



**Kerala State Drugs & Pharmaceuticals Ltd.**  
a government of Kerala enterprise

Factory & Office :  
**Kalavoor, Alappuzha - 688 522, India**  
Phone: 0477-2258184, 2258828  
Telefax : 0477-2258162  
E-mail: ksdpltd@gmail.com  
Website : www.ksdp.co.in

11.03.2022

**NOTICE INVITING SEALED TENDER**

**TENDER NO: KSDP/PRJ/2022/STR/01-(R<sub>1</sub>)**

Kerala State Drugs & Pharmaceuticals Ltd, Kalavoor –PO, Alappuzha, Kerala 688 522 invited Re tender in **two cover system** (Sealed Cover) from reputed Manufacturer/Supplier/Contractors, for the work of **“SUPPLY , ERECTION AND COMMISSIONING OF EXHAUST DUCT FOR AHUS”**.

Interested parties are requested to submit their documents in the prescribed format along with all supporting documents/ credentials.

For detailed information; please visit our website “[www.ksdp.co.in](http://www.ksdp.co.in)”

For further clarification kindly contact: - **Lijesh Joy(Deputy Manager-Projects)**

**Ph no: 6282817885**

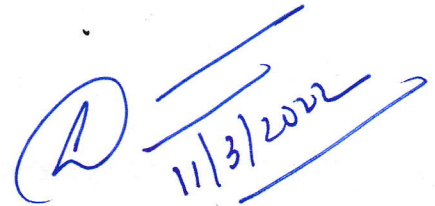
**Email: - ksdpproject@gmail.com**

1	Name of work	SUPPLY ERECTION AND COMMISSIONING OF EXHAUST DUCT FOR AHUS
2	Tender Submission Fee + GST 18%	<b>Rs. 980+ Rs.176=Rs.1156/-</b>
	EMD	<b>Rs.12,250/-</b>
3	Period of completion	45 days from date of issue of work order
4	Classification of Bidder	From reputed Manufacturer/Supplier/Contactor who having experience in supply and erection of duct.
5	Tender documents	Can be downloaded from the site <a href="http://www.ksdp.co.in">www.ksdp.co.in</a> .
6	Last date and time of Receipt of Sealed Tender	<b>23.03.2022 , 3.00 pm</b>
7	Date and Time of Opening of Sealed Tender	<b>23.03.2022 , 3.30 pm</b>

Tender fee and EMD shall be remitted by DD/pay order in favour of the Managing Director, KSDP Limited, Alappuzha payable at Alappuzha. All bid / tender documents are to be submitted by designated sealed cover only. Late tenders will not be accepted. The relevant copies of registration certificate and other documents as specified shall be submitted in cover one. The technical bids / financial bids shall be opened on specified date and time at the address mentioned above. If the tender opening date happens to be on a holiday or non working day due to any other valid reason, the tender opening process will be done on the next working day at same time and place.

Sealed tender received without the fee will not be considered and shall be summarily rejected.

The KSDP Ltd will not be responsible for any error like missing of schedule data while downloading by the Bidder.

A handwritten signature in blue ink, consisting of a stylized 'D' inside a circle, followed by the date '11/3/2022' written in a cursive style.

Deputy Manager-Projects





KERALA STATE DRUGS AND PHARMACEUTICALS LTD.

A Government of Kerala Enterprise

factory & Office: kalavoor – 688 522, alappuzha, India

phone : 0477 2258184

email : : [ksdpprojects@gmail.com](mailto:ksdpprojects@gmail.com)

Website: [www.ksdp.co.in](http://www.ksdp.co.in)

**SEALED TENDER DOCUMENT**

**FOR**

**SUPPLY, ERECTION AND COMMISSIONING OF EXHAUST DUCT FOR AHUS**

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## 1. NOTICE INVITING SEALED TENDER

FOR

SUPPLY, ERECTION AND COMMISSIONING OF EXHAUST DUCT FOR AHUS

**KSDP/PRJ/2022 /STR/01**

Kerala State Drugs & Pharmaceuticals Ltd, Kalavoor –PO, Alappuzha, Kerala 688 522 invites sealed tender in **two cover system** (Sealed Cover) from reputed Manufacturer/Supplier/Contractors, for the work of **“SUPPLY , ERECTION AND COMMISSIONING OF EXHAUST DUCT FOR AHUS”**.

