



**High Security Animal Disease Laboratory**  
**Indian Veterinary Research Institute**  
□ Anand Nagar, Bhopal – 462021□  
**Tel No. (91) 755-2754672, 2759204, 2750647**  
**Fax No. : 755-2758842**



**TENDER FORM**

**F. No. 9-108/09-10/HSADL (P&S)**

**Dated: -**

To,

-----  
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-----  
-----

Sub: - Replacement of Exhaust Blowers and Motor of Air Handling System of Bio-Containment Lab on turnkey basis – reg.

Dear Sirs,

On behalf of the purchaser, you are invited to submit your most competitive quotation in the enclosed format for the same. You are also requested to submit the following documents along with your quotation, otherwise your tender will not be entertained.

1. Schedule of Requirements.
2. Technical Specification.
3. Questionnaire.
4. Bid Form and Price Schedules.
5. Bank Guarantee/FDR/for Bid Security.
6. Manufacture's Authorization Form.

Each column/blank be filled properly and every papers/documents enclosed with bid documents must be signed/ stamped by the authorized signatory of the firms/Company.

Instructions to Bidders (ITB) and General Conditions of Contract (GCC) may not be sent alongwith tender and these may be retained by bidders for their information and reference.

Care has been taken to avoid contradiction between stipulation in the ITB, GCC and those in the other sections of the biddings documents. But wherever contradiction arises, if any, stipulations contained in the Schedule of Requirements shall prevail.

Yours faithfully,

**(S. K. Gupta)**  
**ADMN OFFICER**

**Part – I of Schedule of Requirements (Section – IV)**

**Schedule – I**

| Sr. No. | Brief description of goods   | Accounting unit | Quantity | Delivery Schedule   |
|---------|--|-----------------|----------|---|
| 1       | Replacement of exhaust blowers and motor of Air Handling System of Bio-Containment Lab on turnkey basis. | -               | -        | Within 6 months from the date of issue of Purchase/Work Order |

**Amount of Bid Security:** Rs. 2 Lac in shape of DD/FDR in favour of **ICAR UNIT, HSADL, IVRI, Bhopal.**

**TECHNICAL SPECIFICATION:- Enclosed.**

**Schedule of Requirements (Section- IV)**

1. Name of the Purchaser – **The Joint Director,**  
High Security Animal Disease Laboratory,  
Indian Veterinary Research Institute  
Anand Nagar, Bhopal – 462021 (M.P.)
  
2. **Purchaser’s mailing address –** **ADMN OFFICER (P&S),**  
High Security Animal Disease Laboratory,  
Indian Veterinary Research Institute  
Anand Nagar, Bhopal – 462021 (M.P.)
  
3. **Preparation of Bids -----**
  - i. Price Structure --- FOB port of Shipment/**FOR, HSADL, IVRI, Bhopal.**
  - ii. Language of Bid ---- English
  - iii. List of reputed customers/clients to whom supply has been made during last years, may be supplied, if any.
  - iv. The amount of Bid Security – Amount as per IFB.
  - v. The bid security must be valid 180 days.
  
4. **Submission of Bids -----**
  - (i) Number of Copies required is **One.**
  - (ii) Address for submission of bids, to be given on the envelope is-

**ADMN OFFICER (P&S),**  
**High Security Animal Disease Laboratory**  
**Indian Veterinary Research Institute**  
**Anand Nagar, Bhopal – 462021 (M.P.)**

- (iii) **Time & Date of bid opening are.....**
- (iv) **Deadline for submission of bids is ..... (hours) on.....**  
(In the event of the above specified date being declared a holiday for the purchaser, the bids will be received up to the appointed time on the next working day.)
- (v) **“Technical Bid” & “Commercial (Price) Bid”** should be kept separately in two different sealed envelop, subscripted thereon **TECHNICAL BID & PRICE BID** within a larger sealed packet/envelop. The larger outer cover should indicate **Tender Number, Name of the equipment and opening date on the top of the right hand corner.**

**Documents/Papers to be submitted with Technical Bid and price Bids Follows:-**

**Technical Bid: -**

1. Detailed specifications of the equipments/goods to be supplied. **Only one make /Model be quoted** and no alternative make/model will be considered.
2. Product Literature/leaflets.
3. Bid Security.
4. Manufacturing certificate if bidder is manufactures.
5. Authorization certificate in case bidder is agent/dealer of the manufactures.
6. Certified copy of PAN/ITCC issued by Deptt. of Income Tax.
7. Documents showing capability to carry out supplier's maintenance, repair & Spare parts stocking obligations.
8. Certified copy of Sales Tax/CST clearance certificate.
9. Duly completed Questionnaires.

**Price Bid: -**

1. Price schedule duly completed enclosed with bidding documents.
2. Proforma Invoice from foreign principal.
3. A list giving full particulars including available sources and current prices of all spare parts, special tools etc. valid for a period of two years following commencement of use of equipments.
4. Cost of Annual maintenance charge for next 5 years after expiring of warranty period.
5. Warranty of the equipment should be at least 12 months.
6. Prices should be valid at least 120 days from the date of opening of bid.

**SCHEDULE OF REQUIREMENTS (SECTION-IV)**

**1. Inspection and Tests:-**

- (i) Certificate showing country of origin. -----  
.
- (ii) Test certificate/inspection certificate with date, name of Issuing Agency, content of specifications (**To be filled by bidder**) -----  
-----.

**2. Packing-**

The consignment may please be shipped in cardboard packing only. If the consignment is dispatched in wooden packing, the shipped is required to send the Phytosanitary certificate from the country of origin for this purpose.

**3. Insurance-**

- (i) Insurance shall be arranged by the purchaser. However, price on C.I.F., New Delhi Airport may also be quoted in price bid.

**4. Distribution of dispatch Documents—**

All shipping documents and consignment shall be sent through our nominated consolidators

**5. Incidental Services: -** Banking charges outside India shall be borne by supplier

**6. Warranty: -** 12 month from the date of installation of the equipment.

**7. Payment-**

**(A) Payment for goods supplied from abroad.**

- (i) On shipment 90% of the contract price shall be paid through irrevocable letter of credit upon submission of documents detailed in L/C.
- (ii) 10% of the contract price will be released just after satisfactory installation/working of equipments/ machines etc. as well as on submission/production of Performance Bank Guarantee by the Supplier(s).

**(B) Payment of goods supplied form India.**

- (i) 100% of the contract price on receipt of goods by the consignee supported by satisfactory installation/working report.

**8. Installation: -**

To be done within 30 days from the date of issue of our letter for this purpose failing which Liquidated Damage clause shall apply.

**9. Prices –**

Be quoted on FOB Airport/CIF destination (IGI Airport, New Delhi, India)

**10. Resolution of disputes**

By mutual consultation failing which it will be resolved under Arbitration & conciliation Act, 1996.

**11. Notices: -** As mentioned GCC clause 31

**12. Taxes and duties:-**

Supplier shall be entirely responsible for payment all taxes, Stamp duties license fees & other levies imported outside India & within India in case of local supplier.

**SECTION -IV**

**QUESTIONNAIRE**

**BIDDERS SHOULD FURNISH SPECIFIC ANSWERS TO ALL THE QUESTIONS GIVEN BELOW IN CASE A QUESTION DOES NOT APPLY TO A BIDDER THE SAME SHOULD BE ANSWERED WITH THE REMARK “NOT APPLICABLE” BIDDERS MAY PLEASE NOTE THAT IF THE ANSWERS SO FURNISHED ARE NOT CLEAR AND/OR ARE EVASIVE, THE BID WILL BE LIABLE TO BE IGNORED.**

1. Bid No. F. No 9-108/09-10/HSADL (P&S) Date for bid opening on.....
2. Offer is open for acceptance .....days

3. Brand of goods offered:

4. Name & address of manufacturer:

5. Station of Manufacture:

6. What is your permanent Income Tax A/C no:

7. Confirm whether you have attached your latest/current ITCC or certified photocopy thereof.

8. Status:

a) Are you currently registered with the Directorate General of Supplies & Disposals (DGS&D) for the item(s) quoted? If so, indicate the date up to which you are registered and whether there is any monetary limit on your registration.  
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b) Are you a small scale unit currently registered with the National Small Industries Corporation (NSIC) under Single Point Registration Scheme for the item(S) quoted? If so, indicate the date up to which you are registered and whether there is any monetary limit on your registration.  
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c) If you are not registered either with NSIC or DGS&D, please state whether you are currently registered with Directorate of Industries of the State Government concerned. If so, indicate the date up to which you are registered and whether there is any monetary limit on your registration.  
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d) Are you registered under the Indian Companies Act, 1956 or any other Act?  
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Please attach certified copy (copies) of the relevant registration certificate(s) in confirmation to your above answer(s).

9. Please indicate:-

Name & full address of your Banker(s): -----

10. Whether you are:

(i) Manufacturer of the goods quoted; or -----

(ii) Manufacturer's authorized agent for those goods. -----

11. State whether business dealings with you have been currently banned by any Ministry/Deptt. of Central Govt. or any State Govt.

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**Signature of Witness**  
**Name & address of Witness**

**Signature of Bidder**  
**Full name, designation &**  
**Address of the person signing above**  
**For and on behalf of Mssrs.**  
.....  
**(Name and address of the bidding firm)**

**BID FORM AND PRICE SCHEDULES**

Date .....

To,

**The Joint Director,  
High Security Animal Disease Laboratory  
INDIAN VETERINARY RESEARCH INSTITUTE  
Anand Nagar, Bhopal – 462021 (M.P.)**

Ref.:- Your bidding documents No. F. 9-108/09-10/HSADL (P&S) dated .....

Having examined the above mentioned bidding documents, including addenda Nos..... (if any ), the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver..... (description of goods and services) in conformity with the said bidding documents for the sum as shown in the price schedules, attached herewith and made part of this bid.

We undertake, if our bid is accepted, to deliver the goods and complete the services in accordance with the delivery schedule specified in the Schedule of Requirements after fulfilling all the applicable requirements incorporated in the above referred bidding documents.

If our bid is accepted, we will provide you with performance security as per the instructions specified in GCC clause 7 and in a form acceptable to you in terms of GCC clause 7.5 for a sum equivalent to 10 % (ten percent) of the contract price for the due performance of the contract.

We agree to abide by this bid for the bid validity period specified in the ITB clause 15 (read with modification, if any, in the Bid Data Sheet) or for the subsequently extended period. If any, agreed to by us and it shall remain binding up on us and may be accepted at any time before the expiration of that period.

Until a format contract is prepared and executed, this bid together with your written acceptance thereof and your notification of award shall constitute a binding contract between us.

We understand that you are not bound to accept the lowest or any bid you may receive.

Dated this ..... Day of ..... 200 .....

Signature  
(in the capacity of)  
Duly authorized to sign bid for and on behalf of

**SECTION VII/3**

**MANUFACTURER'S AUTHORISATION FORM**

To,

**The Joint Director,  
High Security Animal Disease Laboratory,  
Indian Veterinary Research Institute,  
Anand Nagar, Bhopal – 462021 (M.P.)**

(Name and address of the purchaser)

Dear Sirs,

Ref.:- Your Bidding Documents No. ....

We ..... who are established and reputable manufacturers of ..... (name and description of the goods offered in the bid) having factories at ..... hereby authorize Messrs ..... (name and address of the agent) to submit a bid, negotiate (as and if necessary) and conclude the contract with you against your above mentioned Bidding Documents for the above goods manufactured by us.

No company or firm or individual other than Messrs. .... (name and address of the above agent) is authorized to bid, negotiate and conclude the contract against this specific Bidding Documents for the above mentioned goods manufactured by us.

We hereby extend our full guarantee and warranty as per clause 16 of the General Conditions of Contract, read with modification, if any, in the Special Conditions of Contract for the goods and services offered for supply against this Bidding Document by the above firm.

Yours faithfully,

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[Signature, name and designation]

for and on behalf of Messrs. ....

[Name & address of the manufacturers]

**Note:** This letter of authorization should be on the letter head of the manufacturing firm and should be signed by a person competent and having the power of attorney to legally bind the manufacturer.

**FORMAT-II**

**PRICE SCHEDULE FOR DOMESTIC GOODS OR GOODS OF FOREIGN ORIGIN LOCATED WITHIN INDIA**

| 1            | 2                   | 3                          | 4  |                    |                        |                        |   | 5   | 6                                  | 7           |   |
|--------------|---------------------|----------------------------|--|--------------------|------------------------|------------------------|---|---|------------------------------------|-------------|---|
|              |                     |                            | Price per unit   |                    |                        |                        |   |   |                                    |             |   |
| Schedule No. | Item description no | Accounting unit & Quantity | Ex-factory/ ex-warehouse use/ ex-showroom off the self | Excise duty if any | Packing and forwarding | In-land transportation | Insurance other duties and taxes, if any other (than sales tax) and incident at costs | Incidental services (Including supervision) | Overall unit price [a+b+c + d+e+f] | Total price | Sale tax payable, if contract is awarded. |
|              |                     |                            | (a)  | (b)                | (c)                    | (d)                    | (e)   | (f)   |                                    | 3x5         |   |
|              |                     |                            |  |                    |                        |                        |   |   |                                    |             |   |

Total bid price in Rupees: (in figure) -----  
 (in words) -----

**Place  
Date**

**Signature of bidder  
Name  
Business address**

**Note :**

- i. In case of discrepancy between unit price and total price, the unit price shall prevail.
- ii. If nothing to the contrary to this effect is mentioned under Section VII (Technical Specification and Quality Control Requirements), the bidder shall give list of spare parts for two years operation separately indicating description, quantity, unit price and total price in the above format for those items whose scope of supply includes spare parts as per 'Technical Specifications' give is Section VII.

