

# **GLOBAL e- TENDER ENQUIRY DOCUMENT**

FOR PURCHASE OF COLD CHAIN ITEMS

UNDER UNIVERSAL IMMUNISATION PROGRAMME

**FOR**

**GOVT. OF INDIA**

**MINISTRY OF HEALTH & FAMILY WELFARE**

## **HLL/PCD/IMMU-09/15-16**



by

**HLL LIFECARE LIMITED**

(A Govt. of India Enterprise)

**Procurement & Consultancy Services Division**

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## SECTION I

## NOTICE INVITING e-TENDERS (NIT)

Tender Enquiry No.: HLL/PCD/IMMU-09/15-16

Date:15.01.2016

|                            |   |
|----------------------------|---|
| <b>Country</b>             | India   |
| <b>Name of the project</b> | Universal Immunization Programme (UIP)  |
| <b>Name of the Work</b>    | Voltage Stabilizers, Stem Thermometer, Ice Lined Refrigerator, Deep Freezer, Walk-in-Cooler, Walk-in-Freezer, Refrigerated Truck and Freeze Marker. |

(1) Procurement & Consultancy Services Division of HLL Lifecare Limited, for and on behalf of Govt. of India, Ministry of Health & Family Welfare, invites e-tenders, from eligible and qualified tenderers for supply of Cold Chain Equipment under Universal Immunization Programme:

| Sch. No | Event Number | Item Name                           | Consignee #  | Qty.  | EMD       |
|---------|--------------|-------------------------------------|--------------|-------|-----------|
| 1(a)    | 3000000782   | Low Voltage Stabilizer (100-280 V)* | GMSD Karnal  | 3596  | ₹ 215,760 |
| 1(b)    |              |                                     | GMSD Mumbai  | 3309  | ₹ 198,540 |
| 1(c)    |              |                                     | GMSD Chennai | 1704  | ₹ 102,240 |
| 1(d)    |              |                                     | GMSD Kolkata | 3960  | ₹ 237,600 |
| 2 (a)   | 3000000788   | Voltage Stabilizer (150-280 V)*     | GMSD Karnal  | 4362  | ₹ 261,720 |
| 2 (b)   |              |                                     | GMSD Mumbai  | 2740  | ₹ 164,400 |
| 2 (c)   |              |                                     | GMSD Chennai | 3370  | ₹ 202,200 |
| 2 (d)   |              |                                     | GMSD Kolkata | 1374  | ₹ 82,440  |
| 3 (a)   | 3000000792   | Stem Thermometer                    | GMSD Karnal  | 13531 | ₹ 31,933  |
| 3 (b)   |              |                                     | GMSD Mumbai  | 9985  | ₹ 23,565  |
| 3 (c)   |              |                                     | GMSD Chennai | 12073 | ₹ 28,492  |
| 3 (d)   |              |                                     | GMSD Kolkata | 8341  | ₹ 19,685  |
| 4 (a)   | 3000000804   | Ice Lined Refrigerator (Large)      | North Zone   | 921   | ₹ 663,120 |
| 4 (b)   |              |                                     | West Zone    | 676   | ₹ 486,720 |
| 4 (c)   |              |                                     | South Zone   | 410   | ₹ 295,200 |
| 4 (d)   |              |                                     | East Zone    | 819   | ₹ 589,680 |

HLL Lifecare Ltd.

| Sch. No | Event Number | Item Name                      | Consignee #                | Qty.  | EMD         |
|---------|--------------|--------------------------------|----------------------------|-------|-------------|
| 5 (a)   | 3000000808   | Ice Lined Refrigerator (small) | North Zone                 | 2160  | ₹ 1,296,000 |
| 5 (b)   |              |                                | West Zone                  | 2523  | ₹ 1,513,800 |
| 5 (c)   |              |                                | South Zone                 | 4390  | ₹ 2,634,000 |
| 5(d)    |              |                                | East Zone                  | 2048  | ₹ 1,228,800 |
| 6 (a)   | 3000000812   | Deep Freezer (Large)           | North Zone                 | 213   | ₹ 127,800   |
| 6 (b)   |              |                                | South Zone                 | 91    | ₹ 54,600    |
| 6 (c)   |              |                                | East Zone                  | 200   | ₹ 120,000   |
| 7 (a)   | 3000000815   | Deep Freezer (Small)           | North Zone                 | 2017  | ₹ 927,820   |
| 7 (b)   |              |                                | West Zone                  | 2396  | ₹ 1,102,160 |
| 7 (c)   |              |                                | South Zone                 | 4415  | ₹ 2,030,900 |
| 7(d)    |              |                                | East Zone                  | 1794  | ₹ 825,240   |
| 8       | 3000000819   | Walk-in-Cooler 40 Cum          | As per List of Requirement | 5     | ₹ 130,000   |
| 9       | 3000000820   | Walk-in-Freezer 20 cum         | As per List of Requirement | 10    | ₹ 240,000   |
| 10      | 3000000821   | Refrigerated Truck (Large)     | As per List of Requirement | 17    | ₹ 1,020,000 |
| 11      | 3000000822   | Freeze Marker                  | As per List of Requirement | 30000 | ₹ 240,000   |

# Consignee details are given in Section XXI (Consignee list)

\* Note: For item Sl No.1 & 2 i.e. Voltage stabilizers, only manufacturers are allowed to participate.

2. **Tender No.:** HLL/PCD/IMMU-09/2015-16

| Sl. No. | Description   | Schedule   |
|---------|---|--|
| A       | Cost of the Tender Enquiry Document   | Rs. 5000/- ( Rs. Five Thousands Only)  |
| B       | Pre-Tender meeting Date & Time  | <b>28.01.2016</b> , 11.00 hrs IST ,<br>HLL Lifecare Limited, , Procurement & Consultancy<br>Services Division, B-14 A, Sector-62, Noida-201307 |
| C       | Closing date & time for submission of online Tenders  | <b>23.02.2016</b> , 17.00 hrs IST  |
| D       | Closing date & time for submission of <b>Tender fee , EMD/Exemption Certificate and Documents in physical form</b>    | <b>24.02.2016</b> , 13.00 hrs IST  |
| E       | Time and date of opening of online Tenders  | <b>24.02.2016</b> , 14.30 hrs IST  |
| F       | Venue for :-<br>• Pre-bid Meeting<br>• Submission of Tender fee, EMD and physical forms, if any<br>• E-Tender Opening | HLL Lifecare Limited, Procurement & Consultancy<br>Services Division, B-14 A, Sector-62, Noida-201307  |

**SPECIFIC Instructions for e-Tender Participation:-**

3. Tenderer should have valid Class 3 Digital Signature Certificate with Encryption Key.
4. Tenderers are requested to read the Bidder help document on e-tender web site link before proceeding for Tendering.
5. The Prospective Tenderers have to register in the E-procurement Portal of HLL at <https://etender.lifecarehll.com/irj/portal>. The video tutorials on the process to be followed for **New Bidder Registration** and **Certificate Export** are available under Bidder Help Documents. On completion of the registration process, the Tenderer will be provided with user ID and password within 7 working days (excepting non-working days). In order to submit the Tenders electronically Tenderer are required to have a valid Class 3 Digital Signature Certificate (signing and encryption/decryption keys).
6. Post receipt of User ID & Password, Tenderer can log on for downloading & uploading tender document.
7. **The tenderers shall submit tender fee and EMD in physical form at the scheduled time and venue.**
8. Tenderer may download the tender enquiry documents from the web site [www.lifecarehll.com](http://www.lifecarehll.com) or [www.eprocure.gov.in/cppp](http://www.eprocure.gov.in/cppp) or <https://etender.lifecarehll.com/irj/portal>.
9. The submission of online tender can only be done through <https://etender.lifecarehll.com/irj/portal>
10. All prospective tenderers may attend the Pre Tender meeting. The venue, date and time indicated above.
11. Tenderers shall ensure that their tenders complete in all respects, are submitted **online through HLL's e-portal (as described above) ONLY. No DEVIATION is acceptable.**

**IMPORTANT NOTE**

**Tender fee( Rs.5,000/-) and EMD ( As applicable) in the name of HLL Lifecare Ltd. payable in New Delhi or Exemption certificate (as per GIT clause 19.2) should be deposited in the Tender Box located at **HLL Lifecare Limited, Procurement and Consultancy Division, B-14 A, Sector-62, Noida-201307, Uttar Pradesh** on or before **24.02.2016, 13.00 hrs IST. Submission beyond stipulated date & time would result in REJECTION of TENDER.****

**SVP (GB)**

**SECTION - II****GENERAL INSTRUCTIONS TO TENDERER (GIT)****CONTENTS**

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**A. PREAMBLE**

**1. Definitions and Abbreviations**

1.1 The following definitions and abbreviations, which have been used in these documents shall have the meanings as indicated below:

1.2. Definitions:

- i) "Purchaser" means the organization purchasing goods and services as incorporated in the Tender Enquiry document.
- ii) "**e-Tender**" means Tenders / Quotation / Tender received from a Firm / Tenderer / Tenderer online.
- iii) "**Tenderer**" means Tenderer/ the Individual or Firm submitting Tenders / Quotation / e-Tenders.
- iv) "Supplier" means the individual or the firm supplying the goods and services as incorporated in the contract.
- v) "Goods" means the articles, material, commodities, livestock, furniture, fixtures, raw material, spares, instruments, machinery, equipment, medical equipment, industrial plant etc. which the supplier is required to supply to the purchaser under the contract.
- vi) "Services" means services allied and incidental to the supply of goods, such as transportation, installation, commissioning, provision of technical assistance, training, after sales service, maintenance service and other such obligations of the supplier covered under the contract.
- vii) "Earnest Money Deposit" (EMD) means Tender Security/ monetary or financial guarantee to be furnished by a Tenderer along with its tender.
- viii) "Contract" means the written agreement entered into between the purchaser and/or consignee and the supplier, together with all the documents mentioned therein and including all attachments, annexure etc. therein.
- ix) "Performance Security" means monetary or financial guarantee to be furnished by the successful Tenderer for due performance of the contract placed on it. Performance Security is also known as Security Deposit.
- x) "Consignee" means the Government Medical Store Depot (GMSD) Hospital/Institute/Medical College/ person to whom the goods are required to be delivered as specified in the Contract. If the goods are required to be delivered to a person as an interim consignee for the purpose of despatch to another person as provided in the Contract then that "another" person is the consignee, also known as ultimate consignee.
- xi) "Specification" means the document/standard that prescribes the requirement with which goods or service has to conform.
- xii) "Inspection" means activities such as measuring, examining, testing, gauging one or more characteristics of the product or service and comparing the same with the specified requirement to determine conformity.
- xiii) "Day" means calendar day.

1.3 Abbreviations:

- (i) "TE Document" means Tender Enquiry Document
- (ii) "NIT" means Notice Inviting Tenders.
- (iii) "GIT" means General Instructions to Tenderer
- (iv) "SIT" means Special Instructions to Tenderer
- (v) "GCC" means General Conditions of Contract
- (vi) "SCC" means Special Conditions of Contract
- (vii) "NSIC" means National Small Industries Corporation
- (viii) "PSU" means Public Sector Undertaking



- (ix) "CPSU" means Central Public Sector Undertaking
- (x) "LSI" means Large Scale Industry
- (xi) "SSI" means Small Scale Industry
- (xii) "LC" means Letter of Credit
- (xiii) "DP" means Delivery Period
- (xiv) "BG" means Bank Guarantee
- (xv) "ED" means Excise Duty
- (xvi) "CD" means Custom Duty
- (xvii) "VAT" means Value Added Tax
- (xviii) "CENVAT" means Central Value Added Tax
- (xix) "CST" means Central Sales Tax
- (xx) "RR" means Railway Receipt
- (xxi) "DDP" means Delivery Duty Paid named place of destination (consignee site)
- (xxii) "MOH&FW" means Ministry of Health & Family Welfare, Government of India
- (xxiii) "Dte. GHS" means Directorate General and Health Services, MOH&FW.
- (xxiv) "RT" means Re-Tender.
- (xxv) GMSD means Government Medical Store Depot.

## **2. Introduction**

- 2.1 The Purchaser has issued these TE documents for purchase of goods and related services as mentioned in Section – VI – "List of Requirements", which also indicates, *interalia*, the required delivery schedule, terms and place of delivery.
- 2.2 This section (Section II - "General Instruction Tenderer") provides the relevant information as well as instructions to assist the prospective Tenderer in preparation and submission of tenders. It also includes the mode and procedure to be adopted by the purchaser for receipt and opening as well as scrutiny and evaluation of tenders and subsequent placement of contract.
- 2.3 The Tenderer shall also read the Special Instructions to Tenderer (SIT) related to this purchase, as contained in Section III of these documents and follow the same accordingly. Whenever there is a conflict between the GIT and the SIT, the provisions contained in the SIT shall prevail over those in the GIT.
- 2.4 Before formulating the tender and submitting the same to the purchaser, the Tenderer should read and examine all the terms, conditions, instructions, checklist etc. contained in the TE documents. Failure to provide and/or comply with the required information, instructions etc. incorporated in these TE documents may result in rejection of its tender.

## **3. Availability of Funds**

Expenditure to be incurred for the proposed purchase will be met from the funds available with the purchaser/consignee.

## **4. Language of Tender**

- 4.1 The tender submitted by the Tenderer and all subsequent correspondence and documents relating to the tender exchanged between the Tenderer and the purchaser, shall be written in the English language, unless otherwise specified in the Tender Enquiry. However, the language of any printed literature furnished by the Tenderer in connection with its tender may be written in any other language provided the same is accompanied by an English translation and, for purposes of interpretation of the tender, the English translation shall prevail.
- 4.2 The tender submitted by the Tenderer and all subsequent correspondence and documents relating to the tender exchanged between the Tenderer and the purchaser, may also be written in the Hindi

language, provided that the same are accompanied by English translation, in which case, for purpose of interpretation of the tender etc, the English translations shall prevail.

**5. Eligible Tenderer**

This invitation for tenders is open to all suppliers who fulfil the eligibility criteria specified in these documents.

**6. Eligible Goods and Services**

All goods and related services to be supplied under the contract shall have their origin in India or any other country with which India has not banned trade relations. The term “origin” used in this clause means the place where the goods are mined, grown, produced, or manufactured or from where the related services are arranged and supplied.

**7. Tendering Expense**

The Tenderer shall bear all costs and expenditure incurred and/or to be incurred by it in connection with its tender including preparation, mailing and submission of its tender and for subsequent processing the same. The purchaser will, in no case be responsible or liable for any such cost, expenditure etc regardless of the conduct or outcome of the tendering process.

**B. e-TENDER ENQUIRY DOCUMENTS**

**8. Content of Tender Enquiry Documents**

8.1 In addition to Section I – “Notice inviting Tender” (NIT), the TE document include:

- Section II – General Instructions to Tenderer (GIT)
- Section III – Special Instructions to Tenderer (SIT)
- Section IV – General Conditions of Contract (GCC)
- Section V – Special Conditions of Contract (SCC)
- Section VI – List of Requirements
- Section VII – Technical Specifications
- Section VIII – Quality Control Requirements
- Section IX – Qualification Criteria
- Section X – Tender Form
- Section XI – Price Schedules
- Section XII – Questionnaire
- Section XIII – Bank Guarantee Form for EMD
- Section XIV – Manufacturer’s Authorisation Form
- Section XV – Bank Guarantee Form for Performance /CMC Security
- Section XVI – Contract Forms A & B
- Section XVII – Proforma of Consignee Receipt Certificate
- Section XVIII – Proforma of Final Acceptance Certificate by the consignee
- Section XIX – Instructions from Ministry of Shipping/ Surface Transport (Annexure 1 & 2)
- Section XX – Check List for the Tenderer
- Section XXI – Consignee List

8.2 The relevant details of the required goods and services, the terms, conditions and procedure for tendering, tender evaluation, placement of contract, the applicable contract terms and, also, the

standard formats to be used for this purpose are incorporated in the above-mentioned documents. The interested Tenderer are expected to examine all such details etc to proceed further.

**9. Amendments to TE documents**

- 9.1 At any time prior to the deadline for submission of tenders, the purchaser may, for any reason deemed fit by it, modify the TE documents by issuing suitable amendment(s) to it.
- 9.2 Such an amendment will be notified **only in the website(s) [www.lifecarehll.com](http://www.lifecarehll.com) or [www.eprocure.gov.in](http://www.eprocure.gov.in) or [etender.lifecarehll.com/irj/portal](http://etender.lifecarehll.com/irj/portal)** All prospective Tenderer are hereby instructed to visit the website regularly, so that additional documents if any required or any modifications in the tender documents can be done prior to the last date of submission of the Tenders.
- 9.3 In order to provide reasonable time to the prospective Tenderer to take necessary action in preparing their tenders as per the amendment, the purchaser may, at its discretion extend the deadline for the submission of tenders and other allied time frames, which are linked with that deadline.

**10. Clarification of TE documents**

A tenderer requiring any clarification or elucidation on any issue of the TE documents may take up the same with the purchaser in writing. The purchaser will respond in writing to such request provided the same is received by the purchaser not later than fifteen days (unless otherwise specified in the SIT) prior to the prescribed date of submission of tender.

**C. PREPARATION OF e-TENDERS**

**11. Documents Comprising the Tender**

The tender shall be submitted online and in physical form (except price bid) in three parts/covers as mentioned below:

- (i) Tender Fee, EMD (Physical form)
- (ii) Technical Bid (Both online and physical)
- (iii) Price Bid (Only online).

**DO NOT'S**

Tenderer are requested **NOT** to submit the hard copy of Financial Tender along with the physical form of tender. In case the hard copy of financial Tender is submitted in physical form, the tender is liable for rejection. Also, uploading of the price Tender in prequalification Tender or technical Tender will **RESULT IN REJECTION** of the tender.

**A) Technical Tender (Un priced Tender)**

All Technical details eg. Eligibility Criterias requested (as mentioned below) should be attached in ***C-Folder of e-tendering module***(Under ***Notes & Attachments*** of ***Rfx Information*** of ***Create Response*** window), failing which the tender stands invalid.

**Tenderer shall furnish the following information along with technical tender (in pdf format):**

- i) Earnest money furnished in accordance with GIT clause 19.1 alternatively, documentary evidence as per GIT clause 19.2 for claiming exemption from payment of earnest money.

- ii) Tender Form as per Section X (without indicating any prices).
- iii) Documentary evidence, as necessary in terms of clauses 5 and 17 establishing that the Tenderer is eligible to submit the tender and, also, qualified to perform the contract if its tender is accepted.
- iv) Tenderer/Agent who quotes for goods manufactured by other manufacturer shall furnish Manufacturer's Authorization Form. **While giving authorization to agent , to quote on their behalf, manufacturer has to give the reasons for not quoting directly against this tender.**
- v) Power of Attorney in favour of signatory of TE documents and signatory of Manufacturer's Authorisation Form.
- vi) Documents and relevant details to establish in accordance with GIT clause 18 that the goods and the allied services to be supplied by the Tenderer conform to the requirement of the TE documents.
- vii) Performance Statement as per section IX along with relevant copies of orders and end users' satisfaction certificate.
- viii) Price Schedule(s) as per Section XI filled up with all the details including Make, Model etc. of the goods offered with prices blank (without indicating any prices).
- ix) Certificate of Incorporation
- x) Checklist as per Section XX.

**B) Price Tender:**

1. Prices are to be quoted in the attached Price Tender format online on e-tender portal in pdf format. **While uploading Price Bid, Tenderer has to ensure that the FILE NAME of the attached document SHOULD BE SAME as that of provided format of Price Tender**
2. The price should be quoted for the accounting unit indicated in the e-tender document.

**The Tenderer shall not submit hard copy of financial Tender otherwise his tender shall be straightway rejected. Also, uploading the price Tender in prequalification Tender or technical Tender will result in rejection of the tender.**

**Note:**

**It is the responsibility of tenderer to go through the TE document to ensure furnishing all required documents in addition to above, if any. Any deviation would result in REJECTION of tender and would not be considered at a later stage at any cost by HLL.**

- 11.2 A person signing (manually or digitally) the tender form or any documents forming part of the contract on behalf of another shall be deemed to warrantee that he has authority to bind such other persons and if, on enquiry, it appears that the persons so signing had no authority to do so, the purchaser may, without prejudice to other civil and criminal remedies, cancel the contract and hold the signatory liable for all cost and damages.
- 11.2 The authorized signatory of the Tenderer must sign the tender duly stamped at appropriate places and initial all the remaining pages of the tender.
- 11.3 A tender, which does not fulfil any of the above requirements and/or gives evasive information/reply against any such requirement, shall be liable to be ignored and rejected.
- 11.4 Tender sent by fax/telex/cable/electronically shall be ignored.

## 12. Tender currencies

- 12.1 The Tenderer supplying indigenous goods or already imported goods shall quote only in Indian Rupees.
- 12.2 For imported goods if supplied directly from abroad, prices shall be quoted in any freely convertible currency say US Dollar, Euro, GBP or Yen. As regards price(s) for allied services, if any required with the goods, the same shall be quoted in Indian Rupees only if such services are to be performed/undertaken in India. Commission for Indian Agent, if any and if payable shall be indicated in the space provided for in the price schedule and will be payable in Indian Rupees only.
- 12.3 Tenders, where prices are quoted in any other way shall be treated as non -responsive and rejected.

## 13 Tender Prices

- 13.1 The Tenderer shall indicate on the Price Schedule provided under Section XI all the specified components of prices shown therein including the unit prices and total tender prices of the goods and services it proposes to supply against the requirement. All the columns shown in the price schedule should be filled up as required. If any column does not apply to a Tenderer, same should be clarified as "NA" by the Tenderer.
- 13.2 If there is more than one schedule in the List of Requirements, the Tenderer has the option to submit its quotation for any one or more schedules and, also, to offer special discount for combined schedules. However, while quoting for a schedule, the Tenderer shall quote for the complete requirement of goods and services as specified in that particular schedule.
- 13.3 The quoted prices for goods offered from within India and that for goods offered from abroad are to be indicated separately in the applicable Price Schedules attached under Section XI.
- 13.4 While filling up the columns of the Price Schedule, the following aspects should be noted for compliance:
- 13.4.1 For domestic goods or goods of foreign origin located within India, the prices in the corresponding price schedule shall be entered separately in the following manner:
- a) the price of the goods, quoted ex-factory/ ex-showroom/ ex-warehouse/ off-the-shelf, as applicable, including all taxes and duties like sales tax, CST VAT, CENVAT, Custom Duty, Excise Duty etc. already paid or payable on the components and raw material used in the manufacture or assembly of the goods quoted ex-factory etc. or on the previously imported goods of foreign origin quoted ex-showroom etc;
  - b) any sales or other taxes and any duties including excise duty, which will be payable on the goods in India if the contract is awarded;
  - c) charges towards Packing & Forwarding, Inland Transportation, Insurance (local transportation and storage) would be borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery, Loading/Unloading and other local costs incidental to delivery of the goods to their final destination as specified in the List of Requirements and Price Schedule;
  - d) the price of Incidental Services, as mentioned in List of Requirements and Price Schedule;
  - e) the prices as mentioned in List of Requirements, Technical Specification and Price Schedule; and
  - f) The price of annual CMC, as mentioned in List of Requirements, Technical Specification and Price Schedule.
- 13.4.2 For goods offered from abroad, the prices in the corresponding price schedule shall be entered separately in the following manner:
- a) The price of goods quoted FOB/FCA port of shipment, as indicated in the List of Requirements and Price Schedule;
  - b) **Deleted**
  - c) The price of goods quoted CIP (name port of destination) in India as indicated in the List of

Requirements, Price Schedule and Consignee List;

**d) Deleted**

- e) The charges for Insurance (local transportation and storage) would be extended and borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery. Other local costs and Incidental costs, as specified in the List of Requirements and Price Schedule;
- f) The charges for Incidental Services, as in the List of Requirements and Price Schedule;
- g) The prices of Turnkey (if any), as mentioned in List of Requirements, Technical Specification and Price Schedule; and
- h) The price of annual CMC, as mentioned in List of Requirements, Technical Specification and Price Schedule.

