

**On Line Tender Notice No. 50 of 2018-19.**

Administration of  
Dadra & Nagar Haveli, U.T.,  
Office of the Directorate,  
Medical and Public Health Services,  
“Tel.No.0260-2642940, 2642961”  
email ID : [svbch.sil@gmail.com](mailto:svbch.sil@gmail.com)

No. MS/RKS/BME/2018-19/AV/248/432

Silvassa.

Date: 10/07/2018

**e-Tender Notice**

The Director of Medical and Health Services/ Member Secretary (RKS), Dadra & Nagar Haveli, Silvassa on behalf of President of India, invites online tender on <https://dnhtenders.gov.in/nicgep/app> from the Manufactures/ Authorized Dealers/ Suppliers for Purchase of Adult Ventilators under Rogi Kalyan Samiti for Shri Vinoba Bhave Civil Hospital, Silvassa.

Sr. No.	Particulars	Estimated Cost	(E.M.D.) Earnest Money Deposit	Tender Fees (Non-Refundable)	e-Tender ID No.
1.	<b>Purchase of Adult Ventilators under RKS for SVBCH, Silvassa.</b>	₹.92.90 Lacs	₹.2,32,000/-	₹.1000/-	2018_UTDNH_2876_1

Bid document downloading Start Date : **10.07.2018.**  
Bid document downloading End Date : **31.07.2018, 12:00 Hrs.**  
Last Date & Time for receipt of Bid : **31.07.2018, 14.00 Hrs.**  
Preliminary Stage Bid Opening Date : **31.07.2018, 15.00 Hrs.**  
Technical Stage Bid Opening Date : **31.07.2018, 15.30 Hrs.**

Bidders have to submit Technical Bid and Price Bid in Electronic format only on <https://dnhtenders.gov.in/nicgep/app> website till the last date and time for submission. Technical Bid and Price Bid in Physical format shall not be accepted in any case.

Bid submission should be done along with tender Fees and EMD in original by R.P.A.D./Speed Post or to be deposited in the tender box kept in the office of the undersigned. However, Tender Inviting Authority shall not be responsible for any postal delay. Tenders can be downloaded from [www.dnhtenders.gov.in](http://www.dnhtenders.gov.in), [www.dnh.nic.in](http://www.dnh.nic.in) and [www.vbch.dnh.nic.in](http://www.vbch.dnh.nic.in)

1. The EMD and Tender Fees should not be forwarded by cash.
2. The Tender Fees will be accepted only in form of DD/A/c payee Cheque of any Nationalized or Scheduled Bank of India payable in Silvassa.
3. The EMD will be accepted in form of FDR /A/c Payee Demand Draft / Bankers Cheque or Bank Guarantee from any Commercial Banks in an acceptable form payable at silvassa in favor of under signed.

The tender inviting authority reserves the right to accept or reject any or all the tender to be received without assigning any reasons thereof. In case bidder needs any clarification on the process of bidding for participating in online tender for further details, correspondence can be made on E-mail: [cphp-nic\[at\]nic\[dot\]in](mailto:cphp-nic[at]nic[dot]in), Mobile No: +91-7878007972 and +91-7878007973, Tel No. 1800 3070 2232 Website: [www.dnhtenders.gov.in](http://www.dnhtenders.gov.in).

*Sd/-*

**Director**

Medical & Public Health Services/  
Member Secretary (RKS)  
“Tel.No.0260-2642940, 2642961”  
email ID : [svbch.sil@gmail.com](mailto:svbch.sil@gmail.com)

**Copy to :-**

- 1) CPO, Dadra & Nagar Haveli, Silvassa for wide publicity in Newspaper.
- 2) Director General, Indian Trade Journal, Kolkata for publication on Newspaper.
- 3) I.T. Department, D&NH, Silvassa with a request to publish in Website.
- 4) Accounts Section, DMHS, Silvassa for information.
- 5) P&T Department, DMHS, Silvassa for information.

U.T. ADMINISTRATION OF DADRA & NAGAR HAVELI,  
OFFICE OF THE DIRECTORATE,  
MEDICAL AND PUBLIC HEALTH DEPARTMENT,  
SILVASSA

**Terms and Conditions for the “Purchase of Adult Ventilators from Open Market for Shri Vinoba Bhavé Civil Hospital, Silvassa.”**

❖ **Instructions to Bidders :**

- 1) All Tender Documents can be downloaded free from the website <https://dnhtenders.gov.in/nicgep/app>
- 2) All bids should be submitted online on the website <https://dnhtenders.gov.in/nicgep/app>
- 3) The user can get a copy of instructions to online participation from the website <https://dnhtenders.gov.in/nicgep/app>
- 4) The suppliers should register on the website through the “New Supplier” link provided at the home page, the registration on the site should not be taken as registration or empanelment or any other form of registration with the tendering authority.
- 5) The application for training and issue of digital signature certificates should be made at least 72 hours in advance to the due date and time of tender submission.
- 6) For all queries regarding tender specifications and any other clauses included in the tender document should be addressed to personnel in tendering office address provided below:

