

All India Institute of Medical Sciences

Veerbhadra Marg, Pashulok,
Rishikesh-249203



Tender document for procurement of

Neonatal Ventilator

Department of Paediatric Surgery

Tender fees (Rs.1000 +VAT@14.5% Rs.145)Rs.1145

EMD Rs 1,00,000.00 (One Lac Only)

Date of Pre-bid Conference: 16/06/2017

Date of submission of Bid: 30/06/2017

TENDER NOTICE

**Equipment for the Department of Paediatric Surgery
AIIMS, Rishikesh, Virbhadra Marg, Rishikesh, Dehradun
Dated: 05-06-2017**

1. Sealed tenders in Two Bids (Technical & Financial) are invited on behalf of the Director, All India Institute of Medical Sciences, Rishikesh from interested and eligible manufacturer or their authorised distributors, for providing **Neonatal Ventilator** for the Department of **Paediatric Surgery**, AIIMS **Rishikesh**.
2. The interested manufacturer or their authorised dealers/ distributors are required to submit the technical and financial bid separately. The bids in Sealed Cover-I containing “Technical Bid” and Sealed Cover-II containing “Financial Bid” should be placed in one sealed cover envelop super scribed “**Tender For “Neonatal Ventilator** for the Department of **Paediatric Surgery**” and should reach at the office of “**The Administrative Officer, AIIMS, Rishikesh, Virbhadra, Marg Rishikesh (Dehradun) - 249201**, before 03.00 PM on or before dated 30-06-2017. The bid received after due date and time will not be entertained whatsoever may be the reason. The technical bids shall be opened on the same day at 03.00 PM at Tender Opening Room, AIIMS, Rishikesh in presence of persons representing the prospective bidders. In the event of any of the above mentioned date being declared as a holiday / closed day, the tenders will be opened on the next working day at the appointed time. The date for opening of financial bid of technically qualified agencies will be announced later.
3. The tender document containing of Seven Chapters, where technical bid form, financial bid form, technical description/specification & item and terms & conditions can be purchased from the office of Administrative Officer - AIIMS, Rishikesh from 05-06-2017 to 30-06-2017 between 10.00 AM and 02.00 PM on non-refundable payment of Rs.1145.00 (Rupees one thousand one hundred forty five only) or can be downloaded from website www.aiimsrishikesh.edu.in. Those who download the tender document from website should enclose DD/Pay Order for Rs.1145.00 (Rupees one thousand one hundred forty-five only) (*non-refundable*) in favour of “AIIMS, Rishikesh”, payable at Rishikesh, not later the date of dated 29-06-2017 along with their technical bid in the Cover-I “Technical Bid”. The bid security (EMD) for **Neonatal Ventilator** for the Department of **Paediatric Surgery** as given in table-1 below tender documents should be paid in the form of demand draft/FD/TD/CD from any Nationalised/Schedule bank duly pledged in favour of “AIIMS, Rishikesh” payable at Rishikesh and will be placed in Cover-1 with technical bid. The Tender Documents are not transferable.
4. Any enquiry about this tender document may be addressed to the Administrative Officer, for their timely resolution. Any future clarification and/or corrigendum(s) shall be communicated through Administrative Officer on the AIIMS, Rishikesh website: www.aiimsrishikesh.edu.in. and other Central Government Procurement Websites (*subject to its access of AIIMS Rishikesh*).The bidders are required to regularly check the website to know about any/all such corrigendum(s) as only these bids, taking care of such corrigendum(s) shall be considered for finalisation of the tender.
5. Bidder should necessarily enclose a covering letter mentioning a summary of applied document with proper numbering. Secondly, bid should also attach a compliance sheet as per specification mentioning that they are complying to all specification or have any variation.

**Administrative Officer
AIIMS, Rishikesh
0135-2462915**

TENDER DOCUMENT**Chapter-I****(Instructions to bidder & conditions of contract)****(A) General Information and Conditions relating to Submission of Bids**

1. The tender document containing eligibility criteria, scope of work, terms & conditions and draft agreement can be purchased from AIIMS, Rishikesh on any working day from **05-06-2017 to 30-06-2017** between 10.00 AM to 02.00 PM on payment of non-refundable charges of Rs 1145/- (Rupees one thousand one hundred forty five only) or can be downloaded from website www.aiimsrishikesh.edu.in. Those who download the tender document from Website should enclose a Demand Draft/Pay Order for Rs 1145/- (Rupees one thousand one hundred forty five only) in favour of **“AIIMS, Rishikesh”**, payable at Rishikesh, not later the date of 29-06-2017, along with their bid in the **Cover-I** containing “Technical Bid”.

2. The interested firms/suppliers are required to submit the Technical and Financial Bids separately in the format enclosed and they have to observe highest standard of ethics while bidding for this tender. The bids in sealed Cover-I containing **“Technical Bid”** and sealed Cover-II containing **“Financial Bid”** should be placed in a third sealed cover super scribed **“Neonatal Ventilator for the Department of Paediatric Surgery”** should reach AIIMS, Rishikesh by or before 03.00 PM on 30-06-2017. The Technical bids shall be opened on same day **at 03.00 PM** at AIIMS, Rishikesh in presence of the bidders or their authorized representatives (Authorization letter required to be submitted) who choose to remain present. The Tender received after due date & time will not be considered and no claim shall be entertained whatsoever may be the reason.

3. The pre bid conference would be held on **16-06-2017 at 03.00 PM** in the office of Tender Opening Room, AIIMS, Rishikesh. All firm's representative who are attending the pre bid meeting, shall produce an authorization letter from their firm on the firm's letter head. They are required to put their query in writing before the committee and submit the same in writing on its letter head.

4. All the duly filled/completed pages of the tender should be given serial /page number on each page and signed by the owner of the firm or his Authorized signatory. In case the tenders are signed by the Authorized signatory, a copy of the power of attorney/authorization may be enclosed along with tender. A copy of the terms & conditions shall be signed on each page and submitted with the technical bid as token of acceptance of terms & conditions. Tender with unsigned pages/incomplete/partial/part of tender if submitted will be rejected out rightly.

5. All entries in the tender form should be typed or written by pens legible and filled clearly. If the space for furnishing information is insufficient, a separate sheet duly signed by the authorized signatory may be attached. No overwriting or cutting is permitted in the Technical Bid as well as Financial Bid unless authenticated by full signature of bidder. Any omission in filling the columns of Financial Bid form (Schedule of Rates) shall debar a tender from being considered. Rates should be filled up carefully by the tenderer. All corrections in this schedule must be duly attested by full signature of the tenderers. The corrections made by using fluid and overwriting will not be accepted and tender would be rejected.

6.(i) **Bid Security:** -The bidder shall pay the respective amount of Bid Security (EMD) as mentioned in table-I along with the Technical Bid by way of demand draft/FD/TD/CD in favour of **“AIIMS, Rishikesh”** drawn on any Nationalized Bank/ Scheduled Bank and payable at Rishikesh and must be valid for (6) six month. Bids received without tender fees and Earnest Money deposit (EMD) shall stand rejected and thus shall not be considered for evaluation etc. at any stage. The original EMD will be put in cover-I containing with Technical bid.

