incidental services as listed in clause 7 of SCC</th>
<th>Custom s duty</th>
<th>Unit price</th>
<th>Total price per schedule for delivery at final destination (4 x 6)</th>
<th>Sales and other taxes payable if contract is awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Boyle’s Apparatus with Mechanical Ventilator (Type I) as per specification</td>
<td></td>
<td>42 Nos.</td>
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<td></td>
</tr>
<tr>
<td>2</td>
<td>Boyle’s Apparatus with Mechanical Ventilator (Type II) as per specification</td>
<td></td>
<td>42 Nos.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

### i. Unit price in (6) (Rs. in words)

1. Boyle’s Apparatus with Mechanical Ventilator (Type I) as per Specification
2. Boyle’s Apparatus with Mechanical Ventilator (Type II) as per Specification

### a) Annual Maintenance Charges (labour only) per year /per unit for 7 years after 3 years free warranty maintenance period

1. Boyle’s Apparatus with Mechanical Ventilator (Type I) as per Specification
2. Boyle’s Apparatus with Mechanical Ventilator (Type II) as per Specification

### b) Annual Maintenance Charges (Comprehensive) for 7 years / per year / per unit after free warranty maintenance period

1. Boyle’s Apparatus with Mechanical Ventilator (Type I) as per Specification
2. Boyle’s Apparatus with Mechanical Ventilator (Type II) as per Specification

### Note:

(a) In case of discrepancy between unit price and total price, the unit price shall prevail.
(b) This price schedule should be placed in separate sealed cover “Cover B”
(c) Service tax applicable for Annual Maintenance Charges shall be indicated separately. Otherwise it will be considered as included in the rates quoted.
(d) The bidder should quote for one or both the schedules. However, the purchaser reserves the rights to order to any one of the schedule or combination of both, at their full discretion based on prices and utility factors.

Place: Signature of Bidder
Date: Name
Business Address