13.5 Additional information and instruction on Duties and Taxes:

13.5.1 If the Tenderer desires to ask for excise duty, sales tax/VAT, Service Tax, Works Contract Tax etc. to be paid extra, the same must be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such duties and taxes and no claim for the same will be entertained later.

13.5.2 Excise Duty:

- a) If reimbursement of excise duty is intended as extra over the quoted prices, the supplier must specifically say so also indicating the rate, quantum and nature of the duty applicable. In the absence of any such stipulation it will be presumed that the prices quoted are firm and final and no claim on account of excise duty will be entertained after the opening of tenders.
- b) If a Tenderer chooses to quote a price inclusive of excise duty and also desires to be reimbursed for variation, if any, in the excise duty during the time of supply, the Tenderer must clearly mention the same and also indicate the rate and quantum of excise duty included in its price. Failure to indicate all such details in clear terms may result in rejection of that tender.
- c) Subject to sub clauses 13.5.2 (a) & (b) above, any change in excise duty upward/downward as a result of any statutory variation in excise duty taking place within contract terms shall be allowed to the extent of actual quantum of excise duty paid by the supplier. In case of downward revision in excise duty, the actual quantum of reduction of excise duty shall be reimbursed to the purchaser by the supplier. All such adjustments shall include all reliefs, exemptions, rebates, concession etc. if any obtained by the supplier.

13.5.3 Sales Tax:

If a Tenderer asks for sales tax/ VAT, Service Tax and Works Contract Tax to be paid extra, the rate and nature of sales tax applicable should be shown separately. The sales tax / VAT, Service Tax and Works Contract Tax will be paid as per the rate at which it is liable to be assessed or has actually been assessed provided the transaction of sale is legally liable to sales tax / VAT, Service Tax and Works Contract Tax and is payable as per the terms of the contract. If any refund of Tax is received at a later date, the Supplier must return the amount forth-with to the purchaser.

13.5.4 Octroi Duty and Local Duties & Taxes:

Normally, goods to be supplied to government departments against government contracts are exempted from levy of town duty, Octroi duty, terminal tax and other levies of local bodies. However, on some occasions, the local bodies (like town body, municipal body etc.) as per their regulations allow such exemptions only on production of certificate to this effect from the concerned government department. Keeping this in view, the supplier shall ensure that the stores to be supplied

by the supplier against the contract placed by the purchaser are exempted from levy of any such duty or tax and, wherever necessary, obtain the exemption certificate from the purchaser.

However, if a local body still insists upon payment of such local duties and taxes, the same should be paid by the supplier to the local body to avoid delay in supplies and possible demurrage charges and obtain a receipt for the same. The supplier should forward the receipt obtained for such payment to the purchaser to enable the purchaser reimburse the supplier and take other necessary action in the matter.

**13.5.5 Customs Duty:**

The Purchaser will pay the Customs duty wherever applicable.

13.6 For transportation of imported goods offered from abroad, relevant instructions as incorporated under GCC Clause 10 shall be followed.

13.7 For insurance of goods to be supplied, relevant instructions as provided under GCC Clause 11 shall be followed.

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

13.9 The need for indication of all such price components by the Tenderer, as required in this clause (viz., GIT clause 13) is for the purpose of comparison of the tenders by the purchaser and will no way restrict the purchaser's right to award the contract on the selected Tenderer on any of the terms offered.

**14. Indian Agent**

14.1 If a foreign tenderer has engaged an agent in India in connection with its tender, the foreign tenderer, in addition to indicating Indian agent's commission, if any, in a manner described under GIT subclause 12.2 above, shall also furnish the following information:

- a) The complete name and address of the Indian Agent and its permanent income tax account number as allotted by the Indian Income Tax authority.
- b) The details of the services to be rendered by the agent for the subject requirement.
- c) Details of Service outlets in India, nearest to the consignee(s), to render services during Warranty and CMC period.

**15. Firm Price**

15.1 Unless otherwise specified in the SIT, prices quoted by the Tenderer shall remain firm and fixed during the currency of the contract and not subject to variation on any account.

15.2 However, as regards taxes and duties, if any, chargeable on the goods and payable, the conditions stipulated in GIT clause 13 will apply.

**16. Alternative Tenders**

16.1 Alternative Tenders are not permitted.

16.2 However the Tenderers can quote alternate models meeting the tender specifications of same manufacturer with single EMD.

16.3 If an agent submits Tender on behalf of the Principal/OEM, the same agent shall not submit a Tender on behalf of another Principal/OEM in the same tender for the same item/product. In a tender, either the Indian Agent on behalf of the Principal/OEM or Principal/OEM itself can Tender but both cannot Tender simultaneously for the same item/product in the same tender.

**17 Documents Establishing Tenderer's Eligibility and Qualifications**

- 17.1 Pursuant to GIT clause 11, the Tenderer shall furnish, as part of its tender, relevant details and documents establishing its eligibility to quote and its qualifications to perform the contract if its tender is accepted.
- 17.2 The documentary evidence needed to establish the Tenderer's qualifications shall fulfil the following requirements:
- a) In case the Tenderer offers to supply goods, which are manufactured by some other firm, the Tenderer has been duly authorised by the goods manufacturer to quote for and supply the goods to the purchaser. The Tenderer shall submit the manufacturer's authorization letter to this effect as per the standard form provided under Section XIV in this document.
  - b) The Tenderer has the required financial, technical and production capability necessary to perform the contract and, further, it meets the qualification criteria incorporated in the Section IX in these documents.
  - c) In case the Tenderer is not doing business in India, it is duly represented by an agent stationed in India fully equipped and able to carry out the required contractual functions and duties of the supplier including after sale service, maintenance & repair etc. of the goods in question, stocking of spare parts and fast moving components and other obligations, if any, specified in the conditions of contract and/or technical specifications.
  - d) In case the Tenderer is an Indian agent/authorized representative quoting on behalf of a foreign manufacturer for the **restricted item**, the Indian agent/authorized representative is already enlisted under the Compulsory Enlistment Scheme of Ministry of Finance, Govt. of India, operated through Directorate General of Supplies & Disposals (DGS&D), New Delhi.

**18. Documents establishing Good's Conformity to TE document.**

- 18.1 The Tenderer shall provide in its tender the required as well as the relevant documents like technical data, literature, drawings etc. to establish that the goods and services offered in the tender fully conform to the goods and services specified by the purchaser in the TE documents. For this purpose the Tenderer shall also provide a clause-by-clause commentary on the technical specifications and other technical details incorporated by the purchaser in the TE documents to establish technical responsiveness of the goods and services offered in its tender.
- 18.2 In case there is any variation and/or deviation between the goods & services prescribed by the purchaser and that offered by the Tenderer, the Tenderer shall list out the same in a chart form without ambiguity and provide the same along with its tender.
- 18.3 If a Tenderer furnishes wrong and/or misleading data, statement(s) etc. about technical acceptability of the goods and services offered by it, its tender will be liable to be ignored and rejected in addition to other remedies available to the purchaser in this regard.

**19. Earnest Money Deposit (EMD)**

- 19.1 Pursuant to GIT clauses 8.1 and 11.1(A)(i) the Tenderer shall furnish along with its tender, earnest money for amount as shown in Section I, Notice Inviting Tender (NIT),. The earnest money is required to protect the purchaser against the risk of the Tenderer's unwarranted conduct as amplified under sub-clause 19.7 below.
- 19.2 The Tenderer who are currently registered and, also, will continue to remain registered during the tender validity period with Directorate General of Supplies & Disposals or with National Small Industries Corporation, New Delhi for the specific goods as per tender enquiry specification shall be eligible for exemption from EMD. Vague stipulations in the Registration Certificate such as "to customers' specification" etc. will not be acceptable for exemption from furnishing of earnest



- money. In case the Tenderer falls in these categories, it should furnish copy of its valid registration details (with DGS&D or NSIC, as the case may be).
- 19.3 The earnest money shall be denominated in Indian Rupees or equivalent currencies as per GIT clause 12.2. The earnest money shall be furnished in one of the following forms:
- i) Account Payee Demand Draft
  - ii) Banker's cheque and
  - iii) Bank Guarantee
- 19.4 The demand draft or banker's cheque shall be drawn on any commercial bank in India or country of the Tenderer, in favour of the "HLL Lifecare Limited" payable at New Delhi. In case of bank guarantee, the same is to be provided from any commercial bank in India or country of the Tenderer as per the format specified under Section XIII in these documents.
- 19.5 The earnest money shall be valid for a period of forty-five (45) days beyond the validity period of the tender. As validity period of Tender as per Clause 20 of GIT is 120 days, the EMD shall be valid for 165 days from Techno – Commercial Tender opening date.
- 19.6 Unsuccessful Tenderer's earnest money will be returned to them without any interest, after expiry of the tender validity period, but not later than thirty days after conclusion of the resultant contract. Successful Tenderer's earnest money will be returned without any interest, after receipt of performance security from that Tenderer.
- 19.7 Earnest Money is required to protect the purchaser against the risk of the Tenderer's conduct, which would warrant the forfeiture of the EMD. Earnest money of a Tenderer will be forfeited, if the Tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender or if it comes to notice that the information/documents furnished in its tender is incorrect, false, misleading or forged without prejudice to other rights of the purchaser. The successful Tenderer's earnest money will be forfeited without prejudice to other rights of Purchaser if it fails to furnish the required performance security within the specified period.
- 19.8 In the case of Bank Guarantee furnished from banks outside India (ie. foreign Banks), it should be authenticated and countersigned by any nationalised bank or scheduled bank, but not cooperative banks in India by way of back-to-back counter guarantee.

## **20. Tender Validity**

- 20.1 If not mentioned otherwise in the SIT, the tenders shall remain valid for acceptance for a period of 120 days (One hundred and twenty days) after the date of tender opening prescribed in the TE document. Any tender valid for a shorter period shall be treated as unresponsive and rejected.
- 20.2 In exceptional cases, the Tenderer may be requested by the purchaser to extend the validity of their tenders up to a specified period. Such request(s) and responses thereto shall be conveyed by surface mail or by fax/ telex/cable followed by surface mail. The Tenderer, who agree to extend the tender validity, are to extend the same without any change or modification of their original tender and they are also to extend the validity period of the EMD accordingly. A Tenderer, however, may not agree to extend its tender validity without forfeiting its EMD.
- 20.3 In case the day up to which the tenders are to remain valid falls on/ subsequently declared a holiday or closed day for the purchaser, the tender validity shall automatically be extended up to the next working day.

## **21. Digital Signing of e-Tender**

- 21.1 The tenderers shall submit their tenders as per the instructions contained in GIT Clause 11. Tenders shall be uploaded with all relevant PDF format. The relevant tender documents should be uploaded by an authorised person having Class 3 B digital signature certificate.

## D. SUBMISSION OF TENDERS

### 22. Submission of Tenders

22.1 The tender shall be submitted online only.

- (i) Pre-qualification and Technical compliance as per following documents (**Online & Physical submissions of all the documents.**)
- a) Manufacturer's authorization in case Tender is submitted by an Indian agent (A declaration must be attached here in case directly quoted by a manufacturer or a document establishing the relation of the Indian office with the manufacturer in case quoted by Indian office of the manufacturer).
  - b) Tender Form as per section X.
  - c) Compliance of all terms and conditions of TED like- warranty, delivery period, delivery terms, payment terms etc.
  - d) Declaration regarding Fall Clause and Deregistration, debarment from any Govt. Dept/ Agencies
  - e) Copy of PAN.
  - f) Certificate of Incorporation/Declaration being a proprietary firm.
  - g) Abridged Annual report of last 03 years (Balance sheet and Profit & Loss Account) in pdf format.
  - h) Name, address and details of account with respect to Tenderer and/or beneficiary of L/C.
  - i) Quality Control Requirements as per Section VIII
  - j) Performance statement along with required PO copies and its corresponding end user's satisfactory performance certificate as per section IX.
  - k) Technical Tender along with clause-by-clause technical compliance statement for the quoted goods vis-à-vis the Technical specifications along with product catalogue and data sheet in the tender enquiry.

(ii) **PRICE TENDER (Only ONLINE Submission).**

22.2 The tenderers must ensure that they submit the on-line tenders not later than the closing time and date specified for submission of tenders. Along with Price Tender recent purchase order copies for the same model and technical configuration issued by institute of National importance / reputed central / state government hospitals should be uploaded in pdf form for price reasonability.

### 23. Late Tender

23.1 There is NO PROVISION of uploading late tender beyond stipulated date & time in the e-tendering system.

### 24. Alteration and Withdrawal of Tender

24.1 The tenderer, is permitted to change, edit or withdraw its Tender on or before the end date & time.

## E. TENDER OPENING

### 25. Opening of Tenders

25.1 The purchaser will open the e-tenders at the specified date and time and at the specified place as indicated in the NIT.

In case the specified date of tender opening falls on / is subsequently declared a holiday or closed day for the purchaser, the tenders will be opened at the appointed time and place on the next working day.

- 25.2 Authorized representatives of the tenderers, who have submitted tenders on time may attend the tender opening provided they bring with them letters of authority from the corresponding tenderers.

The tender opening official(s) will prepare a list of the representatives attending the tender opening. The list will contain the representatives' names & signatures and corresponding tenderers' names and addresses.

- 25.3 Two - Tender system as mentioned in Para 21.6 above will be as follows. The **Techno - Commercial Tenders** are to be opened in the first instance, at the prescribed time and date as indicated in NIT. These Tenders shall be scrutinized and evaluated by the competent committee/ authority with reference to parameters prescribed in the TE document. During the Techno - Commercial Tender opening, the tender opening official(s) will read the salient features of the tenders like brief description of the goods offered, delivery period, Earnest Money Deposit and any other special features of the tenders, as deemed fit by the tender opening official(s). Thereafter, in the second stage, the Price Tenders of only the Techno - Commercially acceptable offers (as decided in the first stage) shall be opened for further scrutiny and evaluation on a date notified after the evaluation of the Techno – Commercial tender. The prices, special discount if any of the goods offered etc., as deemed fit by tender opening official(s) will be read out.

## F. SCRUTINY AND EVALUATION OF TENDERS

### 26. Basic Principle

- 26.1 Tenders will be evaluated on the basis of the terms & conditions already incorporated in the TE document, based on which tenders have been received and the terms, conditions etc. mentioned by the Tenderer in their tenders. No new condition will be brought in while scrutinizing and evaluating the tenders.

### 27. Preliminary Scrutiny of Tenders

- 27.1 The Purchaser will examine the Tenders to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed stamped and whether the Tenders are generally in order.
- 27.2 The Purchaser's determination of a Tender's responsiveness is to be based on the contents of the tender itself without recourse to extrinsic evidence
- 27.3 Deleted
- 27.4 The tenders will be scrutinized to determine whether they are complete and meet the essential and important requirements, conditions etc. as prescribed in the TE document. The tenders, which do not meet the basic requirements, are liable to be treated as non – responsive and will be summarily ignored.
- 27.5 The following are some of the important aspects, for which a tender shall be declared non – responsive and will be summarily ignored;

- (i) **The Tenderer has submitted hard copy of financial Tender (only online submission price Tenders are allowed).**
- (ii) Tender is unsigned.
- (iii) Tender validity is shorter than the required period.
- (iv) Required EMD (Amount, validity etc.)/ exemption documents have not been provided.
- (v) Tenderer has quoted for goods manufactured by other manufacturer(s) without the required Manufacturer's Authorisation Form as per Section XIV.
- (vi) Tenderer has not agreed to give the required performance security of required amount in an acceptable form in terms of GCC clause 5, read with modification, if any, in Section - V – "Special Conditions of Contract", for due performance of the contract.
- (vii) Deleted
- (viii) Tenderer has not agreed to other essential condition(s) specially incorporated in the tender enquiry like terms of payment, liquidated damages clause, warranty clause, dispute resolution mechanism applicable law.
- (ix) Poor/ unsatisfactory past performance.
- (x) Tenderers who stand deregistered/banned/blacklisted by any Govt. Authorities.
- (xi) Tenderer is not eligible as per GIT Clauses 5.1 & 17.1.
- (xii) Tenderer has not quoted for the entire quantity as specified in the List of Requirements in the quoted schedule.
- (xiii) Tenderer has not agreed for the delivery terms and delivery schedule.

## **28. Minor Infirmary/Irregularity/Non-Conformity**

If during the preliminary examination, the purchaser find any minor informality and/or irregularity and/or non-conformity in a tender, the purchaser may waive the same provided it does not constitute any material deviation and financial impact and, also, does not prejudice or affect the ranking order of the Tenderer. Wherever necessary, the purchaser will convey its observation on such 'minor' issues to the Tenderer by registered/speed post etc. asking the Tenderer to respond by a specified date. If the Tenderer does not reply by the specified date or gives evasive reply without clarifying the point at issue in clear terms, that tender will be liable to be ignored.

## **29 Discrepancies in Prices**

- 29.1 If, in the price structure quoted by a Tenderer, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless the purchaser feels that the Tenderer has made a mistake in placing the decimal point in the unit price, in which case the total price as quoted shall prevail over the unit price and the unit price corrected accordingly.
- 29.2 If there is an error in a total price, which has been worked out through addition and/or subtraction of subtotals, the subtotals shall prevail and the total corrected; and
- 29.3 If there is a discrepancy between the amount expressed in words and figures, the amount in words shall prevail, subject to sub clause 29.1 and 29.2 above.
- 29.4 If, as per the judgement of the purchaser, there is any such arithmetical discrepancy in a tender, the same will be suitably conveyed to the Tenderer by registered / speed post. If the Tenderer does not agree to the observation of the purchaser, the tender is liable to be ignored.

## **30. Discrepancy between original and copies of Tender**

In case any discrepancy is observed between the text etc. of the original copy and that in the other copies of the same tender set, the text etc. of the original copy shall prevail. Here also, the purchaser

will convey its observation suitably to the Tenderer by register / speed post and, if the Tenderer does not accept the purchaser's observation, that tender will be liable to be ignored.

**31. Qualification Criteria**

Tenders of the Tenderer, who do not meet the required Qualification Criteria prescribed in Section IX, will be treated as non - responsive and will not be considered further.

**32. Conversion of tender currencies to Indian Rupees**

- 32.1 In case the TE document permits the tenderers to quote their prices in different currencies, all such quoted prices of the responsive tenderers will be converted to a single currency viz., Indian Rupees for the purpose of equitable comparison and evaluation, as per the exchange rates established by the Reserve Bank of India for similar transactions, as on the date of "Price Tender" opening.

**33. Schedule-wise Evaluation**

In case the List of Requirements contains more than one schedule, the responsive tenders will be evaluated and compared separately for each schedule. The tender for a schedule will not be considered if the complete requirements prescribed in that schedule are not included in the tender. However, as already mentioned in GIT sub clause 13.2, the Tenderer have the option to quote for any one or more schedules and offer discounts for combined schedules. Such discounts wherever applicable will be taken into account to determine the lowest evaluated cost for the purchaser in deciding the successful Tenderer for each schedule, subject to Tenderer(s) being responsive.

**34. Comparison of Tenders**

Unless mentioned otherwise in Section – III – Special Instructions to Tenderer and Section – VI – List of Requirements, the comparison of the responsive tenders shall be carried out on Delivery Duty Paid (DDP) consignee site basis. The quoted turnkey prices and CMC prices will also be added for comparison/ranking purpose for evaluation.

**35. Additional Factors and Parameters for Evaluation and Ranking of Responsive Tenders**

- 35.1 Further to GIT Clause 34 above, the purchaser's evaluation of a tender will include and take into account the following:
- i) 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, Customs Duties, Service Tax, Works Contract Tax etc. which will be contractually payable (to the Tenderer), on the goods if a contract is awarded on the Tenderer; and
  - ii) in the case of goods of foreign origin offered from abroad, customs duty and other similar import duties/taxes, which will be contractually payable (to the Tenderer) on the goods if the contract is awarded on the Tenderer.
- 35.2 The purchaser's evaluation of tender will also take into account the additional factors, if any, incorporated in SIT in the manner and to the extent indicated therein.
- 35.3 The Purchaser reserves the right to give the price preference to small-scale sectors/MSME etc. and purchase preference to central public sector undertakings as per the instruction in vogue while evaluating, comparing and ranking the responsive tenders.

**36. Tenderer's capability to perform the contract**

- 36.1 The purchaser, through the above process of tender scrutiny and tender evaluation will determine to its satisfaction whether the Tenderer, whose tender has been determined as the lowest evaluated responsive tender is eligible, qualified and capable in all respects to perform the contract satisfactorily. If, there is more than one schedule in the List of Requirements, then, such determination will be made separately for each schedule.
- 36.2 The above-mentioned determination will, inter alia, take into account the Tenderer's financial, technical and production capabilities for satisfying all the requirements of the purchaser as incorporated in the TE document. Such determination will be based upon scrutiny and examination of all relevant data and details submitted by the Tenderer in its tender as well as such other allied information as deemed appropriate by the purchaser.

**37. Contacting the Purchaser**

- 37.1 From the time of submission of tender to the time of awarding the contract, if a Tenderer needs to contact the purchaser for any reason relating to this tender enquiry and / or its tender, it should do so only in writing.
- 37.2 In case a Tenderer attempts to influence the purchaser in the purchaser's decision on scrutiny, comparison & evaluation of tenders and awarding the contract, the tender of the Tenderer shall be liable for rejection in addition to appropriate administrative actions being taken against that Tenderer, as deemed fit by the purchaser.

**G. AWARD OF CONTRACT**

**38. Purchaser's Right to accept any tender and to reject any or all tenders**

The purchaser reserves the right to accept in part or in full any tender or reject any or more tender(s) without assigning any reason or to cancel the tendering process and reject all tenders at any time prior to award of contract, without incurring any liability, whatsoever to the affected Tenderer or Tenderes.

**39. Award Criteria**

Subject to GIT clause 38 above, the contract will be awarded to the lowest evaluated responsive Tenderer decided by the purchaser in terms of GIT Clause 36.