- a) The Public Sector Undertaking of the Central/State Govt./MSEs/MSME/Registered with Central Purchase Organization are exempted from furnishing Earnest Money along with tender, **subject to submission of its valid proof.**

- b) The firms Registered with DGS & D/SSI and any approved source of Centre/States Govt. are not exempted from furnishing Earnest Money in so far as this institute is concerned.
- c) Earnest Money deposited with AIIMS, Rishikesh in connection with any other tender enquiry even if for same/similar material / Stores by the tenderer will not be considered against this tender.

(ii) EMD is required to protect the purchaser against the risk of Bidders conduct. The EMD will be forfeited if the bidder withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender or if it comes to the notice that the information/ documents furnished in its tender is incorrect or false.

7. The bid security (EMD) without interest shall be returned to the unsuccessful bidders after finalization of contract with successful bidder.

8. Bidders are not allowed to submit more than one bid anytime during the tendering process for the same/similar tendered item else all his bids shall be cancelled thereby making him disqualified in addition to the forfeiture of the EMD.

9. The successful bidders have to execute a contract on Indian non judicial stamp paper of Rs.100/- (Rupees one hundred only) within twenty-one (21) days from the date of award of this tender in his favour and also required to furnish the **Security Deposit @ 10%** of contract value in the form of FD/BG/TD/CD for **three months extra of the contract period** from any Nationalised/Schedule bank duly pledged in favour of AIIMS, Rishikesh & payable at Rishikesh only. The EMD deposited by successful bidder may be adjusted towards Security Deposit as demanded above after its validation for the required period. If the successful bidder fails to furnish the full security deposit or difference amount between Security Deposit and EMD within 21 (twenty-one) days after the issue of **Letter of Award** of Work, his bid security (EMD) shall be forfeited and award of tender in suppliers favour automatically stands terminated at his cost & liability, unless time extension has been granted by AIIMS, Rishikesh.

10. The EMD/PBG shall be forfeited if successful bidder fails to supply the goods/equipment in stipulated time or fails to comply with any of the terms & conditions of the contract or fail to sign the contract.

11. The bid shall be valid and open for acceptance by the competent authority of AIIMS Rishikesh for a period of 180 (one hundred eighty) days from the published date of opening of the tenders and no request for any variation in quoted rates and / withdrawal of tender on any ground by bidders shall be entertained. The unilateral withdraw at any stage will cause forfeiture of EMD in addition to any remedy that the purchaser may have under the law.

12. To assist in the analysis, evaluation and computation of the bids, the Competent Authority, may ask bidders individually for clarification of their bids. The request for Clarification and the response shall be in writing but no change in the price or substance of the bid offered shall be permitted.

13. After evaluation, the work shall be awarded normally to the Agency fulfilling all the conditions of the contract and who has quoted the lowest rate as per financial bid after complying with the all the Acts / provisions stated / referred to for adherence in the tender.

14. The name of such successful bidder will be displayed on the website of the institute www.aiimsrishikesh.edu.in within 7 (seven) days from the date of execution of this tender contract by him.

15. The competent authority of AIIMS, Rishikesh reserves all rights to accept or reject any/ all tender(s) without assigning any reason. It can also impose/relax any administrative term and condition/specifications of the tender enquiry after due discussion in pre-bid conference. This will be communicated and shown over the website of the Institute. No representation will be considered after pre-bid meeting and **bidders may ensure its queries only in pre-bid meeting.** AIIMS, Rishikesh also reserves the right to reject any bid which in his

opinion is non-responsive or violating any of the conditions/specifications without any liability to any loss whatsoever it may cause to the bidder in the process.

16. Tender must be submitted on the prescribed Tender Form otherwise tender will be cancelled straightway.
17. The tender form is not transferable.
18. Canvassing in any form is strictly prohibited and the tenderers who are found canvassing are liable to have their tenders rejected out rightly.
19. It is required by all concerned, namely the Bidders/Suppliers, as the case may be to observe highest standard of ethics during the procurement and execution of this Tender.
20. Installation at consignee's site should be free of cost immediately on arrival of equipment at consignee's site.
21. In case the quality of goods supplied are not in conformity with the standard given in tender and as per the samples supplied or the supplies are found defective at any stage these goods shall immediately will be taken back by the supplier and will be replaced with the tender quality goods, without any delay. The competent authority reserves all rights to reject the goods if the same are not found in accordance with the required description / specifications and liquidates damages shall be charged in addition to the cost of re- tender. The supplier is required to provide the demonstration of equipment at AIIMS premises to the AIIMS representatives for its evaluation as per the specification & desired functionality standard. However, a submission of videography displaying functionality as per tender specification may also be considered by the AIIMS, representative.
22. In case the bidder on whom the supply order has been placed, fails to make supplies within the delivery schedule and the purchaser has to resort risk purchase, the purchaser (AIIMS, Rishikesh) may recover from the tender the difference between the cost calculated on the basis of risk purchase price and that calculated on the basis of rates quoted by tenderer. In case of repeated failure in supplying the order goods the supply order may be cancelled and bid security deposit will be forfeited.
23. Where the specifications are as per tenderer's range of products the tenderer's offer should mention that the item meets all specifications as per the tender enquiry and if there are improvements/deviations the same should be brought out on separate Letter Head of the firm. It would be discretion of the competent authority of the institute to accept or reject such deviations which are not in accordance with our required specifications as given below the financial bid.
24. It must be mentioned clearly whether bidder is a manufacturer/sole distributor/ sole agent for the items for which he is quoting.
 - a. **Manufacturer** must add a certificate that item(s) is manufactured by them as per range of products.
 - b. **Sole Manufacturers** must add a certificate that they are the sole manufacturer of the Item for which they are quoting in this tender enquiry & item is /are their proprietary Item in India. The rate certificate is also required from the sole manufactures that the Rates quoted are the same as they quote to other State/Centre Govt./reputed Private Organisation and DGS&D rate for the similar item(s) and these are not higher than those quoted by them.
 - c. **Authorized agents** must add authority letter from their Manufacturer/Principals on the letter head of the manufacturer/principals signed by a competent person and comes in proforma given in attach must duly supported by a notarised affidavit on Indian Non Judicial Stamp Paper of Rs.10/- (Rupees ten only) that they are quoting Rates on behalf of them. The authorization letter must give/mention the purpose for which it is allowed. The validity period of the authorization letter must be mentioned in the authority letter otherwise tender will be liable to rejection.