**FORMAT-III**

**PRICE SCHEDULE FOR GOODS TO BE IMPORTED FROM ABROAD**

| 1            | 2                | 3                 | 4                          | 5                              |                                 |   |   | 6                          | 7           | 8                   | 9  | 10                         |
|--------------|------------------|-------------------|----------------------------|--------------------------------|---------------------------------|---|---|----------------------------|-------------|---------------------|--|----------------------------|
| Schedule No. | Item Description | Country of origin | Accounting unit & Quantity | Price per unit                 |                                 |   |   | Overall unit price [a+c+d] | Total price | Indian agent's name | Indian agent's commission as a % of FOB price included in the quoted price | Shipment weight and volume |
|              |                  |                   |                            | Unit price FOB port of loading | Unit price CIF at port of entry | Inland transportation charges, insurance and other local costs incidental to delivery, if specified | Incidental services including supervision |                            |             |                     |  |                            |
|              |                  |                   |                            | (a)                            | (b)                             | (c)   | (d)                                       |                            | 4x6         |                     |  |                            |
|              |                  |                   |                            |                                |                                 |   |   |                            |             |                     |  |                            |

Total bid price in foreign currency: (in figures) -----  
 (in words) -----

**Place:**

**Date:**

**Signature of bidder**

**Name**

**Business address**

Note:

- a. In case of discrepancy between unit price and total price, the unit price shall prevail.
- b. If nothing to the contrary to this effect is mentioned under Section VII (Technical Specification and Quality Control Requirements), the bidder shall give list of spare parts for two years operation separately indicating description, quantity unit price and total price in the above format for those items whose scope of supply includes spare parts as per 'Technical Specifications' give in Section VII.

III. Indian agent's commission shall be paid in Indian Rupees only. No. change due to exchange variation shall be allowed.

**SECTION VII/2**

**BANK GURANTEE FORM FOR BID SECURITY**

Where as .....(name of bidder) (herein after called “the bidder”) has submitted his bid dated ..... (dated) for the supply of ..... (brief description of the relevant goods and services) (herein after called “the bid”).

KNOW ALL PEOPLE by these presents that WE..... (name of the bank) having registered office at ..... (full address) (herein after called “the bank”) are bound unto ..... (name of the purchaser) (herein after called “the purchaser”) in the sum of ..... (amount in figures and in words) for which payment well and truly to be, made to the said purchaser, the bank binds itself, its successors and assigns by these presents.

Sealed with the Common Seal of the said bank this..... day of .....20.....

THE CONDITIONS of this obligations are: -

1. If the bidder.
  - a. Withdraws its bid during the period of bid validity specified by the bidder on the bid form; or
  - b. Does not accept the correction of errors in accordance with the Instruction to Bidders.

**OR**

2. If the bidder, having been notified of the acceptance of its bid by the purchaser during the period of bid validity.
  - a. Fails or refuses to execute the contract form, if required ; or
  - b. Fails or refuses to furnish the performance security, in accordance with the Instructions to Bidders;

We undertake to pay to the purchaser upto the above amount upon receipt of its first written demand, without the purchaser having to substantiate its demand, provided that in its demand the purchaser will note that the amount claimed by its is due to it, owing to the occurred of one or both of the above mentioned two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force upto and including 60 (sixty) days after the period of bid validity and any demand in respect thereof should reach the bank not later than the above date.

-----  
**Signature of the Bank**

## **GENERAL CONDITION OF CONTRACT (GCC)**

### **1. Definitions**

#### **1.1 In this contract the following terms shall be interpreted as indicated:**

- a) "IFB" means Invitations for Bids.
- b) "ITB" means instruction to Bidders.
- c) "GCC" means General Condition of Contract.
- d) "RC" means Rate Contract.
- e) "Contract" means a legal agreement entered into between the purchaser and the supplier, as recorded in the agreements signed by the parties including all attachments and appendices thereto and all documents incorporated by reference therein.
- f) "Contract Price" means the price payable to the supplier under a contract for the full and proper performance of the contractual obligations.
- g) "Goods" means all the items, materials, equipment and/or machinery, which the supplier is required to supply to the purchaser in terms of a contract.
- h) "Services" means the services ancillary to the supply of the goods, such as transportation and insurance and as any other incidental services, such as installation, commissioning, provision of technical assistance, training and other such obligation of the supplier covered under a contract.
- i) "Purchaser" means the buyer named in a bidding document and in the corresponding contract, purchasing the goods orders and includes its successors and/or assignees.
- j) "Consignee" means the individual or body to whom the contracted goods are required to be delivered as per the terms and conditions incorporated in a contract.
- k) "Supplier" means the individual or firm supplying the goods under a contract and includes its successor and/assignees.
- l) "Day" means calendar day of the Gregorian Calendar.
- m) "Month" means calendar month of the Gregorian Calendar.

### **2. Application**

- 2.1 These general conditions of contract (as contained in this section) shall apply to the extent they are not superseded by provisions in other parts of the contract.

### **3. Country of origin.**

- 3.1 All goods and services supplied under the contract shall have their origin in India or in the countries, with which the Government of India has trade relations.
- 3.2 For purpose of this clause, "origin" means the place where the goods are mined, grown or produced or which the services are supplied. Goods are produced when, through manufacturing, processing and substantial or major assembling of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 3.3 The origin of goods and services is distinct from the nationality of the supplier.

### **4. Standard**

- 4.1 The goods supplied under this contract shall conform to the standards mentioned in the 'Technical Specifications' and when no applicable standards is mentioned, to the latest authoritative standard as applicable to the goods' country of origin.

### **5. Use of contract documents and information.**

- 5.1 The supplier shall not, without the purchaser's prior written consent, disclose the contract or any provision thereof or any specification, plan, drawing, pattern, sample

or information furnished by or on behalf of the purchaser in connection herewith, to any person other than a person employed by the supplier in the performance of the contract. Also, disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for the purpose such performance.

5.2 The supplier shall not, without the purchaser's prior written consent, make use of any document or information enumerated in GCC sub-clause 5.1 except for the purposes of performing the contract.

5.3 Every document other than the contract itself, mentioned in GCC sub-clause 5.1, shall remain the property of the purchaser and shall be returned (in all copies) to the purchaser on completion of the supplier's performance under the contract, if so required by the purchaser.

## 6. **Patent rights.**

6.1 The supplier shall at all times indemnify the purchaser, free of cost, against all third-party claims of infringement of patent, trade mark or industrial design rights arising from use of the goods or any part thereof in India.

## 7. **Performance security.**

7.1 Within 21 (twenty one) days after the issue of notification of award by the purchaser, the supplier, shall furnish performance security to the purchaser for an amount of 10% (ten Percent) of the contract value, valid up to 60 (Sixty) days after the date of completion of all contractual obligations by the supplier, including the warranty obligations.

7.2 In the event of any correction of defects or a replacement of defective material during the warranty period, the warranty for the corrected/.replaced material shall be extended to a further period of twelve months from the date of the correction/replacement and the performance Security for the proportionate value (which will be determined by the purchaser in consultation with the supplier) shall be extended by 60(Sixty) days over and above the extended warranty period.

7.3 In the event of any contract amendment, the supplier shall, within 21(twenty one) days of issue of such amendment, furnish the necessary amendment to the Performance Security, rendering the same valid in all respects in terms of the contract, as amended.

7.4 The proceeds of the Performance Security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete its obligations under the contract.

7.5 The Performance Security shall be denominated in Indian Rupees or in the currency of the contract and shall be in one of the following forms: -

- a) Cash in Indian Currency.
- b) Demand Draft on any scheduled commercial bank in India, to be drawn in favour of the purchaser as indicated in the Schedule of Requirements.
- c) Bank Guarantee issues by a scheduled commercial bank in India, In the prescribed form as provided in section VII/4 of this bidding documents.

7.6 Subject to GCC sub-clause 7.4 above, the performance security will be discharged by the purchaser and returned to the supplier on completion of the supplier's contractual obligations including the warranty obligations under the contract.

## **8 Inspection and testes.**

8.1 The purchaser and /or its nominated representative (s) shall have the right to inspect and /or to test the goods to confirm their conformity to the contract specification and other technical details incorporated in the contract at no extra cost to the purchaser. The schedule of Requirements and the Technical Specification, incorporated in the bidding documents, shall specify what inspection and tests, the purchaser requires and where and how they are to be conducted. The purchaser shall notify, in advance, the supplier in writing, of the identify of any representative(s) for this purpose.

8.2 The inspections and tests may be conducted on the premises of the supplier or its subcontractor(s), at the point of delivery and /or at the goods' final destination. If conducted on the premises of the supplier or its subcontractor(s), all reasonable facilities and assistance, including access to relevant drawings, design details and production data, shall be furnished by the supplier to the specification to the inspectors at no charge to the purchaser.

8.3 Should any inspected or tested goods fails to conform to the required specification and standards, the purchase may reject them and the supplier shall either replace the rejected goods or make all alterations necessary to meet the specification and standards, as required, free of cost to the purchaser and resubmit the same to the purchaser for conducting the inspections and tests again.

8.4 Where the contract stipulates pre-dispatch inspection by the purchaser's nominated inspecting agency, the supplier shall put up the goods for inspection to the inspecting agency well ahead of time so that the inspecting agency is able to complete the inspection within the stipulated delivery period. If the goods are tendered for inspection at the last moment without providing reasonable time to the inspection agency for completing the inspection, the inspecting agency may carry out the inspection and complete the formality beyond the contractual delivery period at the risk and expense of the supplier. The fact that the items have been inspected after the contractual delivery period will not have the effect of keeping the contract alive and this will be without any prejudice to the contract alive and this will be without any prejudice to the legal rights and remedies available to be purchaser under the terms & conditions of the contract.

8.5 The purchaser's right to inspect, test and where necessary, reject the goods after the goods' arrival at the final destination shall in no way be limited or waived by reasons of the goods having previously been inspected, tested and passed by purchaser or its representative prior to the dispatch of the goods from the country of origin of from the supplier's premises.

8.6 Nothing in GCC clause 8 shall, in any way, release the supplier from any warranty or other obligation under the contract.

## **9. Packing**

9.1 The supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during their transit to their final destination as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme temperatures, humid weather and precipitation during transit and

open shortage. The sizes and weights of the packing cases shall also take into consideration, where applicable, the available inland mode(s) of transport in India, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit. Further, limitations and / or mandatory instructions, if any in the weight, volumes and sizes of the package shall also be taken care of by the supplier.

9.2 The packing marking and documentation within and outside the packages shall comply strictly with such special requirements if any as shall be expressly provided for in the contract, including additional requirements, if any, specified in the Schedule of Requirements and any subsequent instructions given by the purchaser.

9.3 Packing instruction:

The supplier will be required to make separate packages for each consignee named in the contract. Each package will be marked by the supplier at its own expense, on three sides with indelible ink/paint, with the following details:

- a) contract No, the date
- b) name and address of the consignee
- c) name and address of the supplier
- d) brief description of goods
- e) gross weight and outer dimension of the package
- f) country of origin of goods
- g) packing list reference No. and
- h) and any other requirement, relevant to the contract.

## 10. **Delivery of goods**

10.1 Delivery of the goods shall be made by the supplier in accordance with the terms specified by the purchaser in the notification of awards and in the contract.

10.2 For the purpose of the contract, "FOB", "CIF", "CIP" and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them in the current edition of "Incoterms" which are international commercial shipping terms, published by International Chamber of commerce, Paris, France.

## 11. **Transportation**

11.1 Where the supplier is required under the contract to deliver the goods F.O.B., transportation of the goods, up to and including, the point of putting the goods on board the vessel at the specified port of loading, shall be arranged and paid for by the supplier and the cost thereof shall be included in the contract price.

11.2 Where the supplier is required under the contract to deliver the goods C.I.F. or C.I.P., transportation of the goods to the port of destination or such other specified place of destination in India, as shall be mentioned in the contract, shall be arranged and paid for by the supplier and the cost thereof shall be included in the contract price.

11.3 Where the supplier is required under the contract to deliver the goods C.I.F. or C.I.P., within India the supplier shall arrange the shipment by Indian flag vessels or belonging to Conference Lines in which India is a member. Where the supplier is required under the contract to deliver the goods F.O.B. and also to arrange on behalf and at the expense of the purchaser for ocean transportation on Indian flag vessels or vessels of Conference Lines in which India is a member country, the supplier may arrange for such transportation on alternative carriers also, if the Indian flag vessels or Conference Line vessels are not available to transport the goods within the time frame specified in the

contract. However, before arranging such alternative transportation, the supplier shall obtain prior concurrence of the purchaser for the same.

- 11.4 The supplier shall not arrange part-shipments and/ or transshipment without the prior written consent of the purchaser.
- 11.5 In case the supplier violates any of the aforementioned instructions, the supplier shall be liable for all consequences (including financial loss) that the purchaser may face due to the such violations.

## 12. **Insurance**

- 12.1 The goods supplied under the contract, shall be fully insured in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery as indicated below in the clause (viz. GCC clause 12).
- 12.2 Where delivery of the goods is required by the purchaser on C.I.F. or C.I.P. basis, the supplier shall arrange and pay for the cargo insurance, naming the purchaser as the beneficiary. Where delivery is on F.O.B. basis, the insurance shall be the responsibility of the purchaser.
- 12.3 In the case of contract on C.I.F. or C.I.P. basis, the insurance shall be for an amount equal to 110% (one hundred and ten percent) of the CIF or CIP value of the goods from “warehouse to warehouse” (final destination) on “all risk basis including war risks and strikes.