1	Name of work	<b>“SUPPLY, ERECTION AND COMMISSIONING OF EXHAUST DUCT FOR AHUS”</b>
2	Earnest Money Deposit (EMD)	<b>Rs. 12,250/-</b>
3	Tender Submission Fee + GST 18%	<b>Rs. 980 +176 = Rs1156.00</b>
4	Period of contract of work	45 days From date of issue of work order.
5	Classification of Bidder	From reputed Manufacturer/Supplier/Contactor who having experience in supply and erection of duct.
6	Tender documents	Can be downloaded from the site <b><u><a href="http://www.ksdp.co.in">www.ksdp.co.in</a></u></b> .
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Sealed tender received without the fee will not be considered and shall be summarily rejected.

The KSDP Ltd will not be responsible for any error like missing of schedule data while downloading by the Bidder.

Sd/-

Deputy Manager-Projects

## 2. PROJECT INFORMATION

1	Owner	:	M/s. Kerala State Drugs & Pharmaceuticals Ltd.
2	Project Title	:	<b>SUPPLY, ERECTION AND COMMISSIONING OF EXHAUST DUCT FOR AHUS</b>
3	Project Location	:	<u>Alappuzha, Kerala.</u>
4	Project Office	:	Kerala State Drugs Pharmaceutical Ltd. A Government Of Kerala Enterprise Alleppy, Kerala State, India
5	Nearest Railway Station	:	Alleppey
6	Nearest Airport	:	Cochin
7	Climatic Condition	:	Tropical
8	Ambient Air Temperature	:	
	a. Maximum	:	35 DEGREE CELSIUS
	b. Minimum	:	17 DEGREE CELSIUS
9	Relative Humidity	:	
	c. Maximum	:	92
	d. Minimum	:	60
10	Pre bid meeting date	:	N/A
11	Certificate & payment	:	As per tender
12	Time allotted for completion	:	45 days from date of issuance of work order
13	Defect liability period	:	12 months



### 3. INSTRUCTIONS TO TENDERERS

The tenders/bid shall be accepted through offline mode. The tenders without the documents mentioned therein will be summarily rejected. The tenders received after the due date and time shall not be accepted under any circumstances whatsoever. The tender should be submitted in two covers through offline as detailed below:

#### Cover 1 : TECHNICAL

This shall contain Scanned copy of the following

- 1) Tender fee and EMD
- 2) Attested Copy of the Bidder's valid registration certificate
- 3) Latest Income Tax Clearance Certificate,
- 4) Details of similar works completed by the tender during last five years giving the names and addresses of clients, consultants and the value of individual work executed including the time taken for completion of individual project
- 5) Tender acceptance or Techno-commercial deviation statement.

#### Cover 2 : FINANCE

This shall contain only the duly filled BOQ-file

Financial bid shall be opened only for those tenderers who are technically qualified

#### Note:

- i. The prices should be quoted in the original BOQ given in the tender document.
- ii. Tenderers must visit the site and see the means of access to the site, study the drawings and specifications and acquaint him fully about the works to be carried out and all other factors governing the works before quoting his rates.
- iii. All supplies should accompany by Invoices, which indicates the exact quantity as mentioned in the tender document. The invoices should be verified jointly by the contractor & owner at the site and this should be accounted by the owner. The final payment will be based on actually quantity of panels erected at site. In the case of excess material on completion of the project the same shall be taken back by the supplier at contractor's risk and cost. The safe storage of material is in suppliers scope and risk. The payment against supply will be adjusted and the final settlement of supply part and erection part will be based on actual quantity executed at site.
- iv. Earnest money of unsuccessful bidder shall be returned within fifteen days of finalization of the contract and to the successful bidder within fifteen days after submission of security deposit. No interest shall be paid on the EMD.
- v. Tenderer should quote the rates for all the items.
- vi. The basic rate quoted by the tenderer shall be the total landed value of any item inclusive of royalties, rents and octroi, any other duties / taxes / levies applicable on the