25. The bidders should have furnished a copy of GST/S.T. /C.S.T./VAT registration number, the State / U.T. of registration and the date of such registration. Tenders not complying with this condition will be rejected.
26. **Turnover provisions:** - (i) The tenderers should submit along with the tender, a photo state copy of the last three years Annual Accounts with Audit certificate by Chartered Accountant, Income Tax returns and a copy of current valid income tax clearance certificate (IT CC), otherwise bidder will not be considered for administrative evaluation (in evaluation of Technical bid) and will be declared **disqualified** in technical evaluation.
 (ii) In case of bidder falls under Section 44AD/44ADA/44AE of Income Tax shall be required to submit turnover certificate verified by Chartered Accountant with his Registration number issued by Institute of Chartered Accountants of India.
 (iii) In case of supplier is an Indian Agent, the firm can submit copies of purchase orders issued in favour of firm (*As the payment is made through LC directly to foreign manufacturer and equipment payment does not exist in the book of account of the supplier*) in support to its turnover whatever amount is getting short.
 (iv) There will be relaxation on turnover on *case to case* basis for **Start-up firms** registered by Government of India under Start-ups scheme as per orders of Ministry of Commerce, Government of India.
27. **Sample/demonstration:** - In case, the item required prior submission of sample/ performing demonstration, tenderer will have to submit sample/perform demonstration of the equipment/item to the competent authority of the institute, the bidder will have to born all the expenses for the same. Non submission of sample/non performing demonstration will **disqualify** the bidder in the technical bidding process and financial bid of the bidder will not be opened.
28. The tenderer hereby guarantees that the equipment supplied to the Institute (purchaser) under the Contract shall be of the best quality/latest version and workmanship and new in all respects and shall be strictly in accordance with the specification and particulars contained/ mentioned in the Tender Document. The date of manufacturing of the equipment/goods supplied will not be more than 3 (Three months) old. The tenderer will have further guarantees that the said equipment would continue to conform to the description and quality aforesaid for a period of five (5) years guarantee period (As per MoH&FW guidelines), from the date of installation of the said equipment to the purchaser and notwithstanding the fact that the Purchaser (Inspector) may have inspected and /or approved the said equipment, if during the aforesaid period of five years the said equipment be discovered not to conform to the description and quality as required as per specification or not giving satisfactory performance or have deteriorated, the decision of the Purchaser in that behalf shall be final and binding on the tenderer and the Purchaser shall be entitled to call upon the tenderer to rectify the equipment or such portion thereof as is found to be defective by the purchaser within a reasonable period or such specified period as may be allowed by the purchaser in his discretion on/an application made thereof by the tenderer and in such an event, the above mentioned warranty period shall apply to the equipment replaced from the date of replacement thereof. In case of failure of the tenderer to rectify or replace the equipment, within specified time, the purchaser shall be entitled to recover the cost with all expenses from the tenderer for such defective equipment.
29. Full description & specifications, make/brand and name of the manufacturing firm must be clearly mentioned in the tender, failing which, the tender will not be considered. The tenderer must also mention whether the goods are imported / indigenous. Descriptive literature /catalogues must be attached with the tender in original, failing which, tender may be disqualified.
30. **Force Majeure:** Any failure or omission to carryout of the provisions of this supply by the supplier shall not give rightfor any claim by supplier and purchaser to one against the other, if such failure or omission arise from an act of God which shall include all acts of natural calamities from civil strikes compliance with any statistics and or requisitions of the Government lockout and Strikes, riots, embargoes or from any political or other reasons beyond the suppliers control including war (whether declared or not) civil war or state of incarceration provided that notice of the occurrence of any event by either party to the other shall be within two weeks from the date of occurrence of such an event which could be attributed to force majeure. Any delay due to Force Majeure will not be attributable to the either of the parties.

31. The equipment installed should be up for 95% of the total warranty time. If the equipment is down for more than 5% suitable action shall be taken against the supplier including imposition of penalty as deemed fit.
32. If there is a close system the tenderer shall ensure and will have to submit an affidavit on Indian Non Judicial stamp paper of Rs.10/- along with technical bid that spare parts and consumables for these equipment's/instruments/item will be available at reasonable fixed rates for next 10 (ten) years, such rates should not be more than the rates supplied to institutes of national importance.
33. The successful Bidder shall at all times agree to indemnify and keep indemnified the purchaser against all losses, damages which may arise in respect of action/inactions of such Bidder or breach of any term of this tender by such Bidder. All claims regarding indemnity shall survive the termination of the contract with such Bidder.
34. Incase the vendor fails to supply the spare parts or fails to provide the agreed maintenance during the prescribed period, as per the terms of contract, the purchaser is automatically entitled to procure the required parts and hire services from the market at the risk and cost of the vendor, such inability of bidder will entail forfeiture the security deposit. The purchaser also reserves the right to terminate the contract on immediate notice, if the vendor fails to comply with this clause for more than one instance.
35. **Liquidated damage/demerge:** - The time for the date of delivery/ dispatch stipulated in supply order shall be deemed to be the essence of the contract and if the supplier fails to deliver or dispatch any consignment within the period prescribed for such delivery or dispatch in the supply order, liquidated damages may be deducted from the bill @ 0.5% per week subject to maximum of 10% of the value of the delayed goods or services under the contract. The competent authority of the institute may also cancel the supply at the cost & liability of the supplier. In such a case, bid security of the supplier shall stand forfeited. The supply of equipment must be in single consignment, inclusive of all parts & accessories in adherence to the specification so as to make the equipment fully functional at the time of the installation. No installation repeat shall be signed in case of absence of any part as per the specification.
36. **Legal Jurisdiction:** -The Courts at Rishikesh/ Dehradun alone and no other Court will have the jurisdiction to try the matter, dispute or reference between the parties arising out of this tender/supply Order/contract.

Applicable Law:

37. The contract shall be governed by the laws and procedures established by Govt. of India, within the framework of applicable legislation and enactment made from time to time concerning such Commercial dealings / processing.
38. Any disputes are subject to exclusive jurisdiction of Competent Court and Forum in Rishikesh/Dehradun, Uttarakhand India only.
39. Except as otherwise provided under this Contract for immediate termination of the Contract, in the event of a disputes which may be arising out of the execution of the tender contract, the matter will be referred to the Deputy Director (Administration). Appeal against the decision of the DDA will lie to the Director, AIIMS Rishikesh and his decision shall be final and binding upon both the parties.

I / We hereby accept the terms and Conditions given in the tender

(Signature & Stamp of the bidder)