**The Director of Medical & Health Services,  
Shri Vinoba Bhavé Civil Hospital Campus,  
U.T. of Dadra & Nagar Haveli, Silvassa - 396 230.  
Tel: 0260-2642940, 2640615, 2630102, Fax: 0260-2642961.**

- 7) All documents scanned/attached should be legible / readable. A hard copy of the same may be send which the department will be use if required. Uploading the required documents in <https://dnhtenders.gov.in/nicgep/app> is essential.
- 8) The Bidder has to give compliance for each quoted product for any false / misleading statement in compliance found any time during the procurement process, the bid shall be outrightly rejected & EMD shall be forfeited.

**Keydates:**

Bid document downloading Start Date	:	<b>10.07.2018.</b>
Bid document downloading End Date	:	<b>31.07.2018, 12:00 Hrs.</b>
Last Date & Time for receipt of Bid	:	<b>31.07.2018, 14.00 Hrs.</b>
Preliminary Stage Bid Opening Date	:	<b>31.07.2018, 15.00 Hrs.</b>
Technical Stage Bid Opening Date	:	<b>31.07.2018, 15.30 Hrs.</b>

The Tenders shall be submitted in two-bid system, wherein the Technical bid and Commercial Bid is to be filled online on <https://dnhtenders.gov.in/nicgep/app> and the EMD and Tender Fee has to be submitted in Tender Box along with a covering letter. The envelope should be super scribing as “**e-Tender - Sealed Cover of Bid for Purchase of Adult Ventilators from Open Market for Shri Vinoba Bhawe Civil Hospital, Silvassa**”. The EMD and Tender Fees should be enclosed with BID only.

❖ **Tender Fees (Non Refundable) `1,000/- :**

- a. The Tender Fees should not be forwarded by cash.
- b. The Tender Fees (Non Refundable) will be accepted only in form of DD/A/c payee Cheque in favor of “**Member Secretary, Rogi Kalyan Samiti, Silvassa**” from any Nationalized or Scheduled Bank of India payable in Silvassa.
- c. All tenders must be accompanied by Tender fees as specified in schedule otherwise tender will be rejected.

❖ **Earnest Money Deposit `2,32,000/- :**

- a. All tenders must be accompanied by EMD as specified in schedule otherwise tender will be rejected.
- b. Any firm desires to consider exemption from payment of Earnest Money Deposit, valid and certified copies of its Registration with D.G.S. & D. should be attached to their tenders.
- c. EMD can be paid in either of the form of following:
  - i. A/c Payee Demand Draft
  - ii. Fixed Deposit Receipts
  - iii. Bank Guarantee

In favor of “**Member Secretary, Rogi Kalyan Samiti, Silvassa**” from any Nationalized or Scheduled Bank authorized by RBI to undertake Government Business.

- d. EMD should be valid upto **12 (Twelve Months)** from the date of its issuance.
- e. EMD in any other forms will not be accepted.
- f. EMD/Security Deposit shall be liable to be forfeited in following circumstances:
  - i. Tender is rejected due to failure of supply the requisite documents in proper format or giving any misleading statement or submission of false affidavit or fabricated documents.

- ii. In case, the contractor does not execute the supply order placed with him within stipulated time, the EMD of the contractor will be forfeited to the Government and the contract for the supply shall terminated with no further liabilities on either party to the contract.
- iii. Tenderer fails to replace the goods declared to be not of standard quality or not conforming to acceptable standards or found to be decayed/spoilt.
- g. The amount of Earnest Money paid by the tenderer(s) whose tenders are not accepted will be refunded to them by cheque or Demand Draft (as may be convenient to the Tender Inviting Officer if the amount is above ` .200/-) drawn on any Nationalized or Scheduled Bank payable at Silvassa. Where this mode of payment is not possible the amount will be refunded at the cost of the tenderer.
- h. Only on satisfactory completion of the supply order for and on payment of all bills of the contractor, as to be admitted for payment, the amount of Security Deposit/Earnest Money will be refunded after expiry of guarantee/warranty period, if any, or any such date/period as may be mutually agreed upon.
- i. The Earnest Money(s) paid by the tender(s) earlier against any tender(s) or supply order(s) is not adjustable with Earnest Money required by these conditions.

❖ **Security Deposit: (SD)**

- a. The successful tenderer will have to pay within 10 days from the date of demand, an amount equal to 10% of the total value of articles, which may be ordered, as the amount of security deposit.
- b. Non receipt of Security Deposit within stipulated time will result in automatic cancellation of the order for supply without any intimation.
- c. The Security Deposit(s) paid by the tender(s) earlier against any tender(s) or supply order(s) is not adjustable with Security Deposit required by these conditions.
- d. In case of failure to replace the accepted and rejected articles from the supplies made, as mentioned in the conditions the loss undergone by the Government will be recovered from the contractor Security Deposit or payment due of any bill(s) to the extend required.
- e. The tender inviting officer will consider extension of time for remitting the Security Deposit as demanded. However, in case of denial to consider such extension the contractor is bound to abide by the limit given and liable to make good for the loss made to the Government on account of his failure to abide by the time limit.