- material obtained and including freight, unloading, stacking and handling at site. GST amount will be paid as per actuals.
- vii. If any discrepancy / misprint are noticed in any drawing / specification or BOQ, it should be clarified from the Client/Consultant before quoting the rates.
  - viii. The Owner /Consultant, do not bind themselves to accept the lowest or any other tender and reserves the right to accept or reject any or all the tenders either in full or in part without assigning any reason.
  - ix. Performance Security and Performance Guarantee should be as per tender.
  - x. It is desired that the bidder visits the site before submitting the bid to assess the Ground condition and working conditions at site. In case bidder decide not to visit site, they shall be responsible for all the consequences there of.
  - xi. Lowest bidder will be selected by considering grand total of supply and erection amount together.

#### **4. SPECIFIC CONDITIONS OF CONTRACT**

##### **4.1 Time Limits prescribed**

Sl. No	Activity	Time Limit
4.1.1	Installation & Delivery period	45 Days from date of issuance of Supply /work Order
4.1.2	Defect liability period	12 months after hand over
4.1.3	Submission of Security deposit and entering into Contract	10 days from the date of issuance of Letter of Intent/purchase order.
4.1.4	Payment	As per cl no 6.10
4.1.5	Time for making payments by Tender Inviting Authority	Within 30 days from the date of submission of proper documents
4.1.6	Maximum time to attend any Repair call	Within 24 hours
4.1.7	Uptime in a year	98%



#### **4.2. Pre qualification of tenderers:**

4.2.1 Contractors/firms/companies having place of business in any of the States of India are eligible to participate in this tender. Contractors/firms/companies should submit Registration certificate along with tender.

4.2.2 The tenderer should be completed ducting work during the last five completed calendar year. Details should be furnished.

4.2.3 Tenderers who have been blacklisted/ debarred/rejected by Tender Inviting Authority or blacklisted / debarred by any State Government or Central Government department/Organization should not participate in the tender

4.2.4 Firm / company whose service is terminated by KSDP are not eligible to participate in this tender.

#### **5. OTHER CONDITIONS OF CONTRACT**

1) **Location of Site:** The project site is located at Alappuzha, Kerala.

2) **Time Schedule:** The successful tender shall submit time schedule in the form of charts before commencing the work and shall execute the work strictly as per the schedule submitted by him and approved by the Owner / Consultant.

3) **Compensation for delay :**

a) Time is the essence of the contract. If the contractor fails to complete the work and clear the site on or before the dates fixed for the completion, he shall without prejudice be liable to pay liquidation damage (LD), i.e. 1 (one) percent of the contract value for every week that the whole or the part of work remains incomplete. For the purpose of this condition, the contract value shall be total value of quantities of items in the contract at contract rates plus algebraic sum of the subsequent work ordered. However, the total amount of LD to be paid under this condition shall not exceed 10 (ten) percent of the contract value.

4) **Inclusion/Variation/ in scope of work :**

i. **Variation in quantity:**

The consultant / Owner has the right to increase or decrease the quantity of work or delete/add certain items of work. However such changes shall not entitle the contractor for any compensation, claim regarding the change in scope of work.

ii. **Variation in drawings and specifications :**

- (1) The variation in scope may be by way of changes in drawings regarding dimensions but specification remaining the same. In such a case, the contractor shall not be entitled for any claim due to change.
- (2) In case of change of specification, the difference of amount (on either plus or minus side) shall be established on unit rate by owner in consultation with consultant and the same shall be acceptable to the contractor.
- iii. **Inclusion:** All civil, masonry and other job works and materials required for doing this work are part and parcel of the work. Such works required also to be undertaken by the contractor without additional claim and after proper assessment of the area and requirement to meet the standards of GMP. Such modifications/alteration done at site should be make good as old to meet the standards of GMP. If any item not included in BOQ but are necessary for completion of work should also be considered in the quote.