Note- Please sign each page of document including terms & conditions & tender

(B) Financial terms and conditions

1. Rates are strictly required to be offered/quoted on the prescribed **“Financial Bid format”**. Financial bid submitted without prescribed format may not be considered and will be deemed improper subject to the condition that there is a requirement to mention other item which are not mentioned in the said format.
2. Rates quoted should be inclusive of all applicable taxes, packing, forwarding, postage and transportation charges at for AIIMS Rishikesh (Site of installation/Use). Rates should be mentioned both in figures and in words. The offer should be typed or written in Ink Pen/ Ball Pen without any correction. Offers in pencil will be cancelled. Telegraphic/ Telex/ Fax offers will not be considered and cancelled straightway.
3. The supplier has to submit a notarised affidavit on Indian Non Judicial Stamp Paper of Rs.10/- that the bidder has not quoted the price higher than previously supplied to any government Institute/Organisation/reputed Private Organisation or DGS&D rate in recent past. Therefore, if at any stage it has been found that the supplier has quoted lower rates than those quoted in this tender; the Institute (the purchaser) would be given the benefit of lower rates by the Supplier and any excess payment if any, will become immediately payable to the AIIMS, Rishikesh. If such affidavit is not submitted, tender will be out rightly rejected.*(Part of technical bid)*
4. If the price of the contracted articles is/ are controlled by the Government, in no circumstances the payment will be higher than the controlled rate.
5. Tender will be regarded as constituting an offer open to acceptance in whole or in part at the discretion of the competent authority of the institute for a period of 180 days (6 months) valid from the date of opening of the tender by the committee.
6. The corrections made by using fluid and overwriting will not be accepted and tender would be rejected.
7. Tenderer shall have to provide complete warranty for all equipment’s for 5 (five) years & followed by CMC for 5 (five) years of the equipment’s. Financial bid should be quoted accordingly. In this regard, the tenderer shall submit a notarised affidavit on Indian Non Judicial Stamp Paper of Rs.10/- that bidder will provide complete warranty for entire equipment’s for 5 (five) years & CMC for 5 (five) years of the equipment’s.
7. **Tender Currencies:**
 - a. The bidder supplying indigenous goods or already imported goods shall quote only in Indian Rupees. Further, imported goods to be imported and supplied by the bidder are also required to be quoted in Indian Rupees.
 - b. For imported goods, if supplied directly from abroad, prices shall be quoted in any freely convertible currency say US Dollar, Euro, GBP or Yen. As regards price(s) for allied services, if any, required with the goods, the same shall be quoted in Indian Rupees only, if such services are to be performed /undertaken in India.
 - c. Tenders, where prices are quoted in any other way shall be treated as non -responsive and rejected.
8. **Tender Prices:** While filling up the columns of the Financial Bid, the following aspects should be noted for compliance: -
 - I- *For domestic goods or goods of foreign origin located within India, the prices in the corresponding Financial Bid shall be entered separately in the following manner: -*

- a. The price of the goods, quoted ex-factory/ ex-showroom/ ex-warehouse/ off-the-shelf, as applicable, including all taxes and duties like sales tax, GST/CST/ VAT, CENVAT, Custom Duty, Excise Duty etc. already paid or payable on the components and raw material used in the manufacture or assembly of the goods quoted ex-factory etc. or on the previously imported goods of foreign origin quoted ex-showroom etc.;
- b. Any sales tax or other taxes and any duties including excise duty, which will be payable on the goods in India if the contract is awarded;
- c. Charges towards Packing & Forwarding, Inland Transportation, Insurance, Loading/Unloading and other local costs incidental to delivery of the goods to their final destination as specified in the List of Requirements and Financial Bid;
- d. The price of Incidental Services, as mentioned in List of Requirements and Financial Bid;
- e. The prices of Turnkey (if any), as mentioned in List of Requirements, Technical Specification and Financial Bid; and
- f. The price of CMC **after warranty period**, as mentioned in List of Requirements, Technical Specification and Financial Bid.

II- For goods offered from abroad, the prices in the corresponding Financial Bid shall be entered separately in the following manner: -

- a. The price of goods quoted FOB port of shipment, as indicated in the List of Requirements and Financial Bid;
 - b. The price of goods quoted CIF port of entry in India as indicated in the List of Requirements and Financial Bid;
 - c. The price of goods quoted for delivery at AIIMS, Rishikesh as indicated in the List of Requirements, Financial Bid and Consignee List;
 - d. Wherever applicable, the amount of custom duty with CDEC applicable on CIF value on the goods to be imported;
 - e. The charges for Loading/Unloading, Inland transportation, Insurance and other local costs, Incidental cost to delivery of the goods from the port of entry in India to AIIMS, Rishikesh, as specified in the List of Requirements and Financial Bid;
 - f. The charges for Incidental Services, as in the List of Requirements and Financial Bid;
 - g. The prices of Turnkey (if any), as mentioned in List of Requirements, Technical Specification and Financial Bid; and
 - h. The price of annual CMC,after warranty period as mentioned in List of Requirements, Technical Specification and Financial Bid.
9. Additional information and instruction on Duties and Taxes: If the Bidder desires to ask for excise duty, sales tax/GST/CST / VAT/ CENVAT, Custom Duty, Service Tax, Works Contract Tax etc. to be paid extra, the same must be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such duties and taxes and no claim for the same will be entertained later.

10. Excise Duty:

- a. If reimbursement of excise duty is intended as extra over the quoted prices, the supplier must specifically say so also indicating the rate, quantum and nature of the duty applicable. In the absence

of any such stipulation it will be presumed that the prices quoted are full and final and no claim on account of excise duty will be entertained after the opening of tenders.

b. If a Bidder chooses to quote a price inclusive of excise duty and also desires to be reimbursed for variation, if any, in the excise duty during the time of supply, the Bidder must clearly mention the same and also indicate the rate and quantum of excise duty included in its price. Failure to indicate all such details in clear terms may result in rejection of that tender.

c. Subject to sub clauses (i) & (ii) above, any change in excise duty upward/downward as a result of any statutory variation in excise duty taking place within contract terms shall be allowed to the extent of actual quantum of excise duty paid by the supplier. In case of downward revision in excise duty, the actual quantum of reduction of excise duty shall be reimbursed to the AIIMS Rishikesh by the supplier. All such adjustments shall include all reliefs, exemptions, rebates, concession etc. if any obtained by the supplier.

11. **Sales Tax:** - If a bidder asks for sales tax/GST/CST / VAT/CENVAT, Service Tax and Works Contract Tax to be paid extra, the rate and nature of sales tax applicable should be shown separately. The GST/CST / VAT/CENVAT, Service Tax and Works Contract Tax will be paid as per the rate at which it is liable to be assessed or has actually been assessed provided the transaction of sale is legally liable to sales tax/GST/CST / VAT/CENVAT, Service Tax and Works Contract Tax and is payable as per the terms of the contract.

12. **Octroi Duty and Local Duties & Taxes:** - Normally, goods to be supplied to Government departments against Government contracts are exempted from levy of town duty, Octroi duty, terminal tax and other levies of local bodies. However, on some occasions, the local bodies (like town body, municipal body etc.) as per their regulations allow such exemptions only on production of certificate to this effect from the concerned Government department. Keeping this in view, the supplier shall ensure that the goods to be supplied by the supplier against the contract placed by the AIIMS, Rishikesh are exempted from levy of any such duty or tax and, wherever necessary, obtain the exemption certificate from the AIIMS, Rishikesh. However, if a local body still insists upon payment of such local duties and taxes, the same should be paid by the supplier to the local body to avoid delay in supplies and possible demurrage charges and obtain a receipt for the same. The supplier should forward the receipt obtained for such payment to the AIIMS, Rishikesh to enable the AIIMS, Rishikesh reimburse the supplier and take other necessary action in the matter.

13. **Customs Duty:** In respect of imported goods offered from abroad, the bidder shall specify the rate as well as the total amount of customs duty payable with Custom Duty Exemption Certificate, if applicable, on the quoted goods in the Financial Bid. The bidder shall also indicate the corresponding Indian Customs Tariff Number applicable for the goods.

a. For transportation of imported goods offered from abroad, relevant instructions as incorporated shall be followed.

b. For insurance of goods to be supplied, relevant instructions as provided shall be followed.

c. Unless otherwise specifically indicated in this NIT document, the terms FCA, FOB, FAS, CIF, CIP etc. for imported goods offered from abroad, shall be governed by the rules & regulations prescribed in the current edition of INCOTERMS, published by the International Chamber of Commerce, Paris.

d. The need for indication of all such price components by the bidders, as required in this clause is for the purpose of comparison of the tenders by the purchaser and will no way restrict the AIIMS, Rishikesh right to award the contract on the selected bidder on any of the terms offered.