❖ **Conditions of Contract :**

**1. ACCEPTANCE OF TENDER:**

- a. The tender is liable for rejection due to any of the reasons mentioned below:
  - i. Non-Submission of tender within stipulated time online.
  - ii. Submission of tender physically in the Office but not submitted online on <https://dnhtenders.gov.in/nicgep/app>

- iii. Tender is unsigned or not initialed on each page or with unauthenticated corrections.
  - iv. Non-payment of Earnest Money Deposit (if not exempted)
  - v. Non-Submission of required documents as mentioned in schedule
  - vi. Conditional / Vague offers.
  - vii. Unsatisfactory past performance of the tenderer.
  - viii. Items with major changes/ deviations in specifications/ standard/ grade/ packing/ quality offered.
  - ix. Offering an accessory optional even though required to operate the instrument.
  - x. Submission of misleading/contradictory/false statement or information and fabricated/ invalid documents.
  - xi. Tenders not filled up properly.
  - xii. Non-submission of AMC / CMC rates in prescribed format.
- b. Any discount which the bidder wants to give has to be considered and total final bid amount has to be mentioned clearly in the price bid form on <https://dnhtenders.gov.in/nicgep/app>
- c. Discount offered after price bid opening will not be considered.
- d. The consolidated rates entered in the online website will be taken in to account for preparing price statements. However the tender which is found technically acceptable as well as lowest in terms of evaluated rates only be considered for placing the order.
- e. The Director, Medical and Health Services may seek any clarifications/ explanation/ documentary evidence related to offer at any stage from tenderers if required.
- f. The rate should be quoted in the prescribed form given by the department; **the rate should be valid upto One Year from the date of tenderization.**
- g. All/Taxes/Duties/Royalties Charges payable on the sales/transport etc. within and/or outside the state shall be payable by the supplier.
- h. The decision of the Tender Inviting Officer for acceptance/rejection of any articles supplied including the decision for equivalent specifications, standard and quality etc. of articles shall be final.
- i. The right to accept or reject without assigning any reasons or all tenders in part or whole is reserved with the Tender Inviting Officer and his decision(s) on all matters relating to acceptance or rejection of the tenders as a whole or in part will be final and binding to all.
- j. No separate agreement will be required to be signed by the successful tender(s) for the purpose of this contract for supply. Rates tendered/offered in response to the concerned Tender Notice shall be considered as acceptance of all above terms and conditions for supply for all legal purpose.

- k. The rate(s) quoted should be strictly for free delivery at FOR Shri Vinoba Bhave Civil Hospital and will be valid and operative for supply orders issued within one year from the date of invitation of tenders.
- l. The department shall not take any responsibility of unloading the goods; the successful bidder has to make arrangements for unloading at the site.
- m. Bidder / its sister concerns / companies where its Promoters / Directors either directly or indirectly are involved, should not have ever been blacklisted in tender / supplies by any state/Central Govt . Bidder should submit affidavit in this regard. The bidder should provide accurate information of litigation or arbitration resulting from contracts completed or under execution by him over the last ten years. False affidavit would lead to blacklisting and termination of the contract at any stage. In such cases all the losses that will arise out of this issue will be recovered from the Tenderer / Contractor and he will not have any defence for the same. In case of bidder / principal is involved / penalized under any investigation of CVC or any State/Central Govt. Commission in relation to the similar work project issue; the bid will be out rightly rejected.

## **2. TERMS OF WORK EXECUTION :**

- a. Extension of time limit of work order shall be considered by the Tender Inviting Officer. The extension so granted may be without levy of compensation for delay in execution of work the cost of work order for at the discretion of the authority competent to grant extension of time limit provided such request is made well in time, depending upon the circumstances and such decision in the matter will be final.
- b. Inspection will be carried out in the premises of Shri VBCH. If goods to be inspected in factory premises all expenditure to be borne by the Tenderer.