**5) Co-operation with other agencies at site:**

- i. The contractor or his authorized representatives must work in close co-operation with the agencies executing other works forming the part of the project and also with the representatives of the Consultant/Owner for the execution of works which are not included in the contract. Contractor shall permit free access and generally afford reasonable facilities to other agencies or departmental workmen etc..The contractor's quoted amount/ rate shall be deemed to cater for all the above contingencies and nothing extra shall be admissible on this account.
- ii. Contractor should keep his working site clean and the materials brought for work shall be kept in a properly stacked/stored way. The work site should be swept at the end of each working day after removal of debris / left over materials. The contractor has to take full care so as not to spoil or damage other contractor's /owners job/material.

**6) Safety of adjoining properties:**

The contractor or his authorized representatives should conduct all the operations necessary for the execution of works in such a manner that no inconvenience / damage is caused to the properties of other persons and owner.

**7) Arbitration Act:**

- i. All disputes regarding the specifications, designs drawing instructions and quality of work or quality of materials used for the work or any other matter relating to the work shall be referred to the sole arbitration to be appointed by owner.



- ii. The party invoking arbitration shall specify the dispute or disputes to be referred to arbitration under this together with the amount or amounts claimed in respect of each such dispute.
- iii. The arbitrator may from time to time with consent of the parties extend the time, for making and publishing the award.
- iv. If possible, the work under the contract shall be continued during the arbitration proceedings and no payment due or payable to the contractor shall be withheld on account of such proceedings.
- v. The Arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the parties fixing the date of the first hearing. The arbitrator shall give a separate award in respect of each dispute of difference referred to him.
- vi. The venue of arbitration shall be Alappuzha, Kerala.
- vii. The award of the Arbitrator shall be final, conclusive and binding on all parties relating to this contract.
- viii. The cost of arbitration shall be as decided by arbitrator.

#### **8) Escalation:**

The rates quoted by the contractor in this contract documents shall be final and shall not be subjected to any change due to the increase in labour wages or inflation in the cost of materials or any other price variations due to any reason during the stipulated time period of the contract or during the extended time period of completion.

### **6. CERTIFICATE, PAYMENTS AND PERIOD OF COMPLETION**

#### **6.1. Schedule of rates:-**

The payments to be made to the contractor for various items of works shall be as per the finalized rates in tender document and the rates of extra items finalized from time to time.

The rates finalized in the tender document shall remain firm till the completion of the work including extension of time, if any.

After the completion of work, the contractor will have to submit the clearance certificate for all statutory payments like royalties, octroi etc.

**6.2. Measurement:-** Joint measurements of the various items of the work shall be taken by the contractor's authorized representative in presence of the owner's and consultant's authorised from time to time for maintaining the records and preparing the bills. If the contractor fails to send his representative then the measurements taken by the owner's and consultants authorized representative shall be final and no claim shall be entertained in this

regard. The measurement will be made as per the actual quantity of materials erected at site. All supplies should accompany by Invoices, which indicates the exact quantity as mentioned in the tender document. The invoices should be verified jointly by the contractor & owner at the site and this should be accounted by the owner as GRN for taking into the stock. The final payment will be based on actually quantity of work erected at site. In the case of excess material on completion of the project the same shall be taken back by the supplier at contractor's risk and cost. The payment against supply will be adjusted and the final settlement of supply part and erection part will be based on actual quantity executed at site. The safe storage of material is in supplier's scope and risk.