14. **Indian Agent:** - If a foreign bidder has engaged an agent in India in connection with its bid, the foreign bidder, in addition to indicating Indian agent's commission, if any, shall also furnish the following information:

- a. The complete name and address of the Indian Agent and its Permanent Account Number as allotted by the Indian Income Tax authority.
- b. The details of the services to be rendered by the agent for the subject requirement.
- c. Details of Service outlets in India, nearest to the AIIMS, Rishikesh to render services during Warranty and CMC period.

Firm Price:-

- a. Unless otherwise specified in the NIT, prices quoted by the bidder shall remain firm and fixed during the currency of the contract and not subject to variation on any account.
- b. However, as regards taxes and duties, if any, chargeable on the goods and payable, the conditions stipulated will apply.

15. **Conversion of tender currencies to Indian Rupees:** - In case the bid document permits the bidders to quote their prices in different currencies, all such quoted prices of the responsive bidders will be converted to a single currency viz., Indian Rupees for the purpose of equitable comparison and evaluation, as per the closing exchange rates established by the Reserve Bank of India for similar transactions, as on the date of 'Opening Date of Financial Bid'.

16. **Payment terms:** -If the supplier supplied the requisite item within stipulated time and installation is pending on the part of AIIMS Rishikesh on various reasons, up to 90 *per cent* payment against supply can be made by the AIIMS Rishikesh on the case wise only, but will not be considered as precedence in all cases.

(A)Payment Term for Imported goods: For imported goods payment shall be made in the following manner:

- a) On shipment: 75 % payment of the contract price shall be paid 60 days after presentation of shipping documents {goods shipped shall be paid through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the supplier in a bank in his country} and upon the submission of the following documents: -
 - i. Four copies of Supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
 - ii. Original and four copies of the clean, on-board Bill of Lading/ Airway bill, marked freight prepaid and four copies of non-negotiable Bill of Lading/Airway bill.
 - iii. Insurance Certificate;
 - iv. Certificate of origin by the chamber of commerce of the concerned country;
 - v. Certificate of country of origin;
 - vi. Manufacture's / Supplier's warranty certificate;
 - vii. Manufacturer's own factory inspection report.
- b) On Acceptance: 25 % payment would be made after satisfactory installation, commissioning, demonstration and training, if required on issuance of Inspection certificate by the AIIMS, Rishikesh.

B) PAYMENT TERMS FOR INLAND GOODS

(Seventy-five) 75% Payment of the contract price shall be paid on receipt of goods condition and upon the submission of the following documents: -

- (i) One Original and Four Copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount.
- (ii) Final Acceptance as per Inspection report issued by faculty.
- (iii) Two copies of packing list identifying contents of each package.
- (iv) Inspection Certificate issued by the user concerned department.

- (v) Final Acceptance Certificate issued by the Institute

On Acceptance: -

- (i) Balance Twenty-Five (25) % payment would be made against 'Final Acceptance Certificate' as per Para (B) (i) &(v) of goods to be issued by the consignee's subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise.

17. **Guarantee / Warrantee Period:** The Tenderers must quote for 5 years' comprehensive warranty (Including all Spares, Accessories software application, if any and Labour) from the date of completion of the satisfactory installation. The warranty charges shall not be quoted separately otherwise the offer shall be summarily rejected. Also the bidders are requested to submit their quote (Rates) for subsequent 5 years Comprehensive Maintenance Contract (CMC) (Including All Spares, Accessories software application, if any and Labour). Failure to comply this condition will entail the rejection of the bids. The price comparison shall be taken into account on basic price and post warranty CMC.

18. **Custom Clearance:** For the Goods to be imported and supplied, the Institute will provide Custom Duty Exemption Certificate (CDEC) to successful bidder for availing concessional rate of duty as per prevailing Custom Tariff. In case, the bidder requires CDEC certificate, then the same should be specifically mentioned in the bid. The supplier is solely responsible for getting the material clearance from customs. Institute will provide all custom documents for custom clearance on the demand of supplier. The supplier undertakes to fully co-operate to avoid any fine, demurrage or other charges and shall indemnify AIIMS Rishikesh in case of any such failure. Transportation of goods up to AIIMS, Rishikesh and its successful installation and commissioning demonstration (and training, if required) is also the responsibility of the supplier. All charges/ expenses incurred in this process will be borne by the supplier and after submission of deposit slips of custom clearance and transportation charges will be reimbursed to the supplier if said provisions are to be shown separately in the financial bid..

NO DEMURRAGE / WHARFAGE CHARGES WILL BE PAYABLE BY THE INSTITUTE UNDER ANY CIRCUMSTANCES. NO ADVANCE PAYMENT WILL BE PAYABLE FOR CUSTOM CLEARANCE/ FREIGHT/INSURANCE ETC

Note: In case of any dispute regarding award of tender, decision of AIIMS Administration would be final.

I / We hereby accept the terms and Conditions given in the tender

(Signature & Stamp of the bidder)

Note- Please sign each page of document including terms & conditions & tender

**Equipment for the Department of “Paediatric Surgery ”
AIIMS, Rishikesh**

TECHNICAL BID

(In separate sealed Cover-I super scribed as “Technical Bid”)