**40. Variation of Quantities at the Time of Award/ Currency of Contract**

- 40.1 At the time of awarding the contract, the purchaser reserves the right to increase or decrease by up to twenty five (25) per cent, the quantity of goods and services mentioned in the schedule (s) in the "List of Requirements" (rounded off to next whole number) without any change in the unit price and other terms & conditions quoted by the Tenderer.
- 40.2 If the quantity has not been increased at the time of the awarding the contract, the purchaser reserves the right to increase by up to twenty five (25) per cent, the quantity of goods and services mentioned in the contract (rounded off to next whole number) without any change in the unit price and other terms & conditions mentioned in the contract, during the currency of the contract after one year from the Date of Notification of Award.

**41. Notification of Award**

- 41.1 Before expiry of the tender validity period, the purchaser will notify the successful Tenderer(s) in writing, by registered / speed post or by fax/ telex/cable (to be confirmed by registered / speed post) that its tender for goods & services, which have been selected by the purchaser, has been accepted, also briefly indicating there in the essential details like description, specification and quantity of the goods & services and corresponding prices accepted. The successful Tenderer must furnish to the purchaser the required performance security within thirty days from the date of dispatch of this notification, failing which the EMD will be forfeited and the award will be cancelled. Relevant details about the performance security have been provided under GCC Clause 5 under Section IV.
- 41.2 The Notification of Award shall constitute the conclusion of the Contract.

**42. Issue of Contract**

- 42.1 Promptly after notification of award, the Purchaser/Consignee will mail the contract form (as per Section XVI) duly completed and signed, in duplicate, to the successful Tenderer by registered / speed post.
- 42.2 Within twenty one days from the date of the contract, the successful Tenderer shall return the original copy of the contract, duly signed and dated, to the Purchaser/Consignee by registered / speed post.
- 42.3 The Purchaser/Consignee reserves the right to issue the Notification of Award consignee wise.

**43. Non-receipt of Performance Security and Contract by the Purchaser/Consignee**

Failure of the successful Tenderer in providing performance security and / or returning contract copy duly signed in terms of GIT clauses 41 and 42 above shall make the Tenderer liable for forfeiture of its EMD and, also, for further actions by the Purchaser/Consignee against it as per the clause 24 of GCC – Termination of default.

**44. Return of E M D**

The earnest money of the successful Tenderer and the unsuccessful Tenderer will be returned to them without any interest, whatsoever, in terms of GIT Clause 19.6.

**45. Publication of Tender Result**

The name and address of the successful Tenderer(s) receiving the contract(s) will be mentioned in the notice board/bulletin/web site of the purchaser.

**46. Corrupt or Fraudulent Practices**

It is required by all concerned namely the Consignee/Tenderer/Suppliers etc to observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Purchaser: -

- (a) defines, for the purposes of this provision, the terms set forth below as follows:
- (i) “corrupt practice” means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and

- (ii) “fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Purchaser, and includes collusive practice among Tenderer (prior to or after Tender submission) designed to establish Tender prices at artificial non-competitive levels and to deprive the Purchaser of the benefits of free and open competition;
- (b) will reject a proposal for award if it determines that the Tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;
- (c) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract by the purchaser if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing the contract.



**SECTION - III****SPECIAL INSTRUCTIONS TO TENDERER (SIT)**

| <b>Sl. No.</b> | <b>GIT Clause No.</b> | <b>Topic</b>                       | <b>SIT Provision</b> | <b>Page No.</b> |
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| G              | 38 to 45              | Award of Contract                  | No Change            | 25              |

The following Special Instructions to Tenderers will apply for this purchase. These special instructions will modify/substitute/supplement the corresponding General Instructions to Tenderers (GIT) incorporated in Section II. The corresponding GIT clause numbers have also been indicated in the text below:

In case of any conflict between the provision in the GIT and that in the SIT, the provision contained in the SIT shall prevail.

**SUBMISSION OF e-TENDERS**

- (i) All the necessary documents as prescribed in the NIT shall be prepared and scanned in different files (in PDF format as prescribed) and uploaded for on-line submission of Proposal.
- (ii) Except Tender Fee and EMD, all document(s)/ information(s) including the Financial Proposal (i.e. FORMAT FOR SUBMISSION OF FINANCIAL PROPOSAL) should be uploaded **online only** in the prescribed format given in the website. No other mode of submission shall be acceptable.
- (iii) The prospective Tenderer may **scan the documents in low resolution (75 to 100 DPI)** instead of 200 DPI. The documents may be scanned for further lower resolution (if possible). This would reduce the size of the Cover and would be uploaded faster.
- (iv) The prospective Tenderer may upload Drawing files, if any, in “.**dwf**” format so that the size of document is less. This is a generic format and all software supports this format.
- (v) The Individual file size of uploading is restricted upto 5 MB .Tenderer may upload multiple files ( Not exceeding 5 MB individually ) & name the files in a way , which describes the contents.

**SECTION – IV****GENERAL CONDITIONS OF CONTRACT (GCC)****TABLE OF CLAUSES**

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## 1. Application

The General Conditions of Contract incorporated in this section shall be applicable for this purchase to the extent the same are not superseded by the Special Conditions of Contract prescribed under Section V, List of requirements under Section VI and Technical Specification under Section VII of this document.

## 2. Use of contract documents and information

- 2.1 The supplier shall not, without the purchaser's prior written consent, disclose the contract or any provision thereof including any specification, drawing, sample or any information furnished by or on behalf of the purchaser in connection therewith, to any person other than the person(s) employed by the supplier in the performance of the contract emanating from this TE document. Further, any such disclosure to any such employed person shall be made in confidence and only so far as necessary for the purposes of such performance for this contract.
- 2.2 Further, the supplier shall not, without the purchaser's prior written consent, make use of any document or information mentioned in GCC sub-clause 2.1 above except for the sole purpose of performing this contract.
- 2.3 Except the contract issued to the supplier, each and every other document mentioned in GCC sub-clause 2.1 above shall remain the property of the purchaser and, if advised by the purchaser, all copies of all such documents shall be returned to the purchaser on completion of the supplier's performance and obligations under this contract.

## 3. Patent Rights

The supplier shall, at all times, indemnify and keep indemnified the purchaser, free of cost, against all claims which may arise in respect of goods & services to be provided by the supplier under the contract for infringement of any intellectual property rights or any other right protected by patent, registration of designs or trademarks. In the event of any such claim in respect of alleged breach of patent, registered designs, trademarks etc. being made against the purchaser, the purchaser shall notify the supplier of the same and the supplier shall, at his own expenses take care of the same for settlement without any liability to the purchaser.

## 4. Country of Origin

- 4.1 All goods and services to be supplied and provided for the contract shall have the origin in India or in the countries with which the Government of India has trade relations.
- 4.2 The word "origin" incorporated in this clause means the place from where the goods are mined, cultivated, grown, manufactured, produced or processed or from where the services are arranged.
- 4.3 The country of origin may be specified in the Price Schedule

## 5. Performance Security

- 5.1 Within Thirty (30) days from date of the issue of notification of award by the Purchaser/Consignee, the supplier, shall furnish performance security to the Purchaser/Consignee for an amount equal to ten percent (10%) of the total value of the contract, valid up to sixty (60) days after the date of completion of all contractual obligations by the supplier, including the warranty obligations, initially valid for a period of minimum **32 months** from the date of Notification of Award for **Insulated Vaccine van**.
- 5.2 The Performance security shall be denominated in Indian Rupees or in the currency of the contract as detailed below:  
It shall be in any one of the forms namely Account Payee Demand Draft or Fixed Deposit Receipt drawn from any Scheduled bank in India or Bank Guarantee issued by a Scheduled bank in India, in the

prescribed form as provided in section XV of this document in favour of the Purchaser/Consignee. The validity of the Fixed Deposit receipt or Bank Guarantee will be for a period up to sixty (60) days beyond Warranty Period.

- 5.3 In the event of any failure /default of the supplier with or without any quantifiable loss to the government including furnishing of consignee wise Bank Guarantee as per Proforma in Section XV, the amount of the performance security is liable to be forfeited. The Administration Department may do the needful to cover any failure/default of the supplier with or without any quantifiable loss to the Government.
- 5.4 In the event of any amendment issued to the contract, the supplier shall, within twenty-one (21) days of issue of the amendment, furnish the corresponding amendment to the Performance Security (as necessary), rendering the same valid in all respects in terms of the contract, as amended.
- 5.5 The supplier shall enter into Annual Comprehensive Maintenance Contract as per the 'Contract Form-B' in Section XVI with respective consignees, 3 (three) months prior to the completion of Warranty Period. The CMC will commence from the date of expiry of the Warranty Period.
- 5.6 Subject to GCC sub – clause 5.3 above, the Purchaser/Consignee will release the Performance Security without any interest to the supplier on completion of the supplier's all contractual obligations including the warranty obligations.

## **6. Technical Specifications and Standards**

The Goods & Services to be provided by the supplier under this contract shall conform to the technical specifications and quality control parameters mentioned in 'Technical Specification' and 'Quality Control Requirements' under Sections VII and VIII of this document.

## **7. Packing and Marking**

- 7.1 The packing for the goods to be provided by the supplier should be strong and durable enough to withstand, without limitation, the entire journey during transit including transshipment (if any), rough handling, open storage etc. without any damage, deterioration etc. As and if necessary, the size, weights and volumes of the packing cases shall also take into consideration, the remoteness of the final destination of the goods and availability or otherwise of transport and handling facilities at all points during transit up to final destination as per the contract.
- 7.2 The quality of packing, the manner of marking within & outside the packages and provision of accompanying documentation shall strictly comply with the requirements as provided in Technical Specifications and Quality Control Requirements under Sections VII and VIII and in SCC under Section V. In case the packing requirements are amended due to issue of any amendment to the contract, the same shall also be taken care of by the supplier accordingly.
- 7.3 Packing instructions:

Unless otherwise mentioned in the Technical Specification and Quality Control Requirements under Sections VII and VIII and in SCC under Section V, the supplier shall make separate packages for each consignee (in case there is more than one consignee mentioned in the contract) and mark each package on three sides with the following with indelible paint of proper quality:

- a. contract number and date
- b. brief description of goods including quantity
- c. packing list reference number
- d. country of origin of goods
- e. consignee's name and full address and
- f. supplier's name and address

## **8. Inspection, Testing and Quality Control**

- 8.1 **Prototype Inspection: one prototype of Walk-in-Cooler, Walk-in-freezer and Refrigerated Truck to be introduced in the operation must be inspected and approved before being taken up for serial production. The equipment so supplied shall be similar to the approved equipment.**
- 8.2 The purchaser and/or its nominated representative(s) will, without any extra cost to the purchaser, inspect and/or test the ordered goods and the related services to confirm their conformity to the contract specifications and other quality control details incorporated in the contract. The purchaser shall inform the supplier in advance, in writing, the purchaser's programme for such inspection and, also the identity of the officials to be deputed for this purpose. The cost towards the transportation, boarding & lodging will be borne by the purchaser and/or its nominated representative(s).
- 8.3 The Technical Specification and Quality Control Requirements incorporated in the Contract shall specify what inspections and tests are to be carried out and, also, where and how they are to be conducted. If such inspections and tests are conducted in 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 purchaser's inspector at no charge to the purchaser.
- 8.4 If during such inspections and tests the contracted goods fail to conform to the required specifications and standards, the purchaser's inspect or may reject them and the supplier shall either replace the rejected goods or make all alterations necessary to meet the specifications and standards, as required, free of cost to the purchaser and resubmit the same to the purchaser's inspector for conducting the inspections and tests again.
- 8.5 In case the contract stipulates pre-despatch inspection of the ordered goods at supplier's premises, the supplier shall put up the goods for such inspection to the purchaser's inspector well ahead of the contractual delivery period, so that the purchaser's inspector is able to complete the inspection within the contractual delivery period.
- 8.6 If the supplier tenders the goods to the purchaser's inspector for inspection at the last moment without providing reasonable time to the inspector for completing the inspection within the contractual delivery period, the inspector 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 goods 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 legal rights and remedies available to the purchaser under the terms & conditions of the contract.
- 8.7 The purchaser's/consignee's contractual right to inspect, test and, if necessary, reject the goods after the goods' arrival at the final destination shall have no bearing of the fact that the goods have previously been inspected and cleared by purchaser's inspector during pre-despatch inspection mentioned above.
- 8.8 Goods accepted by the purchaser/consignee and/or its inspector at initial inspection and in final inspection in terms of the contract shall in no way dilute purchaser's/consignee's right to reject the same later, if found deficient in terms of the warranty clause of the contract, as incorporated under GCC Clause 15.
- 8.9 Principal/ Foreign supplier shall also have the equipment inspected by recognised/ reputed agency like SGS, Lloyd or equivalent (acceptable to the purchaser) prior to despatch at the supplier's cost and furnish necessary certificate from the said agency in support of their claim.

## **9. Terms of Delivery**

Goods shall be delivered by the supplier in accordance with the terms of delivery and as per the delivery period specified in the schedule of requirement. Please note that the time shall be the essence of the contract.

## **10. Transportation of Goods**

### **10.1 Instructions for transportation of imported goods offered from abroad:**

The supplier shall not arrange part-shipments and/or transshipment without the express/prior written consent of the purchaser. The supplier is required under the contract to deliver the goods under CIP (Named port of destination) terms; the shipment shall be made by Indian flag vessel or by vessels belonging to the conference lines in which India is a member country through India's forwarding agents/coordinators. In case the forwarding agent/coordinators are unable to provide timely adequate space in Indian flag vessel or by vessels belonging to the conference lines, the supplier shall arrange shipment through any available vessel to adhere to the delivery schedule given in the contract.

In case of airlifting of imported goods offered from abroad, the same will be done only through the National Carrier i.e. Air India wherever applicable. In case the National Carrier is not available, any other airlines available for early delivery may be arranged.

### **10.2 Instructions for transportation of domestic goods including goods already imported by the supplier under its own arrangement:**

In case no instruction is provided in this regard in the SCC, the supplier will arrange transportation of the ordered goods as per its own procedure.

## **11. Insurance:**

Unless otherwise instructed in the SCC, the supplier shall make arrangements for insuring the goods against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the following manner:

- i) in case of supply of domestic goods on Consignee site basis, the supplier shall be responsible till the entire stores contracted for arrival in good condition at destination. The transit risk in this respect shall be covered by the Supplier by getting the stores duly insured. The insurance cover shall be obtained by the Supplier and should be valid till 3 months after the receipt of goods by the Consignee.
- ii) in case of supply of the imported goods on CIP Named port of Destination Basis, the additional extended Insurance (local transportation and storage) would be borne by the Supplier from the port of entry to the consignee site for a period including 3 months beyond date of delivery.
- iii) Deleted
- iv) If the equipment is not commissioned and handed over to the consignee within 3 months, the insurance will be got extended by the supplier at their cost till the successful installation, testing, commissioning and handing over of the goods to the consignee. In case the delay in the installation and commissioning is due to handing over of the site to the supplier by the consignee, such extensions of the insurance will still be done by the supplier, but the insurance extension charges at actual will be reimbursed.

## **12. Spare parts**

### **12.1 If specified in the List of Requirements and in the resultant contract, the supplier shall supply/provide any or all of the following materials, information etc. pertaining to spare parts manufactured and/or supplied by the supplier:**

- a) The spare parts as selected by the Purchaser/Consignee to be purchased from the supplier, subject to the condition that such purchase of the spare parts shall not relieve the supplier of any contractual obligation including warranty obligations; and
- b) In case the production of the spare parts is discontinued:

- i) Sufficient advance notice to the Purchaser/Consignee before such discontinuation to provide adequate time to the purchaser to purchase the required spare parts etc., and
- ii) Immediately following such discontinuation, providing the Purchaser/Consignee, free of cost, the designs, drawings, layouts and specifications of the spare parts, as and if requested by the Purchaser/Consignee.

12.2 Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the goods so that the same are supplied to the Purchaser/Consignee promptly on receipt of order from the Purchaser/Consignee.

### **13. Incidental services**

Subject to the stipulation, if any, in the SCC (Section – V), List of Requirements (Section – VI) and the Technical Specification (Section – VII), the supplier shall be required to perform the following services.

- i) Installation & commissioning, Supervision and Demonstration of the goods
- ii) Providing required jigs and tools for assembly, minor civil works required for the completion of the installation.
- iii) Training of Consignee's Staff, operators etc. for operating and maintaining the goods
- iv) Supplying required number of operation & maintenance manual for the goods

### **14. Distribution of Dispatch Documents for Clearance/Receipt of Goods**

The supplier shall send all the relevant despatch documents well in time to the Purchaser/Consignee to enable the Purchaser/Consignee clear or receive (as the case may be) the goods in terms of the contract. Unless otherwise specified in the SCC, the usual documents involved and the drill to be followed in general for this purpose are as follows.

A) For Domestic Goods, including goods already imported by the supplier under its own arrangement

Within 24 hours of delivery, the supplier shall notify the purchaser, consignee, and others concerned if mentioned in the contract, the complete details of despatch and also supply the following documents to them by registered post / speed post (or as instructed in the contract):

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Consignee Receipt Certificate as per Section XVII in original issued by the authorized representative of the consignee;
- (iii) Two copies of packing list identifying contents of each package;
- (iv) Inspection certificate issued by the nominated Inspection agency, if any.
- (v) Certificate of origin;
- (vi) Insurance Certificate as per GCC Clause 11.
- (vii) Manufacturers/Supplier's warranty certificate & In-house inspection certificate.

B) Deleted

## 15. Warranty

- 15.1 The supplier warrants comprehensively that the goods supplied under the contract is new, unused and incorporate all recent improvements in design and materials unless prescribed otherwise by the purchaser in the contract. The supplier further warrants that the goods supplied under the contract shall have no defect arising from design, materials (*except when the design adopted and / or the material used are as per the Purchaser's/Consignee's specifications*) or workmanship or from any act or omission of the supplier, that may develop under normal use of the supplied goods under the conditions prevailing in India.
- 15.2 This warranty shall remain valid for **as mentioned in the technical specifications Section VII** after the goods or any portion thereof as the case may be, have been delivered to the final destination and commissioned at the final destination and accepted by the Purchaser/Consignee in terms of the contract, unless specified otherwise in the SCC.
- No conditional warranty will be acceptable.
  - Warranty will be inclusive of all accessories & consumable.
  - Replacement and repair will be under taken for the defective goods.
  - Proper marking has to be made for all spares for identification like printing of installation and repair dates.
- 15.3 In case of any claim arising out of this warranty, the Purchaser/Consignee shall promptly notify the same in writing to the supplier. The period of the warranty will be as per G.C.C clause number 15.2 above irrespective of any other period mentioned elsewhere in the Tendering documents.
- 15.4 Upon receipt of such notice, the supplier shall, within 48 hours on a 24(hrs) X 7 (days) X 365 (days) basis respond to take action and to repair or replace the defective goods or parts thereof, free of cost, at the ultimate destination within next 48 hours. The supplier shall take over the replaced parts/goods after providing their replacements and no claim, whatsoever shall lie on the purchaser for such replaced parts/goods thereafter. The penalty clause for non-rectification will be applicable as per tender conditions.
- 15.5 In the event of any rectification of a defect or replacement of any defective goods during the warranty period, the warranty for the rectified/replaced goods shall be extended to a further period of twenty four (24) months from the date such rectified / replaced goods starts functioning to the satisfaction of the purchaser.
- 15.6 If the supplier, having been notified, fails to respond to take action to repair or replace the defect(s) within 48 hours on a 24(hrs) X 7 (days) X 365 (days) basis, the purchaser may proceed to take such remedial action(s) as deemed fit by the purchaser, at the risk and expense of the supplier and without prejudice to other contractual rights and remedies, which the purchaser may have against the supplier.
- 15.7 Deleted
- 15.9 The supplier along with its Indian Agent shall ensure continued supply of the spare parts for the machines and equipment supplied by them to the purchaser for 10 years from the date of installation and handing over.
- 15.10 The Supplier along with its Indian Agent shall always accord most favoured client status to the Purchaser vis-à-vis its other Clients/Purchasers of its equipment/machines/goods etc. and shall always give the most competitive price for its machines/equipment supplied to the Purchaser/Consignee.

## 16. Assignment

The Supplier shall not assign, either in whole or in part, its contractual duties, responsibilities and obligations to perform the contract, except with the Purchaser's prior written permission.



## **17. Sub Contracts**

- 17.1 The Supplier shall notify the Purchaser in writing of all sub contracts awarded under the contract if not already specified in its tender. Such notification, in its original tender or later, shall not relieve the Supplier from any of its liability or obligation under the terms and conditions of the contract.
- 17.2 Sub contract shall be only for bought out items and sub-assemblies.
- 17.3 Sub contracts shall also comply with the provisions of GCC Clause 4 (“Country of Origin”).

## **18. Modification of contract**

- 18.1 If necessary, the purchaser may, by a written order given to the supplier at any time during the currency of the contract, amend the contract by making alterations and modifications within the general scope of contract in any one or more of the following:
- a) Specifications, drawings, designs etc. where goods to be supplied under the contract are to be specially manufactured for the purchaser,
  - b) Mode of packing,
  - c) Incidental services to be provided by the supplier
  - d) Mode of despatch,
  - e) Place of delivery, and
  - f) Any other area(s) of the contract, as felt necessary by the purchaser depending on the merits of the case.
- 18.2 In the event of any such modification/alteration causing increase or decrease in the cost of goods and services to be supplied and provided, or in the time required by the supplier to perform any obligation under the contract, an equitable adjustment shall be made in the contract price and/or contract delivery schedule, as the case may be, and the contract amended accordingly. If the supplier doesn't agree to the adjustment made by the Purchaser/Consignee, the supplier shall convey its views to the Purchaser/Consignee within twenty-one days from the date of the supplier's receipt of the Purchaser's/Consignee's amendment / modification of the contract.

## **19. Prices**

Prices to be charged by the supplier for supply of goods and provision of services in terms of the contract shall not vary from the corresponding prices quoted by the supplier in its tender and incorporated in the contract except for any price adjustment authorised in the SCC.

## **20. Taxes and Duties**

- 20.1 Supplier shall be entirely responsible for all taxes, duties, fees, levies etc. incurred until delivery of the contracted goods to the purchaser.
- 20.2 Further instruction, if any, shall be as provided in the SCC.
- 20.3 The entry tax, if applicable, the exemption certificate will be issued or the same will be reimbursed by purchaser/ consignee. The road permits will be issued by the consignee at the time of delivery of goods.

## **21. Terms and Mode of Payment**

### **21.1 Payment Terms**

Payment shall be made in Indian Rupees as specified in the contract in the following manner:

- a) **On delivery:**

75 % payment of the contract price shall be paid on receipt of goods in good condition and upon the submission of the following documents:

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Consignee Receipt Certificate as per Section XVII in original issued by the authorized representative of the consignee;
- (iii) Two copies of packing list identifying contents of each package;
- (iv) Inspection certificate issued by the nominated Inspection agency, if any.
- (v) Insurance Certificate as per GCC Clause 11 and documents also to be submitted for payment of LC confirming that dispatch documents has already been sent to all concerned as per the contract within 24 hours;
- (vi) Certificate of origin.

**b) On Acceptance:**

Balance 25 % payment would be made against 'Final Acceptance Certificate' as per Section XVIII of goods to be issued by the consignees subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise.