## 13. **Distribution of dispatch document:**

- 13.1 The shipping and other documents as well as dispatch details to be furnished by supplier to the purchaser and/ or to the purchaser’s nominated authorities to enable the purchaser and/ or its nominated authorities to clear and/or accept the goods will depend on the mode of dispatch of the goods and the terms of delivery, as specified in the Schedule of Requirements and in the contract and, subject to the same, the instructions in this regards will be as indicated below: -
  - a) For goods supplied form abroad;

Within 24 hours of shipment, the supplier shall notify the purchaser and its nominated authorities (as specified in the contract and the insurance company by cable or telex or fax, the full details of the shipment including contact number, description of goods, quantity, the vessel, the bill of laying number and date/airway bill number and date, port of loading, date of shipment, port of discharge, extended date of arrival at the port of entry etc. Further, the supplier shall also immediately dispatch by registered air-mail the specified number of copies of the following documents to the above authorities:

- i) Supplier’s invoice showing contract number, description of goods, quality, unit and total amount.
- ii) Original and copies of the negotiable, clean, on-board bill of lading marked freight to pay and copies of non-negotiable, bill of lading;
- iii) Copies of packing list identifying the contents of each package;
- iv) Insurance certificate;
- v) Manufacture’s/Supplier’s warranty certificate;
- vi) Pre-dispatch inspection certificate issued by the purchaser’s nominated inspection agency (if so specified) and the supplier’s factory inspection report; and
- vii) Certificate of origin.

The above documents shall be received by the purchaser and other authorities mentioned above at least one week before the arrival of goods at port or place of arrival and, if not received, the supplier will be responsible for any consequent expenses.

**b) For goods supplied from within India:**

Within 24 hours of dispatch of the goods, the supplier shall notify the complete dispatch details to the purchaser and/ or the purchaser's nominated authorities (as specified in the contract) and the insurance company. The supplier shall also mail the specified number of copies of the following documents to them:

- i) The supplier's invoice showing contract number, description of goods, quantity, unit price and the total amount;
- ii) Railway receipt or Delivery note;
- iii) Packing list identifying contents of each package;
- iv) Insurance certificate;
- v) Manufacturer's/Supplier's warranty certificate;
- vi) Pre-dispatch inspection certificate issued by the purchaser's nominated inspection agency (if so specified) and the supplier's factory inspection report; and)
- vii) Certificate of origin.

The purchaser shall receive the documents at least one week before the arrival of the goods (except where it is handed over to the consignee with all the documents) and if not received, the supplier will be responsible for any consequent expenses.

The documents to be provided by the supplier for claiming payment are specified in GCC clause 17 ("Payment")

**14. Incidental Services**

14.1 The purchaser may include in the contract any or all of the following services and/ or some additional services, if specified in the Schedule of Requirements and the supplier is required to provide the same;

- a) performance or supervision of on-site and / or start-up supplied goods,
- b) furnishing of tools required for assembly and/or maintenance of the supplied goods,
- c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods,
- d) performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed to by the parties, provided that this services shall not relieve the supplier of any warranty obligations under the contract, and
- e) Training the purchaser's personnel, at the supplier's plant and/or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied goods.

14.2 Price charged by the supplier for the above mentioned incidental services, if not included in the quoted price for the goods, shall be quoted separately in the bid itself

and shall not exceed the prevailing rates, charged to other parties by the supplier for similar services.

**15. Spare parts**

- 15.1 As specified in the Schedule of Requirements, the supplier may be required to provide any or all of the following material, notification and information pertaining to spare parts manufactured and /or distributed by the supplier:
- a) such spare parts as the purchaser may elect to purchase from the supplier, provided that this will not relieve the supplier of any warranty obligations under the contract; and
  - b) In the event of termination of production of the spare parts:
    - I. Advance notice to the purchaser of the pending termination, in sufficient time to permit the purchaser to procure needed requirements; and
    - II. Immediately following such termination, furnishing at no cost to the purchaser, the blueprints, drawings and specifications of the spare parts, if requested.
- 15.2 Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the goods. Other spare parts and components shall be placed on order opening the letter of credit.

**16. Warranty**

- 16.1 The supplier warrants that the goods supplied under the contract is new, unused, of the most recent of current models and incorporate all recent improvements in design and materials unless provided otherwise in the contract. The supplier further warrants that the goods supplied under the contract shall have no defect arising from design, material (except when the design adopted and/ or the material used are as per the purchaser's specifications) or workmanship or from any act or omission of the supplier, the may develop under normal use of the supplied goods under the conditions prevailing in India.
- 16.2 This warranty shall remain valid for 12 (twelve) months after the goods or any portion thereof as the case may be, have been delivered to the final destination and installed and commissioned at the final destination and accepted by the purchaser, in terms of the contract or for 18 (eighteen) months from the date of dispatch from the supplier's works for domestic goods or for 21 (Twenty-one) months after the date of shipment from the port or place of loading in the source country for imported goods, whichever is earlier, unless specified otherwise in the Schedule of Requirements.
- 16.3 The purchaser shall promptly notify the supplier in writing of any claim under this warranty.
- 16.4 Upon receipt of such notice the supplier shall, with all reasonable speed within the period, if specified in the Schedule of Requirements and the contract, repair or replace the defective goods or parts thereof, free of cost, at ultimate destination. The supplier shall take over the replaced parts/goods at the time of their replacements. No claim whatsoever shall lie on the purchaser for the replaced parts/goods thereafter.
- 16.5 In the event of any correction of a defect or replacement of any defective material during the warranty period, the warranty for the corrected/replaced material shall be extended to a further period of 12 (twelve) months from the date, such corrected/replaced material starts functioning to the satisfaction of the purchaser.

16.6 If the supplier, having been notified, fails to remedy the defect(s) within a reasonable period (or within the period, if specified in the Schedule of remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights, which the purchaser may have against the supplier, under contract.

## 17. **Payment**

17.1 The payment shall be made in the currency/currencies specified in the contract. The supplier shall send its claim (with relevant documents, as required) to the appropriate paying authority as specified in the Schedule of Requirements and the contract. Before claiming any payment, the supplier shall ensure that all contractual obligations for claiming that payment have been duly fulfilled.

17.2 The payment shall be made in the following manner and on production of the following documents:

A) Payment for goods supplied from aboard:

i. On Shipment:

90% of the contract price shall be paid through irrevocable letter of credit established in favour of the foreign supplier in a scheduled commercial bank in India or a bank in the supplier's country acceptable to the purchaser, upon submission the following documents:

- a) Certified copy of the fax sent by the supplier to the purchaser and others as per GCC sup-clause 10.3(a).
- b) Supplier's signed commercial invoice showing contract number, description of the supplied goods, corresponding quantity, unit price and the total value and name(s) of the consignee(s) for the supplied goods.
- c) Original clean on board bill of lading marked freight pre-paid consigned to the interim/port consignee evidencing description of the goods, quantities, relevant details about the contract number etc.
- d) Packing list, identifying contents of each package.
- e) Insurance policy or certificate in duplicate endorsed in blank with claims payable in India in the currency of the letter of Credit.
- f) Manufacture's/Supplier's warranty certificate and supplier's factory inspection report.
- g) Pre-dispatch inspection certificate issued by the purchaser's nominated inspection agency, if so specified.
- h) Certificate of origin.
- i) Supplier's certificate confirming that the required documents have been sent to all concerned in items of GCC sub-clause 10.3(a).
- j) Supplier's certificate confirming that the amounts shown in the invoice are correct in terms of the contract and that all terms and conditions of the contract have been complied with for claiming this payment.
- k) Any other document(s) and/ or modification of above documents specified in the Schedule of Requirements and the contract.
- ii) on final acceptance

10% of the contract price of goods received shall be paid within 30(thirty) days of receipt of goods on submission of the claim supported by the acceptance certificate issued by the purchaser or the purchaser's nominated representative in the proforma given in section ..... of the bidding documents.

iii) Payment of agency commission;

Payment shall be made in Indian Rupees of within 30(thirty) days of preventative of claim supported by a certificate from the purchaser confirming that the goods have been delivered, full 100% payment has been made to the foreign supplier and all the contractual obligations, have been performed by the supplier and its agent for claiming this payment.

This payment (towards agency commission) will be made by the purchaser's paying authority specified in the contract and not through Letter of Credit.

**B) Payment for goods supplied from India:**

Payment shall be made in Indian rupees by the purchaser's paying authority, as specified in the contract (and not through Letter of Credit), in the following manner:

i) On delivery

90% of the contract price shall be paid on receipt of the goods by the consignee and upon submission of following documents to the paying authority.

- a) The supplier's invoice showing contract number, description of goods, quantity, unit price and the total amount;
- b) Railway receipt or Delivery note'
- c) Packing list identifying contents of each package;
- d) Insurance certificate;
- e) Manufacture's/Supplier's warranty certificate;
- f) Pre-dispatch inspection certificate issued by the purchasers nominated inspection agency, if so specified and the supplier's factory inspection report.
- g) Certificate of origin
- h) Provisional receipt certificate for the corresponding delivery, issued by the consignee ; and
- i) Any other documents(s) and /or modification of above documents specified in the Schedule of Requirements and the contract.

ii) On final acceptance:

The remaining 10% of the contract price shall be paid to the supplier with 30(Thirty) days of receipt of its claim, duly supported by the final acceptance certificate for the corresponding delivery issued by the purchaser's representative in the proforma given in section ..... of the bidding documents.

**C) Payment for incidental services and supervision:**

The incidental services and supervision, if required separately, will be specified in the Schedule of Requirements and in the contract. The payment terms applicable for such services and supervision will also be specified therein.

**17.3 Operation of letter of Credit:**

i) The payments effected through letter or Credit, shall be subject to the latest Uniform Custom and Practice for Documentary Credit, of the International Chamber of Commerce;

ii) If requested specifically by the supplier, the letter of credit will be confirmed, but the cost of the same shall be charged to the supplier's account.

iii) If the letter of credit is required to be extended/reinstated for reasons or attributable to the purchaser, the charges thereof shall be to the supplier's account.

**18. Prices**

18.1 Prices charged by the supplier for the goods supplied and the services performed under the contract shall not vary from prices quoted by the supplier in its bid with the exception of any price adjustment authorized in the Schedule of Requirements.

**19. Modification of contract**

19.1 The purchaser may at any time, by a written order given to the supplier pursuant to GCC clause 31, make changes and modifications within the general scope of contract in any one or more of the following:

- a) Drawings, design or specifications, where goods to be supplied under the contract are to be specifically manufactured for the purchaser.
- b) The mode of packing.
- c) The mode of dispatch
- d) The place of delivery
- e) The services to be provided by the supplier and/ or
- f) Any other area(s) of the contract, depending on the merits of the case.

19.2 If any such change causes an increase or decrease in the cost of, or in the time required for the supplier's performance of any provision under the contract, and equitable adjustment shall be made in the contract price or contract delivery schedule or both, and the contract shall be amended accordingly. Any claim by the supplier for adjustment under this clause must be asserted within 21 (twenty one) days from the date of the supplier's receipt of the purchaser's amendment/modification of the contract.

19.3 Subject to GCC sub-clause 19.1 and 19.2 no variation in or modification of the terms of the contract shall be made except by written amendment signed by both the parties.

**20. Assignment**

20.1 The supplier shall not assign, in whole or in part, its obligations to perform under the contract shall be made except by written consent.

**21. Sub Contracts**

21.1 The supplier shall notify the purchaser in writing of all sub contracts awarded under the contract, if not already specified in its bid. Such notifications, in its original bid or later, shall not relieve the supplier from any liability or obligation, whatsoever, under the contract.

21.2 Subcontract shall be only for bought-out items and sub-assemblies.

21.3 Subcontract must comply with the provisions of GCC clause 3.

**22. Delay in the supplier's performance**

- 22.1 Delivery of the goods and performance of the services shall be made by the supplier in accordance with the time schedule specified by the purchaser in the “Schedule of Requirements”.
- 22.2 Except as provided under GCC clause 25, any unexcused delay by the supplier in maintaining its contractual delivery obligations shall render the supplier liable to any or all of the following sanctions:  
Imposition of liquidated damages,  
Forfeiture of its performance security and/or  
Termination of the contract for default
- 22.3 If at any time during the performance of the contract, the supplier or its subcontract(s) should encounter conditions hindering timely delivery of the goods and performance of the services, the supplier shall promptly notify the purchaser in writing of the fact of the delay, its likely duration and its causes(s). After the receipt of the supplier’s notice the purchaser, as soon as practicable, shall evaluate the situation and may at its discretion extend the supplier’s time for performance in which case the extension of the delivery period shall be ratified by issuing as amendment to the contract.
- 22.4 The supplier shall not dispatch the goods after expiry of the delivery period. The supplier is required to apply to the purchaser for extension of delivery period and obtain the same before dispatch. In case the supplier dispatches the goods without obtaining an extension, it would be doing so at its own risk and no claim for payment for such supply and/ or any other expense related to such supply shall lie against the purchaser.

**23. Liquidated damages**

- 23.1 Subject to GCC clause 25, if the supplier fails to deliver any or all the goods or perform the services within the time period(s) specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% (half percent) of the delivered price of the delayed goods or performed services for each week of delay or part thereof until actual delivery or performance, up to a maximum deduction of 10% (ten percent) of the delayed goods’ or services’ contract price. Once the maximum is reached, the purchaser may consider termination of the contract, if the same have not been terminated already.

Further, during the above mentioned delayed period of supply and/ or performance, the supplier, notwithstanding any stipulation in the contract for increase in price for any ground, shall not be entitled to any increase in price and cost, whatsoever, which take place during the period of delay. But, nevertheless, the purchaser shall be entitled to the benefit any decrease in price and cost on any ground during that period of delay.