## **3. Bid Evaluation Methodology :**

- A. **Preliminary Evaluation:** Tender Fee and EMD Submission.
- B. **Technical Evaluation:**
  - Scrutiny of technical specifications and other relevant documents as asked by the department with the quoted specification.
  - Scrutiny of Compliance Statement given by the bidder.
  - Technical Demonstration if required.
- C. **Financial Evaluation:** Lowest quoted offered by Technically Qualified Bidders

**4. PAYMENT TERMS :**

- a. 100% of the invoice amount will be paid only after completion of work successfully and submission of Security deposit i.e. 10% of the tender value.
- b. Price escalation clause will not be entertained under any circumstances.
- c. All bills should be in **TRIPLICATE** and should invariably mention the number and date of work order.
- d. All bills for amount above ` .5,000/- should be pre-receipted on a Revenue Stamp of proper value. Bills for amount exceeding ` .5,000/- not pre-receipted on Revenue Stamp of proper value will not be accepted for payment.
- e. Each bill in which Service Tax is charged must contain the following certificates on the body of the bill: **“CERTIFIED”** that the service on which Service Tax has been charged have not been exempted under the Central Service Tax Act or the Rules made there under and the amount charged on account of Service Tax on these service is not more than what is payable under the provisions of relevant Act or Rules made there under”.
- f. No extra charge for transportation, forwarding and insurance etc. will be paid on the rates quoted.
- g. The rates should be quoted only for the work specified in the list of requirement.

Signature of Agency  
With Rubber Stamp

*Sd/-*  
**Director**  
Medical & Public Health Services/  
Member Secretary (RKS)  
“Tel.No.0260-2642940, 2642961”  
email ID : svbch.sil@gmail.com



**ANNEXURE - A**

**UNDERTAKING :**

From: M/s.....

No.....

.....

.....

To  
Director,  
Medical & Public Health Services  
Shri VBCH Campus,  
Dadra & Nagar Haveli,  
Silvassa - 396 230.

**Sub:** Supply of Adult Ventilators .....

**Ref:** Tender Enq #.....

Sir,

I/We enclose the necessary documents duly signed, as shown in Annexure 'B' (in order in which they are mentioned). I/We have carefully read and understood the terms and conditions stated in the tenders from and I/We shall abide by all these conditions. I/We further endorse that in particular, the terms and conditions of Delivery Period, Payment Terms, Place of Delivery etc are acceptable to me/us and no representation will be made by me/us afterwards for altering the same.

I/We verify the copies of the certificates/documents enclosed herewith are authentic true copies of the original certificates/documents for verification on demand. I/We undertake to upload the attested copies of certificates/documents required on the website.

I/We will be cautious to see that the uploaded scan documents are legible and i/we understand that if the documents are not legible, my/our tender will be rejected.

I/We verify that I/We are in possession of the requisite licenses/permits required for the manufacture /supply /sale /distribution of the items and further verify that the said licenses/permits have not been revoked/cancelled by the issuing authorities and are valid as on date. I/We also verify that I/We have not been declared defaulter, blacklisted or debarred by any State or Central Government or Constitutional authority or Financial Institution or Judicial Court or any Government undertakings.

I/We also take cognizance of the fact that providing misleading or questionable information or failure to furnish correct or true information to you or any other Officer or failure to comply with any contractual requirement laid down by you will be considered as a serious breach of the terms and conditions of the tender and will invite disqualification and other penal action as deemed fit by the UT Administration.

Thanking You,

Yours faithfully,

Sign & Stamp of Tenderer.

**ANNEXURE - B**

**SCHEDULE OF DOCUMENTS ATTACHED**

<b>Sr. No.</b>	<b>Document / Certificate</b>	<b>Uploaded &amp; Enclosed</b>
<b>A.</b>	<b>General Documents :</b>	
01.	PAN No.	Yes / No
02.	GST Registration.	Yes / No
03.	ISO Certificate.	Yes / No
04.	Partnership Deed / Memorandum / Registration of Firm, etc.	Yes / No
05.	Turnover Certificate of Chartered Accountants for last Two Years.	Yes / No
06.	Verification, Undertaking, Checklist and Documents as per Annexure - A.	Yes / No
07.	Scan copy of Terms and Conditions of the tender documents duly Stamped and Signed on each page.	Yes / No
08.	Scan copy of Scope of Work correctly filled with Stamped and Signed on each page.	Yes / No
09.	Affidavit Notorised on Stamp paper - As per clause mentioned at Conditions of Contract - Acceptance of Tender at point - (M)	Yes / No
10.	CE & FDA Certificate.	Yes / No
11.	Original Product Literature of each quoted product.	Yes / No
12.	List of Installations / Users / Customers with Phone Numbers.	Yes / No
13.	Compliance Statement as per format on Annexure - C.	Yes / No
14.	Scan copy of Annexure - B of the Tender Documents duly Stamped and Signed.	Yes / No

It is verified that all the certificates/permissions/documents are valid and current as on date and have not been withdrawn/cancelled by the issuing authority. It is further verified that the represents at Sr.No. A-6, A-9 & A-13 declaration part are as per the format prescribed by the Administration and it is clearly and distinctly understood by me/us that the tender is liable to be rejected if on scrutiny and of these certificates is found to be not as per the prescribed format of Administration.

I/We further undertake to produce on demand the original certificate/ permission/ document for verification at any stage during the processing of the tender.