**B) Payment for Imported Goods:**

Payment for foreign currency portion shall be made in the currency as specified in the contract in the following manner:

**a) On Shipment:**

Seventy Five (75) % of the net CIP price (CIP price less Indian Agency commission) of the goods shipped shall be paid through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the supplier in a bank in his country and upon submission of documents specified hereunder:

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Original and four copies of the negotiable clean, on-board Bill of Lading/ Airway bill , marked freight pre-paid and four copies of non-negotiable Bill of Lading/Airway bill;
- (iii) Four Copies of packing list identifying contents of each package;
- (iv) Insurance Certificate as per GCC Clause 11 and documents also to be submitted for payment of LC confirming that dispatch documents has already been sent to all concerned as per the contract within 24 hours;
- (v) Manufacturer's/Supplier's warranty certificate;
- (vi) Inspection Certificate for the despatched equipments issued by recognized/ reputed agency like SGS, Lloyd or equivalent (acceptable to the purchaser) prior to despatch.
- (vii) Manufacturer's own factory inspection report and
- (viii) Certificate of origin by the chamber of commerce of the concerned country;
- (ix) Certificate of origin

**b) On Acceptance:**

Balance payment of 25 % of net CIP price of goods would be made against 'Final Acceptance Certificate' as per Section XVIII to be issued by the consignees through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the Foreign Principal in a bank in his country, subject to recoveries, if any.

c) **Payment of Incidental Costs till consignee site & Incidental Services** (including Installation & Commissioning, Supervision, Demonstration and Training) will be paid in Indian Rupees to the Indian Agent on proof of 100 % payment to the Foreign Principal.

**d) Payment of Indian Agency Commission:**

Indian Agency commission will be paid to the manufacturer's agent in the local currency for an amount in Indian rupees indicated in the relevant Price Schedule (as per prevailing rate of exchange ruling on the date of Contract) and shall not be subject to further escalation / exchange variation. Payment shall be paid in Indian Rupees to the Indian Agent on proof of 100 % payment to the Foreign Principal.

**C) Payment of Turnkey, if any:**

Turnkey payment will be made to the manufacturer's agent in Indian rupees indicated in the relevant Price Schedule (as per prevailing rate of exchange ruling on the date of Contract) and shall not be subject to further escalation/ exchange variation. Payment shall be made in Indian Rupees to the Indian Agent on proof of 100% payment to the Foreign Principal.

**D) Payment for Annual Comprehensive Maintenance Contract Charges:**

The consignee will enter into CMC with the supplier at the rates as stipulated in the contract. The payment of CMC will be made on six monthly basis after satisfactory completion of said period, duly certified by the consignee on receipt of bank guarantee for an amount equivalent to 2.5% of the cost of the equipment as per contract in the prescribed format given in Section XV valid till 2 months after expiry of entire CMC period.

- 21.2 The supplier shall not claim any interest on payments under the contract.
- 21.3 Where there is a statutory requirement for tax deduction at source, such deduction towards income tax and other tax as applicable will be made from the bills payable to the Supplier at rates as notified from time to time.
- 21.4 Irrevocable & non – transferable LC shall be opened by the respective consignees. However, if the supplier requests specifically to open confirmed LC, the extra charges would be borne by the supplier. If LC is required to be extended and/or amended for reasons not attributable to the purchaser/consignee, the charges thereof shall be borne by the supplier.
- 21.5 The payment shall be made in the currency / currencies authorised in the contract.
- 21.6 The supplier shall send its claim for payment in writing, when contractually due, along with relevant documents etc., duly signed with date, to respective consignees.
- 21.7 While claiming payment, the supplier is also to certify in the bill that the payment being claimed is strictly in terms of the contract and all the obligations on the part of the supplier for claiming that payment has been fulfilled as required under the contract.
- 21.8 While claiming reimbursement of duties, taxes etc. (like sales tax, excise duty, custom duty) from the Purchaser/Consignee, as and if permitted under the contract, the supplier shall also certify that, in case it gets any refund out of such taxes and duties from the concerned authorities at a later date, it (the supplier) shall refund to the Purchaser/Consignee forthwith.
- 21.9 In case where the supplier is not in a position to submit its bill for the balance payment for want of receipted copies of Inspection Note from the consignee and the consignee has not complained about the non-receipt, shortage, or defects in the supplies made, balance amount will be paid by the paying authority without consignee's receipt certificate after three months from the date of the preceding part payment for the goods in question, subject to the following conditions:
- (a) The supplier will make good any defect or deficiency that the consignee (s) may report within six months from the date of despatch of goods.
- (b) Delay in supplies, if any, has been regularized.

- (c) The contract price where it is subject to variation has been finalized.
- (d) The supplier furnishes the following undertakings:

“I/We, \_\_\_\_\_ certify that I/We have not received back the Inspection Note duly receipted by the consignee or any communication from the purchaser or the consignee about non-receipt, shortage or defects in the goods supplied. I/We \_\_\_\_\_ agree to make good any defect or deficiency that the consignee may report within three months from the date of receipt of this balance payment.

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

- 22.1 The supplier shall deliver the goods and perform the services under the contract within the time schedule specified by the Purchaser/Consignee in the List of Requirements and as incorporated in the contract.
- 22.2 Subject to the provision under GCC clause 26, any unexcused delay by the supplier in maintaining its contractual obligations towards delivery of goods and performance of services shall render the supplier liable to any or all of the following sanctions:
  - (i) imposition of liquidated damages,
  - (ii) forfeiture of its performance security and
  - (iii) termination of the contract for default.
- 22.3 If at any time during the currency of the contract, the supplier encounters conditions hindering timely delivery of the goods and performance of services, the supplier shall promptly inform the Purchaser/Consignee in writing about the same and its likely duration and make a request to the Purchaser/Consignee for extension of the delivery schedule accordingly. On receiving the supplier's communication, the Purchaser/Consignee shall examine the situation as soon as possible and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages for completion of supplier's contractual obligations by issuing an amendment to the contract.
- 22.4 When the period of delivery is extended due to unexcused delay by the supplier, the amendment letter extending the delivery period shall, inter alia contain the following conditions:
  - (a) The Purchaser/Consignee shall recover from the supplier, under the provisions of the clause 23 of the General Conditions of Contract, liquidated damages on the goods and services, which the Supplier has failed to deliver within the delivery period stipulated in the contract.
  - (b) That no increase in price on account of any ground, whatsoever, including any stipulation in the contract for increase in price on any other ground and, also including statutory increase in or fresh imposition of customs duty, excise duty, sales tax/ VAT, Service Tax and Works Contract Tax or on account of any other tax or duty which may be levied in respect of the goods and services specified in the contract, which takes place after the date of delivery stipulated in the contract shall be admissible on such of the said goods and services as are delivered and performed after the date of the delivery stipulated in the contract.
  - (c) But nevertheless, the Purchaser/Consignee shall be entitled to the benefit of any decrease in price on account of reduction in or remission of customs duty, excise duty, sales tax/ VAT, Service Tax and Works Contract Tax or any other duty or tax or levy or on account of any other grounds, which takes place after the expiry of the date of delivery stipulated in the contract.
- 22.5 The supplier shall not dispatch the goods after expiry of the delivery period. The supplier is required to apply to the Purchaser/Consignee for extension of delivery period and obtain the same before despatch. 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**

Subject to GCC clause 26, if the supplier fails to deliver any or all of the goods or fails to perform the services within the time frame(s) incorporated in the contract, the Purchaser/Consignee shall, without prejudice to other rights and remedies available to the Purchaser/Consignee under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% per week of delay or part thereof on delayed supply of goods and/or services until actual delivery or performance subject to a maximum of 10% of the contract price. Once the maximum is reached Purchaser/Consignee may consider termination of the contract as per GCC 24.

During the above-mentioned delayed period of supply and / or performance, the conditions incorporated under GCC sub-clause 22.4 above shall also apply.

**24. Termination for default**

- 24.1 The Purchaser/Consignee, without prejudice to any other contractual rights and remedies available to it (the Purchaser/Consignee), may, by 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 of 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/Consignee pursuant to GCC sub-clauses 22.3 and 22.4.
- 24.2 In the event of the Purchaser/Consignee terminating the contract in whole or in part, pursuant to GCC sub-clause 24.1 above, the Purchaser/Consignee may procure goods and/or services similar to those cancelled, with such terms and conditions and in such manner as it deems fit and the supplier shall be liable to the Purchaser/Consignee for the extra expenditure, if any, incurred by the Purchaser/Consignee for arranging such procurement.
- 24.3 Unless otherwise instructed by the Purchaser/Consignee, the supplier shall continue to perform the contract to the extent not terminated.

**25. Termination for insolvency**

If the supplier becomes bankrupt or otherwise insolvent, the purchaser reserves the right to terminate the contract at any time, by serving written notice to the supplier without any compensation, whatsoever, to the supplier, subject to further condition that such termination will not prejudice or affect the rights and remedies which have accrued and / or will accrue thereafter to the Purchaser/Consignee.

**26. Force Majeure**

- 26.1 Notwithstanding the provisions contained in GCC clauses 22, 23 and 24, the supplier shall not be liable for imposition of any such sanction so long the delay and/or failure of the supplier in fulfilling its obligations under the contract is the result of an event of Force Majeure.
- 26.2 For purposes of this clause, Force Majeure means an event beyond the control of the supplier and not involving the supplier's fault or negligence and which is not foreseeable and not brought about at the instance of, the party claiming to be affected by such event and which has caused the non – performance or delay in performance. Such events may include, but are not restricted to, acts of the Purchaser/Consignee either in its sovereign or contractual capacity, wars or revolutions, hostility, acts of public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes excluding by its employees, lockouts excluding by its management, and freight embargoes.
- 26.3 If a Force Majeure situation arises, the supplier shall promptly notify the Purchaser/Consignee in writing of such conditions and the cause thereof within twenty one days of occurrence of such event. Unless otherwise directed by the Purchaser/Consignee 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.

- 26.4 If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of Force Majeure for a period exceeding sixty days, either party may at its option terminate the contract without any financial repercussion on either side.
- 26.5 In case due to a Force Majeure event the Purchaser/Consignee is unable to fulfil its contractual commitment and responsibility, the Purchaser/Consignee will notify the supplier accordingly and subsequent actions taken on similar lines described in above sub-paragraphs.

## **27. Termination for convenience**

- 27.1 The Purchaser/Consignee reserves the right to terminate the contract, in whole or in part for its (Purchaser's/Consignee's) convenience, by serving written notice on the supplier at any time during the currency of the contract. The notice shall specify that the termination is for the convenience of the Purchaser/Consignee. The notice shall also indicate inter alia, the extent to which the supplier's performance under the contract is terminated, and the date with effect from which such termination will become effective.
- 27.2 The goods and services which are complete and ready in terms of the contract for delivery and performance within thirty days after the supplier's receipt of the notice of termination shall be accepted by the Purchaser/Consignee following the contract terms, conditions and prices. For the remaining goods and services, the Purchaser/Consignee may decide:
- a) To get any portion of the balance completed and delivered at the contract terms, conditions and prices; and / or
  - b) To cancel the remaining portion of the goods and services and compensate the supplier by paying an agreed amount for the cost incurred by the supplier towards the remaining portion of the goods and services.

## **28. Governing language**

The contract shall be written in English language following the provision as contained in GIT clause 4. All correspondence and other documents pertaining to the contract, which the parties exchange, shall also be written accordingly in that language.

## **29. Notices**

- 29.1 Notice, if any, relating to the contract given by one party to the other, shall be sent in writing or by cable or telex or facsimile and confirmed in writing. The procedure will also provide the sender of the notice, the proof of receipt of the notice by the receiver. The addresses of the parties for exchanging such notices will be the addresses as incorporated in the contract.
- 29.2 The effective date of a notice shall be either the date when delivered to the recipient or the effective date specifically mentioned in the notice, whichever is later.

## **30. Resolution of disputes**

- 30.1 If dispute or difference of any kind shall arise between the Purchaser/Consignee and the supplier in connection with or relating to the contract, the parties shall make every effort to resolve the same amicably by mutual consultations.
- 30.2 If the parties fail to resolve their dispute or difference by such mutual consultation within twenty-one days of its occurrence, then, unless otherwise provided in the SCC, either the Purchaser/Consignee or the supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided the applicable arbitration procedure will be as per the Arbitration and Conciliation Act, 1996 of India. In the case of a dispute or difference arising between the Purchaser/Consignee and a domestic Supplier relating to any matter arising out of or connected with the contract, such dispute or difference shall be

referred to the sole arbitration of an officer in the Ministry of Law and Justice, appointed to be the arbitrator by the Director General (Health Services). The award of the arbitrator shall be final and binding on the parties to the contract subject to the provision that the Arbitrator shall give reasoned award in case the value of claim in reference exceeds Rupees One lakhs (Rs. 1,00,000/-).

30.3 Venue of Arbitration: The venue of arbitration shall be the place from where the contract has been issued, i.e., New Delhi, India.

### 31. Applicable Law

The contract shall be governed by and interpreted in accordance with the laws of India for the time being in force.

### 32. General/ Miscellaneous Clauses

32.1 Nothing contained in this Contract shall be constructed as establishing or creating between the parties, i.e. the Supplier/its Indian Agent on the one side and the Purchaser on the other side, a relationship of master and servant or principal and agent.

32.2 Any failure on the part of any Party to exercise right or power under this Contract shall not operate as waiver thereof.

32.3 The Supplier shall notify the Purchaser/Consignee /the Government of India of any material change would impact on performance of its obligations under this Contract.

32.4 Each member/constituent of the Supplier/its Indian Agent, in case of consortium shall be **jointly and severally liable** to and responsible for all obligations towards the Purchaser/ Consignee/ Government for performance of contract/services including that of its Associates/Sub Contractors under the Contract.

32.5 The Supplier/its Agent shall, at all times, indemnify and keep indemnified the Purchaser/ Consignee/Government of India against any claims in respect of any damages or compensation payable in consequences of any accident or injury sustained or suffered by its employees or agents or by any other third party resulting from or by any action, omission or operation conducted by or on behalf of the supplier/its associate/affiliate etc.

32.6 All claims regarding indemnity shall survive the termination or expiry of the contract.

**SECTION – V**

**SPECIAL CONDITIONS OF CONTRACT (SCC)**

The following Special Conditions of Contract (SCC) will apply for this purchase. The corresponding clauses of General Conditions of Contract (GCC) relating to the SCC stipulations have also been incorporated below.

These Special Conditions will modify/substitute/supplement the corresponding (GCC) clauses. Whenever there is any conflict between the provision in the GCC and that in the SCC, the provision contained in the SCC shall prevail.



**SECTION - VI****LIST OF REQUIREMENTS****Part I**

| <b>Sl. No</b> | <b>Item</b>                        | <b>Qty.</b> | <b>Consignee</b>                    |
|---------------|------------------------------------|-------------|-------------------------------------|
| 1             | Low Voltage Stabilizer (100-280 V) | 12,559      | As per Section XXI (Consignee list) |
| 2             | Voltage Stabilizer (150 -280 V)    | 11,846      |                                     |
| 3             | Stem Thermometer                   | 43,930      |                                     |
| 4             | Ice Lined Refrigerator (Large)     | 2,826       |                                     |
| 5             | Ice Lined Refrigerator (Small)     | 11,121      |                                     |
| 6             | Deep Freezer (Large)               | 504         |                                     |
| 7             | Deep Freezer (Small)               | 10622       |                                     |
| 8             | Walk-in-Cooler 40 Cum              | 5           |                                     |
| 9             | Walk-in-Freezer 20 Cum             | 10          |                                     |
| 10            | Refrigerated Truck                 | 17          |                                     |
| 11            | Freeze Marker                      | 30,000      |                                     |

**Part II: Required Delivery Schedule:****a) For Indigenous goods or for imported goods if supplied from India:****i. For WIC, WIF and Refrigerated Truck:**

90 days from the date of issue of notification of award/ purchase order. In case of Prototype Inspection (if any) the date of delivery will be 90 days from the date of approval of Prototype. The offer for prototype should be within 60 days from the date of issue of notification of award/purchase order. The date of delivery will be the date of delivery at consignee site. The installation and commissioning should be within 30 days after handing over the site to the supplier by the consignee.

**ii. For Voltage Stabilizer, Thermometer, Ice Lined Refrigerator, Deep Freezer and Freeze Marker:**

- (i) First 50% of total ordered quantity (irrespective of consignee) within 120 days from the date of NOA.
- (ii) Balance 50% of total ordered quantity (irrespective of consignee) by 180 days from the date of NOA.
- (iii) Minimum gap in between two supplies should not be less than 30 days.

**b) For Imported goods directly from foreign:**

**i. For WIC, WIF and Refrigerated Truck:**

90 days from the date of opening of L/C. Prototype Inspection (if any) the date of delivery will be 90 days from the date of approval of Prototype. The offer for prototype should be within 60 days from the date of issue of notification of award/purchase order. The date of delivery will be the date of delivery at consignee site. The installation and commissioning should be within 30 days after handing over the site to the supplier by the consignee.

**ii. For Ice Lined Refrigerator/Deep Freezer and Freeze Marker:**

(i) First 50% of total ordered quantity (irrespective of consignee) within 120 days from the date of opening of L/C.

(ii) Balance 50% of total ordered quantity (irrespective of consignee) by 180 days from the date of opening of L/C.

**iii.** Minimum gap in between two supplies should not be less than 30 days.

**iv. Note:** The Purchaser/Consignee reserves the right to extend the delivery period up to one year from the date of NOA at its discretion.

**Part III: Scope of Incidental Services:**

Commissioning, Supervision, Demonstration, Trial run and Training etc. as specified in GCC Clause 13

**Part IV:**

Turnkey, as per details in Technical Specification.

**Part V:**

Comprehensive Maintenance Contract (CMC) as per details in Technical Specification.

**Part VI:**

**Required Terms of Delivery and Destination.**

At Consignee Site—Specified in the List of Requirements

Insurance (local transportation and storage) would be borne by the Supplier from ware house to the consigneesiteforaperiodincluding3monthsbeyonddateofdelivery

**b)For Imported goods directly from abroad:**

The foreign tenderers are required to quote their rates on CIP Named Port of Destination Basis giving break up of the price as per the Proforma prescribed in the Price Schedule. Purchaser will place the order on CIP Named Port of Destination basis.

The shipping arrangements shall be made in accordance with the instruction of Ministry of Shipping & Transport, NewDelhi, India as detailed in Annexure1at Section XIX. Insurance (local transportation and storage) would be extended and borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery.

**Destination/Consignee details are given in Section XXI**

**SECTION - VII**

**Technical Specifications**

**Note 1:** Tenderer's attention is drawn to GIT clause 18 and GIT sub-clause 11.1(c). The Tenderer is to provide the required details, information, confirmations, etc. accordingly failing which it's tender is liable to be ignored.

**Note 2:** General: Tenderer are requested to make sure that they should attach the list of equipment for carrying out routine and preventive maintenance wherever asked for and should make sure that Electrical Safety Analyzer / Tester for Medical equipment to periodically check the electrical safety aspects as per BIS and IEC safety Standards.

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**Schedule No. 1**

**AUTOMATIC VOLTAGE STABILIZERS– LOW VOLTAGE**  
(Input Voltage Range-100 V-280 V)

**1. Description of Function**

- 1.1** Automatic regulation relay type voltage stabilizer will provide a preset AC Output 220V +/- 5 % for fluctuating AC input voltage.(i.e. 100-280 V)
- 1.2** It will be connected with Ice lined refrigerators and deep freezers used for storage of vaccines.

**2. Operational Requirement**

- 2.1** Should be able to provide stable AC power output for a wide range of input voltage fluctuations.
- 2.2** The output rated capacity of the stabilizer should be 1KVA.

**3. Technical Specifications**

- 3.1** Should work for input voltage range of 100-280 volt AC, single phase, with Low Voltage Cut-Off when the input voltage falls below 100V +/- 5V & High Voltage Cut-Off when the input voltage goes beyond 280V +/- 5V.
- 3.2** Protection:-Over/Under Voltage, Over Load & Short Circuit.
- 3.3** Over load protection at input, automatic cut-off time—between 2-4 seconds of Under voltage/Over voltage cut off at output.
- 3.4** Maximum power loss due to leakage of current should be less than 2%
- 3.5** Automatic Restart delay of 6-9 minutes after the cut-off along with Provision of quick start button for time delay bypass.
- 3.6** The output voltage should be stable and capable of operating continuously with respect to any change in ambient temperature within the operating temperature range and regulation should be automatic.
- 3.7** Automatic Line Voltage stabilizer(step type) Should equipped with
- a) Transformers copper wound on CRGO laminations, as per ISO specification for high efficiency and low loss.
  - b) Voltmeter(digital/analog)with selector switch to indicate input and output voltage with off-position.
- 3.8** The output side shall be provided With 'C' series MCB with braking current of 10KA duly ISI marked.
- 3.9** Provision for two output sockets of 15Amps ISI marked.
- 3.10** Details of transformer should be furnished ,such as rating, weight of winding and core, which should be verified during inspection.
- 3.11** A Metal Oxide Varistor (MOV) for surge suppression should be provided and connected directly on the power line.
- 3.12** LED indication should be provided for the status of "Mains ON", "Output ON", "High Cut off" & "Low Cut off".

**4.0 Environmental factors**

- 4.1** The unit shall be capable of operating continuously in ambient temperature of (-)20 deg.C to(+) 55 deg.C and relatively humidity of 15-95%
- 4.2** Outer cabinet should be CNC powder coated after proper antirust process

**5.0 Standards and safety**

- 5.1** Manufacture should submit the test certificate from test lab accredited by NABL for any model manufactured along with tender.
- 6.0 Documentation**
- 6.1** Certification of calibration and inspection from the factory at the time of pre- dispatch inspection and NABL certificate of specified model.
- 6.2** Operating and service Manuals to be supplied along with the supply of stabilizers to the consignee.
- 7.0 Warranty**
- 7.1** The warranty shall remain valid for two years from the date of final acceptance
- 7.2** The supplier shall replace defective stabilizer with a new one free of cost with in warranty period. The supplier may take over defective stabilizer after providing the replacement.

**Schedule No.2**

**AUTOMATIC VOLTAGE STABILIZERS**  
(Input Voltage Range-150 V-280 V)

**1. Description of Function**

- 1.1** Automatic regulation relay type voltage stabilizer will provide a preset AC Output 220V +/- 5 % for fluctuating AC input voltage.
- 1.2** It will be connected with Ice lined refrigerators and deep freezers used for storage of vaccines.

**2 Operational Requirement**

- 2.1** Should be able to provide stable AC power output for a wide range of fluctuations as per required output
- 2.2** The output capacity of the stabilizer should be 1KVA.