**24. Termination for default.**

- 24.1 The purchaser, without prejudice to any other remedy for breach of contract, may, be written notice of default sent to the supplier, terminate the contract in whole or in part, if the supplier fails to deliver any or all the goods or fails to perform any other contractual obligation(s) within the time period specified in the contract, or within any extension thereof granted by the purchaser pursuant to GCC clause 22.
- 24.2 In the event the purchaser terminates the contract in whole or in part, pursuant to GCC sub-clause 24.1, the purchaser may procure, upon such terms and conditions and in such manner as it deems appropriate, goods and/or services similar to those undelivered and

the supplier shall be liable to the purchaser for any excess cost for such similar goods and /or services. However, the supplier shall continue to perform the contract to the extent not terminated.

**25. Force Majeure**

- 25.1 Notwithstanding the provisions of GCC clause 22,23 and 24, the supplier shall not be liable for, forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that its contract is the result of an event of Force Majeure.
- 25.2 For purpose of this clause “Force Majeure” means and event beyond the control of the supplier and not involving the supplier’s fault or negligence and not foreseeable. Such events may include, but are not restricted to, acts of the purchaser in its sovereign capacity, war or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- 25.3 If a Force Majeure situation arises, the supplier shall promptly notify the purchaser in writing of such conditions and the cause thereof. Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

**26. Termination for insolvency.**

- 26.1 If the supplier becomes bankrupt or otherwise insolvent, the purchaser may terminate the contract by giving written notice to the supplier, without any compensation to the supplier, provided, that such termination will not prejudice or affect any right of action or remedy which has accrued and /or will accrue thereafter to the purchaser.

**27. Termination for convenience**

- 27.1 The purchaser, by written notice to the supplier, may terminate the contract, in the whole or in part, at any time for its convenience. The notice of termination shall specify that the termination is for the purchaser’s convenience, the extent to which performance of the supplier under the contract is terminated, and the date with effect from which such termination becomes effective.
- 27.2 The goods that the complete and ready for shipment within 30 (thirty) days after the supplier’s receipt of notice of termination shall be accepted by the purchaser at the contract terms and prices. For the remaining goods, the purchaser may elect:
  - a) To have any portion completed and delivered at the contract terms and price; and/or
  - b) To cancel the remainder and pay to the supplier an agreed amount for partially completed goods and services and for materials and parts already procured by the supplier for fulfilling the contractual obligations.

**28. Resolution of disputes.**

- 28.1 If any disputes or different of any kind shall arise between the purchaser and the supplier in connection with or arising out of the contract, the parties shall make every effort to resolve the same amicably by mutual consultations.

- 28.2 If after thirty (30) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the purchaser or the supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided, as to the matter in dispute, and no arbitration in respect of this matter may be commenced unless such notice is given.
- 28.3 Any dispute or difference, in respect of which a notice of intention to commence arbitration has been given in accordance with GCC sub-clause 28.2, shall be finally settled by Arbitration may be commenced prior to or after delivery of goods under the contract.
- 28.4 The dispute resolution mechanism to be applied pursuant to GCC sub-clause 28.3 shall be as follows: -
- a) In the case of a dispute or difference arising between the purchaser and the supplier relating to any matter arising out of or connected with the contract, such disputes or difference shall be settled in accordance with the Arbitration and Conciliation Act, 1996. The arbitral tribunal shall consist of three arbitrators, one each to be appointed by the purchaser and the supplier. The third arbitrator shall be chosen by the two arbitrators so appointed by the parties and shall act as presiding arbitrator. In case of failure of the two arbitrators appointed by the parties to reach upon a consensus within a period of thirty days from the appointment of the arbitrator appointed subsequently, the presiding arbitrator shall be appointed by the Indian Council of Arbitration or President of the Institution of Engineers (India).
  - b) The decision of majority of arbitrators shall be final and binding upon both the parties.
  - c) The cost and expense of the arbitration proceedings will be paid as determined by the arbitral tribunal. However, the expenses incurred by each party in connection with the preparation, presentation etc. of its proceedings as also fees and expenses paid to the arbitrator appointed by such party or on its behalf shall be borne by each party itself.
- 28.5 However, where the value of the contract is RS. 15 Lakhs (Rs. One and a half million) and below, the disputes or differences arising in it shall be referred to a sole arbitrator. The sole arbitrator shall be appointed by mutual agreement between the parties. If the parties fail to agree on the arbitrator within 30 (thirty) days from the receipt of a request by one party from the other party to so agree, the appointment shall be made upon request of a party, by the Indian Council of Arbitration or President of the Institution Engineers (India).
- 28.6 The venue of arbitration shall be the place from where contract is issued.

## 29. **Governing language**

- 29.1 The contract shall be written in English language. All correspondence and other documents pertaining to the contract, which the parties exchange, shall also be written in English.

## 30. **Application law**

- 30.1 The contract shall be interpreted in accordance with the laws of India.

## 31. **Notice**

31.1 Any notice given by one party to the other pursuant to the contract shall be sent in writing or by cable, telex or facsimile and confirmed in writing to the addresses specified in the Schedule of Requirements.

31.2 A notice shall be effective when delivered or on the notice's effective date, whichever is late.

32. **Taxes and duties**

32.1 A foreign supplier shall be entirely responsible for all taxes, stamp duties, license fees and other such levies imposed outside India.

32.2 A local supplier shall be entirely responsible for all taxes, duties license fees, etc. incurred until delivery of the contracted goods to the purchaser.

32.3 Further instruction if, any, shall be as provided in the Schedule of Requirements.

## SECTION II – INSTRUCTION OF BIDDERS [I T B]

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## **INSTRUCTIONS TO BIDDERS [I T B]**

### **A. INTRODUCTION**

1. **Source of funds**
  - 1.1 The expenditure to be incurred for this intended purchase will be met from the funds available with the purchaser named in the Schedule of Requirements. Hereinafter referred to as “the purchaser”
2. **Eligible bidders**
  - 2.1 This invitation for bids is open to all suppliers, who fulfill the eligibility Criteria as well as the qualification criteria, incorporated in this document.
3. **Cost of bidding**
  - 3.1 The bidder shall bear all costs associated with the preparation and submission of its bid including samples, drawings, literature etc., if any. The purchaser will in no case be responsible or liable any such cost, regardless of the conduct or outcome of the bidding process.

### **B. THE BIDDING DOCUMENTS**

4. **Content of bidding documents**
  - 4.1 The goods required, bidding procedures and contract terms are prescribed in the bidding documents. In addition to the Invitation for Bids, the bidding documents include:
    - a) Instruction of Bidders (ITB)
    - b) General Conditions of Contract (GCC)
    - c) Schedule of Requirements
    - d) Technical Specifications and Quality Control Requirements
    - e) Questionnaire
    - f) Bid form and Price Schedules
    - g) Bank Guarantee Form for Bid Security
    - h) Manufacturer’s Authorizations Form
    - i) Bank Guarantee Form for Performance Security
    - j) Contract Form
  - 4.2 In case of any contradiction between the stipulations made in ITB & GCC and Schedule of Requirements, the stipulations incorporated in the Schedule of Requirements will prevail over the corresponding stipulations contained in the ITB and/ or GCC.
  - 4.3 The bidder is expected to examine all instructions, forms, terms and specifications in the bidding documents. Failure to furnish all information required by the bidding documents or submission of a bid not substantially responsive to the bidding documents in every respect will be at the bidder’s risk and may result in rejection of its bid.

**5. Clarification of bidding documents**

- 5.1 A prospective bidder requiring any clarification in connection with the bidding documents may notify the purchaser in writing or by telex or cable at the purchaser's mailing address indicated in the Schedule of Requirements. The purchaser will respond in writing to any request for clarification of the bidding documents which it receives no later than 21 (twenty one) days prior to the deadline for submission of bids prescribed by the purchaser. The purchaser, at its discretion, may send the relevant text of this correspondence (without identify the source of inquiry) to all prospective bidders, which have received the bidding documents.

**6. Amendment of bidding documents**

At any time prior to the deadline for submission of bids, the purchaser may, for reason whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by amendment.

The amendment will be notified in writing or by telex or cable to all prospective bidders, which have received the bidding documents and will be bidding on them.

In order to provide the prospective bidders with reasonable time in which to take the amendment into account in prepping their bids, the purchaser may, at its discretion, extend the deadline for the submission of bids and other allied time frame having linkage with that deadline.

**C. PREPARATION OF BIDS**

**7. Language of bid**

- 7.1 The bid submitted by the bidder and all correspondence and documents relating to the bid exchanged by the bidder and the purchaser; shall be written in English language. Supporting documents and printed literature furnished by the bidder may be written in other languages, provided they are accompanied by an English translation of their relevant passages in which case, for the purpose of interpretation of the bid, the English translation shall govern.

- 7.2 The bid submitted by the bidder and all correspondence and documents relating to the bid exchanged by the bidder and the purchaser; may also be written in Hindi language, provided that the same is accompanied by an English translation, in which case, for the purpose of interpretation of the bid, the English translation shall govern.

**8. Documents constituting the bid**

- 8.1 The bid submitted by the bidder shall comprise of the following documents:
- a) A bid form and a price schedule in accordance with ITB clause 9, 10, and 11.
  - b) Documentary evidence established in accordance with ITB clause 13 that the bidder is eligible to bid and is qualified to perform the contract if its bid is accepted.
  - c) Documentary evidence established in accordance with ITB clause 14 that the goods and ancillary services to be supplied by the bidder conform to the bidding documents.
  - d) Bid Security furnished in accordance with ITB clause 15.

- e) The questionnaires (Attached as Annexure ..... With the bidding documents) filled in.

**Note:** -A bid, which does not fulfill any of the above requirements and /or gives evasive information/replay against any such requirement, shall be liable to be declared unresponsive and summarily rejected.

9. **Bid form**

- 9.1 The bidder shall complete the bid form and the appropriate price schedule furnished in the bidding documents in section IX/1, including, inter alia, for the goods to be supplied, a brief description of the goods, their country of origin, quantity and prices.

10. **Bid Prices**

- 10.1 The bidder shall indicate on the Price Schedule the unit price and total bid price of the goods it propose to supply under the Contract. To this end, the Bidders, are allowed the option to submit the bids for any one or more schedule specified in the 'Schedule of Requirements' and to offer discounts for combined schedules, However, Bidders shall quote for the complete requirement of goods and services specified under each schedule on a single responsibility basis, filing which such bids (for the schedule in question) will not be taken into account for evaluation and will not be considered for award.

- 10.2 Prices indicated on the price schedule shall be entered separately in the following manner:

- I) For goods offered form within India.
  - a) The price of the goods, quoted ex-factory, ex-showroom, ex-warehouse or off-the-self, as applicable, including customs; excise and any other duties and sales and other tales already paid or payable on the components and raw material used in the manufacture or assembly of the goods quoted ex- factory or on the previously imported goods of foreign origin quoted ex- showroom, ex-warehouse or off-the self.
  - b) Any sales or other taxes/duties including excise duty, which will be payable on the goods in India if the contract is awarded.
  - c) Chares for inland transportation, insurance and other local costs incidental to delivery of goods to their final destination. The final destination is specified in the Schedule of Requirements.
  - d) The price of incidental services as and if listed in Schedule of Requirements.
  - e) Any element of cost, taxes, duties, levies etc. not specifically indicated in the bid, shall not be paid by the purchaser.

II. For goods offered form abroad.

- a) The price of goods shall be quoted CIF port of entry in India or CIP named place of destination in India as and if specified in the Schedule of Requirements in quoting the prices; the bidder shall use ocean transportation through Indian flag vessels of Indian origin or through vessels of Shipping Conference Lines in which India is a member country. Similarly, the bidder may obtain insurance services form may nationalized insurance company in India.
- b) The price of goods shall be quoted FOB port of shipment, as and if specified in the Schedule of Requirements.

- c) Changes for inland transportation, Insurance and other local costs incidental to delivery of the goods from the port of entry in India to their final destination, which is specified in the Schedule of Requirements.
- d) The price of incidental services as and if listed in the Schedule of Requirements.
- e) Any element of cost, taxes duties levies etc. not specifically indicated in the bid, shall not be paid by the purchaser.

10.3 The terms FOB, CIF, CIP etc, shall be governed by the rules & regulations prescribed in the current edition of INCOTERMS, published by the international Chamber of Commerce, Paris.

10.4 The bidder's separation of the price components in accordance with ITB clause 10.2 above will be solely for the purpose of facilitating the comparison of bids by the purchaser and will not in any way limit the purchaser's right to contract on any of the terms offered.

10.5 Prices quoted by the bidder shall remain firm and fixed during the currency of the contract and not subject to variation on any account, unless otherwise specified in the Schedule of Requirements if the requirement is for a fixed price bid, a bid submitted with an adjustable price quotation will be treated as non-responsive and rejected, pursuant to ITB clause 23.

## 11. **Bid currencies**

11.1 For domestic goods prices shall as quoted in Indian rupees only. Commission of Indian Agent, if payable, shall be quoted in Indian Rupees only in a manner as specified in ITB Clause No. 12.2 For imported goods prices shall be quoted either in Indian rupees or in the currency of the country of origin of goods. Bids, where prices are quoted in any other way shall be treated as non-responsive and rejected.

## 12. **Indian Agent.**

12.1 If a foreign bidder has engaged an agent in India in connection with its bid, it will be required to give the following information issue bid.

- I. The name and address of the Indian agent with their permanent income tax number.
- II. The details of the services the agent will render.
- III. The amount of remuneration for the agent, included in the FOB component of bid price.

12.2 The agency commission shall be indicated in the space provided for in the price schedule and will be paid to the bidder's agent in Indian rupees using the telegraphic buying rate of exchange ruling on the date of award of contract and shall not be subject to any further exchange variation.

## 13. **Documents establishing bidder's eligibility and qualifications.**

13.1 Pursuant to ITB clause 8, the bidder shall furnish, as part of its bid, documents establishing the bidder's eligibility to bid and its qualifications to perform the contract if its bid is accepted.