Date:

Place:

Sign & Stamp of tenderer.

**ANNEXURE - C**

Item Name: \_\_\_\_\_

Model Quoted: \_\_\_\_\_

Make: \_\_\_\_\_

<b>Sr. No.</b>	<b>Specification asked in tender</b>	<b>Specification offered in quoted model</b>	<b>Remarks of deviation</b>

- ❖ The format should be used separately for each quoted item on Manufacturer's or Authorized Dealer's Letter Head.

Date:

Place:

Sign & Stamp of tenderer

**AMC / CMC Details:**

1. The Warranty/Guarantee for one year and free service clause to be clearly mentioned by the Manufacturer on their letter head. If the Authorized dealer is going to carry out the service then they have to furnish the authority letter given by the manufacturer to sale/service the specified product in this Territory.
2. Rates for **AMC / CMC Maintenance Contract of Adult Ventilators** for Seven Year should be mentioned separately in the Financial Bid. It should be clearly mentioned whether AMC / CMC will be done through company itself or its service franchise/dealers. In that case Manufacturing Company must give authority letter to such franchise/dealers on their letter head clearly mentioning free service period and AMC / CMC for period of Seven Years.

Type of AMC / CMC	AMC Rate (excluding taxes)	CMC Rate (excluding taxes)	Executed by (manufacturers/authorized service dealers) Name and address to be specified here
1 <sup>st</sup> Year (after one year warranty)			
2 <sup>nd</sup> Year			
3 <sup>rd</sup> Year			
4 <sup>th</sup> Year			
5 <sup>th</sup> Year			
6 <sup>th</sup> Year			
7 <sup>th</sup> Year			

**Note:**

1. Quoted AMC / CMC price not more than 10% cost of the system, otherwise offer will be outrightly rejected. The rates of AMC / CMC price should be quoted in Indian Rupees only.
2. The Rates quoted should be excluding taxes. Taxes shall be applicable extra as prevalent in the respective Year.
3. The AMC/CMC rates should be mentioned on Manufacturer's letter head or Authorized Service dealer letter head accompanying the dealership letter, else outrightly rejected.

**SCOPE OF WORK:**

**Schedule of Requirements, Specifications and Allied Technical Details:**

**Purchase of Adult Ventilators from Open Market under RKS  
for Shri Vinoba Bhave Civil Hospital, Silvassa for the Year 2017-18.**

***Please fill the details as mentioned below and attach the Scan copy of the same.  
Format is as under :***

Sr. No.	Particulars	Unit / Rate	Qty. Reqd.	Make	Model	Compliance Yes / No
1.	<p><b><u>Adult Ventilator :-</u></b>  <b>A) Principle</b> - Time cycled, volume constant, pressure controlled ventilator  <b>B) Use and application –</b>  <ul style="list-style-type: none"> <li>o The ventilator should be suitable for use in Adult and Paediatric patients in all critical care areas.</li> <li>o The ventilator should have both invasive and non invasive ventilation modes. Non invasive ventilation should be possible in all modes from control to spontaneous.</li> </ul> <b>C) Power –</b> The ventilator should run on both mains and battery as below:  <ul style="list-style-type: none"> <li>o Mains Power – 230 V 50 Hz with onscreen battery power indication.</li> <li>o Battery – Internal battery with minimum 45minutes to one hour battery backup with onscreen battery power indication. The internal battery should also power the internal air source.</li> <li>o External / Additional batterybackup - 4 hours (may be offered separately) and should be flush mounted on the trolley.</li> </ul> <b>D) Air Source -</b> Should have an integrated internal air source :  <ul style="list-style-type: none"> <li>o For delivering continuous flow upto 180 lpm in all control modes.</li> <li>o For delivering continuous flow upto 250 lpm in spontaneous breathing mode with pressure support.</li> <li>o The air source should be powered by the internal battery for at least 45 minutes.</li> <li>o The air source should have integrated dust filters which should be easily removable and washable.</li> <li>o Bacteria filters for delivering medical grade air should be integrated in the turbine.</li> <li>o The air source should have a mean time between failure/life of 8 years. Same should be confirmed in writing by vendor</li> </ul> </p>	1 Nos.	07			

**e-tender ID No. 2018\_UTDNH\_2876\_1 Purchase of Adult Ventilators  
under RKS for Shri Vinoba Bhave Civil Hospital, Silvassa for the Year 2018-19.**