**3 Technical Specifications**

- 3.1** Should work for input voltage range of 150-280 volt AC, single phase, with Low Voltage Cut-Off when the input voltage falls below 150V +/- 5V & High Voltage Cut-Off when the input voltage goes beyond 280V +/- 5V.
- 3.2** Protection:-Over/Under Voltage, Over Load & Short Circuit.
- 3.3** Over load protection at input, automatic cut-off time—between 2-4 seconds of Under voltage/Over voltage cut off at output.
- 3.4** Maximum power loss due to leakage of current should be less than 2%
- 3.5** Restart delay of 6-9 minutes after the cut-off along with quick start button.
- 3.6** The output voltage should be stable and capable of operating continuously with respect to any change in ambient temperature and regulation should be automatic.
- 3.7** Automatic Line Voltage stabilizer(step type) Should equipped with
- a) Transformers copper wound on CRGO laminations, as per ISO specification for high efficiency and low loss.
- b) Voltmeter(digital/analog)with selector switch to indicate input and output voltage with off-position.

- 3.8** The output side shall be provided With ‘C’ series MCB with braking current of 10KA duly ISI marked.
- 3.9** Provision for two output sockets of 15Amps ISI marked.
- 3.10** Details of transformer should be furnished ,such as rating, weight of winding and core, which should be verified during inspection.
- 3.11** A Metal Oxide Varistor (MOV) for surge suppression should be provided and connected directly on the power line.
- 3.12** LED indication should be provided for the status of “Mains ON”, ”Output ON”, ”High Cut off” & “Low Cut off”.
- 4.0 Environmental factors**
- 4.1** The unit shall be capable of operating continuously in ambient temperature of (-)20 deg.C to(+) 55 deg.C and relatively humidity of 15-95%
- 4.2** The unit shall be capable of being stored continuously in ambient Temperature of (-)20deg.Cto(+)50deg.C and relatively humidity of 15-90%
- 4.3** Outer cabinet should be CNC powder coated after proper antirust process.
- 5.0 Standards and safety**
- 5.1** Manufacture should submit the test certificate from test lab accredited by NABL and submit the test certificate of any model manufactured along with tender.
- 6.0 Documentation**
- 6.1** Certification of calibration and inspection from the factory at the time of pre- dispatch inspection and NABL certificate of specified model.
- 6.2** Operating and service Manuals to be supplied along with the supply of stabilizers to the consignee.
- 7.0 Warranty**
- 7.1** The warranty shall remain valid for two years from the date of final acceptance
- 7.2** The supplier shall replace defective stabilizer with a new one free of cost with in warranty period. The supplier may take over defective stabilizer after providing the replacement.

**Schedule No. 3**

**ALCOHOL STEM THERMOMETER**

**Power source:**

None

**Temperature ranges & accuracy:**

Upper limit: +50°C

Lower limit: -30°C

Accuracy:  $\pm 1^\circ\text{C}$

**Scale markings:**

Easily readable with a minimum space of 1 mm between each line:

|                           |                           |
|---------------------------|---------------------------|
| Long lines (with numbers) | for each 10degrees        |
| Short lines               | for even numbered degrees |
| Shorter lines             | for odd numbered degrees  |

Safe zones for ranges of 0°C to +8°C and -15°C to -25°C to be marked with a green bar.

**Maximum relative humidity:**90%

**Casing specification:** Non-corrodible, sealed mechanism.

**Vibration test:** Product should stand 30 minutes on a programmable vibrating table without physical damage or calibration. Calibration certificate from NABL/STQC/WHO approved lab should be submitted along with bid and subsequently to be verified at the time of inspection.

**Construction:**

The glass column must be protected against break age and strongly supported so that:

- the column cannot be displaced more than 0.5mm vertically with respect to the scale;
- the reading angle is between 80/100° to plane of support plate.

**Mounting specification**

Hook to suspend from shelf, or adhesive.

Application and remarks:

Used inside refrigerators or freezers in small health centres. Can also be packed with vaccines during transport.

WHO Specification reference: E6/TH.3

Applies to procedures: E6/PROC/2

**Warranty**

The warranty shall remain valid for two years from the date of final acceptance

The supplier shall replace defective Thermometer with a new one free of cost with in warranty period.

The supplier may take over defective thermometer after providing the replacement.

**Schedule No. 4**

**Ice Line Refrigerator- ILR (Large)**

**1. Description of Function:**

1.1 Ice-lined refrigerators maintain temperatures of +2°C to +8°C. Not more than 8 hrs continuous or intermittent power should be sufficient per 24 hrs. to maintain vaccine temperature below 8 deg. C.

1.2 Ice-lined refrigerators are required at district and regional levels, since electricity supplies are rarely perfect and standby electricity supplies may not be available.

**2 Operational Requirements:**

- 2.1 Vaccine storage is required for RI, Campaign and new vaccine introduction.
- 2.2 Designed for tropical climates.
- 2.3 Target holdover time should be 20 hrs or more in a continuous external temperature of 43 deg C.
- 2.4 Hot and cold compressor starting at 172 volts (22% below rated voltage).
- 2.5 Manufacturing process of the product should not use or produce hazardous chemicals-gases.
- 2.6 Provision for drainage for the waste water.
- 2.7 Should have legs in the base with rotating screw type height adjustments to balance the weight on uneven floor.
- 2.8 The unit should have ground clearance of minimum 100 mm.

### **3 Technical Specifications:**

- 3.1 Net Vaccine Storage Capacity: 135 to 160 liters within basket in place.
- 3.2 Construction:
  - 3.2.1 Internal: Stainless 304 grade steel.
  - 3.2.2 An additional special ice lining consisting of icepacks covered by strong plastic shell.
- 3.3 External: Corrosion Resistance
- 3.4 Chest type with CFC – free insulation
- 3.5 Should have horizontal water cool pack covering the top of the basket.
- 3.6 Solid door with lock and handle
- 3.7 Type: Compression Cycled, CFC-Free (both for refrigeration and insulation) All system tubing (suction tube, freezer tube and condensing tube) should be of minimum 99.97% of pure copper coil.
- 3.8 Temperature of a full vaccines to remain +2 deg C to +8 deg C during continuous availability of energy at ambient temperature +5 to +45 deg. C with intermittent/ continuous electricity supply 8 hrs in a 24 hrs cycle. The temperature difference between any two points in the cabinet should not be more than +2 deg. C once stabilized.
- 3.9 Inlet of Capillary should be outside the PUF body.
- 3.10 ON/OFF Switch and power indicator should be available
- 3.11 A Micro processor based control unit should be provided for setting of temperature and display following features:
  - 3.11.1 3 digit digital display (to one decimal point) of cabinet temperature. The sensor should be placed 25 to 50 mm above base of storage chamber.
  - 3.11.2 Power on LED/LCD indicator
  - 3.11.3 Audio (minimum 65 dBA) and visual alarm against the violation of temperature range (less than +2 and more than +8 degree C)
  - 3.11.4 Min. & Max. cabinet temperature digital display of last 24 hrs. and breaches during last 24 hrs.
  - 3.11.5 The unit should be sealed/protected from dust, moisture or condensed water falling over it.
- 3.12 Accuracy for digital controller +/- 0.5 degree centigrade.

### **4 System Configuration**

- 4.1 Programmable Micro-processor control unit with child lock facility.
- 4.2 Should have provision to set minimum and maximum temperature at 0.1 degree Centigrade to programme the unit for continuous operation.
- 4.3 Should have provision for defrosting program.

### **5 Accessories, spares and warrantee:**

- 5.1 The equipment should have minimum warrantee including comprehensive maintenance of sixty months after installation or sixty six months after the supply whichever is later.



- 5.2 Vaccine Storage Basket allowing free circulation of air, having the size to be able to accommodate 4 to 6 of them in the unit and suitable to match the net volume requirement. It should be minimum 5 wire basket.
- 5.3 Stem Alcohol thermometer (specifications and standard as per MOHFW approved **Annexure-1**) - one piece per unit range of -30 to +50 degree centigrade.
- 5.4 The supplier is required to maintain all the spare parts throughout the warrantee period and not less than ten years.

**6 Environmental factors:**

- 6.1 The unit shall be capable of being stored continuously in ambient temperature of 0 to 50deg C and relative humidity of 95%
- 6.2 The unit shall be capable of operating continuously in ambient temperature of 5 to 45 deg C and relative humidity of 90%
- 6.3 The plug should be flexible and unbreakable sealed rubber type.

**7 Power Supply:**

- 7.1 Power input to be 220-240VAC, 50Hz as appropriate fitted with Indian plug
- 7.2 Voltage stabilizer as per the MOHFW approved specifications and standard enclosed as **Annexure-2**

**8 Standards and Safety**

- 8.1 Product should be FDA or CE approved.
- 8.2 Should meet WHO/UNICEF Standard WHO/PQS/E03/RF03.1.for Ice Lined Refrigerators
- 8.3 Test and inspection as per WHO procedure reference WHO/PQS/E03/RF03-VP.1 Testing should be carried out from WHO certified lab/NABL/ILAC/STQC Labs. Certificate of testing should be currently valid till the supply and same must be verified by inspecting authority.
- 8.4 Colour code : WHITE

**9 Documentation:**

- 9.1 A paper copy of user/operator manuals to be supplied in English.
- 9.2 A paper copy of technical/wiring diagram/maintenance manuals to be supplied in English.
- 9.3 Certificate of inspection for technical compliance from an independent laboratory approved /recognized by WHO certified /National Accreditation Board for laboratories/ILAC/STQC Labs is essential.
- 9.4 List of important spare parts and accessories with their part number and costing.

**10 Packing of the equipment during shipment:**

- 10.1 The supplier should provide strong and sufficient packing to ensure safe arrival of goods at the destination free from loss or damage.
- 10.2 A vertical arrow should be marked at the all sides of packages to ensure transportation of equipment in vertical position. TOP and BOTTOM should also be written.
- 10.3 To put label and signage's for HANDLE WITH CARE ON ALL SIDES OF THE CRATES as per packing & shipment norms.

**11. Following messages should be written at the Top of the ILR**

- 11.1 Place refrigerator at least 10 cms away from the wall and 20 cms away from other equipment for free air circulation.
- 11.2 Use voltage stabilizer provided for the ILR
- 11.3 Safe temperature range +2 to +8°C
- 11.4 Store all UIP vaccines in ILR at CHC/PHC (OPV should be stored in deep freezer at State/Regional and district vaccine store)
- 11.5

- 11.6 Open the lid, only when needed
- 11.7 Store only UIP vaccines (at PHCs store vaccines and diluents).
- 11.8 Keep all vaccine in wire baskets provided.
- 11.9 Leave space between the vaccine boxes for air circulation.
- 11.10 Place a thermometer in the basket in between the vaccines.
- 11.11 Keep freeze sensitive and closer expiry vaccines at TOP of the basket
- 11.12 Keep heat sensitive and further expiry date vaccines in the bottom of basket.
- 11.13 Avoid removing thermometer from the unit while reading temperature.
- 11.14 Net vaccine storage capacity in Litres
- 11.15 Hold over time in hrs

**ANNEXURE-1**

**ALCOHOL STEM THERMOMETER**

**Power source:**

None

**Temperature ranges&accuracy:**

Upper limit: +50°C

Lower limit: -30°C

Accuracy: ±1°C

**Scale markings:**

Easily readable with a minimum space of 1 mm between each line:

|                           |                           |
|---------------------------|---------------------------|
| Long lines (with numbers) | for each 10degrees        |
| Short lines               | for even numbered degrees |
| Shorter lines             | for odd numbered degrees  |

Safe zones for ranges of 0°C to +8°C and -15°C to -25°C to be marked with a green bar.

**Maximum relative humidity:**90%

**Casing specification:** Non-corrodible, sealed mechanism.

**Vibration test:** Product should stand 30 minutes on a programable vibrating table without physical damage or calibration. Calibration certificate from NABL/STQC/WHO approved lab should be submitted along with bid and subsequently to be verified at the time of inspection.

**Construction:**

The glass column must be protected against break age and strongly supported so that:

- the column cannot be displaced more than 0.5mm vertically with respect to the scale;
- the reading angle is between 80/100° to plane of support plate.

**Mounting specification**

Hook to suspend from shelf, or adhesive. Application and remarks:

Used inside refrigerators or freezers in small health centres. Can also be packed with vaccines during transport.

WHO Specification reference: E6/TH.3

Applies to procedures:E6/PROC/2

## **Warranty**

The warranty shall remain valid for two years from the date of final acceptance

The supplier shall replace defective thermometer with a new one free of cost with in warranty period.  
The supplier may take over defective thermometer after providing the replacement.

## **ANNEXURE-2**

### **AUTOMATIC VOLTAGE STABILIZERS** (Input Voltage Range-150 V-280 V)

#### **1.Description of Function**

- 1.1** Automatic regulation relay type voltage stabilizer will provide a preset AC Output 220V +/- 5 % for fluctuating AC input voltage.
- 1.2** It will be connected with Ice lined refrigerators and deep freezers used for storage of vaccines.

#### **2.Operational Requirement**

- 2.1** Should be able to provide stable AC power output for a wide range of fluctuations as per required output
- 2.2** The output capacity of the stabilizer should be 1KVA.

#### **3. Technical Specifications**

- 3.1** Should work for input voltage range of 150-280 volt AC, single phase, with Low Voltage Cut-Off when the input voltage falls below 150V +/- 5V & High Voltage Cut-Off when the input voltage goes beyond 280V +/- 5V.
- 3.2** Protection:-Over/Under Voltage, Over Load & Short Circuit.
- 3.3** Over load protection at input, automatic cut-off time—between 2-4 seconds of Under voltage/Over voltage cut off at output.
- 3.4** Maximum power loss due to leakage of current should be less than 2%
- 3.5** Restart delay of 6-9 minutes after the cut-off along with quick start button.
- 3.6** The output voltage should be stable and capable of operating continuously with respect to any change in ambient temperature and regulation should be automatic.
- 3.7** Automatic Line Voltage stabilizer(step type) Should equipped with
  - a) Transformers copper wound on CRGO laminations, as per ISO specification for high efficiency and low loss.
  - b) Voltmeter(digital/analog)with selector switch to indicate input and output voltage with off-position.
- 3.8** The output side shall be provided With 'C' series MCB with braking current of 10KA duly ISI marked.
- 3.9** Provision for two output sockets of 15Amps ISI marked.
- 3.10** Details of transformer should be furnished ,such as rating, weight of winding and core, which should be verified during inspection.

- 3.11 A Metal Oxide Varistor (MOV) for surge suppression should be provided and connected directly on the power line.
- 3.12 LED indication should be provided for the status of "Mains ON", "Output ON", "High Cut off" & "Low Cut off".

#### **4.0 Environmental factors**

- 4.1 The unit shall be capable of operating continuously in ambient temperature of (-)20 deg.C to(+) 50deg.C and relatively humidity of 15-90%
- 4.2 The unit shall be capable of being stored continuously in ambient Temperature of (-)20deg.C to(+)50deg.C and relatively humidity of 15-90%
- 4.3 Outer cabinet should be CNC powder coated after proper anti rust process.

#### **5.0 Standards and safety**

- 5.1 Manufacture should submit the test certificate from test lab accredited by NABL and submit the test certificate of any model manufactured along with tender.

#### **6.0 Documentation**

- 6.1 Certification of calibration and inspection from the factory at the time of pre- dispatch inspection and NABL certificate of specified model.
- 6.2 Operating and Service Manuals to be supplied along with the supply of stabilizers to the consignee.

#### **7.0 Warranty**

- 7.1 The warranty shall remain valid for two years from the date of final acceptance
- 7.2 The supplier shall replace defective stabilizer with a new one free of cost with in warranty period. The supplier may take over defective stabilizer after providing the replacement.

### **Schedule No.5**

#### **Ice Line Refrigerator- ILR (small)**

##### **1. Description of Function:**

- 1.1 Ice-lined refrigerators maintain temperatures of +2°C to +8°C. Not more than 8 hrs continuous or intermittent power should be sufficient per 24 hrs. to maintain vaccine temperature below 8 deg. C.
- 1.2 Ice-lined refrigerators are required at district, regional and PHC levels, since electricity supplies are rarely perfect and standby electricity supplies may not be available.

##### **2. Operational Requirements:**

- 2.1 Vaccine storage is required for RI, Campaign and new vaccine introduction.
- 2.2 Designed for tropical climates.
- 2.3 Target holdover time should be 20 hrs or more in a continuous external temperature of 43 deg C.
- 2.4 Hot and cold compressor starting at 172 volts (22% below rated voltage).
- 2.5 Manufacturing process of the product should not use or produce hazardous chemicals-gases.
- 2.6 Provision for drainage for the waste water.
- 2.7 Should have legs in the base with rotating screw type height adjustments to balance the weight on uneven floor.
- 2.8 The unit should have ground clearance of minimum 100 mm.

**3. Technical Specifications:**

- 3.1 Net Vaccine Storage Capacity: 90 to 105 liters within basket in place.
- 3.2 Construction:
  - 3.2.1 Internal: Stainless 304 grade steel
  - 3.2.2 An additional special ice lining consisting of icepacks covered by strong plastic shell.
- 3.3 External: Corrosion Resistance
- 3.4 Chest type with CFC – free insulation
- 3.5 Should have horizontal water cool pack covering the top of the basket.
- 3.6 Solid door with lock and handle
- 3.7 Type: Compression Cycled, CFC-Free (both for refrigeration and insulation) All system tubing (suction tube, freezer tube and condensing tube) should be of minimum 99.97% of pure copper coil.
- 3.8 Temperature of a full vaccines to remain +2 deg C to +8 deg C during continuous availability of energy at ambient temperature +5 to +45 deg. C with intermittent/ continuous electricity supply 8 hrs in a 24 hrs cycle. The temperature difference between any two points in the cabinet should not be more than +2 deg.C once stabilized.
- 3.9 Inlet of Capillary should be outside the PUF body.
- 3.10 ON/OFF Switch and power indicator should be available
- 3.11 A Micro-processor based control unit should be provided for setting of temperature and display following features:
  - 3.11.1 3 digit digital display (to one decimal point) of cabinet temperature. The sensor should be placed 25 to 50 mm above base of storage chamber.
  - 3.11.2 Power on LED/LCD indicator
  - 3.11.3 Audio (minimum 65 dBA) and visual alarm against the violation of temperature range (less than +2 and more than +8 degree C)
  - 3.11.4 Min. & Max. cabinet temperature digital display of last 24 hrs. and breaches during last 24 hrs.
  - 3.11.5 The unit should be sealed protected from dust, moisture or condensed water falling over it.
- 3.12 Accuracy for digital controller +/- 0.5 degree centigrade.

**4. System Configuration**

- 4.1 Programmable Micro-processor control unit with child lock facility.
- 4.2 Should have provision to set minimum and maximum temperature at 0.1 degree Centigrade to programme the unit for continuous operation.
- 4.3 Should have provision for defrosting program.

**5. Accessories, spares and warrantee:**

- 5.1 The equipment should have minimum warrantee including comprehensive maintenance of sixty months after installation or sixty six months after the supply whichever is later.
- 5.2 Vaccine Storage Basket allowing free circulation of air, having the size to be able to accommodate 4 to 6 of them in the unit and suitable to match the net volume requirement. It should be minimum 5 wire basket.
- 5.3 Stem Alcohol thermometer (specifications and standard as per MOHFW approved **Annexure-1**) - one piece per unit range of -30 to +50 degree centigrade.
- 5.4 The supplier is required to maintain all the spare parts throughout the warrantee period and not less than ten years.

**6. Environmental factors:**

- 6.1 The unit shall be capable of being stored continuously in ambient temperature of 0 to 50deg C and relative humidity of 95%
- 6.2 The unit shall be capable of operating continuously in ambient temperature of 5 to 45 deg C and relative humidity of 90%

6.3 The plug should be flexible and unbreakable sealed rubber type.

**7. Power Supply:**

7.1 Power input to be 220-240VAC, 50Hz as appropriate fitted with Indian plug

7.2 Voltage stabilizer as per the MOHFW approved specifications and standard enclosed as **Annexure-2**

**8. Standards and Safety**

8.1 Product should be FDA or CE approved.

8.2 Should meet WHO/UNICEF Standard WHO/PQS/E03/RF03.1.for Ice Lined Refrigerators.

8.3 Test and inspection as per WHO procedure reference WHO/PQS/E03/RF03-VP.1 Testing should be carried out from WHO certified lab/NABL/ILAC/STQC Labs.

8.4 Colour code : WHITE

**9. Documentation:**

9.1 A paper copy of user/operator manuals to be supplied in English.

9.2 A paper copy of technical/wiring diagram/maintenance manuals to be supplied in English.

9.3 Certificate of inspection for technical compliance from an independent laboratory approved /recognized by WHO certified /National Accreditation Board for laboratories/ILAC/STQC Labs is essential. Certificate of testing should be currently valid till the supply and same must be verified by inspecting authority.

9.4 List of important spare parts and accessories with their part number and costing.

**10. Packing of the equipment during shipment:**

10.1 The supplier should provide strong and sufficient packing to ensure safe arrival of goods at the destination free from loss or damage.

10.2 A vertical arrow should be marked at the all sides of packages to ensure transportation of equipment in vertical position. TOP and BOTTOM should also be written.

10.3 To put label and signage's for HANDLE WITH CARE ON ALL SIDES OF THE CRATES as per packing & shipment norms.

**11. Following messages should be written at the Top of the ILR**

11.1 Place refrigerator at least 10 cms away from the wall and 20 cms away from other equipment for free air circulation.

11.2 Use voltage stabilizer provided with the ILR

11.3 Safe temperature range +2 to +8°C

11.4 Store all UIP vaccines in ILR at CHC/PHC (OPV should be stored in deep freezer at State/Regional and district vaccine store)

11.5 Open the lid, only when needed

11.6 Store only UIP vaccines (at PHCs store vaccines and diluents).

11.7 Keep all vaccine in wire baskets provided.

11.8 Leave space between the vaccine boxes for air circulation.

11.9 Place a thermometer in the basket in between the vaccines.

11.10 Keep freeze sensitive and closer expiry vaccines at TOP of the basket

11.11 Keep heat sensitive and further expiry date vaccines in the bottom of basket.

11.12 Avoid removing thermometer from the unit while reading temperature.

11.13 Net vaccine storage capacity in Litres

11.14 Hold over time in hrs.

**ALCOHOL STEM THERMOMETER****Power source:**

None

**Temperature ranges&accuracy:**

Upper limit: +50°C

Lower limit: -30°C

Accuracy: ±1°C

**Scale markings:**

Easily readable with a minimum space of 1 mm between each line:

|                           |                           |
|---------------------------|---------------------------|
| Long lines (with numbers) | for each 10degrees        |
| Short lines               | for even numbered degrees |
| Shorter lines             | for odd numbered degrees  |

Safe zones for ranges of 0°C to +8°C and -15°C to -25°C to be marked with a green bar.

**Maximum relative humidity:**90%**Casing specification:** Non-corrodible, sealed mechanism.**Vibration test:** Product should stand 30 minutes on a programable vibrating table without physical damage or calibration. Calibration certificate from NABL/STQC/WHO approved lab should be submitted along with bid and subsequently to be verified at the time of inspection.**Construction:**

The glass column must be protected against break age and strongly supported so that:

- the column cannot be displaced more than 0.5mm vertically with respect to the scale;
- the reading angle is between 80/100° to plane of support plate.