13.2 The documentary evidence of the bidder's qualification to perform the contract if its bid is accepted.

- a) That, in the case of a bidder offering to supply goods under the contract which the bidder bid not manufacture of otherwise produce, the bidder has been duly authorized (as per authorization form in section VII/3) by the good's manufacturer or producer to supply the goods in India.
- b) That the bidder has financial, technical and production capability necessary to perform the contract and, also, it meets the criteria indicated in the Schedule of Requirements.
- c) That, in the case of a bidder not doing business in India, the bidder is or will be (if successful) represented by an agent in India equipped and able to carry out the supplier's maintenance, repair and spare parts stocking obligations prescribed by the conditions of contract and/ or technical Specifications.
- d) That such an agent (w.r. to sub-para c above) is enlisted with Directorate General of Supplies & Disposals, Jeevan Tara Building, Sansad Marg, New Delhi – 110001, under the scheme of Indian agents.
- e) If an agent in its bid submits quotations on behalf of more than one manufacturer, it is necessary that each such bid is accompanied by a separate bid form and bid security for each such quotation and authorization form from the respective, manufacturer (as per authorization form in section VII/3). Otherwise all such quotations will be rejected as non-responsive.

**14. Documents establishing good's eligibility and conformity to bidding documents.**

14.1 Pursuant to clause 8, the bidder shall furnish, as part of its bid, documents establishing the eligibility and conformity to the bidding documents of all goods and services which the bidder proposes to supply under the contract.

14.2 The documentary evidence for eligibility of the goods and services shall consist of a statement in the price schedule, about the country of origin of the goods and services offered which shall be confirmed by a certificate of origin issued at the tune time of shipment.

14.3 The documentary evidence for eligibility of the goods and services to the bidding documents may be in the form of literature, drawings, date etc. and shall consists of:

- a) A detailed description of the goods' essential technical and performance characteristics,
- b) A list giving full particulars, including available sources and current prices, of all spare parts, special tools, etc. necessary for the proper and continuing functioning of the goods for a period of two years (or more, if specified in the schedule) following commencement of the use of the goods by the purchase;

and

- c) A clause-by-clause commentary on the purchaser's Technical Specifications' demonstrating substantial responsiveness of the goods and services to those specifications of a statement of deviations and exceptions to the provisions of the 'Technical Specification:

14.4 For purpose of the commentary to be furnished to ITB clause 14.3c above, the bidder shall note that the standards of workmanship, material and equipment and references to brand names or catalogue numbers. If any designated by the purchaser in its 'Technical Specifications' are instanced to be descriptive only and not restrictive. The bidder may substitute-alternative standards, brand names and/or catalogue numbers in its bid, provided that demonstrates to the purchaser's satisfaction that the substitutions are substantially equivalent or superior to those mentioned in the 'Technical Specification'

## 15. **Bid Security**

15.1 Pursuant to clause 8, the bidder shall furnish as part of its bid security of an amount specified in the Schedule of Requirements.

15.2 The bid security is required to protect the purchaser against risk or bidder's conduct. Which would warrant the security's forfeiture, pursuant to ITB clause.

15.3 The bid security shall be denominated in the currency of the bid or in Indian Rupees and shall be in one of the following forms:

- a) Demand draft on a schedule commercial bank in India, drawn in favour of the designed officer of the purchase organization and payable at a place as indicated by the purchaser in the Schedule of Requirements.
- b) A bank guarantee, issued by a schedule commercial bank in India or a bank abroad, duly confirmed by a scheduled commercial bank in India in the form provided in the bidding documents under section VII/2 and valid for 45 days beyond the validity of the bid.

15.4 Any bid from a bidder, not secured in accordance with ITB clause 15.1 and 15.3 will be summarily rejected by the purchaser, as non-responsive, pursuant to ITB clause 24.

15.5 Unsuccessful bidders' bid security will be discharged/returned as promptly as possible after the expiration of the period of bid validity prescribed by the purchaser, pursuant to ITB clause 16, but, barring any unforeseen circumstances, not later than 45 days of the award of contract.

15.6 The successful bidder's bid security will be discharged/returned upon the bidder signing and accepting the contract pursuant to ITB clause 33 and furnishing the performance security, pursuant to ITB clause 34.

15.7 The bid security may be forfeited;

a. If a bidder.

- I. withdraws its bid or impairs or derogates from the bid in any respect during the period of bid validity specified by the bidder on the bid form: or
- II. does not accept the correction of errors pursuant to ITB clause 24.2

b. in the case of successful bidder, if the bidder fails:

- I. to accept and sign the contract in accordance with ITB clause 33; or
- II. to furnish performance security in accordance with ITB clause 34.

## 16. **Period of Validity of bids**

- 16.1 Bids shall remain valid for acceptance for 90 (ninety) days after the date of bid submission prescribed by the purchaser, pursuant to ITB clause 19. A bid valid for a shorter period shall be rejected by the purchaser as non-responsive.
- 16.2 In exceptional circumstance, the purchaser may solicit the bidder's consent to an extension of the period of bid validity up to a specified period. The request and the response thereto shall be made in writing (or by facsimile or cable or telex, which will be followed by a signed confirmatory copy simultaneously). The bid security provided under ITB clause 15 shall also be suitably extended. A bidder may refuse the request without forfeiting its bid security. However, a bidder agreeing to the request will not be required nor permitted to modify its bid.
- 16.3 If the date up to which the bid is to remain valid happens to be a closed holiday for the purchaser, the bid shall automatically remain valid up to the next working day of that organization.

**17. Format and signing of bid**

- 17.1 The bidder shall prepare two copies of the bid, clearly making them: Original Bid "and "Duplicate copy of Bid" respectively. In the event of any discrepancy between them, the original shall govern.
- 17.2 The original and the copy of the bid shall be typed or written in indelible ink and shall be signed by the bidder or a person or persons duly authorized to bind the bidder to the contract. All pages of the bid, except for unamended printed literature, shall be initialed by the person or persons signing the bid.
- 17.3 Any interlineations, erasures or overwriting in the bid shall be valid only if they are initialed by the person or persons signing the bid.
- 17.4 The front page of the bidding documents, containing the signature with date of the official (of the purchase organization) selling/dispatching the documents and the seal of that office must be returned in original by the bidder alongwith the original copy of the bid, failing which the bid is liable to be ignored.

**D. SUBMISSION OF BIDS**

**18. Sealing and marking of bids**

- 18.1 The bidder shall seal the original and the duplicate copy of the bid in separate envelopes, duly marking the envelopes as "Original" and "Duplicate" respectively. These envelopes shall then be sealed in an outer envelope. (In case more than two copies are required as per specific stipulation in the Schedule of Requirements, the copies are required as per accordingly, like "Original" "Duplicate" "Triplicate" and so on. Each copy of the bid shall be sealed in a separate envelope and these envelopes shall then be sealed in an outer envelope)
- 18.2 The inner and outer envelopes shall be:
  - a) Addressed to the purchaser at the address given in the Schedule of Requirements.
  - b) Bear the invitation for bids (IFB) number and the words "DO NOT OPEN BEFORE.....\*..... (\*The time and date of bid opening, as specified in Bid Date Sheet shall be indicated here).

- 18.3 Each inner envelope shall indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared "late" or if the invitation of bids (IFB) is cancelled.
- 18.4 If the outer envelope is not sealed and marked as required by ITB clause.
- 18.5 The purchaser will not assume any responsibility for the bid's misplacement or premature opening
- 18.6 Bids sent by Telegram, Telex, cable or facsimile are not acceptable and will be rejected.

**19. Deadline for submission of bids**

- 19.1 Bids must be received by the purchaser at the address specified under ITB clause 18.2 not later than the time and date specified in the schedule of Requirements and the purchaser will provide a receipt (inter alia containing time and date of receipt) for the same. If that specified date happens to be a closed holiday for the purchaser, the bids will be 'received up to the appointed time on the next working day. If the Schedule of Requirements provides for receipt of bids through "tender box", the bids shall be submitted accordingly as per the instruction given in the Schedule of Requirements.
- 19.2 The purchaser may, at its discretion, extend this deadline for the submission of bids by amending the bidding documents in accordance with ITB clause 6, in which case all rights and obligations of the purchaser and bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

**20. Late bids**

Any bid received by the purchaser after the deadline for submission of bids prescribed by the purchaser, pursuant to ITB clause 19, will be rejected and/ or returned to the bidder.

**21. Modification and withdrawal of bids**

The bidder may modify or withdraw its bid after submitting the same, provided that written notice of the modification or withdrawal is received by the purchaser prior to the deadline prescribed for submission of bids.

The bidders modification or withdrawal notice shall be prepared sealed, marked and dispatches in accordance with the provisions of ITB clause 18,A withdrawal notice may also be sent by telex or cable or facsimile, but the same must be followed by a signed confirmation copy. Postmarked not later than the deadline for submission of birds.

No bid may be modified subsequent to the deadline for submission of birds.

No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the bidder in are bid form, withdrawal of a bid during this interval may result in forfeiture of the bidder's security pursuant to ITB clause 15.7.

**E. BID OPENING AND BID EVALUATION**

**22. Opening of bids by purchaser**

The purchaser will open the bids in the presence of bidder's representative, who choose to attend, at the time, date and the place specified in the schedule of Requirements.

If the specified date of bid opening is declared a holiday for the purchaser, the bid shall be opened at the appointed time and location on the next working day.

The representative of a bidder, who intends to attend the bid opening, shall bring with him/her a letter o authority from the bidder on the bidder's letter head, duly authorizing

him/her to attend the bid opening. In the absence of such a letter of authority, the representative (S) will not be allowed to enter and attend the bid opening. The bidders representative, who attends the bid opening, shall sign a register (which will be provided by the purchaser) evidencing their attendance.

The bidder's name, technical specifications of the goods offered, bid prices, discounts, the presence or absence of the requisite bid security and such other details as the purchaser, at its discretion, may consider appropriate will be announced at the opening.

The purchaser will prepare appropriate minutes of the bid opening for its official record.

**23. Clarification of bids**

During scrutiny and evaluation of bids, the purchaser may, at its discretion, ask a bidder for a clarification of its bid. The request for clarification and the response shall be in writing and no change in the price or substance of the bid shall be sought, offered or permitted.

**24. Preliminary examination of bids-unresponsive, substantially responsive & responsive bids.**

The purchaser will examine the bids to determine whether they are complete, whether the required bid validity is available, whether any computational errors have been made. Whether required bid security has been furnished, whether the documents have been properly signed, and whether the bids are generally in order. While examining the bids, the purchase will also keep in view the requirements as per ITB Clause 8.

Arithmetical errors, of any in a bid will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected accordingly. If there is a discrepancy between the words and figures, the amount in words shall prevail. If the supplier does not accept the correction of such errors, its bid will be rejected.

Prior to the detailed evaluation pursuant to ITB clause 26, the purchaser will determine the substantial responsiveness of each bid to the bidding documents. A substantially responsive bid is one, which conforms to all the requirements and terms & conditions of the bidding documents, including the specification, and technical parameters of the goods as projected in the bidding document, without material deviations. Deviations form or objections or reservations to the bidding documents. Critical provisions, such as those concerning bid validity. Technical specification, performance security, warranty obligations, Force Majeure, taxes & duties and applicable law (governing the contract) will be deemed to be material deviations. Bids from an agent without proper authorization from the manufacturer as per ITB clause.

13.2(a), shall be treated as non-responsive.

The purchaser's determination of a bid's responsiveness is be based on the contents of the bid itself without recourse to extrinsic evidence.

The purchaser may waive any minor infirmity. Non-conformity or irregularity in a bid, which does not constitute a material deviation, provided such waiver does not prejudice or after the relative ranking of any bidder.

The conclusion drawn by the purchaser as to the substantial responsiveness or otherwise of a bid or consideration of a minor infirmity of non-conformity or irregularity in a bid is final.

If a bid is determined as not substantially responsive, it will be rejected by the purchaser and may not subsequently be made responsive by the bidder by correction of the non-conformity.

**25. Conversion to single currency**

25.1 TO facilitate evaluation and comparison of bids, the purchaser will convert all bid prices expressed in the amounts in various currencies in which the bid prices are payable, to Indian rupees at the BC selling market rate of exchange established by the State Bank of India for similar transactions as on the date of bid opening.

**26. Evaluation and comparison of bids**

26.1 The purchaser will evaluate and compare the bids, which have been determined to be substantially responsive, pursuant to ITB clause 24 for each schedule separately. The bid for a schedule will not be considered if the complete requirements covered in the schedule is not included in the bid. However, as stated in ITB clause 10, bidders are allowed the option to bid for any one or more schedule and to offer discounts for combined schedules. These discounts will be taken into account in the evaluation of the bids so as to determine the bid or combination of bids offering the lowest evaluated cost for the purchaser in deciding award (S) for each schedule.

26.2 The comparison shall be on CIP destination basis, duly delivered and commissioned (as the case may be) at the destination.

26.3 The purchaser's evaluation of a bid will include and take into account, in addition to bid price and price of the incidental services.

- a) In the case of goods manufactured in India or goods of foreign origin already located in India, sales tax & other similar taxes and excise duty & other similar duties, which will be payable on the goods if awarded to the bidder; and
- b) In the case of goods of foreign origin offered from abroad, customs duties and other similar import duties/taxes, which will be payable on the goods if the contract is awarded to the bidder.

26.4 The purchaser's evaluation of bid will also take into account the following factors in the manner and to the extent specified in Schedule of Requirements and amplified in ITB clause bidder.

- a) Cost of inland transportation, insurance and other costs within India incidental to delivery of the goods to their final destination as stipulated in the Schedule of Requirements.
- b) Delivery schedule offered in the bid.
- c) The cost of components, spare parts and service.
- d) The availability of spare parts and after sale services in India for the goods offered in the bid.
- e) The projected operating and maintenance cost during the life of the equipment.
- f) Specific additional criteria.