### **6.3. Mode of measurement:-**

- 1) All sheet metal ducting work will be measured in terms of final sheet area installed in square meters.
- 2) No measurement of vanes, splitters, ducts, dampers, deflectors and access doors etc. which are required to be installed in the duct work will be made as the same shall be deemed to be part of ducting work.
- 3) Duct fittings such as bends, elbows, tap offs, collars, transformation pieces etc. shall be treated as ordinary duct pieces with their length measured along their centre line.
- 4) No duct support, stiffening, members etc. shall be measured separately. All such supports/ hangers shall form part of duct work.
- 5) Equipment connections such as canvas/Rexene shall be deemed to be part of the duct work and no separate measurement will be allowed.
- 6) Insulation is also measured as above mode; if any measurement not mentioned then measured will be as per Indian standard specifications and in accordance with standard engineering practice. If the contractor has any objection regarding the measurements then he shall inform the owner/consultant immediately. The decision given by the Technical Committee of owner/consultant shall be final and binding on the contractor. In case of mode of measurement of any items is not specified, and then I.S.I/PWD/CPWD manual mode of measurement (as applicable during contract period) shall be followed.

### **6.4. Advance payment:- No advance payment**



#### **6.5. Billing:**

The running account bills to be submitted by the contractor should be of a minimum reasonable amount as decided by the consultant depending upon the quality of work allotted. The bill should be in the Performa approved by the consultant/ owner giving abstract and detailed measurements of various items of works executed and material brought by the contractor for execution of work. The billing shall be cumulative billing given details of previous bill amount advance paid & deducted, security deduction and clearly showing the amount due against the submitted bill.

#### **6.6. Lumps sums in tender:**

For the items in tender where it includes lumps sums in respect of parts of works, the contractor shall be entitled to payment in respect of the items at the same rates as are payable under this contract for such items. If in the opinion of the consultant, any part of the work is not susceptible to measurement, the consultant/owner may at his discretion pay the lumps sum amount for the work subject to a maximum of  $\pm 25\%$  and the decision of the consultant/owner shall be final and binding on the contractor.

#### **6.7. Running account payments to be regarded as advances:-**

- i. All running account payments shall be regarded as payments by way of advances against the final payment only and not as payment for work actually done and completed, and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be removed and taken away and reconstructed or re-erected or be considered as an admission of the performance of the contract or nor shall it conclude, determine or affect in any way the powers of the owners under these conditions or any of them as to the final settlement of the accounts or otherwise, or in any other way vitiate or affect the contract.
- ii. The final bill shall be submitted by the contractor within one month from the date of actual completion of the work, to the consultant, otherwise the consultant's and owner's certificate of the measurement and of the total amount payable for the work accordingly shall be final and binding on the contractor.
- iii. The payment of final bill shall be done within three months after the submission of final bill by the contractor.

#### **6.8. Payment of contractor's bills:-**

- i. The payment due to the contractor shall be made only in Indian currency by crossed account payee cheques. In no case, will the owner be responsible if the cheque is misled or mis-appropriated by the contractor or his representatives. The cheque shall be released only against submission of duly signed and revenue stamped receipt.

- ii. The owner reserves the right to carry out post payment audit and technical examination of the bills and work executed including all supporting voucher etc. The owner further reserves the right to enforce recovery of over-payment when detected. Similarly, if any under payment is discovered, the amount shall be paid to the contractor.
- iii. Wherever any claim for payment against the contractor arises as per the contract, the same may be deducted from the bill of the contractor or from his security deposit.

**6.9. Provisional completion certificate:-**

- i. When the contractor successfully completes the works as per the contract, he shall be eligible to apply for provisional completion certificate in respect of the works.
- ii. The owner shall issue to the contractor the provisional completion certificate after verifying from the completion documents submitted by the consultant and satisfying himself that the work has been completed in accordance with the construction drawings and the contract document. The contractor, after obtaining the provisional completion certificate, is eligible to present the final bill for the work executed by him under the terms of the contract.
- iii. The work will not be considered as complete and taken over by the owner until all the temporary works, labour hutments etc. Are removed and the work site cleared to the satisfaction of the consultant.
- iv. If the contractor fails to comply with the requirements of the above on or before the date for the completion of the works, the owner may, at the expense of the contractor, remove the tools and plants and surplus materials and dispose off the same and the contractor shall pay the amount of all expense incurred.