**Mounting specification**

Hook to suspend from shelf, or adhesive.

Application and remarks:

Used inside refrigerators or freezers in small health centres.Can also be packed with vaccines during transport.

WHO Specification reference: E6/TH.3

Applies to procedures:E6/PROC/2

**Warranty**

The warranty shall remain valid for two years from the date of final acceptance  
The supplier shall replace defective thermometer with a new one free of cost with in warranty period.  
The supplier may take over defective thermometer after providing the replacement.

## AUTOMATIC VOLTAGE STABILIZERS (Input Voltage Range-150 V-280 V)

### 1. Description of Function

- 1.1** Automatic regulation relay type voltage stabilizer will provide a preset AC Output 220V +/- 5 % for fluctuating AC input voltage.
- 1.2** It will be connected with Ice lined refrigerators and deep freezers used for storage of vaccines.

### 2. Operational Requirement

- 2.1** Should be able to provide stable AC power output for a wide range of fluctuations as per required output
- 2.2** The output capacity of the stabilizer should be 1KVA.

### 3. Technical Specifications

- 3.1** Should work for input voltage range of 150-280 volt AC, single phase, with Low Voltage Cut-Off when the input voltage falls below 150V +/- 5V & High Voltage Cut-Off when the input voltage goes beyond 280V +/- 5V.
- 3.2** Protection:-Over/Under Voltage, Over Load & Short Circuit.
- 3.3** Over load protection at input, automatic cut-off time—between 2-4 seconds of Under voltage/Over voltage cut off at output.
- 3.4** Maximum power loss due to leakage of current should be less than 2%
- 3.5** Restart delay of 6-9 minutes after the cut-off along with quick start button.
- 3.6** The output voltage should be stable and capable of operating continuously with respect to any change in ambient temperature and regulation should be automatic.
- 3.7** Automatic Line Voltage stabilizer(step type) Should equipped with  
a) Transformers copper wound on CRGO laminations, as per ISO specification for high efficiency and low loss.  
b) Voltmeter(digital/analog)with selector switch to indicate input and output voltage with off-position.
- 3.8** The output side shall be provided With 'C' series MCB with braking current of 10KA duly ISI marked.
- 3.9** Provision for two output sockets of 15Amps ISI marked.
- 3.10** Details of transformer should be furnished ,such as rating, weight of winding and core, which should be verified during inspection.
- 3.11** A Metal Oxide Varistor (MOV) for surge suppression should be provided and connected directly on the power line.
- 3.12** LED indication should be provided for the status of "Mains ON", "Output ON", "High Cut off" & "Low Cut off".

### 4.0 Environmental factors

- 4.1** The unit shall be capable of operating continuously in ambient temperature of (-)20 deg.C to(+) 50deg.C and relatively humidity of 15-90%
- 4.2** The unit shall be capable of being stored continuously in ambient Temperature of (-)20deg.C to(+)50deg.C and relatively humidity of 15-90%



4.3 Outer cabinet should be CNC Powder coated after proper anti rust process.

**5.0 Standards and safety**

5.1 Manufacture should submit the test certificate from test lab accredited by NABL and submit the test certificate of any model manufactured along with tender.

**6.0 Documentation**

6.1 Certification of calibration and inspection from the factory at the time of pre- dispatch inspection and NABL certificate of specified model.

6.2 Operating & Service Manuals to be supplied along with the supply of stabilizers to the consignee.

**7.0 Warranty**

7.1 The warranty shall remain valid for two years from the date of final acceptance

7.2 The supplier shall replace defective stabilizer with a new one free of cost with in warranty period. The supplier may take over defective stabilizer after providing the replacement.

**Schedule No.6**  
**Deep freezer (Large)**

**1. Description of Function:**

- 1.1. Deep freezers maintain temperatures (-) 25°C to (-) 15°C, to store vaccines and/or freeze ice packs .
- 1.2. Deep Freezers are required at district and regional levels, to store vaccine and prepare ice packs required for passive cooling in vaccines carriers and cold boxes.

**2. Operational Requirements:**

- 2.1. Designed for tropical climates.
- 2.2. Target holdover time should be not less than 2hrs and 30 minutes.
- 2.3. Hot and cold compressor starting at 172 volts (22% below rated voltage).
- 2.4. Manufacturing process of the product should not use or produce hazardous chemicals-gases.
- 2.5. Provision for drainage for the waste water.
- 2.6. Should have legs in the base with rotating screw type height adjustments to balance the weight on uneven floor.
- 2.7. The unit should have ground clearance minimum 100 mm.

**3. Technical Specifications:**

- 3.1. Gross Volume: 275 to 300 liters.
- 3.2. Construction:
  - 3.2.1. Internal: Stainless 304 grade steel.
  - 3.2.2. External: Corrosion Resistance
  - 3.2.3. Chest type with CFC – free insulation
  - 3.2.4. Should have foam pad cover on top of the basket.
  - 3.2.5. Solid door with lock and handle
  - 3.2.6. Type: Compression Cycled, CFC-Free (both for refrigeration and insulation) All system tubing (suction tube, freezer tube and condensing tube) should be of minimum 99.97% of pure copper coil.
  - 3.2.7. Temperature of compartment to be maintained between (-) 25deg C to (-) 15deg C continuous availability of energy at ambient temperature 5 to 45 deg. C .
  - 3.2.8. Inlet of Capillary should be outside the PUF body.
- 3.3. ON/OFF Switch and power indicator should be available
- 3.4. A Micro-processor based control unit should be provided for setting of temperature and display following features:

3.4.1.3 digit digital display (to one decimal point) of cabinet temperature. The sensor should be placed 25 to 50 mm above base of chamber.

3.4.2. Power indicator

3.4.3. Audio (minimum 65 dBA) and visual alarm against the violation of set temperature range.

3.4.4. Min. & Max. cabinet temperature digital display of last 24 hrs. and breaches during last 24 hrs.

3.4.5. The unit should be sealed protected from dust, moisture or condensed water falling over it.

3.4.6. Accuracy for digital controller  $\pm 0.5$  degree centigrade.

**4. System Configuration**

4.1. Programmable Micro-processor control unit with child lock facility.

4.2. Should have provision to set minimum and maximum temperature at 0.1 degree Centigrade to programme the unit for continuous operation.

4.3. Should have provision for defrosting program.

**5. Accessories, spares and warrantee:**

5.1. The equipment should have minimum warrantee including comprehensive maintenance of sixty months after installation or sixty six months after the supply whichever is later.

5.2. Vaccine Storage Basket allowing free circulation of air, having the size to be able to accommodate 4 to 6 of them in the unit and suitable to match the net volume requirement. It should be minimum 5 wire basket.

5.3. Stem Alcohol thermometer (specifications and standard as per MOHFW approved **Annexure-1**) - one piece per unit range of -30 to +50 degree centigrade.

5.4. The supplier is required to maintain all the spare parts throughout the warrantee period and not less than ten years.

**6. Environmental factors:**

6.1. The unit shall be capable of being stored continuously in ambient temperature of 0 to 50deg C and relative humidity of 95%

6.2. The unit shall be capable of operating continuously in ambient temperature of 5 to 45 deg C and relative humidity of 90%

6.3. The plug should be flexible and unbreakable sealed rubber type.

**7. Power Supply:**

7.1. Power input to be 220-240VAC, 50Hz as appropriate fitted with Indian plug

7.2. Voltage stabilizer as per the MOHFW approved specifications and standard enclosed as **Annexure-2**

**8. Standards and Safety**

8.1. Product should be FDA or CE approved.

8.2. Should meet WHO/UNICEF Standard WHO/PQS/E03/FZ01.for Deep freezers.

8.3. Test and inspection as per WHO procedure reference WHO/PQS/E03/FZ01-VP.2 Testing should be carried out from WHO certified lab/NABL/ILAC/STQC Labs.

8.4. Colour code : Blue

**9. Documentation:**

9.1. A paper copy of user/operator manuals to be supplied in English.

9.2. A paper copy of technical/wiring diagram/maintenance manuals to be supplied in English.

9.3. Certificate of inspection for technical compliance from an independent laboratory approved /recognized by WHO certified /National Accreditation Board for laboratories/ILAC/STQC Labs is essential. Certificate of testing should be currently valid till the supply and same must be verified by inspecting authority.

9.4. List of important spare parts and accessories with their part number and costing.

**10. Packing of the equipment during shipment:**

10.1. The supplier should provide strong and sufficient packing to ensure safe arrival of goods at the destination free from loss or damage.

10.2. A vertical arrow should be marked at the all sides of packages to ensure transportation of equipment in vertical position. TOP and BOTTOM should also be written.

- 10.3.** To put label and signage's for HANDLE WITH CARE ON ALL SIDES OF THE CRATES as per packing & shipment norms.

**11. Following messages should be written at the Top of the DEEP FREEZER**

- 11.1.** Place Freezer at least 10 cms away from the wall and 20 cms away from other equipment for free air circulation.
- 11.2.** Use voltage stabilizer provided for the DEEP FREEZER
- 11.3.** Safe temperature range (-)15 to (-)25°C
- 11.4.** At CHC/PHC use deep freezer for freezing of ice packs only
- 11.5.** Open the lid, only when needed
- 11.6.** Store only Polio vaccines at Regional/District store.
- 11.7.** Keep all vaccine in wire baskets provided.
- 11.8.** Leave space between the vaccine boxes and ice packs for air circulation.
- 11.9.** Place a thermometer at the place provided for.
- 11.10.** Avoid removing thermometer from the unit while reading temperature.
- 11.11.** Net vaccine storage capacity in Litres
- 11.12.** Hold over time in hrs.

**ANNEXURE-1**

**ALCOHOL STEM THERMOMETER**

**Power source:**

None

**Temperature ranges&accuracy:**

Upper limit: +50°C

Lower limit: -30°C

Accuracy: ±1°C

**Scale markings:**

Easily readable with a minimum space of 1 mm between each line:

|                           |                           |
|---------------------------|---------------------------|
| Long lines (with numbers) | for each 10degrees        |
| Short lines               | for even numbered degrees |
| Shorter lines             | for odd numbered degrees  |

Safe zones for ranges of 0°C to +8°C and -15°C to -25°C to be marked with a green bar.

**Maximum relative humidity:**90%

**Casing specification:** Non-corrodible, sealed mechanism.

**Vibration test:** Product should stand 30 minutes on a programable vibrating table without physical damage or calibration. Calibration certificate from NABL/STQC/WHO approved lab should be submitted along with bid and subsequently to be verified at the time of inspection.

**Construction:**

The glass column must be protected against break age and strongly supported so that:

- the column cannot be displaced more than 0.5mm vertically with respect to the scale;
- the reading angle is between 80/100° to plane of support plate.

**Mounting specification**

Hook to suspend from shelf, or adhesive.

Application and remarks:

Used inside refrigerators or freezers in small health centres. Can also be packed with vaccines during transport.

WHO Specification reference: E6/TH.3

Applies to procedures: E6/PROC/2

**Warranty**

- 7.1 The warranty shall remain valid for two years from the date of final acceptance
- 7.2 The supplier shall replace defective thermometer with a new one free of cost within warranty period. The supplier may take over defective thermometer after providing the replacement.

**ANNEXURE-2**

**AUTOMATIC VOLTAGE STABILIZERS**

(Input Voltage Range-150 V-280 V)

**1. Description of Function**

- 1.1 Automatic regulation relay type voltage stabilizer will provide a preset AC Output 220V +/- 5 % for fluctuating AC input voltage.
- 1.2 It will be connected with Ice lined refrigerators and deep freezers used for storage of vaccines.

**2. Operational Requirement**

- 2.1 Should be able to provide stable AC power output for a wide range of fluctuations as per required output
- 2.2 The output capacity of the stabilizer should be 1KVA.

**3. Technical Specifications**

- 3.1 Should work for input voltage range of 150-280 volt AC, single phase, with Low Voltage Cut-Off when the input voltage falls below 150V +/- 5V & High Voltage Cut-Off when the input voltage goes beyond 280V +/- 5V.
- 3.2 Protection: -Over/Under Voltage, Over Load & Short Circuit.
- 3.3 Over load protection at input, automatic cut-off time—between 2-4 seconds of Under voltage/Over voltage cut off at output.
- 3.4 Maximum power loss due to leakage of current should be less than 2%
- 3.5 Restart delay of 6-9 minutes after the cut-off along with quick start button.
- 3.6 The output voltage should be stable and capable of operating continuously with respect to any change in ambient temperature and regulation should be automatic.

- 3.7 Automatic Line Voltage stabilizer(step type) Should equipped with
  - a) Transformers copper wound on CRGO laminations, as per ISO specification for high efficiency and low loss.
  - b) Voltmeter(digital/analog)with selector switch to indicate input and output voltage with off-position.
- 3.8 The output side shall be provided With ‘C’ series MCB with braking current of 10KA duly ISI marked.
- 3.9 Provision for two output sockets of 15Amps ISI marked.
- 3.10 Details of transformer should be furnished ,such as rating, weight of winding and core, which should be verified during inspection.
- 3.11 A Metal Oxide Varistor (MOV) for surge suppression should be provided and connected directly on the power line.
- 3.12 LED indication should be provided for the status of “Mains ON”, ”Output ON”, ”High Cut off” & “Low Cut off”.

#### **4.0 Environmental factors**

- 4.1 The unit shall be capable of operating continuously in ambient temperature of (-)20 deg.C to(+) 50deg.C and relatively humidity of 15-90%
- 4.2 The unit shall be capable of being stored continuously in ambient Temperature of (-)20deg.Cto(+)50deg.C and relatively humidity of 15-90%
- 4.3 Outer cabinet should be CNC Powder coated after proper anti rust process.

#### **5.0 Standards and safety**

- 5.1 Manufacture should submit the test certificate from test lab accredited by NABL and submit the test certificate of any model manufactured along with tender.

#### **6.0 Documentation**

- 6.1 Certification of calibration and inspection from the factory at the time of pre- dispatch inspection and NABL certificate of specified model.
- 6.2 Operating & Service Manuals to be supplied along with the supply of stabilizers to the consignee.

#### **7.0 Warranty**

- 7.1 The warranty shall remain valid for two years from the date of final acceptance
- 7.2 The supplier shall replace defective stabilizer with a new one free of cost with in warranty period. The supplier may take over defective stabilizer after providing the replacement.

### **Schedule No.7**

#### **Deep freezer (small)**

##### **1. Description of Function:**

- 1.1. Deep freezers maintain temperatures (-) 25°C to (-) 15°C, to store vaccines and freeze ice packs .
- 1.2. Deep Freezers are required at district, regional and PHC levels, to store vaccine and prepare ice packs required for passive cooling in vaccines carriers and cold boxes.

##### **2. Operational Requirements:**

- 2.1. Designed for tropical climates.
- 2.2. Target holdover time should be not less than 2hrs and 30 minutes.

- 
- 2.3. Hot and cold compressor starting at 172 volts (22% below rated voltage).
  - 2.4. Manufacturing process of the product should not use or produce hazardous chemicals-gases.
  - 2.5. Provision for drainage for the waste water.
  - 2.6. Should have legs in the base with rotating screw type height adjustments to balance the weight on uneven floor.
  - 2.7. The unit should have ground clearance minimum 100 mm.
  3. **Technical Specifications:**
    - 3.1. Gross Volume: 105 to 125 liters.
    - 3.2. Construction:
      - 3.2.1. Internal: Stainless 304 grade steel
    - 3.3. External: Corrosion Resistance
    - 3.4. Chest type with CFC – free insulation
    - 3.5. Should have foam pad cover on top of the basket.
    - 3.6. Solid door with lock and handle
    - 3.7. Type: Compression Cycled, CFC-Free (both for refrigeration and insulation) All system tubing (suction tube, freezer tube and condensing tube) should be of minimum 99.97% of pure copper coil.
    - 3.8. Temperature of compartment to be maintained between (-) 25deg C to (-) 15deg C continuous availability of energy at ambient temperature 5 to 45 deg. C .
    - 3.9. Inlet of Capillary should be outside the PUF body.
    - 3.10. ON/OFF Switch and power indicator should be available
    - 3.11. A Micro-processor based control unit should be provided for setting of temperature and display following features:
      - 3.11.1. 3 digit digital display (to one decimal point) of cabinet temperature. The sensor should be placed 25 to 50 mm above base of chamber.
      - 3.11.2. Power indicator
      - 3.11.3. Audio (minimum 65 dBA) and visual alarm against the violation of set temperature range.
      - 3.11.4. Min. & Max. cabinet temperature digital display of last 24 hrs. and breaches during last 24 hrs.
      - 3.11.5. Temperature manual control with one decimal deg. scale.
      - 3.11.6. The unit should be sealed protected from dust, moisture or condensed water falling over it.
    - 3.12. Accuracy for digital controller +/- 0.5 degree centigrade.
  4. **System Configuration**
    - 4.1. Programmable Micro-processor control unit with child lock facility.
    - 4.2. Should have provision to set minimum and maximum temperature at 0.1 degree Centigrade to programme the unit for continuous operation.
    - 4.3. Should have provision for defrosting program.
  5. **Accessories, spares and warrantee:**
    - 5.1. The equipment should have minimum warrantee including comprehensive maintenance of sixty months after installation or sixty six months after the supply whichever is later.
    - 5.2. Vaccine Storage Basket allowing free circulation of air, having the size to be able to accommodate 4 to 6 of them in the unit and suitable to match the net volume requirement. It should be minimum 5 wire basket.
    - 5.3. Stem Alcohol thermometer (specifications and standard as per MOHFW approved **Annexure-1**) - one piece per unit range of -30 to +50 degree centigrade.
    - 5.4. The supplier is required to maintain all the spare parts throughout the warrantee period and not less than ten years.
  6. **Environmental factors:**
    - 6.1. The unit shall be capable of being stored continuously in ambient temperature of 0 to 50deg C and relative humidity of 95%
    - 6.2. The unit shall be capable of operating continuously in ambient temperature of 5 to 45 deg C and relative humidity of 90%
    - 6.3. The plug should be flexible and unbreakable sealed rubber type.
-

**7. Power Supply:**

7.1. Power input to be 220-240VAC, 50Hz as appropriate fitted with Indian plug

7.2. Voltage stabilizer as per the MOHFW approved specifications and standard enclosed as **Annexure-2**

**8. Standards and Safety**

8.1. Product should be FDA or CE approved.

8.2. Should meet WHO/UNICEF Standard WHO/PQS/E03/FZ01.for Deep freezers.

8.3. Test and inspection as per WHO procedure reference WHO/PQS/E03/FZ01-VP.2 Testing should be carried out from WHO certified lab/NABL/ILAC/STQC Labs.

8.4. Colour code : Blue

**9. Documentation:**

9.1. A paper copy of user/operator manuals to be supplied in English.

9.2. A paper copy of technical/wiring diagram/maintenance manuals to be supplied in English.

9.3. Certificate of inspection for technical compliance from an independent laboratory approved /recognized by WHO certified /National Accreditation Board for laboratories/ILAC/STQC Labs is essential. Certificate of testing should be currently valid till the supply and same must be verified by inspecting authority.

9.4. List of important spare parts and accessories with their part number and costing.

**10. Packing of the equipment during shipment:**

10.1. The supplier should provide strong and sufficient packing to ensure safe arrival of goods at the destination free from loss or damage.

10.2. A vertical arrow should be marked at the all sides of packages to ensure transportation of equipment in vertical position. TOP and BOTTOM should also be written.

10.3. To put label and signage's for HANDLE WITH CARE ON ALL SIDES OF THE CRATES as per packing & shipment norms.

**11. Following messages should be written at the Top of the DEEP FREEZER**

11.1. Place Freezer at least 10 cms away from the wall and 20 cms away from other equipment for free air circulation.

11.2. Use voltage stabilizer provided for theDEEP FREEZER

11.3. Safe temperature range (-)15 to (-)25°C

11.4. At CHC/PHC use deep freezer for freezing of ice packs only

11.5. Open the lid, only when needed

11.6. Store only Polio vaccines at Regional/District store.

11.7. Keep all vaccine in wire baskets provided.

11.8. Leave space between the vaccine boxes and ice packs for air circulation.

11.9. Place a thermometer at the place provided for.

11.10. Avoid removing thermometer from the unit while reading temperature.

11.11. Net vaccine storage capacity in Litres

11.12. Hold over time in hrs.

**ANNEXURE-1****ALCOHOL STEM THERMOMETER**

**Power source:** None

**Temperature ranges&accuracy:**

Upper limit: +50°C

Lower limit: -30°C

Accuracy: ±1°C

**Scale markings:**

Easily readable with a minimum space of 1 mm between each line:

|                           |                           |
|---------------------------|---------------------------|
| Long lines (with numbers) | for each 10degrees        |
| Short lines               | for even numbered degrees |
| Shorter lines             | for odd numbered degrees  |

Safe zones for ranges of 0°C to +8°C and -15°C to -25°C to be marked with a green bar.

**Maximum relative humidity:**90%

**Casing specification:** Non-corrodible, sealed mechanism.

**Vibration test:** Product should stand 30 minutes on a programable vibrating table without physical damage or calibration. Calibration certificate from NABL/STQC/WHO approved lab should be submitted along with bid and subsequently to be verified at the time of inspection.

**Construction:**

The glass column must be protected against break age and strongly supported so that:

- the column cannot be displaced more than 0.5mm vertically with respect to the scale;
- the threading angle is between 80/100° to plane of support plate.

**Mounting specification**

Hook to suspend from shelf, or adhesive.

Application and remarks:

Used inside refrigerators or freezers in small health centres. Can also be packed with vaccines during transport.

WHO Specification reference: E6/TH.3

Applies to procedures: E6/PROC/2

**Warranty**

The warranty shall remain valid for two years from the date of final acceptance

The supplier shall replace defective thermometer with a new one free of cost with in warranty period. The supplier may take over defective thermometer after providing the replacement.

**ANNEXURE-2**

**AUTOMATIC VOLTAGE STABILIZERS**

(Input Voltage Range-150 V-280 V)

**1. Description of Function**

**1.1** Automatic regulation relay type voltage stabilizer will provide a preset AC Output 220V +/- 5 % for fluctuating AC input voltage.

**1.2** It will be connected with Ice lined refrigerators and deep freezers used for storage of vaccines.

**2 Operational Requirement**



2.1 Should be able to provide stable AC power output for a wide range of fluctuations as per required output

2.2 The output capacity of the stabilizer should be 1KVA.

### **3 Technical Specifications**

3.1 Should work for input voltage range of 150-280 volt AC, single phase, with Low Voltage Cut-Off when the input voltage falls below 150V+/- 5V & High Voltage Cut-Off when the input voltage goes beyond 280V+/- 5V.

3.2 Protection:-Over/Under Voltage, Over Load & Short Circuit.

3.3 Over load protection at input, automatic cut-off time—between 2-4 seconds of Under voltage/Over voltage cut off at output.

3.4 Maximum power loss due to leakage of current should be less than 2%

3.5 Restart delay of 6-9 minutes after the cut-off along with quick start button.

3.6 The output voltage should be stable and capable of operating continuously with respect to any change in ambient temperature and regulation should be automatic.