**26.5 Pursuant to clause 26.4, following evaluation methods will be followed:**

- a) Inland transportation, insurance and incidentals:  
Bidder shall quote separately for inland transportation, insurance and other incidentals for delivery of goods to the required destination as already indicated in the Schedule of Requirements. These cost, incurred in India, shall be quoted in Indian currency. Such costs will be added by the purchaser to the EXW/CIF/CIP bid price.

b) Delivery schedule:

The purchaser requires that the goods mentioned in the 'Schedule of Requirements' shall be delivered at the destination within the time schedule specified therein. As and if necessary. The estimated time of arrival of goods from ex-works/port of entry to the destination will be calculated by the purchaser for each bid after allowing for reasonable transportation time based on the published tariff of Railways, appropriate Road Transport Agencies etc. Bids offering deliveries (as worked out on above lines), which are later than the specified delivery but within the allowable range (as specified in the Schedule of Requirements) will be adjusted during the evaluation by adding a factor equal to the percentage specified in the Schedule of Requirements to the EXW/CIF/CIP price per week of variation from the specified delivery schedule.

c) **Cost of components and spare parts:**

I) The list of items and quantities of major assemblies, components and selected spare parts, likely to be required during the initial period of operation as specified in the Schedule of Requirements, is annexed to the Technical Specification. The total cost of these items, at the unit prices quoted in each bid, will be added to the bid price.

Or

II) The purchaser will draw up a list of high usage and high value items of components and spare parts, along with the estimated quantities of usage in the initial period of operation as indicated in the Schedule of Requirements. The total cost of these items and quantities will be computed from the corresponding unit prices quoted by the bidder and added to the bid price.

Or

III) The purchaser will estimate the cost of spare parts usage in the initial period of operation specified in the Schedule of Requirements, based on the information furnished by each bidder, as well as on the past experience of the purchaser or other purchasers in similar situations. Such costs shall be added in the bid price for evaluation.

d) Availability of spare parts and after sales services facilities in India:

The cost to the purchaser of establishing the required services facilities and parts inventories, as cut lined in the Schedule of Requirements or elsewhere in the bidding documents, if quoted separately, shall be added to the bid price.

e) The projected operating and maintenance cost during the life of the equipment:

These costs, which form a major portion of the life cycle cost of the equipment, will be evaluated in accordance with the criteria specified in the Schedule of Requirements and/or in the Technical Specifications.

f) Specific additional criteria:

Other specific additional criteria to be considered in the bid evaluation and the corresponding evaluation methods shall be incorporated in the Schedule of Requirements and /or in the Technical Specifications.

**27. Bidder's capability to perform the contract**

27.1 The purchaser will determine to its satisfaction whether the bidder, which is selected as having submitted the lowest evaluated responsive bid, is qualified and prima facie capable to perform the contract satisfactorily.

- 27.2 The determination will take into account the bidder's financial technical, and production capabilities for fulfilling all the requirements of the purchaser as specified in the bidding documents. This exercise will be based upon the examination of the documentary evidence of the bidder's qualifications submitted by the bidder. Pursuant to ITB clauses 2 and 13, as well as such other allied information as the purchaser deems necessary and appropriate.
- 27.3 An affirmative determination will be a prerequisite for award of the contract to the bidder. A negative determination will result in rejection of the bidder's bid, in which event the purchaser will proceed to the next lowest evaluated bid to make a similar determination of the bidder's capabilities to perform satisfactorily.

**28. Purchaser's right to vary quantities at the time of award**

- 28.1 The purchaser reserves the right at the time of awarding the contract to increase or decrease by up to 25%, the quantity of goods and services specified in the schedule or requirements without any change in the unit price or other terms and conditions.

**29. Contacting the purchase**

- 29.1 From the time of the bid opening to the time of awarding the contract, if a bidder wishes to contact the purchaser on any matter related to the bid, it should do so in writing.
- 29.2 Any effort by a bidder to influence the purchaser, in the purchaser's decision on bid evaluation, bid comparison or contract award shall result in the rejection of the bidder's bid, beside other suitable administrative actions against the bidder, as deemed fit by the purchaser.

**F. AWARD OF CONTRACT**

**30. Award criteria**

- 30.1 subject to ITB clause 28, the purchaser will award the contract to the successful bidder whose bid has been determined as the lowest evaluated bid, provided further that the bidder is determiner to be qualified and prima facie capable to perform the contract satisfactorily.

**31. Purchaser's right to accept any bid and to reject any or all bids.**

- 31.1 The purchaser reserves the right to accept or reject any bid and to annul the bidding process and reject all bids at any time prior to the award to contract, without thereby incurring any liability, whatsoever, to the affected bidder or bidders.

**32. Notification of award**

- 32.1 Before the expiry of the period of bid validity, the purchaser will notify the successful bidder in writing, by registered letter or by cable//faxtelegram/telex/ to be confirmed in writing by registered letter, that its bid has been accepted. The schedule (s) of requirement and the corresponding quantity of the item(s) ordered, which have been accepted, will interlaid, be mentioned in the notification.
- 32.2 The notification of award will constitute the formation of the contract.

32.3 Upon the successful bidder's furnishing the performance security, pursuant to ITB clause 34, the purchaser will promptly notify each unsuccessful bidder and will discharge its bid security, pursuant to ITB clause 15.

33. **Signing of contract**

33.1 At the same time as purchaser notifies the successful bidder that its bid has been accepted, the purchaser will send to the bidder by registered post or speed post, the contract form provided in the bidding documents, incorporating all agreements between the parties.

33.2 Within twenty-one (21) days issue of the contract form by the purchaser, the successful bidder shall sign and date the contract and return it to the purchaser by registered post or speed post.

34. **Performance security**

34.1 Within (21) twenty –one days issue of notification of award by the purchaser the successful bidder shall furnish the performance security in accordance with and as per the instructions incorporated in the general conditions of contract with regards performance security.

34.2 Failure of the successful bidder to comply with the requirement of clause 33 or clause 34 shall constitute sufficient grounds for annulment of the award and forfeiture of the bid security, in which event the purchaser may make the award to the next lowest evaluated bidder or call for new bids.

3. In consideration of the President of India (herewith called "the Government") having agreed to exempt \_\_\_\_\_ [hereinafter called "the said Contractor(s)"] from the demand, under the terms and conditions of an Agreement dated \_\_\_\_\_ made between \_\_\_\_\_ and \_\_\_\_\_ for \_\_\_\_\_ (hereinafter called "the said Agreement"), of security deposit for the due fulfillment by the said Contractor(s) of the terms and conditions contained in the said Agreement, on production of a bank Guarantee for Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only) We, \_\_\_\_\_ (hereinafter referred (indicate the name of the bank) to as "the Bank") at the request of \_\_\_\_\_ [ contractor(s) do hereby undertake to pay to the Government an amount not exceeding Rs. \_\_\_\_\_ against loss or damage caused to or suffered or would be caused to or suffered by the Government by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement.

4. We, \_\_\_\_\_ (indicate the name of the bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Government by reasons of breach by the said contractor(s) of any of the terms and conditions contained in the said Agreement. Any such demand made on the bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our

liability under this guarantee shall be restricted to an amount not exceeding Rs. \_\_\_\_\_.

5. We undertake to pay to the Government any money so demanded notwithstanding any dispute raised by the contractor(s)/supplier(s) in any suit or proceeding pending before any court or tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall be a valid discharge of our liability for payment thereunder and the contractor(s)/supplier(s) shall have no claim against us for making such payment.

6. We, \_\_\_\_\_ (indicate the name of bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be have been fully paid and its claims satisfied or discharged or till \_\_\_\_\_ Office/ Department/Ministry of \_\_\_\_\_ certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said contractor(s) and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the \_\_\_\_\_ we shall be discharged from all liability under this guarantee thereafter.

7. WE, \_\_\_\_\_ (indicate the name of bank) further agree with the Government shall have the fullest liberty with out our consent and without effecting in any manner our obligation hereunder to vary any of the terms & conditions of the said Agreement or to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said Contractor(s) and to for bear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act or omission on the part of the Government or any indulgence by the Government to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

8. This guarantee will not be discharged due to the change in the constitution of the bank or the Contractor(s)/Supplier(s).

9. WE, \_\_\_\_\_ (indicate the name of bank) lastly under not to revoke this guarantee during its currency except with the previous consent of the Government in writing.

10. Dated \_\_\_\_\_ the \_\_\_\_\_ day of \_\_\_\_\_ for \_\_\_\_\_ (indicate the name of the bank).

**Special Conditions of Work/Contract (SCC)**

1. Replacement of Exhaust Blowers and Motors has to be done on Turnkey basis and cost should be quoted clearly as a whole amount including Taxes etc. in Indian Currency.
2. Bid Security /Earnest money  
Bidder has to furnish **Bid Security/Earnest money @ 2% on the total Quoted Price** on FOR HSADL, Bhopal basis along with the bid in shape of Demand draft in favour of **ICAR Unit HSADL, IVRI, Bhopal**. After award of order, the successful bidder has to deposit 10 % performance security before starting the replacement work.
3. All Taxes (VAT, Services Tax etc.) will be paid only on reimbursement basis on production of original proof.
4. Comprehensive warranty 03 years from the final date of installation/Commissioning after handover the complete Replacement of Blower. Firms may also quote their rates for comprehensive warranty after warranty period.
5. Lowest rates for complete work/replacement will be preferred following the guidelines of Technical & other obligatory suitability in all respects.
6. The successful bidder will be awarded the Replacement work on deposition of performance security of 10% of the total value of the work by the firm on account payee DD/Fixed Deposit Receipt from any Nationalized Bank.
7. The performance security should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier agency including warranty obligations.
8. Bid Security will be refunded to the successful bidder on receipt of performance security.
9. The Tenders or respective shall have to be in regular touch with Adm. Officer or I/C Engineering/concerned Engineer for any suggestion/requirements.
10. In case the Tenders fails to do the replacement work on Turnkey basis as per agreed terms & conditions specified in tender documents. The penalty up to maximum of 10% contract value will be imposed apart from forfeiting EMD.
11. Bidders have to complete the Replacement work within 6 month from the date of issue of order. As the work is to be executed in phase manner, the payment will be released in 5 installments for the completed jobs only.
12. Bidders having experienced in installation, commissioning, running and maintenance of air handling system similar bio-safety level projects will be preferred.

**TENDER SPECIFICATIONS FOR REPLACEMENT  
OF EXHAUST BLOWERS AND MOTORS  
(Technical Specification)**

**FANS:**

**SCOPE:**

- 1) The scope of this section comprises of Dismantling of the SWSI Centrifugal fans complete with there dry package motor based frames etc and shifting the same at suitable location with in the premises at ground floor.
- 2) The supply , erection, testing and commissioning COMEFRI / KRUGER/ NIKOTRA make centrifugal in-line fans complete with drive set ,base frame ,volume control dampers ,vibration isolators, canvass connection with motors , preparation of foundations and connecting the same with existing ducting these fans should be single inlet single width .The scope also includes air balancing of the labs / animal houses to maintain the required negative pressure and air changes.
- 3) The fan capacity, static pressure of the existing fans are as per the annexure-1 enclosed. (11 sheet)

**NOTE**

1. Only electricity and water will be provided by HSADL .All other materials, tools and tackles and safety gadgets required are in the scope of the bidder.
- 2.The job to be carried out without disturbing the functioning of the lab/animal house i.e. only one fan to be replaced and commissioned at a time after that only permission for second fan will be granted.
3. The tender shall visit the site before quoting and understanding the functioning of the system as lab/animal houses are maintained under graded negative pressure 24 Hrs a day &365 /366 days in a year.
4. The new fans shall have 10% more capacity than the existing fans.
5. The motor and fans shall be suitable for operation for 24 Hrs a day &365 /366 days in a year .
- 6.Any up gradation of switch gear is needed in the existing MCC based of the new fans selection will be in the scope of bidder.
- 7.a) Rates shall be quoted for individual fan and blower unit with and without buyback.
- 7.b)Rates shall also be quoted for one number fan and motor of each type and size under the heading of spares.
- 8.Energy efficient and low noise level system will be given preference.

## **CENTRIFUGAL FANS.**

Centrifugal fans shall be SWSI class I/II construction arrangement 1 ( i.e. bearings on one side) complete with access door squirrel cage induction motor ,V-belt drive, belt guard and vibration isolators. Type of direction of discharge / rotation and motor position shall be as per the Approved for construction drawings.

**a).** Housing shall be constructed of 14 gauge sheet steel welded construction .It shall be rigidly reinforced and supported by structural angles .Split casing shall be provided in larger sizes of fans however neoprene / asbestos packing should be provided throughout split joints to make it air-tight..

18 gauge galvanized wire mesh inlet guards of 5 cm sleeves shall be provided on both inlets. Housing shall be provided with standard cleanout door with handles and neoprene gasket. Rotation arrow shall be clearly marked on the housing.

**b).** Fan wheel shall be backward curved non over loading type. Fan wheel and housing shall be statically and dynamically balanced. Fan outlet velocity shall not be exceed 550 meters per minute and maximum fan speed shall be ...\*.....rpm.

\* bidder to furnish

**c)** Shaft shall be of C45 carbon steel sized adequately and shall be accurately ground and polished to a close tolerance .It shall be coated with anti-corrosion varnish after assembly.

**d).** Bearings shall be of the sleeve / ball bearing type mounted directly on the fan housing .Bearings shall be designed especially for quiet operation and shall be of the self-aligning oil/grease pack pillow block type.

**e)** The impeller shall be provided with polyester powder coating finish.

**f)** Pulley shall be selected to provide the required speed. They shall be multi-groove type with section and grooves elected to transmit 33% more load than the required power and shall be statically balanced.