**6.10. Terms of payment:-**

**10.1 Security deposit & Performance Security**

- i. There will be a security deposit amounting to 5 % of the total contract value excluding taxes, which shall be submitted by the successful tenderer to the Tender Inviting Authority within 10 days from the date of issuance of 'Letter of Intent/work order
- ii. The contract duly signed and returned to the Tender Inviting Authority shall be accompanied by a demand Draft or Bank Guarantee in the prescribed format.
- iii. Upon receipt of such contract and the security deposit, the successful tenderer shall execute an agreement in 200 Rupees Kerala Stamp paper.



- iv. Failure of the successful tenderer in providing security deposit mentioned above and/or in returning contract copy duly signed in time shall make the tenderer liable for forfeiture of its EMD.
- v. The validity of security deposit should be one month after the completion of supply, erection, commissioning and validation of machines handing over the project to client after completion and submission of performance security.
- vi. The successful tenderer has to deposit a performance security amounting to 5 % of the total contract value excluding taxes, which shall be submitted by the successful tenderer to the Tender Inviting Authority after erection and commissioning. . The validity of this performance security should be as per 60 days after defect liability period. The security deposit will be released after submission of the performance security. On written request from form successful tenderer, security deposit can be converted into performance security and terms of performance security remains the same.
- vii. The security deposit, Performance security shall be denominated in Indian Rupees or in the currency of the contract as detailed below:
- It shall be in any one of the forms namely Account Payee Demand Draft or irrevocable Bank Guarantee issued by a Scheduled bank in India, in the prescribed form as provided in this document endorsed in favour of the Tender Inviting Authority/user institution.
  - In the event of any failure /default of the successful tenderer with or without any quantifiable loss to the government including furnishing of Company wise Bank Guarantee for CMC security as per Performa, the amount of the performance security is liable to be forfeited.
  - In the event of any amendment issued to the contract, the successful tenderer shall, within ten (10) days of issue of the amendment, furnish the corresponding amendment to the Performance Security (as necessary), rendering the same valid in all respects in terms of the contract, as amended.
  - Tender Inviting Authority/Company will release the Performance Security without any interest to the successful tenderer on completion of 60 days the successful tenderer's all contractual obligations including the warranty obligations & after receipt of certificates confirming that all the contractual obligations have been successfully complied with.
  - The Bank Guarantee submitted in place of Security deposit shall be in the prescribed format; Bank Guarantee in no other form will be accepted.

#### **Payment terms**

- 90% payment will be made according to progress of work against RA bill on completion of supply, erection and commissioning.. The balance 10% will be after one month of trail run.
- The 5% of Security Deposit, Deposited along with the agreement will be released 30 days after successful completion of the works including validation on



submission of a performance bank guarantee for the equal amount which will be released after 12 months from the date of hand over if there is no rectification/deformity of work are found.

- It is the sole responsibility of the contractor to keep the materials supplied in safe custody and the owner is not liable to pay any compensation for the damages / losses sustained - if any. Freight, unloading, stacking handling at site are in contractors scope
- Tax Deduction:- All statutory deduction like GST , Income tax, works contract tax, E.S.I., P.F., KWWF, Service Tax or any other government imposed liability shall be borne by the contractor (as applicable at the time of execution of job / payment of bills) and shall be deducted from each bill submitted by the contractor. Contractor should supply the items as per the priority fixed by the KSDP.

#### **6.11. Period of completion:**

**45 days from the issue of work order/supply order.** In case if any part of the site is not ready those delayed days will be added from the date of completion subject approval from client

#### **7. General Condition:**

- a. You should work as per the Rules and Regulations applicable to employees of the company.
- b. All tools and machines, scaffolding and labours required for the work is coming under the scope of contractor.
- c. Before starting the works you must produce the documents regarding welfare of employees such as ESI, EPF and insurance.
- d. You should be responsible for the welfare and the safety of the men employed by you inside the company.
- e. Your employees should wear all safety items/equipments such as helmet, goggles, safety belts, boots etc. Company will have no liability to employees entrusted by you with respect to safety/welfare measures.
- f. All safety measures should be taken during the works
- g. Statutory deductions if any apply to the contract value.