3.7 Automatic Line Voltage stabilizer(step type) Should equipped with  
a) Transformers copper wound on CRGO laminations, as per ISO specification for high efficiency and low loss.  
b) Voltmeter(digital/analog)with selector switch to indicate input and output voltage with off-position.

3.8 The output side shall be provided With 'C' series MCB with braking current of 10KA duly ISI marked.

3.9 Provision for two output sockets of 15Amps ISI marked.

3.10 Details of transformer should be furnished ,such as rating, weight of winding and core, which should be verified during inspection.

3.11 A Metal Oxide Varistor (MOV) for surge suppression should be provided and connected directly on the power line.

3.12 LED indication should be provided for the status of "Mains ON", "Output ON", "High Cut off" & "Low Cut off".

### **4.0 Environmental factors**

4.1 The unit shall be capable of operating continuously in ambient temperature of (-)20 deg.C to(+) 50deg.C and relatively humidity of 15-90%

4.2 The unit shall be capable of being stored continuously in ambient Temperature of (-)20deg.Cto(+)50deg.C and relatively humidity of 15-90%

4.3 Outer cabinet should beCNC Powder Coated after proper anti rust process.

### **5.0 Standards and safety**

5.1 Manufacture should submit the test certificate from test lab accredited by NABL and submit the test certificate of any model manufactured along with tender.

### **6.0 Documentation**

6.1 Certification of calibration and inspection from the factory at the time of pre- dispatch inspection and NABL certificate of specified model.

6.2 Operating and Service Manuals to be supplied along with the supply of stabilizers to the consignee.

**7.0 Warranty**

7.1 The warranty shall remain valid for two years from the date of final acceptance

7.2 The supplier shall replace defective stabilizer with a new one free of cost with in warranty period. The supplier may take over defective stabilizer after providing the replacement.

**Schedule No.8**  
**Walk in Cooler**

| Clause   | Description                                 | Sub-clause | Technical Particulars   |
|----------|---|------------|---|
| <b>1</b> | <b>Description of Function and capacity</b> | 1.1        | Walk in Cold rooms are required to store for long term duration of large quantity of vaccines at a temperature between +2 deg to +8 deg C.  |
|          |   | 1.2        | Typical gross internal volume should be 32 cum  |
| <b>2</b> | <b>Operational Requirements</b>             | 2.1        | To be constructed of prefabricated, modular complete with floor and ceiling panels, mounted on a flat, solid concrete base.   |
|          |   | 2.2        | The cold room should be equipped with two completely independent refrigeration systems. One of these will remain as standby.  |
|          |   | 2.3        | Each refrigeration system must be provided with it respective separate : <ul style="list-style-type: none"> <li>• condensing unit,</li> <li>• evaporator unit,</li> <li>• refrigeration unit,</li> <li>• electronic controls,</li> <li>• pipe work and</li> <li>• other necessary control instrumentation,</li> </ul> to ensure proper operation of each respective refrigeration system. |
|          |   | 2.4        | Provide additional control which permits simultaneous operation of both refrigeration systems in case of emergency.   |
|          |   | 2.5        | There should be manual & automatic switchover to the standby system by thermostatic or electrical control.  |
|          |   | 2.6        | There should be programmable automatic operational duty cycle for the switch over to the standby refrigeration system.  |
|          |   | 2.7        | Depending upon the internal room layout and the room location, refrigeration units may be one of the following types: <ul style="list-style-type: none"> <li>• Wall-mounted with the condenser unit discharging inside the building that houses the cold room (monobloc system);</li> <li>• Wall-mounted with weatherproof condenser units</li> </ul>                                     |

| Clause                             | Description                  | Sub-clause | Technical Particulars   |
|------------------------------------|------------------------------|------------|---|
|                                    |                              |            | located externally as close as possible to the evaporator units (weatherproof split system);<br><ul style="list-style-type: none"> <li>• Wall-mounted with condenser units located in a separate ventilated enclosure mounted as close as possible to the evaporator units (split system).</li> </ul> |
| <b>3. Technical Specifications</b> |                              |            |   |
| 3.1                                | <b>Internal Temperature:</b> | 3.1.1      | +2 deg to +8 deg C adjustable<br>(i) during 43 deg C continuous ambient<br>(ii) 32 deg continuous ambient<br>(iii) 45/05 deg C day/night cycling temperatures   |
| 3.2                                | <b>Panels:</b>               | 3.2.1      | wall and roof panel skins can be made from stainless steel of Grade 304   |
|                                    |                              | 3.2.2      | Outer and inner Panels:<br>Powder coated, made of galvanized steel panels, double wall having minimum thickness 22 SWG each.  |
|                                    |                              | 3.2.3      | Panels must be fully insulated and without internal structural members or stiffeners between the skins.   |
|                                    |                              | 3.2.4      | Tongued and grooved joints between panels must be designed to minimize cold-bridging.   |
|                                    |                              | 3.2.5      | Gaskets must be resistant to damage from oil, fats, water and detergents.   |
|                                    |                              | 3.2.6      | After assembly, all joints must be mastic sealed on the interior side to ensure air-tightness.  |
|                                    |                              | 3.2.7      | Roof panels with an overall length of 6 metres or less must be self-supporting.   |
|                                    |                              | 3.2.8      | Modular panel-Easily assembled and dissembled.  |
|                                    |                              | 3.2.9      | Double action cam-lock assembly/panel interlocking, for perfect seal.   |
|                                    |                              | 3.2.10     | No screws or panel cover strips.  |
|                                    |                              | 3.2.11     | Have airtight seals between condensing unit and wall.   |
|                                    |                              | 3.2.12     | Have airtight seals around all pipe and cable penetrations through wall and/or roof panels.   |
| 3.3                                | <b>Insulation</b>            | 3.3.1      | CFC-Free Urethane foam or extruded polystyrene foam core bonded sandwiched between two galvanized steel sheets.   |
|                                    |                              | 3.3.2      | Minimum thickness: 100 mm   |
|                                    |                              | 3.3.3      | Density: not less than 40 kg/m <sup>3</sup>   |
|                                    |                              | 3.3.4      | Thermal conductivity of 0.17 w/m2k or better for hot zone climate.  |
|                                    |                              | 3.3.5      | Thermal insulation foaming agents: Any gas complying with limitations and deadlines set by the Montreal Protocol on the elimination of ozone-depleting chemicals.   |
| 3.4                                | <b>Flooring:</b>             | 3.4.1      | Base - 1st layer: 75 mm thick cement concrete (dimensions suitable to the size of cold room);   |
|                                    |                              | 3.4.2      | 2nd layer of specified insulation as specified in para 3.3  |

| Clause | Description                  | Sub-clause | Technical Particulars  |
|--------|------------------------------|------------|--|
|        |                              |            | <ul style="list-style-type: none"> <li>Extruded polystyrene slabs laid with the joints staggered to achieve a 'U' value of 0.17 W/m.K or better.</li> <li>250 micron polythene vapor barrier.</li> <li>Reinforced granolithic concrete topping trowel led smooth.</li> </ul> |
|        |                              | 3.4.3      | 3rd layer of 6mm (minimum) non-slip finish Aluminium checker plate.  |
|        |                              | 3.4.4      | The floor should be capable to support load of 1500 kg/m <sup>2</sup> .  |
|        |                              | 3.4.5      | Concrete floors must be designed and constructed to allow Shallow ramped access entry to the cold room or freezer room.  |
| 3.5    | <b>Door</b>                  | 3.5.1      | The door should have:<br>i) Heavy duty lock - lockable with 100% fail-safe provision for opening from inside.<br>ii) The door should be self-closing type  |
|        |                              | 3.5.2      | Plastic curtains on the door way.  |
|        |                              | 3.5.3      | Door should be flush type with kick plate at bottom and fitted with door closer.   |
|        |                              | 3.5.4      | Examination Window (View port).  |
|        |                              | 3.5.5      | Seal closer mechanism which cushions the closing movement of the door, shuts the door silently and keeps it seal-closed preventing loss of cooling.  |
|        |                              | 3.5.6      | An incandescent vapour-proof light mounted on the interior of the vaccine chamber.   |
|        |                              | 3.5.7      | Dimensions: 34" to 40" (W) x72" to 80" (H).  |
|        |                              | 3.5.8      | Additional alarm switch to be fitted inside the cold room close to the door latch.   |
| 3.6    | <b>Lighting</b>              | 3.6.1      | Internal ceiling-mounted low energy fluorescent or LED luminaries with an external switch with pilot light.  |
|        |                              | 3.6.2      | The external light and light switch must be fixed to the wall of the cold room enclosure near to the entrance door.  |
|        |                              | 3.6.3      | The minimum illumination level on the vertical face of the lowest shelves must be 150 lux.   |
|        |                              | 3.6.4      | The lighting should be evenly distributed inside the cold room.  |
| 3.7    | <b>Refrigeration System:</b> | 3.7.1      | Dual Refrigeration system (100% standby)   |
|        |                              | 3.7.2      | The refrigeration system should have 3.5 to 4 KW compressor for 16.5 cum to 20 cum Walk-in-Coolers and 5.5 to 6.0 KW compressor for 32 to 40 Cum Walk-in-cooler.   |
|        |                              | 3.7.3      | Cooled refrigeration units, preferably Mono-block type   |

| Clause  | Description                | Sub-clause | Technical Particulars  |
|---|----------------------------|------------|--|
|   |                            | 3.7.4      | Automating defrosting (electric or hot gas)  |
|   |                            | 3.7.5      | CFC-free refrigerant.  |
|   |                            | 3.7.6      | Tropicalized units suitable for ambient temperature up to 45 deg C.  |
|   |                            | 3.7.7      | In case of a split system, the condensing Unit should be mounted in a weather proof enclosure with proper canopy so as to get protection from rain and hard weather and prevent any vandalism or injury to people upon accidental access.  |
|   |                            | 3.7.8      | Condensing unit (s) to comprise compressor with:<br>(a) Forced air condenser,<br>(b) Oil level glass,<br>(c) Oil separator,<br>(d) liquid receiver to carry full charge,<br>(e) Filter/dryer with flare connections,<br>(f) Isolating stop valves.<br>(g) Fixed high and low pressure dial gauges.<br>(h) Fitted with high and low pressure cut-outs,<br>(i) Time-operated electric defrost control<br>(j) It should have run hour meter.<br>(k) Where cold climate freeze prevention is specified provide a low temperature protection system to prevent the temperature of the cold room dropping below +2°C under low ambient conditions. |
| 3.8   | <b>Evaporator:</b>         | 3.8.1      | Evaporators to be forced air, wall or - ceiling-mounted units with a condenser unit discharging inside the building that houses the cold room.   |
|   |                            | 3.8.2      | There must be a timer operated electric defrosting system and a condensate drip tray and drain connection.   |
|   |                            | 3.8.3      | Size and position the evaporator units so that the plume of discharged air at a temperature below +2°C does not reach areas where vaccine is stored. If necessary provide a removable mesh cage or deflector shield around the evaporator so as to maintain the safe storage zone.   |
| <b>4. Temperature Control , monitoring &amp; Recording:</b> |                            |            |  |
| 4.1   | <b>Temperature Control</b> | 4.1.1      | Room temperature must be controlled by a thermostat within the tolerances specified.   |
|   |                            | 4.1.2      | The thermostat must be calibrated to ITS-90 and be accurate to $\pm 0.5^{\circ}\text{C}$ or better.  |
|   |                            | 4.1.3      | All parts of the room designated for vaccine storage must remain between 2°C to 8°C when measured under any loading condition between empty and full and over the full ambient temperature range of the required temperature zone.   |
|   |                            | 4.1.4      | The control supply relay carrying the compressor running current should be rated twice the running current, or   |

| Clause | Description                                 | Sub-clause | Technical Particulars  |
|--------|---|------------|--|
|        |   |            | provide additional contactor to be provided in the control circuit to sustain the running current, without causing overheating of the control boards.  |
| 4.2    | <b>Temperature Monitoring and recording</b> | 4.2.1      | Provide a digital temperature recording system with display controlling indicating logging facility : for example • _A programmable electronic temperature and event data logger system with minimum 10,000 data storage capacity, auto-dialler complying with PQS E006/TR03 linked to the alarm system. |
|        |   | 4.2.2      | Wall mounted seven days graphic temperature recorder not using thermal paper.  |
|        |   | 4.2.3      | Provide a backup gas or vapour pressure dial thermometer complying with PQS E006/TH02, mounted on the wall of the cold room in an accessible position.   |
| 4.3    | <b>Alarm &amp; Buzzer</b>                   | 4.3.1      | Provide a mains-operated audible and visible loud alarm with battery backup and automatic recharge, which is triggered in the event of mains failure or when the cold room temperatures are outside set limits.  |
|        |   | 4.3.2      | In case of a triggered event, the acoustic alarm unit must comply as per specification WHO/PQS/E06/AL01-01 or with E006/TR03   |
|        |   | 4.3.3      | Alarm sounders are to be located adjacent to the cold room.  |
|        |   | 4.3.4      | Buzzer system : Visual indicator along with buzzer alarm system should be provided to alert the user in the following events :<br>(a)Power failure alarm<br>(b) High pressure (dirty condenser) alarm<br>(c) Open door alarm<br>(d) Probe failure alarm  |
|        |   | 4.3.5      | It should have back-up battery for control its panel   |
| 5.0    | <b>Storage Condition</b>                    | 5.1        | Storage conditions to be maintained at + 5 deg C $\pm$ 3 deg C continuously, control by thermostat on each cold room.  |
| 6.0    | <b>Shelves</b>                              | 6.1        | Cold room(s) to be fitted with locally made/manufactured, running height adjustable perforated shelves (slotted shelves will be preferred)   |
|        |   | 6.2        | 600 mm wide at 600 mm spacing;   |
|        |   | 6.3        | Four shelves above the ground all around the wall and intermediate shelves should be placed suitably.  |
|        |   | 6.4        | The total area covered by shelves should be at least 42% of the ground area.   |
|        |   | 6.5        | There should be a minimum 900 mm distance in between two intermediate racks, to facilitate the movement of men and material.   |
|        |   | 6.6        | The final drawing of the room with shelves will have to be got approved from the authorities after placement of NOA.   |

| Clause | Description   | Sub-clause | Technical Particulars  |
|--------|---|------------|--|
|        |   | 6.7        | The material of the shelves should be non corrosive 304 grade stainless steel to take load of at least 0.075kg/cm <sup>2</sup> .   |
|        |   | 6.8        | The top face of the lowest shelf must be mounted 200 mm above the floor.   |
|        |   | 6.9        | Shelving must be washable.   |
| 7.0    | <b>System Configuration Accessories, spares and consumables</b> | 7.1        | Deleted  |
| 8.0    | <b>Environmental factors</b>                                    | 8.1        | The unit shall be capable of operating continuously in ambient temperature of 5 to 45°C and relative humidity of 95%   |
| 9.0    | <b>Installation:</b>  | 9.1        | Complete installation, testing and commissioning is to be done by the supplier inclusive of:<br>(a) Installation of stabilizer,<br>(b) Drainage system<br>(c) Assembly of the panels<br>(d) Refrigerator units,<br>(e) Data logger<br>(f) Adequate smoke evacuation system, Generator as per CPCB.<br>(g) All other related work required for installation as per WHO PQS and guidelines.<br>(h) Separate earthing must be provided respectively for Genset and WIC<br>The installation and commissioning should be done by supplier |
| 10.0   | <b>Power Supply</b>   | 10.1       | Power input: 220-240V/ 50 Hz AC Single phase or 380-400V AC 50 Hz, three phase.  |
|        |   | 10.2       | Fitted with ISI marked, 15 ampere, Indian M-plugs and sockets.   |
|        |   | 10.3       | Diesel Generating set of 15 KVA should be supplied as per specifications enclosed (ANNEXURE-1)   |
|        |   | 10.4       | Suitable automatic voltage regulator/stabilizer meeting IS 9815, IEC 60335-1 & IEC 60364-1 specifications should be supplied. Broad Specifications are as enclosed (ANNEXURE-2):   |
|        |   | 10.5       | Voltage regulator should have capacity to take load of both refrigeration units (main as well as standby).   |
| 11     | <b>Standards, Safety and Training</b>                           | 11.1       | Electrical and refrigeration components and the panels should have:  |
|        |   | 11.2       | National or international approvals like UL, IEC 60335 -1 2006   |
|        |   | 11.3       | Safety of household & similar electrical appliances. / IEC 60364-1, / ISO 20282-1:2006   |
|        |   | 11.4       | Ease of operation of every day products ,/ Electrical safety rating: meet IEC 60335-1, IEC 60364-1- Voltage, frequency & phasing: single phase, three-   |

| Clause | Description                                     | Sub-clause | Technical Particulars   |
|--------|---|------------|---|
|        |   |            | phase - voltage stabilizers and surge protections.  |
|        |   | 11.5       | All operational and maintenance training by trained personal of manufacturer to the end users after successful installation and commissioning.  |
| 12     | <b>Warrantee:</b>                               | 12.1       | <b>Provide</b> Comprehensive warranty for 5 years, ensure provision of consumables including spares and accessories within the warranty period excluding batteries( warranty as per manufacture norm, minimum of two years) and diesel for DG set.  |
|        |   | 12.2       | Provide commitment and quote for Comprehensive Maintenance Contract (CMC) for 5 years after the 5 years   |
|        |   | 12.3       | Guarantee for availability of spares for 10 years after warrantee.  |
| 13     | <b>After Sales Service:</b>                     | 13.1       | Should have local / regional authorized service facility.   |
|        |   | 13.2       | The service provider should have the necessary equipments and spares recommended by the manufacturer to carry out preventive maintenance and repair as per guidelines provided in the service/maintenance manual.   |
| 14     | <b>On-site maintenance:</b>                     | 14.1       | All minor repairs should be attended to and completed within 24 hours of the intimation.  |
|        |   | 14.2       | Any major break down ( e.g. compressor failure, gas leakage, control paned burn-out) must be attended to and put back into functional condition within seven days following first intimation.   |
|        |   | 14.3       | If both refrigeration system have failed, at least one refrigeration system must be repaired or replaced within 24 hrs.   |
| 15.0   | <b>Documentation: Certification and Manuals</b> | 15.1       | Test certificate of inspection should be submitted at the time of prototype inspection along with :<br>(a) Cool down time,<br>(b) Running test , as per WHO quality Assurance Protocol WHO/PQS/E001/CR-FR01-VP2 of any capacity from an independent laboratory approved /recognized by WHO/UNICEF/National Accreditation board/ILAC/STQC lab is essential, should be submitted at the time of prototype inspection. |
|        |   | 15.2       | Separate Certificate of inspection for tendered item from an independent laboratory approved/recognized by WHO/UNICEF/National Accreditation Board/ ILAC/ STQC Labs or third party inspection agency as mentioned in the NOA is essential and is required to be submitted at the time of delivery.  |
|        |   | 15.3       | List of important spare parts, and accessories with their part number and costing.  |



| Clause | Description                               | Sub-clause | Technical Particulars  |
|--------|---|------------|--|
| 16     | <b>Installation instructions:</b>         | 16.1       | Provide a comprehensive, illustrated (including all wiring diagrams ) with step-by-step installation manual suitable for use by the installer, covering the unpacking, assembly, testing and commissioning of all the system components, including safe working procedures to be observed.   |
|        |   | 16.2       | The manual must be supplied in triplicate - one copy for the employer, one for the installer and one for the maintenance contractor.   |
|        |   | 16.3       | Installation should be as per annexed indicative drawing at <b>Annexure 3.</b>   |
| 17     | <b>Service instructions:</b>              | 17.1       | Provide a comprehensive, illustrated service and workshop manual, suitable for use by the maintenance contractor, covering all the system components, including safe working procedures to be observed.  |
|        |   | 17.2       | The manual must be supplied in duplicate - one copy for the employer and one for the maintenance contractor.   |
| 18     | User instructions:                        | 18.1       | Provide a comprehensive, illustrated maintenance manual suitable for the user and covering all aspects of safe operation and routine non-specialist maintenance of the cold room.  |
|        |   | 18.2       | The manual must be supplied in duplicate - one copy for the employer and one for the maintenance contractor.   |
|        |   | 18.3       | Log book with instruction for daily, weekly, monthly and quarterly maintenance checklist.  |
| 19.0   | <b>Post commissioning certifications:</b> | 19.1       | Test certificate of inspection for all test, as per WHO quality Assurance Protocol WHO/PQS/E001/CR-FR01-VP2 of installed cold room from an independent laboratory approved /recognized by WHO/UNICEF/National Accreditation board/ILAC/STQC lab or third party inspection agency specified in the NOA after installation and commissioning of cold room to be submitted along with Final Acceptance Certificate. |

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**Diesel Generating set****1 Description of Function and capacity**

- 1.1 The cold room are typically connected to a standby DG set as a power backup.
- 1.2 It should be automatically switched ON as soon as there is grid power failure and switched OFF as soon as the grid power is returned back.
- 1.3 The capacity of the DG set should be as per the para no. 10.3 of technical specifications of WIC

**2 Detailed Specification for alternator, diesel engine and Automatic Mains Failure (AMF) control panels :****2.1 Alternator :**

- 2.1.1 The Alternator shall be self excited and self regulated of specified KVA rating in single/three phase at 240/415 Volt, 50 Hz, 1500 RPM and 0.8 power factor (PF) and shall conform to IS:13364 (Part 1):1992 (reaffirmed 2003) . The alternators shall be of brush less type with VG-1 Grade or better grade of voltage regulation.
- 2.1.2 The alternators shall be screen-protected drip proof with Minimum IP-21 degree of protection as per IS:4691/85. The class of insulation of the Alternator would be 'H'. The rated voltage of Alternator will be 240V for single phase & 415V for three phase.

**2.2 Diesel Engine (Naturally Aspirated):**

- 2.2.1 Diesel Engine shall be air or water cooled as specified, electric start developing required B.H.P at 1500 RPM with Class A-2 Governing or better for alternator to deliver specified continuous KVA output at 0.8 pf LAG at NTP conditions (all rating shall be tested at 0.8 PF lag). The Diesel Engine should be capable of providing 10% overload for one hour for every 11 hours continuous running at full load.
- 2.2.2 Naturally as pirated engines of rating up to and including 20KW shall be ISI MARKED as per IS:10001/1981 (re-affirmed 2006).
- 2.2.3 The specific fuel consumption of engine shall be as per IS specification.
- 2.2.4 The Diesel Engine shall be complete with the following accessories:
  - 2.2.4.1 Fuel tank with capacity for 72 hours continuous running at full load.
  - 2.2.4.2 Engine instrument Panel consisting of starting switch with Key, Lube Oil temperature and pressure gauges, (water temperature gauge in case of water cooled engines), RPM indicator and hour meter.
  - 2.2.4.3 Safety controls to shut down the engine in the event of low lube oil pressure or high cylinder head temperature in case of air-cooled engines or high water temperature in case of water-cooled engines.
  - 2.2.4.4 Radiators in case of water-cooled engines.
  - 2.2.4.5 Exhaust silencer of Residential type.
  - 2.2.4.6 12V starting system complete with starter motor, charging alternator and Cut-out.
  - 2.2.4.7 Lead Acid Battery or semi maintenance free battery of suitable ratings with connecting cables and the battery/ies shall conform to relevant IS Specification.
  - 2.2.4.8 Standard set of tools required for service and maintenance of the DG set shall be provided to the consignees along with each DG set.