Sr. No.	Particulars	Unit / Rate	Qty. Reqd.	Make	Model	Compliance Yes / No
	<p><b>E) Graphical Interface</b> – All commands and settings should be through an integrated 12 inch colour touchscreen. The 12 inch display should show :</p> <ul style="list-style-type: none"> <li>○ At least 3 curve from pressure, flow, volume or Capnography (optional).</li> <li>○ The curves should be filled curves for easy viewing at a distance.</li> <li>○ Any loops from PV, FV, PF should be displayed in any combination such as: <ul style="list-style-type: none"> <li>▪ waveforms + loops</li> <li>▪ single loop on screen</li> <li>▪ waveform + loops + trends</li> </ul> </li> <li>○ It should be possible to freeze the loops and calculate with cursor the inflection points</li> <li>○ It should be also possible to keep a reference point for loops</li> <li>○ Integrated Graphical trend for 24 hours should be available for monitored parameters</li> <li>○ Integrated Tabular trend also should be available</li> <li>○ There should be a day/ night mode for easy viewing at night.</li> <li>○ The numerical readings should be freely configurable as per user wish in ANY order</li> </ul> <p><b>F) Valve response time</b> –</p> <ul style="list-style-type: none"> <li>○ The ventilator should have extremely sensitive valve with response time <math>\leq 5</math> msec for ensuring quick delivery of gases during spontaneous breathing (proof of same to be shown in technical data sheet)</li> </ul> <p><b>G) Nebuliser</b></p> <ul style="list-style-type: none"> <li>○ The ventilator should have a simple pneumatic nebuliser which should be inspiration synchronised and volume compensated. This should be supplied as standard scope of supply.</li> </ul> <p><b>H) Oxygen Cell</b></p> <ul style="list-style-type: none"> <li>○ The ventilator should have low operating costs with a permanent/ non consumable O<sub>2</sub> sensor for FiO<sub>2</sub> monitoring. Same should be offered as standard.</li> <li>○ In case consumable/ electrochemical O<sub>2</sub> cells are offered by a vendor, same should be provided free of charge for operational lifetime of equipment of 8 years.</li> </ul> <p><b>I) Flow sensor :</b></p> <ul style="list-style-type: none"> <li>○ The flow sensor should be of heated wire type for higher accuracy.</li> <li>○ It should calibrate within 5 seconds and</li> </ul>					

**e-tender ID No. 2018\_UTDNH\_2876\_1 Purchase of Adult Ventilators  
under RKS for Shri Vinoba Bhave Civil Hospital, Silvassa for the Year 2018-19.**

Sr. No.	Particulars	Unit / Rate	Qty. Reqd.	Make	Model	Compliance Yes / No
	<p>without necessity to disconnect from patient.</p> <ul style="list-style-type: none"> <li>○ It should be easily replaceable without disassembling the machine or disassembling the expiratory valve.</li> <li>○ At least 10 No.s flow sensor should be supplied for the lifetime of the equipment.</li> </ul> <p><b>J) Disposables</b> - For highly infectious diseases, disposable patient hoses, disposable expiratory valves and disposable HMEs for adults and paediatrics should be offered as per scope of supply.</p> <p><b>K) Suction / Oxygen enrichment –</b></p> <ul style="list-style-type: none"> <li>○ 100% O2 enrichment for 3 minutes with automatic time countdown.</li> <li>○ Disconnection detection.</li> </ul> <p><b>L) Modes of Ventilation</b> - The ventilator should have the following ventilation modes as standard with quick touchscreen based operation / change from one mode to another:</p> <ul style="list-style-type: none"> <li>○ Volume Control – Control, Assist Control, SIMV with/ without Pressure support</li> <li>○ Sigh – <ul style="list-style-type: none"> <li>▪ pressure oriented sigh to avoid volutrauma/ barotraumas</li> <li>▪ should be adjustable above the set PEEP.</li> <li>▪ Automatically available every 3 minutes for 2 breaths</li> <li>▪ Adjustable 0 – 20 cmH2O above PEEP</li> </ul> </li> <li>○ CPAP with/without Pressure Support <ul style="list-style-type: none"> <li>○ PC-BIPAP – Biphasic (and not Bi-Level) with/without Pressure Support with spontaneous breathing at two pressure levels. Should be one pressure mode from intubation to extubation</li> </ul> </li> <li>○ AutoFlow or equivalent Dual Control Mode for : <ul style="list-style-type: none"> <li>▪ delivering tidal volume at lowest possible airway pressure</li> <li>▪ should be possible to combine in all volume control modes</li> <li>▪ <b>should allow spontaneous breathing in all volume controlled modes</b></li> </ul> </li> <li>○ Apnoea backup ventilation mode with adjustable tidal volume and rate</li> <li>○ Non Invasive Ventilation <ul style="list-style-type: none"> <li>▪ Should be possible to be used in all modes – from control to spontaneous</li> <li>▪ Should have leakage compensation upto 200% of tidal volume</li> </ul> </li> </ul>					



**e-tender ID No. 2018\_UTDNH\_2876\_1 Purchase of Adult Ventilators  
under RKS for Shri Vinoba Bhave Civil Hospital, Silvassa for the Year 2018-19.**