- h. In case of any damage happens the entire cost for rectification at the risk and cost of the contractor.
- i. Water and electricity will be supplied free of cost by KSDP at one point.

#### 8. MAKE

INSULATION	KFLEX/ARMACELL/VIDOFLEX
DUCT	TATA, JINDAL, SAIL
DUCTING (IN L PROFILE)	ROLASTAR/ COOL FREEZE SYSTEM/ RADIANT



## DECLARATION BY THE TENDERER

I/We have understood the above Special Terms & Conditions as well as general Terms & Condition of Sealed Tender (attached with the tender) which are returned herewith duly signed by me/us in token of having accepted the same in to and I/We have made my/our offer keeping in the view these terms and conditions.

Signature of Tenderer:

Full Name:

Status : .....

Telephone Number .....

Name Of the Tendering Firm: .....

Address Of The Tendering Firm: .....

Our GST No. is .....

Our Banker are .....

Our Account No. as .....

**(AFFIX RUBBER STAMP HERE)**

KERALA STATE DRUGS AND PHARMACEUTICALS LTD,KALAVOOR,ALAPPUZHA					
Name Of work: Supply, Erection and Commissioning of Exhaust Duct For AHUS					
SEALED TENDER SCHEDULE					
Item No	Description	Unit	Quantity	Unit Rate (excl GST)	TOTAL RATE (excl GST)
<b>1</b>	<b>DUCTING</b>				
	Supply & installation of GI sheet metal ducting in site condition or in L section as per IS 635 standards with class VIII sheet MS duct frames,supports,suspended rods with complete paint with Silicon sealant for duct joints with validation of duct leak test.(civil work including wall cutting and making good as old required for installing of duct is in contactors scope)				
<b>1.1</b>	24 G GI Sheet	SFT	2000		
<b>2</b>	<b>DUCT INSULATION - INSIDE DUCT</b>				
	Supply & installation thermal insulation of closed cell class 'O' type Nitrile rubber with Aluminium Foil insulation material having a density of 40-60 kg/ cu.mtr. It shall be flame and fire retardant and shall have low thermal conductivity. It shall be applied to the ducting with suitable flame proof adhesive. The insulation shall have Alu. foil backing for the outer surface. The joint shall be sealed with Alu. foil tape.				
<b>2.1</b>	19 mm thick for supply air duct	SFT	600		
<b>2.2</b>	13 mm thick for return air duct	SFT	600		
<b>3</b>	<b>DUCT INSULATION - EXPOSED DUCT</b>				
	Supply & installation of Physically / Chemically crosslinked polyethylene foam, with factory laminated heavy duty and ultra tough multi-layered composite aluminium foil facing, with puncture resistance of >400N and Class O fire properties as per BS 476 Part BS 476 Part 6 & 7 and as per the tender technical specification and density of the foam should be not less than 25 - 30 kg/m3 and maximum thermal conductivity K should be 0.032W/mK@ 23 Deg C & the permeability resistance factor u shouldn't be less than				
<b>3.1</b>	19 mm thick for supply air duct	SFT	500		
<b>3.2</b>	13 mm thick for return air duct	SFT	500		
<b>4</b>	<b>STEEL STRUCTURE</b>				
<b>4.1</b>	Supply & intallation of MS Supports from first floor to production floor if required (steel structure for duct support is part of ducting	KG	500		
<b>5</b>	<b>CONDENSATE DRAIN</b>				
<b>5.1</b>	Supply and installation of PVC drain piping including all accessories like elbow , Tee etc. with 9 mm nitrial rubber insulation for AHU'S drain				
<b>a</b>	25 MM	Rmt	20		

Grand total  
Rounded to

NAME OF CONTACTOR:  
ADDRESS:  
PHONE NUMBER