**g).** **Motor :** Fan motor shall be suitable for 415 +/- 10% volts 50 cycles 3 phase AC power supply squirrel cage totally enclosed fan cooled motor provided with class B insulation and of approved make .Motor name plate horsepower shall exceed brake horsepower by minimum of 10%. Motor shall be designed specially for quiet operation and motor speed shall not exceed 1440 rpm the fan and motor combination selected for the particular required performance shall be of the most efficient smallest horse power ,so that sound level is lowest. Class of protection IP55.

**h).** Drive to fan shall be provided through belt with adjustable motor sheave and a standard belt guard. Belts shall be of the oil resistant type.

**i).** Vibration Isolation: MS base shall be provided for both fan and motor built as integral part and shall be mounted on a concrete foundation through vibration isolators Dunlop Metalstik /Emerald make cushy foot mountings .The concrete foundation shall be at least 15cm above

the finished floor level and it should be designed in such a way that vibration level shall not be more than 56 decibel at the highest speed/ load.

Details of existing fans and motors

|          |                               |                 |  |
|----------|-------------------------------|-----------------|--|
| <b>1</b> | <b>EXUAST FAN /BLOWER -1L</b> |                 |  |
|          | <b>MODEL NO.282/1-315/S1</b>  |                 |  |
|          | <b>BLOWER MAKE</b>            | <b>GEC</b>      |  |
|          | <b>STATIC PRESSURE mm wg</b>  | <b>125</b>      |  |
|          | <b>FLOW cmh</b>               | <b>357</b>      |  |
|          | <b>IMP MM</b>                 | <b>315</b>      |  |
|          | <b>SPEED rpm</b>              | <b>1728</b>     |  |
|          | <b>FAN POWER BKW</b>          | <b>0.18</b>     |  |
|          | <b>MOTOR- BHARAT BIJLEE</b>   | <b>0.5 H.P.</b> |  |
|          | <b>SPEED rpm</b>              | <b>1405</b>     |  |
|          |                               |                 |  |
| <b>2</b> | <b>EXUAST FAN /BLOWER -1A</b> |                 |  |
|          | <b>MODEL NO.282/1-315/S1</b>  |                 |  |
|          | <b>BLOWER MAKE</b>            | <b>GEC</b>      |  |
|          | <b>STATIC PRESSURE mm wg</b>  | <b>125</b>      |  |
|          | <b>FLOW cmh</b>               | <b>357</b>      |  |
|          | <b>IMP MM</b>                 | <b>315</b>      |  |
|          | <b>SPEED rpm</b>              | <b>2468</b>     |  |
|          | <b>FAN POWER BKW</b>          | <b>0.18</b>     |  |
|          | <b>MOTOR- BHARAT BIJLEE</b>   | <b>0.5 H.P.</b> |  |
|          | <b>SPEED rpm</b>              | <b>1405</b>     |  |
|          |                               |                 |  |
| <b>3</b> | <b>EXUAST FAN /BLOWER -1B</b> |                 |  |
|          | <b>MODEL NO.282/1-315/S1</b>  |                 |  |
|          | <b>BLOWER MAKE</b>            | <b>GEC</b>      |  |
|          | <b>STATIC PRESSURE mm wg</b>  | <b>125</b>      |  |
|          | <b>FLOW cmh</b>               | <b>357</b>      |  |
|          | <b>IMP MM</b>                 | <b>315</b>      |  |
|          | <b>SPEED rpm</b>              | <b>2304</b>     |  |

|          |                                |                 |  |
|----------|--------------------------------|-----------------|--|
|          | <b>FAN POWER BKW</b>           | <b>0.18</b>     |  |
|          | <b>MOTOR- BHARAT BIJLEE</b>    | <b>1.5 H.P.</b> |  |
|          | <b>SPEED rpm</b>               | <b>1415</b>     |  |
| <b>4</b> | <b>EXUAST FAN /BLOWER -2 L</b> |                 |  |
|          | <b>MODEL NO.287/1-500/S1</b>   |                 |  |
|          | <b>BLOWER MAKE</b>             | <b>GEC</b>      |  |
|          | <b>STATIC PRESSURE mm wg</b>   | <b>125</b>      |  |
|          | <b>FLOW cmh</b>                | <b>3740</b>     |  |
|          | <b>IMP MM</b>                  | <b>500</b>      |  |
|          | <b>SPEED rpm</b>               | <b>1920</b>     |  |
|          | <b>FAN POWER BKW</b>           | <b>1.6</b>      |  |
|          | <b>MOTOR- BHARAT BIJLEE</b>    | <b>5</b>        |  |
|          | <b>SPEED rpm</b>               | <b>1430</b>     |  |
|          |                                |                 |  |
| <b>5</b> | <b>EXUAST FAN /BLOWER -2 R</b> |                 |  |
|          | <b>MODEL NO.287/1-500/S1</b>   |                 |  |
|          | <b>BLOWER MAKE</b>             | <b>GEC</b>      |  |
|          | <b>STATIC PRESSURE mm wg</b>   | <b>125</b>      |  |
|          | <b>FLOW cmh</b>                | <b>3740</b>     |  |
|          | <b>IMP MM</b>                  | <b>500</b>      |  |
|          | <b>SPEED rpm</b>               | <b>1920</b>     |  |
|          | <b>FAN POWER BKW</b>           | <b>1.6</b>      |  |
|          | <b>MOTOR- BHARAT BIJLEE</b>    | <b>5</b>        |  |
|          | <b>SPEED rpm</b>               | <b>1430</b>     |  |
|          |                                |                 |  |
| <b>6</b> | <b>EXUAST FAN /BLOWER -3 L</b> |                 |  |
|          | <b>MODEL NO.287/1-500/S1</b>   |                 |  |
|          | <b>BLOWER MAKE</b>             | <b>GEC</b>      |  |
|          | <b>STATIC PRESSURE mm wg</b>   | <b>125</b>      |  |
|          | <b>FLOW cmh</b>                | <b>1581</b>     |  |
|          | <b>IMP MM</b>                  | <b>315</b>      |  |
|          | <b>SPEED rpm</b>               | <b>3291</b>     |  |
|          | <b>FAN POWER BKW</b>           | <b>0.72</b>     |  |

|          |                                |             |  |
|----------|--------------------------------|-------------|--|
|          | <b>MOTOR- BHARAT BIJLEE</b>    | <b>2</b>    |  |
|          | <b>SPEED rpm</b>               | <b>1410</b> |  |
|          |                                |             |  |
| <b>7</b> | <b>EXUAST FAN /BLOWER -3 L</b> |             |  |
|          | <b>MODEL NO.287/1-500/S1</b>   |             |  |
|          | <b>BLOWER MAKE</b>             | <b>GEC</b>  |  |
|          | <b>STATIC PRESSURE mm wg</b>   | <b>125</b>  |  |
|          | <b>FLOW cmh</b>                | <b>1581</b> |  |
|          | <b>IMP MM</b>                  | <b>315</b>  |  |
|          | <b>SPEED rpm</b>               | <b>3291</b> |  |
|          | <b>FAN POWER BKW</b>           | <b>0.72</b> |  |
|          | <b>MOTOR- BHARAT BIJLEE</b>    | <b>2</b>    |  |
|          | <b>SPEED rpm</b>               | <b>1410</b> |  |
|          |                                |             |  |
| <b>8</b> | <b>EXUAST FAN /BLOWER - 4</b>  |             |  |
|          | <b>MODEL NO.284/1-355 S1</b>   |             |  |
|          | <b>BLOWER MAKE</b>             | <b>GEC</b>  |  |
|          | <b>STATIC PRESSURE mm wg</b>   | <b>125</b>  |  |
|          | <b>FLOW cmh</b>                | <b>1122</b> |  |
|          | <b>IMP MM</b>                  | <b>355</b>  |  |
|          | <b>SPEED rpm</b>               | <b>2304</b> |  |
|          | <b>FAN POWER BKW</b>           | <b>0.52</b> |  |
|          | <b>MOTOR- BHARAT BIJLEE</b>    | <b>2 HP</b> |  |
|          | <b>SPEED rpm</b>               | <b>1410</b> |  |
|          |                                |             |  |
| <b>9</b> | <b>EXUAST FAN /BLOWER - 5</b>  |             |  |
|          | <b>MODEL NO.284/1-355 S1</b>   |             |  |
|          | <b>BLOWER MAKE</b>             | <b>GEC</b>  |  |
|          | <b>STATIC PRESSURE mm wg</b>   | <b>125</b>  |  |
|          | <b>FLOW cmh</b>                | <b>1122</b> |  |
|          | <b>IMP MM</b>                  | <b>355</b>  |  |
|          | <b>SPEED rpm</b>               | <b>2880</b> |  |
|          | <b>FAN POWER BKW</b>           | <b>0.52</b> |  |

|           |                               |             |  |
|-----------|-------------------------------|-------------|--|
|           | <b>MOTOR- BHARAT BIJLEE</b>   | <b>2 HP</b> |  |
|           | <b>SPEED rpm</b>              | <b>1410</b> |  |
|           |                               |             |  |
| <b>10</b> | <b>EXUAST FAN /BLOWER - 6</b> |             |  |
|           | <b>MODEL NO.284/1-355 S1</b>  |             |  |
|           | <b>BLOWER MAKE</b>            | <b>GEC</b>  |  |
|           | <b>STATIC PRESSURE mm wg</b>  | <b>125</b>  |  |
|           | <b>FLOW cmh</b>               | <b>1122</b> |  |
|           | <b>IMP MM</b>                 | <b>355</b>  |  |
|           | <b>SPEED rpm</b>              | <b>3291</b> |  |
|           | <b>FAN POWER BKW</b>          | <b>0.52</b> |  |
|           | <b>MOTOR- BHARAT BIJLEE</b>   | <b>2 HP</b> |  |
|           | <b>SPEED rpm</b>              | <b>1410</b> |  |
|           |                               |             |  |
| <b>11</b> | <b>EXUAST FAN /BLOWER - 7</b> |             |  |
|           | <b>MODEL NO.284/1-355 S1</b>  |             |  |
|           | <b>BLOWER MAKE</b>            | <b>GEC</b>  |  |
|           | <b>STATIC PRESSURE mm wg</b>  | <b>125</b>  |  |
|           | <b>FLOW cmh</b>               | <b>1122</b> |  |
|           | <b>IMP MM</b>                 | <b>355</b>  |  |
|           | <b>SPEED rpm</b>              | <b>2880</b> |  |
|           | <b>FAN POWER BKW</b>          | <b>0.52</b> |  |
|           | <b>MOTOR- BHARAT BIJLEE</b>   | <b>2 HP</b> |  |
|           | <b>SPEED rpm</b>              | <b>1410</b> |  |
|           |                               |             |  |
| <b>12</b> | <b>EXUAST FAN /BLOWER - 8</b> |             |  |
|           | <b>MODEL NO.284/1-355 S1</b>  |             |  |
|           | <b>BLOWER MAKE</b>            | <b>GEC</b>  |  |
|           | <b>STATIC PRESSURE mm wg</b>  | <b>125</b>  |  |
|           | <b>FLOW cmh</b>               | <b>561</b>  |  |
|           | <b>IMP MM</b>                 | <b>315</b>  |  |
|           | <b>SPEED rpm</b>              | <b>2468</b> |  |
|           | <b>FAN POWER BKW</b>          | <b>0.27</b> |  |

|           |                                |               |  |
|-----------|--------------------------------|---------------|--|
|           | <b>MOTOR- BHARAT BIJLEE</b>    | <b>1.5 HP</b> |  |
|           | <b>SPEED rpm</b>               | <b>1415</b>   |  |
|           |                                |               |  |
| <b>13</b> | <b>EXUAST FAN /BLOWER - 9</b>  |               |  |
|           | <b>MODEL NO.284/1-315 S1</b>   |               |  |
|           | <b>BLOWER MAKE</b>             | <b>GEC</b>    |  |
|           | <b>STATIC PRESSURE mm wg</b>   | <b>125</b>    |  |
|           | <b>FLOW cmh</b>                | <b>561</b>    |  |
|           | <b>IMP MM</b>                  | <b>315</b>    |  |
|           | <b>SPEED rpm</b>               | <b>2468</b>   |  |
|           | <b>FAN POWER BKW</b>           | <b>0.27</b>   |  |
|           | <b>MOTOR- BHARAT BIJLEE</b>    | <b>1.5 HP</b> |  |
|           | <b>SPEED rpm</b>               | <b>1415</b>   |  |
|           |                                |               |  |
| <b>14</b> | <b>EXUAST FAN /BLOWER - 10</b> |               |  |
|           | <b>MODEL NO.284/1-315 S1</b>   |               |  |
|           | <b>BLOWER MAKE</b>             | <b>GEC</b>    |  |
|           | <b>STATIC PRESSURE mm wg</b>   | <b>125</b>    |  |
|           | <b>FLOW cmh</b>                | <b>561</b>    |  |
|           | <b>IMP MM</b>                  | <b>315</b>    |  |
|           | <b>SPEED rpm</b>               | <b>2160</b>   |  |
|           | <b>FAN POWER BKW</b>           | <b>0.27</b>   |  |
|           | <b>MOTOR- BHARAT BIJLEE</b>    | <b>1.5 HP</b> |  |
|           | <b>SPEED rpm</b>               | <b>1415</b>   |  |
|           |                                |               |  |
| <b>15</b> | <b>EXUAST FAN /BLOWER - 11</b> |               |  |
|           | <b>MODEL NO.284/1-355 S1</b>   |               |  |
|           | <b>BLOWER MAKE</b>             | <b>GEC</b>    |  |
|           | <b>STATIC PRESSURE mm wg</b>   | <b>125</b>    |  |
|           | <b>FLOW cmh</b>                | <b>1122</b>   |  |
|           | <b>IMP MM</b>                  | <b>355</b>    |  |
|           | <b>SPEED rpm</b>               | <b>2560</b>   |  |
|           | <b>FAN POWER BKW</b>           | <b>0.52</b>   |  |