1. Name & Address of the manufacturer and their authorised dealers/ distributors/Agency with phone number, email, name and telephone/mobile	
2. Specify your firm/company is a manufacturer/ authorised dealer/ distributor/ Agency	
3. Whether the signature on each page has been made by the of bidder or not.	
4. Name, Address & designation of the authorized person (Sole proprietor/partner /Director)	
5. Have you previously supplied these items to any government/ reputed private organization? If yes, attach the relevant poof.	
6. Please provide a notarised affidavit on Indian Non Judicial stamp paper of Rs. 10/- that you have not quoted the price higher than previously supplied to any government Institute/Organisation/reputed Private Organisation or DGS&D rate in last one year. If you don't fulfil this criteria, your tender will be out rightly rejected.	
7. Please attach copy of last three years' of Income Tax Return	
8. Turnover a. Please attach balance sheet (duly certified by Chartered Accountant) for last three (3) years (Attach copy of annual minimum turnover which should not be less than 01 crores duly certified by the Chartered Accountant) b. The bidder falls under Section 44AD/44ADA/44AE of Income Tax Act shall be required to submit turnover certificate verified by Chartered Accountant with his Registration number issued by Institute of Chartered Accountants of India. c. Indian Agent can submit its copy of POs of LC cases, in support of its amount getting short in required turnover. d. Start-ups may submit its Start-up Registration for consideration (<i>Relaxation in turnover can be considered as the case may be, subject to fulfilment of other conditions. However, it will not mandatory</i>)	
9. PAN No. (Please attach copy)	
10. GST/VAT/Service Tax Registration Number. (Please attach copy)	
11. Acceptance of terms & conditions attached (Yes/No). Please sign each page of terms and conditions as token of acceptance and submit as part of tender document with technical bid. Otherwise your tender will be rejected.	
12. Power of Attorney/authorization for signing the bid documents (Not required in case of sole-proprietorship.)	
13. Please submit a notarised affidavit on Indian Non judicial stamp paper of Rs. 10/- that no case is pending with the police against the Proprietor/firm/partner or the Company (Agency). Indicate any convictions in the past against the Company/firm/partner.	
14. Please declare that proprietor/firm/company has never been black listed/debarred by any organization. An oath certificate to this effect may be enclosed on Rs.10 notarised stamp paper.	
15. Please submit a notarised affidavit on Indian Non Judicial Stamp Paper of Rs.10/- that they will provide complete warranty for all equipment's/items for 5 (five) years followed by CMC for further 5 (five) years of these equipment's/items.	
16. Please furnished a notarised affidavit on Indian Non judicial stamp paper of Rs.10/- that they will supply spare parts for next 10 years at reasonable price by submission of suitable benchmarks.	
17. Please submit two performance certificate from your two different customers to whom you have supplied such type of equipment in previous 3 years	
15. Details of the FD/DD/TD/CD of bid security (EMD) FD/DD/TD/CD No: Date: Payable at-	Detail of cost of Tender for Rs. 1145/- (if downloaded from website) DD No. Date: Payable at-

Undertaking

1. I/We have read and understood the contents of the Tender and agree to abide by the terms and conditions of this Tender.
2. I/We shall supply the items of requisite quality and quantity at given rate in timely manner.
3. I/We also confirm that in the event of my/our tender being accepted, I/we hereby undertake to furnish within 15 days, Bank Guarantee/ Performance Security after the issue of Purchase Order, as applicable, in the format to be provided by AIIMS Rishikesh in addition to execution of a Contract as pre-condition for obtaining the supply orders.
4. I/We further undertake that none of the Proprietor/Partners/Directors of the firm was or is Proprietor or Partner or Director of any firm with whom the Government have banned /suspended business dealings. I/We further undertake to report to the AIIMS Rishikesh immediately after we are informed but in any case not later 15 days, if any firm in which Proprietor/Partners/Directors are Proprietor or Partner or Director of such a firm which is banned/suspended in future during the currency of the Contract with you.
5. I/We undertake that the information given in this tender are true and correct in all respect and I/We hold the responsibility for the same.

(Signature of the Bidder)

Name:

Designation with Seal of the Firm:

Chapter-II (Schedule of requirements& EMD)

Table-I

Details of items & their tentative quantity and EMD

The following items manufactured by Indian/International firms of repute are required.

S.No.	Item	Quantity	EMD
1	Neonatal Ventilator for the Department of Paediatric Surgery	03 Nos.	INR 1,00,000.00

AIIMS Rishikesh tender Enquiry No. F.No 24/Pedia Surgery/222(V)/2017-RISH (ADMN)

“Equipment for the Department of Paediatric Surgery”**Financial Bid****A) FINANCIAL BID FOR DOMESTIC GOODS OR GOODS OF FOREIGN ORIGIN LOCATED WITHIN INDIA OR GOODS TO BE IMPORTED AND SUPPLIED AGAINST PAYMENT IN INDIAN RUPEES**

1 Schedule	2 Brief Description of Goods	3 Country of Origin	4 Quantity (Nos.)	5 Price per unit (Rs.)						6 Total Price (at AIIMS-Rishikesh) basis (Rs.) = {4 x 5(h)}
				Ex - factory/ Ex-warehouse /Ex-showroom /Off-the shelf (a)	Excise Duty(if any) [%age && value] (b)	Sales Tax/ GST/VAT(i f any) [%age & value] (c)	Packing and Forwarding charges (d)	Inland Transportation , Insurance, loading/ unloading and Incidental costs till AIIMS-Rishikesh (e)	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the AIIMS-Rishikesh (f)	

Note: -

1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail. In case of calculation error, lower cost will be accepted between actual cost & error cost.

2. *The unit cost including five (5) years guarantee/warrantee should be mentioned as per table-1. The above quote should include all applicable taxes and F.O.R AIIMS Rishikesh. L1 will be decided on the basis of unit cost in addition to CMC value of 5 years where applicable including all applicable taxes at time of financial bid evaluation of individual equipment.*

3. The Bidder must quote price for “GOODS TO BE IMPORTED AND SUPPLIED AGAINST PAYMENT IN INDIAN RUPEES” after having taken in to account, the provision of Custom

Duty Exemption Certificate (CDEC) by the Purchaser, as per Customs Tariff Act.

Declaration by the Bidder: - (i) This is to certify that I/We before signing this tender have read and fully understood the Tender document viz terms & condition of the contract, rules regarding purchase of equipment for Department of Paediatric Surgery. I/We agree to abide them.

(ii) No other charges would be payable by purchaser and there would be no increase in rates during the contract period.

Place:

Date:

Name:

Business Address:

Signature of Bidder:

Seal of the Bidder:

AIIMS Rishikesh tender Enquiry No. F.No 24/Pedia Surgery/222(V)/2017-RISH (ADMN)

Financial Bid**B) FINANCIAL BID FOR GOODS TO BE IMPORTED FROM ABROAD**

1 Schedule	2 Brief Description of Goods	3 Country of Origin	4 Quantity (Nos.)	5 Price per unit (Rs.)					6 Total price on Destination + Insurance (local transportation and storage) = {4X 5 (e)}
				FOB price at port/ airport of Lading (a)	Carriage / Insurance (port of loading to port of entry) and other Incidental costs** (b)	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the AIIMS-Rishikesh ** (c)	Unit Price CMC for 5 years if applicable (d)	Unit Price on DDP AIIMS-Rishikesh + Extended Insurance (local transportation and storage) (e) = a+b+c+d	

Indian Agent: Indian Agency Commission - ___% of FOB

** To be paid in Indian Currency (Rs.)

Total Tender price in foreign currency: _____

In words: _____

Note: -

1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail. In case of calculation error, lower cost will be accepted between actual cost & error cost.

2. *The unit cost including five (5) years guarantee/warranty should be mentioned as per table-1. The above quote should include all applicable taxes and F.O.R AIIMS Rishikesh. L1 will be decided on the basis of unit cost in addition to CMC value of 5 years where applicable including all applicable taxes at time of financial bid evaluation of individual equipment.*

3. The Bidder will be fully responsible for the safe arrival of the goods AIIMS-Rishikesh in good condition as per terms of DDP as per INCOTERMS, if applicable.

4. Custom Duty/clearance charges/transportation charges from Airport or Shipyard to Rishikesh will be reimbursed to the bidder and can be recouped later by the Institute by presenting all original documents/bills of such authorities.

Declaration by the Bidder: - (i) This is to certify that I/We before signing this tender have read and fully understood the Tender documents viz terms & condition of the contract, rules regarding purchase of equipment's for Department of Paediatric Surgery. I/We agree to abide them.