Sr. No.	Particulars	Unit / Rate	Qty. Reqd.	Make	Model	Compliance Yes / No																												
	<ul style="list-style-type: none"> <li>▪ The alarm limits and compensation criteria should get modified based on selection of Tube / Mask ventilation mode for all the modes</li> <li>▪ The unit should be supplied with Face/ Nasal Masks with gel cushion for face, adjustable cushion pad for nasal bridge and magnetic connectors for quick fastening</li> <li>▪ The mask should be non vented type for use in a dual limb circuit and preferably from same vendor.               <ul style="list-style-type: none"> <li>○ MMV or equivalent Volume mode for one volume controlled mode from intubation to extubation ; combined with or without Pressure Support and AutoFlow</li> <li>○ Inspiration Hold key for maximum of 15 seconds</li> <li>○ Expiration Hold for Maximum of 15 seconds</li> <li>○ Intrinsic PEEP maneuver with trapped volume measurement</li> </ul> </li> </ul> <p><b>Should have BTPS compensated settings :</b></p>																																	
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Tidal Volume in Volume modes</td> <td>50 ml to 2000 ml. Optional upgrade to be available for 20 ml</td> </tr> <tr> <td>Inspiratory Pressure</td> <td>1 – 99 cmH<sub>2</sub>O</td> </tr> <tr> <td>CPAP/PEEP /Intermittent PEEP</td> <td>0 – 50 cmH<sub>2</sub>O</td> </tr> <tr> <td>Inspiratory Rate</td> <td>2– 80 bpm</td> </tr> <tr> <td>Inspiratory Time</td> <td>0.2 – 10 sec</td> </tr> <tr> <td>Flow acceleration</td> <td>5 – 200 mbar (to deliver continuous peak flow upto 180 lpm)</td> </tr> <tr> <td>Flow Trigger</td> <td>1 – 15 lpm</td> </tr> <tr> <td>Pressure support</td> <td>0 – 50 cmH<sub>2</sub>O above PEEP</td> </tr> <tr> <td>Manual Inspiratory hold</td> <td>0 – 15 sec</td> </tr> <tr> <td>Sigh (Pressure oriented)</td> <td>0 – 35 cmH<sub>2</sub>O, every 3 minutes for 2 cycles</td> </tr> <tr> <td>FiO<sub>2</sub> Apnoea alarm timing</td> <td>21 - 100% 15 – 60 seconds</td> </tr> <tr> <td>Automatic altitude compensation</td> <td>700 – 1060 hPa/ mbar/ CmH<sub>2</sub>O/</td> </tr> <tr> <td>Sigh pressure</td> <td>0 – 20 CmH<sub>2</sub>O above PEEP</td> </tr> <tr> <td>Inspiration termination Criteria</td> <td>5 – 75% of Peak Inspiratory Flow</td> </tr> </table>	Tidal Volume in Volume modes	50 ml to 2000 ml. Optional upgrade to be available for 20 ml	Inspiratory Pressure	1 – 99 cmH <sub>2</sub> O	CPAP/PEEP /Intermittent PEEP	0 – 50 cmH <sub>2</sub> O	Inspiratory Rate	2– 80 bpm	Inspiratory Time	0.2 – 10 sec	Flow acceleration	5 – 200 mbar (to deliver continuous peak flow upto 180 lpm)	Flow Trigger	1 – 15 lpm	Pressure support	0 – 50 cmH <sub>2</sub> O above PEEP	Manual Inspiratory hold	0 – 15 sec	Sigh (Pressure oriented)	0 – 35 cmH <sub>2</sub> O, every 3 minutes for 2 cycles	FiO <sub>2</sub> Apnoea alarm timing	21 - 100% 15 – 60 seconds	Automatic altitude compensation	700 – 1060 hPa/ mbar/ CmH <sub>2</sub> O/	Sigh pressure	0 – 20 CmH <sub>2</sub> O above PEEP	Inspiration termination Criteria	5 – 75% of Peak Inspiratory Flow					
Tidal Volume in Volume modes	50 ml to 2000 ml. Optional upgrade to be available for 20 ml																																	
Inspiratory Pressure	1 – 99 cmH <sub>2</sub> O																																	
CPAP/PEEP /Intermittent PEEP	0 – 50 cmH <sub>2</sub> O																																	
Inspiratory Rate	2– 80 bpm																																	
Inspiratory Time	0.2 – 10 sec																																	
Flow acceleration	5 – 200 mbar (to deliver continuous peak flow upto 180 lpm)																																	
Flow Trigger	1 – 15 lpm																																	
Pressure support	0 – 50 cmH <sub>2</sub> O above PEEP																																	
Manual Inspiratory hold	0 – 15 sec																																	
Sigh (Pressure oriented)	0 – 35 cmH <sub>2</sub> O, every 3 minutes for 2 cycles																																	
FiO <sub>2</sub> Apnoea alarm timing	21 - 100% 15 – 60 seconds																																	
Automatic altitude compensation	700 – 1060 hPa/ mbar/ CmH <sub>2</sub> O/																																	
Sigh pressure	0 – 20 CmH <sub>2</sub> O above PEEP																																	
Inspiration termination Criteria	5 – 75% of Peak Inspiratory Flow																																	