|           |                                  |               |  |
|-----------|----------------------------------|---------------|--|
|           | <b>MOTOR- BHARAT BIJLEE</b>      | <b>3.0 HP</b> |  |
|           | <b>SPEED rpm</b>                 | <b>1430</b>   |  |
|           |                                  |               |  |
| <b>16</b> | <b>EXUAST FAN /BLOWER - 12</b>   |               |  |
|           | <b>MODEL NO.284/1-450 S1</b>     |               |  |
|           | <b>BLOWER MAKE</b>               | <b>GEC</b>    |  |
|           | <b>STATIC PRESSURE mm wg</b>     | <b>125</b>    |  |
|           | <b>FLOW cmh</b>                  | <b>3145</b>   |  |
|           | <b>IMP MM</b>                    | <b>450</b>    |  |
|           | <b>SPEED rpm</b>                 | <b>2304</b>   |  |
|           | <b>FAN POWER BKW</b>             | <b>1.4</b>    |  |
|           | <b>MOTOR- C&amp;G</b>            | <b>7.5 HP</b> |  |
|           | <b>SPEED rpm</b>                 | <b>1440</b>   |  |
|           |                                  |               |  |
| <b>17</b> | <b>EXUAST FAN /BLOWER - 13 L</b> |               |  |
|           | <b>MODEL NO.287/1-710 S1</b>     |               |  |
|           | <b>BLOWER MAKE</b>               | <b>GEC</b>    |  |
|           | <b>STATIC PRESSURE mm wg</b>     | <b>125</b>    |  |
|           | <b>FLOW cmh</b>                  | <b>7480</b>   |  |
|           | <b>IMP MM</b>                    | <b>710</b>    |  |
|           | <b>SPEED rpm</b>                 | <b>1280</b>   |  |
|           | <b>FAN POWER BKW</b>             | <b>3.35</b>   |  |
|           | <b>MOTOR- BHARAT BIJLEE</b>      | <b>7.5 HP</b> |  |
|           | <b>SPEED rpm</b>                 | <b>1445</b>   |  |
|           |                                  |               |  |
| <b>18</b> | <b>EXUAST FAN /BLOWER - 13 R</b> |               |  |
|           | <b>MODEL NO.287/1-710 S1</b>     |               |  |
|           | <b>BLOWER MAKE</b>               | <b>GEC</b>    |  |
|           | <b>STATIC PRESSURE mm wg</b>     | <b>125</b>    |  |
|           | <b>FLOW cmh</b>                  | <b>7480</b>   |  |
|           | <b>IMP MM</b>                    | <b>710</b>    |  |
|           | <b>SPEED rpm</b>                 | <b>1280</b>   |  |
|           | <b>FAN POWER BKW</b>             | <b>3.35</b>   |  |

|           |                                  |               |  |
|-----------|----------------------------------|---------------|--|
|           | <b>MOTOR- BHARAT BIJLEE</b>      | <b>7.5 HP</b> |  |
|           | <b>SPEED rpm</b>                 | <b>1445</b>   |  |
|           |                                  |               |  |
| <b>19</b> | <b>EXUAST FAN /BLOWER - 13 A</b> |               |  |
|           | <b>MODEL NO.287/1-355 S1</b>     |               |  |
|           | <b>BLOWER MAKE</b>               | <b>GEC</b>    |  |
|           | <b>STATIC PRESSURE mm wg</b>     | <b>125</b>    |  |
|           | <b>FLOW cmh</b>                  | <b>1377</b>   |  |
|           | <b>IMP MM</b>                    | <b>355</b>    |  |
|           | <b>SPEED rpm</b>                 | <b>2304</b>   |  |
|           | <b>FAN POWER BKW</b>             | <b>0.63</b>   |  |
|           | <b>MOTOR- BHARAT BIJLEE</b>      | <b>3.0 HP</b> |  |
|           | <b>SPEED rpm</b>                 | <b>1430</b>   |  |
|           |                                  |               |  |
| <b>20</b> | <b>EXUAST FAN /BLOWER - 14</b>   |               |  |
|           | <b>MODEL NO.287/1-500 S1</b>     |               |  |
|           | <b>BLOWER MAKE</b>               | <b>GEC</b>    |  |
|           | <b>STATIC PRESSURE mm wg</b>     | <b>125</b>    |  |
|           | <b>FLOW cmh</b>                  | <b>4122</b>   |  |
|           | <b>IMP MM</b>                    | <b>500</b>    |  |
|           | <b>SPEED rpm</b>                 | <b>1645</b>   |  |
|           | <b>FAN POWER BKW</b>             | <b>1.82</b>   |  |
|           | <b>MOTOR- BHARAT BIJLEE</b>      | <b>3.0 HP</b> |  |
|           | <b>SPEED rpm</b>                 | <b>1430</b>   |  |
|           |                                  |               |  |
| <b>21</b> | <b>EXUAST FAN /BLOWER - 15</b>   |               |  |
|           | <b>MODEL NO.287/1-630 S1</b>     |               |  |
|           | <b>BLOWER MAKE</b>               | <b>GEC</b>    |  |
|           | <b>STATIC PRESSURE mm wg</b>     | <b>125</b>    |  |
|           | <b>FLOW cmh</b>                  | <b>6443</b>   |  |
|           | <b>IMP MM</b>                    | <b>630</b>    |  |
|           | <b>SPEED rpm</b>                 | <b>1440</b>   |  |
|           | <b>FAN POWER BKW</b>             | <b>2.88</b>   |  |

|           |                                  |               |  |
|-----------|----------------------------------|---------------|--|
|           | <b>MOTOR- BHARAT BIJLEE</b>      | <b>7.5 HP</b> |  |
|           | <b>SPEED rpm</b>                 | <b>1445</b>   |  |
|           |                                  |               |  |
| <b>22</b> | <b>EXUAST FAN /BLOWER - 15A</b>  |               |  |
|           | <b>MODEL NO.287/1-560 S1</b>     |               |  |
|           | <b>BLOWER MAKE</b>               | <b>GEC</b>    |  |
|           | <b>STATIC PRESSURE mm wg</b>     | <b>125</b>    |  |
|           | <b>FLOW cmh</b>                  | <b>4581</b>   |  |
|           | <b>IMP MM</b>                    |               |  |
|           | <b>SPEED rpm</b>                 | <b>1440</b>   |  |
|           | <b>FAN POWER BKW</b>             | <b>2.1</b>    |  |
|           | <b>MOTOR- BHARAT BIJLEE</b>      | <b>3 HP</b>   |  |
|           | <b>SPEED rpm</b>                 | <b>1430</b>   |  |
|           |                                  |               |  |
| <b>23</b> | <b>EXUAST FAN /BLOWER - 16 L</b> |               |  |
|           | <b>MODEL NO.287/1-800 S1</b>     |               |  |
|           | <b>BLOWER MAKE</b>               | <b>GEC</b>    |  |
|           | <b>STATIC PRESSURE mm wg</b>     | <b>125</b>    |  |
|           | <b>FLOW cmh</b>                  | <b>10574</b>  |  |
|           | <b>IMP MM</b>                    | <b>800</b>    |  |
|           | <b>SPEED rpm</b>                 | <b>1280</b>   |  |
|           | <b>FAN POWER BKW</b>             | <b>4.75</b>   |  |
|           | <b>MOTOR- BHARAT BIJLEE</b>      | <b>10 HP</b>  |  |
|           | <b>SPEED rpm</b>                 | <b>1440</b>   |  |
|           |                                  |               |  |
| <b>24</b> | <b>EXUAST FAN /BLOWER - 16 R</b> |               |  |
|           | <b>MODEL NO.287/1-800 S1</b>     |               |  |
|           | <b>BLOWER MAKE</b>               | <b>GEC</b>    |  |
|           | <b>STATIC PRESSURE mm wg</b>     | <b>125</b>    |  |
|           | <b>FLOW cmh</b>                  | <b>10574</b>  |  |
|           | <b>IMP MM</b>                    | <b>800</b>    |  |
|           | <b>SPEED rpm</b>                 | <b>1280</b>   |  |
|           | <b>FAN POWER BKW</b>             | <b>4.75</b>   |  |

|           |                                  |              |  |
|-----------|----------------------------------|--------------|--|
|           | <b>MOTOR- BHARAT BIJLEE</b>      | <b>10 HP</b> |  |
|           | <b>SPEED rpm</b>                 | <b>1440</b>  |  |
|           |                                  |              |  |
| <b>25</b> | <b>EXUAST FAN /BLOWER - 16 A</b> |              |  |
|           | <b>MODEL NO.285/1-355 S1</b>     |              |  |
|           | <b>BLOWER MAKE</b>               | <b>GEC</b>   |  |
|           | <b>STATIC PRESSURE mm wg</b>     | <b>125</b>   |  |
|           | <b>FLOW cmh</b>                  | <b>1198</b>  |  |
|           | <b>IMP MM</b>                    | <b>355</b>   |  |
|           | <b>SPEED rpm</b>                 | <b>2304</b>  |  |
|           | <b>FAN POWER BKW</b>             | <b>0.55</b>  |  |
|           | <b>MOTOR- BHARAT BIJLEE</b>      | <b>2 HP</b>  |  |
|           | <b>SPEED rpm</b>                 | <b>1415</b>  |  |
|           |                                  |              |  |
| <b>26</b> | <b>EXUAST FAN /BLOWER - 17</b>   |              |  |
|           | <b>MODEL NO.287/1-710 S1</b>     |              |  |
|           | <b>BLOWER MAKE</b>               | <b>GEC</b>   |  |
|           | <b>STATIC PRESSURE mm wg</b>     | <b>125</b>   |  |
|           | <b>FLOW cmh</b>                  | <b>7905</b>  |  |
|           | <b>IMP MM</b>                    | <b>710</b>   |  |
|           | <b>SPEED rpm</b>                 | <b>1440</b>  |  |
|           | <b>FAN POWER BKW</b>             | <b>3.55</b>  |  |
|           | <b>MOTOR- BHARAT BIJLEE</b>      | <b>7.5</b>   |  |
|           | <b>SPEED rpm</b>                 | <b>1445</b>  |  |
|           |                                  |              |  |
| <b>27</b> | <b>EXUAST FAN /BLOWER - 17 A</b> |              |  |
|           | <b>MODEL NO.287/1-560 S1</b>     |              |  |
|           | <b>BLOWER MAKE</b>               | <b>GEC</b>   |  |
|           | <b>STATIC PRESSURE mm wg</b>     | <b>125</b>   |  |
|           | <b>FLOW cmh</b>                  | <b>5140</b>  |  |
|           | <b>IMP MM</b>                    | <b>560</b>   |  |
|           | <b>SPEED rpm</b>                 | <b>1645</b>  |  |
|           | <b>FAN POWER BKW</b>             | <b>2.25</b>  |  |

|           |                                  |             |  |
|-----------|----------------------------------|-------------|--|
|           | <b>MOTOR- BHARAT BIJLEE</b>      | <b>5 HP</b> |  |
|           | <b>SPEED rpm</b>                 | <b>1430</b> |  |
|           |                                  |             |  |
| <b>28</b> | <b>EXUAST FAN /BLOWER - 18 L</b> |             |  |
|           | <b>MODEL NO.287/1-500 S1</b>     |             |  |
|           | <b>BLOWER MAKE</b>               | <b>GEC</b>  |  |
|           | <b>STATIC PRESSURE mm wg</b>     | <b>112</b>  |  |
|           | <b>FLOW cmh</b>                  | <b>3884</b> |  |
|           | <b>IMP MM</b>                    | <b>500</b>  |  |
|           | <b>SPEED rpm</b>                 | <b>1440</b> |  |
|           | <b>FAN POWER BKW</b>             | <b>1.82</b> |  |
|           | <b>MOTOR- BHARAT BIJLEE</b>      | <b>3 HP</b> |  |
|           | <b>SPEED rpm</b>                 | <b>1430</b> |  |
|           |                                  |             |  |
| <b>29</b> | <b>EXUAST FAN /BLOWER - 18 R</b> |             |  |
|           | <b>MODEL NO.287/1-500 S1</b>     |             |  |
|           | <b>BLOWER MAKE</b>               | <b>GEC</b>  |  |
|           | <b>STATIC PRESSURE mm wg</b>     | <b>112</b>  |  |
|           | <b>FLOW cmh</b>                  | <b>3884</b> |  |
|           | <b>IMP MM</b>                    | <b>500</b>  |  |
|           | <b>SPEED rpm</b>                 | <b>1440</b> |  |
|           | <b>FAN POWER BKW</b>             | <b>1.53</b> |  |
|           | <b>MOTOR- BHARAT BIJLEE</b>      | <b>3 HP</b> |  |
|           | <b>SPEED rpm</b>                 | <b>1430</b> |  |
|           |                                  |             |  |
| <b>30</b> | <b>EXUAST FAN /BLOWER - 19 R</b> |             |  |
|           | <b>MODEL NO.280/1-355 S1</b>     |             |  |
|           | <b>BLOWER MAKE</b>               | <b>GEC</b>  |  |
|           | <b>STATIC PRESSURE mm wg</b>     | <b>250</b>  |  |
|           | <b>FLOW cmh</b>                  | <b>357</b>  |  |
|           | <b>IMP MM</b>                    | <b>355</b>  |  |
|           | <b>SPEED rpm</b>                 | <b>3290</b> |  |
|           | <b>FAN POWER BKW</b>             | <b>1.53</b> |  |