(ii) No other charges would be payable by purchaser and there would be no increase in rates during the contract period.

Place:

Date:

Name:

Business Address:

Signature of Bidder:

Seal of the Bidder:

AIIMS Rishikesh tender Enquiry No. F.No 24/Pedia Surgery/222(V)/2017-RISH (ADMN)
MANUFACTURER's / PRINCIPAL's AUTHORIZATION FORM

(Clause 11 (c) of **other terms and conditions** of the tender)

To

The Administrative Officer,
All India Institute of Medical Sciences
Rishikesh

Dear Sir,

TENDER: _____.

we, _____, who are established and reputable manufacturers of _____, having factories at _____ and _____, hereby authorize Messrs. _____ (*name and address of agents*) to bid, negotiate and conclude the contract with you against Tender No. _____ for the above goods manufactured by us.

We hereby extend our full guarantee and warranty as per the conditions of tender contract for the goods offered for supply against this tender by the above firm.

The authorization is valid up to _____

Yours faithfully,

(Name)
For and on behalf of Messrs. _____
(*Name of manufacturers*)/Principal.

AIIMS Rishikesh tender Enquiry No. F.No 24/Pedia Surgery/222(V)/2017-RISH (ADMN)
BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/ CMC
SECURITY

To

The Administrative Officer

All India Institute of Medical Sciences
Rishikesh,
Virbhadra Marg,
Rishikesh-249201

WHEREAS _____ (Name and address of the supplier) (Hereinafter called “the supplier”) has undertaken, in pursuance of contract no _____ dated _____ to supply (description of goods and services) (herein after called “the contract”). AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognised by you for the sum specified therein as security for compliance with its obligations in accordance with the contract; AND WHEREAS we have agreed to give the supplier such a irrevocable bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you unconditionally, on behalf of the supplier, up to a total of _____ (Amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of you to first demanding the said amount of guarantee from the supplier before raising the demand with us. You may directly raise the demand with us, without asking the supplier for the same.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee will not be changed due to change in the constitution of the bank or the supplier.

This guarantee shall be valid up to 65 months from the date of satisfactory installation of the equipment i.e. up to --
----- (indicate date).

.....
(Signature with date of the authorized officer of the Bank)

.....
Name and designation of the officer

.....
Seal, name & address of the Bank and address of the Branch

Neonatal Ventilators -qty03 (01 with HFOV+ 02 without HFOV)	
Part A: Specifications for Ventilators with HFOV qty-01	
General Requirement	
1.	Should be LATEST model, microprocessor controlled able to ventilate patients with body weight from 400 grams to 25 kg
2.	Should have battery back-up for the ventilator with integrated re-chargeable internal battery or should have UPS for 60 min. operation for both compressor + machine.
3.	Should have high resolution screen with colour display of at least 10 inches screen size
4.	Should have an integrated blender for blending Air & Oxygen
5.	Should have an external compressor
6.	Should have US-FDA/European CEcertification for neonatal use
7.	The flow sensor should be reusable and autoclavable
8.	Should have device checking mechanism where it can determine and display the compliance and resistance of the system, determine leakage in the patient hose system and checking of valves, gas supply system, flow sensors etc
9.	Should have an automatic leak compensation facility that provide sensitive triggering even with changing ET-Tube leaks
Ventilation Modes required:	
10.	Invasive ventilation:
11.	a) Pressure controlled: SIMV, Assist control/SIPPV, Pressure support (PSV), Apnoea back up ventilation
12.	b) Should have volume targeting or volume assured or volume guarantee function in all pressure limited modes to ensure a pre-set tidal volume delivery by varying the peak pressure or Inspiratory time.
13.	Non Invasive ventilation: N- CPAP and NIMV/NCMV
14.	Should have apnoea backup facility with backup settings configured for neonates
15.	should have HFOV modes with active exhalation like CPAP+ HFOV, IMV+ HFOV with selection for switch on / Off during Insp. Time
16.	should have setting for HFOV MAP 0-30 cmH20, Frequency 5-20 Hz, Amplitude 0-100 % , Inspiration time – 33 % to 50 % adjustable,
Waveforms and loops:	
17.	Scalar graphics - for pressure, volume and flow; scale should be user selectable and adjustable for neonatal settings
18.	Loop Graphics - for pressure volume, flow volume, pressure flow combinations; scale should be user selectable and adjustable for neonatal settings
19.	Should have freezing and measuring facility for loops and curves
20.	Facility of moveable cursors to read numeric values at any point on the loop where the cursors is kept
21.	Should have adjustable Inspiratory flow patterns from square wave, sinusoidal and decelerating wave
Ventilator Parameters and settings:	
22.	Should have controls for setting following parameters - Peak pressure (0-80 cmH2), Positive end expiratory pressure (PEEP- 0-35 cmH2O), Respiratory rate (0-200 bum), Inspiratory rate (o.1 to 3 sec) & Expiratory time(0.1 to 10 sec) , Oxygen concentration (in 1% increments or decrements), tidal volume (2 ml - 150 ml) and 20 – 300 ml for paediatrics
23.	Should be able to monitor the following parameters : Peak pressure, PEEP, Mean airway pressure (MAP), Respiratory rate, FiO2, Minute volume, Tidal Volume (Inspired

	& Expired, Leak percentage), Resistance, Compliance
24.	Should have following settings and ranges:
25.	a) Inspiration time: 0.1 - 3 sec
26.	c) Respiratory rate up to 200 breaths per minute in conventional modes
27.	d) Flow: Pre-set patterns - Square, Sinusoidal, decelerating
28.	e) PEEP: 0 - 30 mbar/cmH ₂ O
29.	f) Inspiratory pressure: 5 - 50 mbar/cmH ₂ O
30.	g) Tidal volume: 2 - 150 ml ₂₀ – 300 ml for paediatrics
31.	h) Proximal flow trigger facility with a trigger sensitivity of at least 0.2-5L /min
32.	l) Oxygen concentration (FiO ₂): 21% to 100%
	Display:
33.	Inspiratory time %
34.	Ventilator rate
35.	Mean airway pressure
36.	Inspired oxygen concentration
37.	Tidal volume & Minute ventilation
38.	Trends of set and measures parameters with a trend memory of at least 24 hrs
39.	Leak percentage
40.	Display of silenced alarms
41.	Alarms Limit: Should have visual as well as audible alarms with user adjustable alarms levels indicating important parameters a power failure, low and high FiO ₂ , patient disconnection or any other malfunction
42.	Power Supply: 220 - 240V and 50-60 Hz
	Miscellaneous:
43.	Complete unit should be mounted on a sturdy pedestal trolley from the same manufacturer.
44.	Each unit should have hinged arm to support the patient circuit
45.	Each unit should be supplied with a heated servo controlled humidifier (Either integrated or Standalone) of the latest model with temperature display for set as well as measured temperature. The humidifier should have the following requirements:
46.	a) Heater with flow resistance up to 1 cmH ₂ O/ L/sec
47.	b) Temperature range: 28 - 39 deg. C
48.	c) Warm up time less than 15 minutes
49.	d) Temperature control accuracy: +/- 2 deg. C
50.	e) Automatic audible and visual alarms for high and low temperatures
51.	f) Visual indicator and alarm for low water level and digital display for set and measured temperatures
52.	Nebulizer: Should be in-built and inspiration synchronized and preferably volume compensated with a time-programmable flow mechanism to activate nebulizer
53.	Each unit should come with O ₂ set of standard oxygen & Air hoses with hose connectors
54.	The firm should agree for periodic regular replacement of oxygen cells, compressor filters and ventilator filters during warranty and CMC
55.	Consumables and accessories to be provided per ventilator. The equipment should be supplied with all standard consumables & accessories (other than below) which are required for normal and proper function of the equipment so that the equipment can be utilized 100%