**e-tender ID No. 2018\_UTDNH\_2876\_1 Purchase of Adult Ventilators  
under RKS for Shri Vinoba Bhave Civil Hospital, Silvassa for the Year 2018-19.**

Sr. No.	Particulars	Unit / Rate	Qty. Reqd.	Make	Model	Compliance Yes / No
	<ul style="list-style-type: none"> <li>• Should have BTPS compensated real time monitoring of:               <ul style="list-style-type: none"> <li>○ Pressure - Peak, Plateau, Mean, CPAP/PEEP</li> <li>○ Intrinsic PEEP with trapped Volume</li> <li>○ Tidal Volume - Set (Inspired), Monitored (expired), spontaneous</li> <li>○ Minute Volume - Total, Spontaneous, Leak</li> <li>○ Peak Flow, Plateau time</li> <li>○ Frequency/ Rate - Set (Inspiratory), Spontaneous, total, I:E Ratio</li> <li>○ FiO2 measured</li> <li>○ Airway Temperature (if active humidifier is used)</li> <li>○ Lung Mechanics - Resistance, Compliance, Rapid Shallow Breathing Index (RSB)</li> </ul> </li> <li>• Should have three level (Advice- Caution – Warning) ISO alarm management with different audio visual color coded alarms, including corrective help messages on the screen for :-               <ul style="list-style-type: none"> <li>○ High / low Pressure</li> <li>○ High / low Minute Volume</li> <li>○ High Rate</li> <li>○ High Tidal Volume</li> <li>○ Apnoea / apnoea alarm time</li> <li>○ High / low O2 % (automatic settings)</li> <li>○ Oxygen line failure</li> <li>○ Technical error (with error code)</li> <li>○ Incorrect / abnormal settings – with warning message</li> </ul> </li> </ul> <p><b>M) Scope of supply should include</b></p> <ul style="list-style-type: none"> <li>○ Basic Unit ( 220 - 240 V)with integrated 12 inch touch screenand integrated internal battery to power internal turbine/ air source.</li> <li>○ Modular corrosion free Trolley - should be imported, of same make as the quoted brand and no local substitute will be accepted/ should be offered.</li> <li>○ 1 set reusable Silicon Hose set for Adults,1 set reusable silicon Hose set for children.</li> <li>○ Heated Flow sensor - 10 nos</li> <li>○ Reusable autoclavable expiratory valve - 2 Nos (1 on machine and 1 on standby)</li> <li>○ O2 cell – should be non consumable and life long</li> </ul>					

*e-tender ID No. 2018\_UTDNH\_2876\_1 Purchase of Adult Ventilators  
under RKS for Shri Vinoba Bhave Civil Hospital, Silvassa for the Year 2018-19.*

Sr. No.	Particulars	Unit / Rate	Qty. Reqd.	Make	Model	Compliance Yes / No
	<p><b>N) Disposables :</b></p> <ul style="list-style-type: none"> <li>• Disposable Adult hose set – 20 Nos.</li> <li>• Disposable Pediatric hose set – 20 Nos</li> <li>• Disposable Adult HMEs for use from 50 – 1500 ml</li> <li>• Disposable pediatric HME for use from 20 – 200 ml</li> <li>• Oxygen connecting Hose – 3 meters</li> <li>• Nebuliser – pneumatic , inspiration synchronised</li> <li>• Hinged arm Support for patient circuit – should be imported , of same make as the quoted brand and no local substitute will be accepted/ should be offered.</li> <li>• Integrated RS232C Interface.</li> <li>• Test Lung – preferable from same vendor.</li> <li>• Instruction Manual.</li> </ul> <p><b>O) <u>Quality Standards and Support requirements</u></b></p> <ul style="list-style-type: none"> <li>○ The offered unit should have CE &amp; FDA certificate.</li> <li>○ The unit should comply with relevant IEC Certification, Environmental conditions, Electromagnetic compatibility ICE/ EN 60601-1-2</li> <li>○ Indian subsidiary/ dealer should have nationwide network, support offices and must be also ISO 9001 certified.</li> </ul> <p><b><u>Buyback of :-</u></b></p> <p><b>1. 10 Years old Adult Ventilator Air Liquide Make Horus Model (4 Nos) and Extend Model (1 Nos) all in Working Conditions.</b></p> <p><b>2. 10 Years Old Portable Ventilator Air Liquid Make Teama Model (2 Nos) all in Working Conditions.</b></p>					

Signature of Agency  
With Rubber Stamp

*Sd/-*  
**Director**  
Medical & Public Health Services/  
Member Secretary (RKS)  
“Tel.No.0260-2642940, 2642961”  
email ID : svbch.sil@gmail.com