56.	Autoclavable reusable high quality neonatal specific low compliance heated ventilator circuits - 04 nos. Additional 4 nos. of reusable patient circuit should be provided in case of separate patient circuits for HFOV application.
57.	Heater wires for ventilator circuits (wherever applicable) - 4 nos
58.	Guide wire for insertion of heater wires (wherever applicable) -4 no
59.	Reusable Proximal type flow sensors for neonatal use - 2 no (if differential pressure transducer type) or 30 nos (if heated wire anemometer type)
60.	Flow sensor cables (if heated wire anemometer type) - 3nos
61.	In case of standalone humidifier: 2 sets each of temperature probes, reusable humidifier chambers, heater wire adaptors for reusable circuits, and heater wire adaptors for disposable circuits with each humidifier In case of integrated humidifiers: One set each of temperature sensors and reusable humidifier chambers with each ventilator
62.	Test lung - 01 no neonatal, 01 no paediatric
63.	Should be able to be connected to central air line via an external compressor so that the compressor automatically switches on when air pressure in the central line drops below the recommended level.
64.	Reusable & autoclavable Expiratory valve/cassettes – 2 sets Hinge support arm for the breathing circuit from the same manufacturer – 01 in no. Non-invasive ventilator masks reusable for neonates (3sizes) – 04 set each.

Part B : Specification for Ventilators without HFOV - qty 02

Operational Requirements

- Should be LATEST model, microprocessor Controlled ventilator with integrated facility for Ventilation monitoring suitable for Neonatal (including premature) to Infant ventilation.
- The unit should be external compressor based for precise gas delivery .It should have proximal flow sensor for neonatal patient category

Technical Specifications

- Should be supplied Hinged arm holder for holding the circuit
- Should have Colour Touch screen, 10 Inch or more
- Should have Facility to measure and display
 - 3 waves- Pressure and Time, Volume and Time and Flow and Time.
 - 3 loops- P-V, F-V, P-F with facility of saving of 3-4 Loops for reference.
 - Graphic display to have automatic scaling facility for waves
 - Status indicator for Ventilator mode, Battery life, patient data, alarm settings, clock etc
- should have Automatic compliance & Leakage compensation for circuit and ET tube
- Should have following settings for all age groups.
 - Tidal Volume 2 ml to 350 ml
 - Pressure (insp) 0/2- 8-/100 cmH2O
 - Respiratory Rate 1 to 150 bpm, Insp. Time 0.1 to 3 sec, I : E Ratio 5:1 to 1:599
 - Insp. Flow (resultant) 0.2 to 40 LPM, continuous Flow 2-40 lpm (in TCPL ode)
 - CPAP/PEEP 0-50 cmH2O
 - Pressure support 2-100 cmh2O
 - FIO2 21 to 100%
 - Pause Time 0 to 2 sec
 - Flow Trigger 0.2 to 15 lpm . Pressure Trigger 0.5 to 20 cmH2O

8.	should have Monitoring of the following parameters
	a) Airway Pressure (Peak & Mean)
	b) Tidal volume (Inspired & Expired)
	c) Minute volume (Expired)
	d) Spontaneous Minute Volume
	e) Total Frequency
	f) FIO2 dynamic
	g) Intrinsic PEEP(AUTOPEEP) and PEEPi Volume (or trapped Volume)
	h) Plateau Pressure
	i) Resistance (R _{insp} &R _{exp})& Compliance (C _{dyn} &C _{stat})
	j) Use selector Alarms for all measured & monitored parameters
9.	should have following Modes of ventilation
	a) Volume controlled
	b) Pressure Controlled
	c) Pressure Support
	d) SIMV (Pressure Control and volume control) with pressure support
	e) CPAP/PEEP,
	g) Advanced mode like pressure controlled volume guaranteed (PRVC)/ equivalent
	j) APRV or equivalent
k)Special Neonatal modes - TCPL, SIMV +TCPL + PSV, N-CPAP(with continuous flow) , PRVC,APRV	
10.	should have Apnoea /backup ventilation
11.	Expiratory block should be autoclavable and no routine calibration required
12.	Should have following advance monitoring and facility
	a. Intrinsic Peep & Intrinsic PEEP Volume (Trapped Volume)
	b. Expiratory Time constant (T _{cexp})
	c. Imposed work of Breathing (WO _{Bi}),
13.	should have Nebuliser with capability to deliver fine particle size of to be used in On line
14.	Should have battery back-up for the ventilator with integrated re-chargeable internal battery or should have UPS for 60 min. operation for both compressor + machine.
15.	should have RS 323C interface for communications with networked devices.
16.	Consumables and accessories to be provided per ventilator. The equipment should be supplied with all standard consumables & accessories (other than below) which are required for normal and proper function of the equipment so that the equipment can be utilized 100%
17.	Following items should be supplied with each unit – -Reusable, autoclavable silicone breathing circuits – 2 -Reusable & autoclavable Expiratory valve/cassettes – 2 sets -Reusable & autoclavable Flow Sensors –10 in nos. -Hinge support arm for the breathing circuit from the same manufacturer – 01 in no. -Ventilator trolley from the same manufacturer – 01 in no. -Non-invasive ventilator masks reusable for neonates (3sizes) – 04 set each. -In case of standalone humidifiers: 2 sets each of temperature probes, reusable humidifier chambers, heater wire adaptors for reusable circuits, and heater wire adaptors for disposable circuits with each humidifier -In case of integrated humidifiers: One each of temperature sensors and reusable humidifier chambers with each ventilator -Heater wires for ventilator circuits (wherever applicable) – 2 nos. -Guide wire for insertion of heater wires (wherever applicable) – 1 no. -Medical external compressor- 01
18.	Accessories; -Disposable breathing circuit - 25 -Filters (HME) – 100 in nos. -O2 hose – 2 nos.

	<p>-Air hose – 2 nos. -Humidifier – 810: Disposable Chambers & Circuits – 10 -Test Lung - Neonatal - 01 -Nebulization kit - Pediatric – 10, Neonatal – 10 -Nasal interface (3 in number) with nasal mask (4 each of all sizes) and nasal prongs (4 each of all sizes) and bonnet (5 each of only preterm size) with each ventilator.</p>
	Power and gas inlet requirement
19.	Power input to be 220-240VAC, 50Hz
20.	Gas input(air and oxygen) - 50-100 psi
	Standards, Safety and Training
21.	Should have US-FDA/European CEcertification for neonatal use