**3 AMF Control Panel :**

- 3.1 Automatic mains failure (AMF) control panel shall start up the DG set and take the load in case of the mains failure without requiring any human intervention.
- 3.2 Similarly on return of mains supply, the AMF control unit shall transfer the load back to mains supply and switch off the DG set automatically.

- 3.3 The AMF panel shall be enclosure with the IP-23 degree of protection confirming to IS/IEC 60947 (Pt-1)/2004, fabricated from minimum 1.5 mm thick steel sheet duly pre-treated and aesthetically finished.
- 3.4 The AMF Control Panel shall have the following components :
- 3.4.1 Microprocessor based relay with composite meter for digital display / components :
- 3.4.1.1 Generator voltage/AC Mains voltage.
- 3.4.1.2 Generator Current.
- 3.4.1.3 Power Factor.
- 3.4.1.4 Frequency
- 3.4.1.5 Energy
- 3.4.1.6 Three attempts engine start/engine cranking relay.
- 3.4.1.7 On -delay timer for load change over
- 3.4.1.8 On-delay timer for engine shut off
- 3.4.1.9 Over current relay.
- 3.4.1.10 Mode selector switch for setting the panel on any one position such as off or auto or manual or test.
- 3.4.1.11 Engine On-Off switch (Push button type)
- 3.4.1.12 MCCB of suitable rating shall be provided.
- 3.4.1.13 Rectangular aluminium bus bars (one number for each phase, neutral and Earthing terminal) of adequate ratings duly colour coded with heat shrinkable PVC sleeves.
- 3.4.1.14 Two contactors of suitable rating (one for DG set & one for AC mains) with over load relay
- 3.4.1.15 Under-voltage relay for mains.
- 3.4.1.16 Battery charger complete with voltage regulator, float or booster selector switch, on-off switch, voltmeter and ammeter for charging the battery from mains. (This will be in addition to the battery charging alternator fitted on the engine).
- 4 Instrument & Control Fuses.**
- 4.1 Five number indicating lamps to indicate 'mains ON', 'load on mains', 'set running', 'load on set' and 'battery charger on'.
- 4.2 Audio visual alarm for:
- 'Low lubricating oil pressure',
  - 'High water temperature'(for water cooled),
  - 'High cylinder head temperature'(for air cooled)
  - Start failure' and 'DG over load'.
- 5.0** Any other switch, instrument, relay or contactor etc. essential for smooth and trouble free functioning of DG set with AMF panel. (To be specified by the tenderers in their offer with complete details of the item).
- 6.0 Type test certificate**
- 6.1** Suppliers shall furnish complete & satisfactory Type Test Certificate (TTC) for engines, alternators complete with enclosure to be used by them for EACH rating of DG sets clearly indicating make, model and ratings of the DG sets tested at the time of registration and pre-dispatch inspection.
- 6.2** The TTC of three phase alternators shall cover 'unbalanced load test' as per cl.24 of IS:13364(part-1 or part-2)/1992 as applicable. However all the engine models /ratings shall need relevant certifications as per norms.
- 6.3** Either of the following types of TTC shall be acceptable:
- 6.3.1 Type Test Certificate issued by recognized Government Lab. Irrespective of whether engines and alternators were tested at firm's lab or some other lab, but witnessed by Government representative.
- 6.3.2 Type Test Certificate issued by BIS, irrespective of engines and alternators were tested at firm's lab or some other lab, but witnessed by BIS/ Government representative.
- 6.3.3 Type Test Certificate issued by DQA on basis of test conducted at manufacturer's lab in presence of DQA officers.
- 6.4 The testing of diesel generating sets, for all ratings, shall be done at 0.8 PF
- 6.5 Testing shall be done at continuous power output for each rating.
- 6.6 Necessary gauge/meters shall be fitted to indicate

- (a) The quantity of fuel left in the fuel tank, and
- (b) hours of DG set operation.
- 7.0 DG Sets shall be provided with integrated acoustic enclosure which shall conform to norms of Central Pollution Control Board (CPCB).
- 7.1 The acoustic enclosure offered shall conform to the drawings type approved by Govt lab, for conformity to noise norms. This aspect shall also be verified at the time of inspection.
- 7.2 DG sets shall meet the requirements of Environmental (Protection) Rules 1986 as laid down by Min. of Environment & Forests read with GSR 371(E) dated 17.5.2002, GSR 520(E) dated 01.7.2003 and No. 448(E) dated 12.07.2004 in respect of noise and emission norms. DG sets shall also meet all other statutory requirements as notified by Govt. from time to time.
- 8.0 Suppliers shall furnish following documents issued by a Govt authorized agency at the time of registration and pre-dispatch inspection:
  - 8.1 Type approval certificate (TAC) for emission norms for each model/family of Engine.
  - 8.2 TAC from for noise level norms EACH model of DG set.
  - 8.3 COP for each model of DG set and engine used in DG set.
- 9.0 Scope of supply shall include supply, installation and commissioning of the complete DG set at the consignee's
- 10.0 Documentation :
  - 10.1 User's manual,
  - 10.2 Service manual
  - 10.3 List of minimum spares
  - 10.4 Installation instruction
- 11.0 Warrantee:
  - 11.1 Provide 5 years of warrantee with 5 years of CMC.
  - 11.2 Guarantee for availability of spares for 10 years after warrantee.

## ANNEXURE-2

### Servo Voltage Stabilizer

#### 1. Description and capacity of Equipment:

- 1.1 Voltage stabilization and surge protection is required for protecting the refrigeration units against any short or long voltage fluctuations. .
- 1.2 The stabilizer should meet the requirements of the different electrical components of the cold room.
- 1.3 Capacity as per para 10.4 of specifications of cold room.
- 1.4 All the components used in the assembly of line voltage correctors shall conform to relevant IS specification.
- 1.5 Tenderers shall indicate make and specification of main components in their offer.
- 1.6 Servo Motor operated line voltage corrector is a safety/difficult item. As such the firm registered with NSIC are required to get their capacity assessment report from the concerned DQA.

#### 2. Specification :

- 2.1 Servo Motor operated automatic line voltage correctors (LVC), copper wound Indoor type, continuous duty, conforming to IS: 9815(Pt.1)/1994 (Reaffirmed 2004) suitable for phase Voltage of 160-260 Volts.
- 2.2 Three phase line voltage correctors shall comprise of three single phase line voltage correctors, conforming to IS: 9815 (Pt.1)/1994 ( Reaffirmed 2004), connected in star and enclosed in a single enclosure with common control panel and shall be suitable for unbalance input voltage.
- 2.3 Rated output voltage shall be 240V for single phase LVC and 415V for three phase LVC respectively.

#### 3. Documentation :

- 3.1 User's manual,
- 3.2 Service manual
- 3.3 List of minimum spares
- 3.4 Installation instruction

#### 4. Warrantee:

- 4.1 Provide 5 years of warrantee with 5 years of CMC.
- 4.2 Guarantee for availability of spares for 10 years after warrantee.

**ANNEXURE-3**

**Drawing Notes.....Please refer the diagram.**

- For Mono block cooling units WIC/WIF the size can be accommodate is up to 40 CBM with minimum clearances mentioned at front/rear & side of the levelled concrete foundations.
- **These clearances may vary according to make and model of WIC-WIF, as they are all different.**

**Split systems Refrigeration Units..... (Diagram is not drawn)**

- The split system refrigeration units can be used in the same available space where ventilation is inadequate or temperature is high.
- **For the split system refrigeration units the clearance of 1500mm is recommended at rear portion of WIC/WIF.**
- **Condensing unit should be preferably on the platform on the back side of the WIC/WIF.**

**Note: For both type of installations, the lay out can be changed depending upon the site condition, but overall dimensions should remain same.**

**PRE-INSTALLATION INSTRUCTIONS FOR WICs AND WIFs.**

**General**

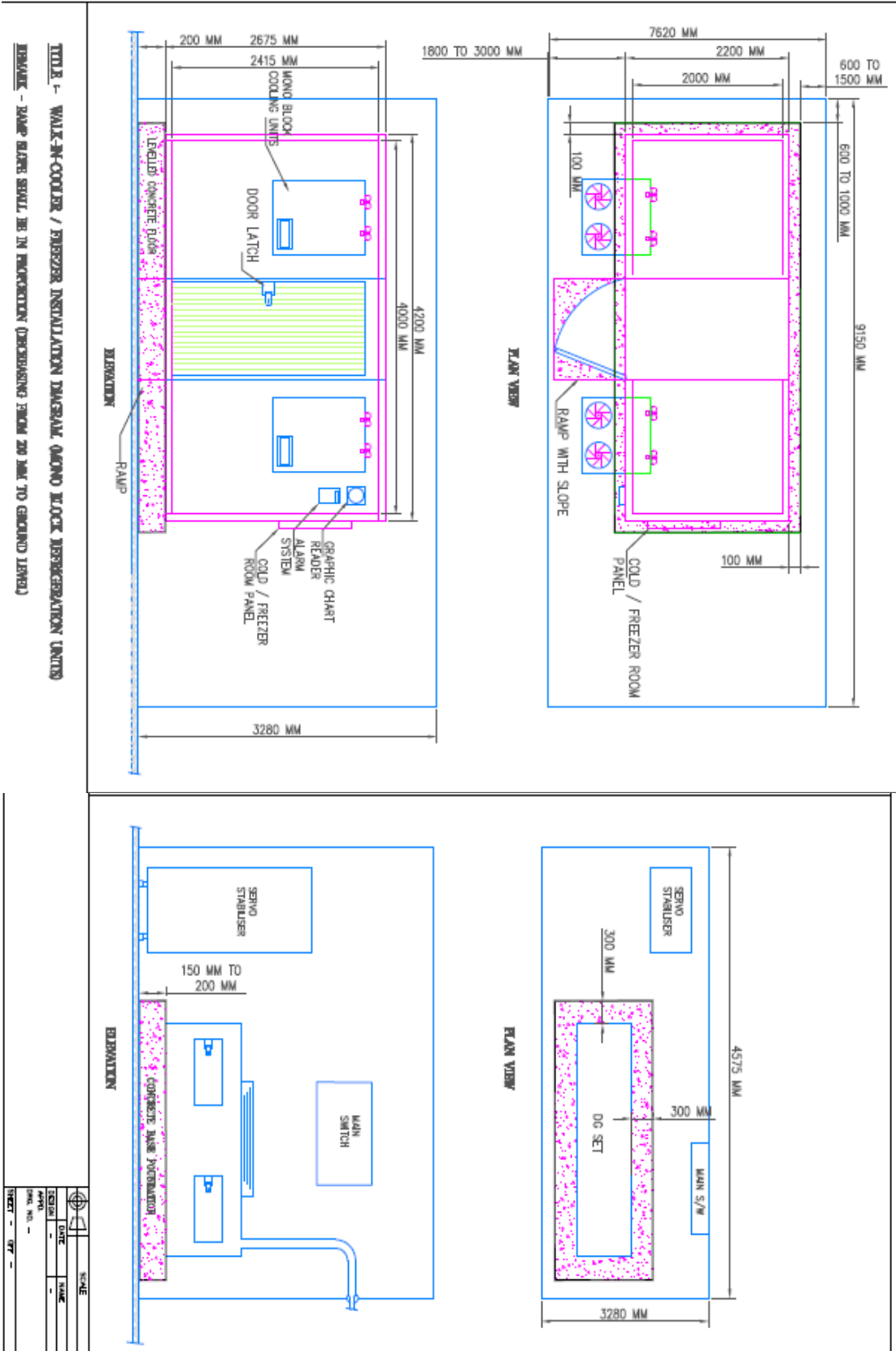
- Please ensure that the goods will be on the actual installation site within carrying distance from the final location before the arrival of the engineer (if supplier will carry out the installation)  
Storing of the goods should be done in a covered and secured area
- Please ensure that the intended installation site is cleared and ready for immediate installation to start
- The installation space should be with adequate ventilation or windows which can be opened on the top of the existing wall(s) with netting/burglar proof grills
- The crates will be opened by engineers from the supplier to verify that all pieces of equipment have arrived as packed by the supplier
- Please ensure that there is local unskilled labour available for carrying the materials and doing minor installation work such as installation of the floors, walls and ceiling panels as well as doors and shelving under the supervision of supplier engineer
- For the electrical installation it would be good to have a local electrician present to assist in the installation and final connection to the local supply network
- During installation it is preferred that all technical personnel who will be responsible for the future daily operation, maintenance and service of the room(s) will be present and participating in the installation work thereby getting a thorough understanding of the equipment.
- **Concrete platform size should be according to make and model of WIC-WIF, as they are all different.**
- **Ensure that there is water drainage facility available from concrete platform to outside.**

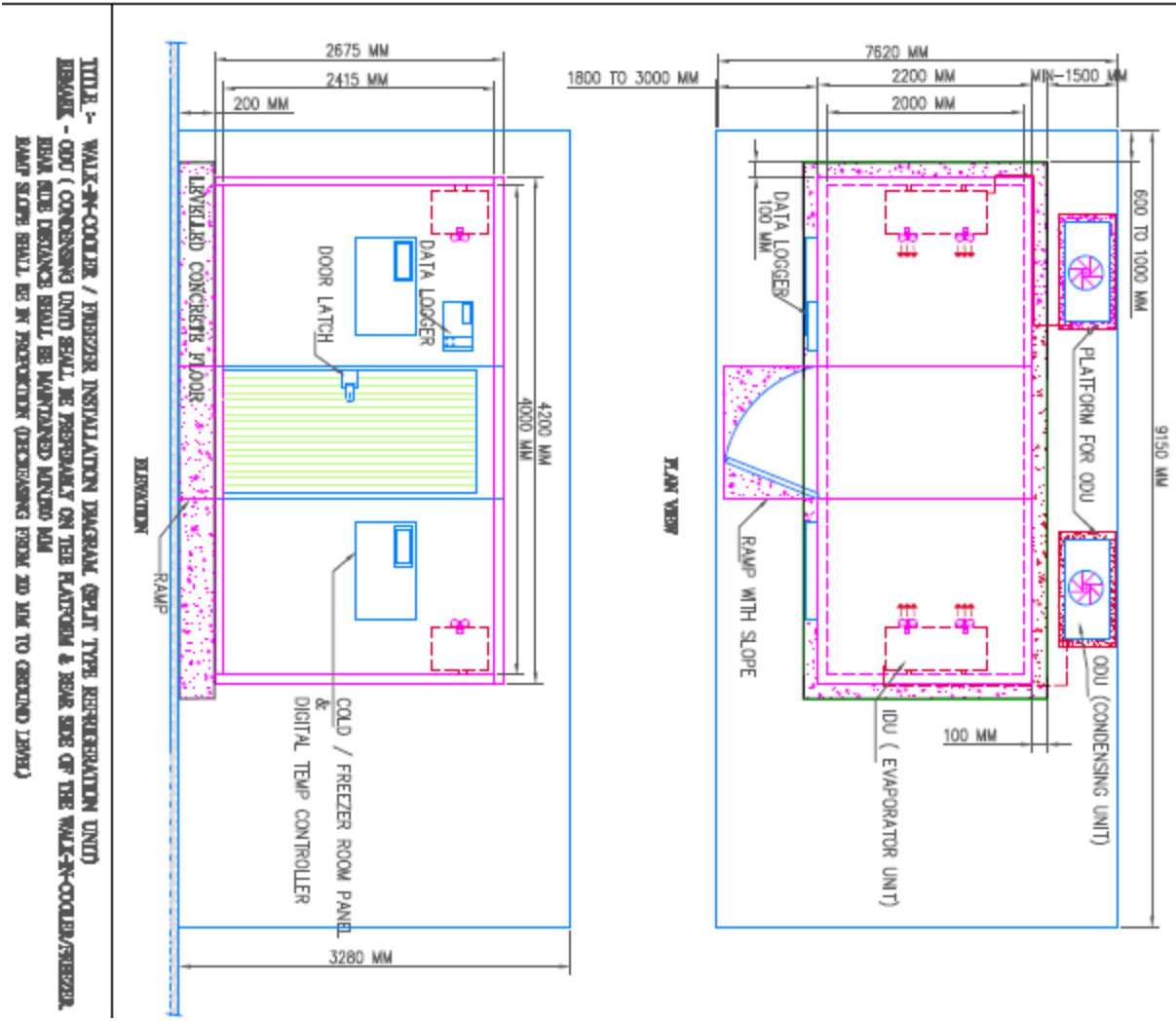
**Prefabricated rooms**

- The doors of the WIC are located in the middle of one of the long walls
- **There should be a free space of preferably 2.5 – 3 metres in the front of the door wall for easy access to the room as well as handling and possible repacking of the stored goods**
- **Preferably installation is to be done on a levelled concrete floor**
- **As the rooms are made of prefabricated insulation panels the levelling / base evenness requirement is +/- 3 mm / 3 m and +/- 5 mm / 5 m**
- The entrance door to the space where the installation of the room(s) is to be done should be about 900 mm wide so that panels and other pieces of equipment can be easily carried through the door opening

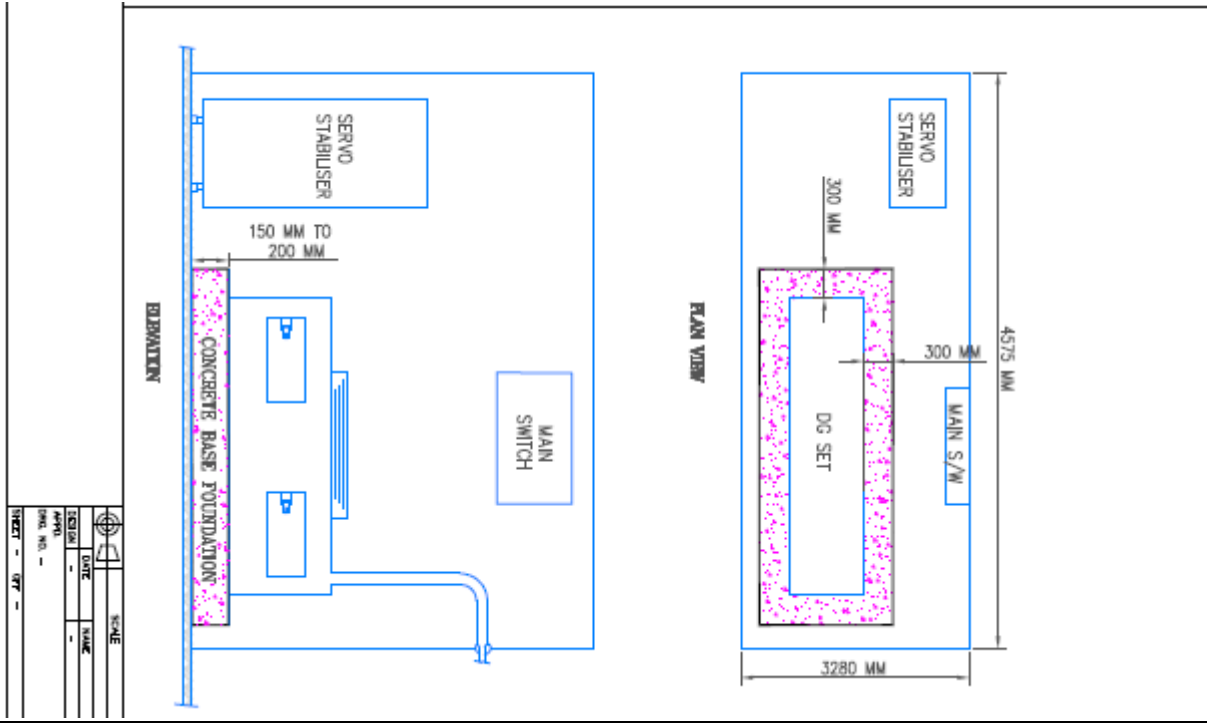
**Electrical supply and power consumption for WICs and WIFs**

- Please ensure that Grid Power supply is available in the installation premises.  
i.e. A.C., 3-phase, 380-400V, 50 Hz, with proper switch box/distribution board with fuses and a main switch for the local national grid.









**Schedule No.9**  
**Walk in Freezer**

| Clause   | Description                                 | Sub-clause | Technical Particulars  |
|----------|---|------------|--|
| <b>1</b> | <b>Description of Function and capacity</b> | 1.1        | Walk in Freezer Rooms are required to store for long term duration of large quantity of vaccines at a temperature between (-) 25 deg to (-) 15 deg C. when measured under any loading condition between empty and full and over the full ambient temperature range of the required temperature zone.   |
|          |   | 1.2        | Typical gross internal volume should be 20 cum   |
| <b>2</b> | <b>Operational Requirements</b>             | 2.1        | To be constructed of prefabricated, modular complete with floor and ceiling panels, mounted on a flat, solid concrete base.  |
|          |   | 2.2        | The cold room should be equipped with two completely independent refrigeration systems. One of these will remain as standby.   |
|          |   | 2.3        | Each refrigeration system must be provided with it respective separate : <ul style="list-style-type: none"> <li>• condensing unit,</li> <li>• evaporator unit,</li> <li>• refrigeration unit,</li> <li>• electronic controls,</li> <li>• pipe work and</li> <li>• other necessary control instrumentation,</li> </ul> to ensure proper operation of each respective refrigeration system.  |
|          |   | 2.4        | Provide additional control which permits simultaneous operation of both refrigeration systems in case of emergency.  |
|          |   | 2.5        | There should be manual & automatic switchover to the standby system by thermostatic or electrical control.   |
|          |   | 2.6        | There should be programmable automatic operational duty cycle for the switch over to the standby refrigeration system.   |
|          |   | 2.7        | Depending upon the internal room layout and the room location, refrigeration units may be one of the following types: <ul style="list-style-type: none"> <li>• Wall-mounted with the condenser unit discharging inside the building that houses the cold room (monobloc system);</li> <li>• Wall-mounted with weatherproof condenser units located externally as close as possible to the evaporator units (weatherproof split system);</li> <li>• Wall-mounted with condenser units located in a separate ventilated enclosure mounted as close as</li> </ul> |

| Clause                             | Description                  | Sub-clause | Technical Particulars   |
|------------------------------------|------------------------------|------------|---|
|                                    |                              |            | possible to the evaporator units (split system).  |
| <b>3. Technical Specifications</b> |                              |            |   |
| 3.1                                | <b>Internal Temperature:</b> | 3.1.1      | (-) 15deg to (-) 25deg C adjustable<br>(i) during 43 deg C continuous ambient<br>(ii) 32 deg continuous ambient<br>(iii) 45/05 deg C day/night cycling temperatures   |
| 3.2                                | <b>Panels:</b>               | 3.2.1      | wall and roof panel skins can be made from stainless steel of Grade 304   |
|                                    |                              | 3.2.2      | Outer and inner Panels:<br>Powder coated, made of galvanized steel panels, double wall having minimum thickness 22 SWG each.  |
|                                    |                              | 3.2.3      | Panels must be fully insulated and without internal structural members or stiffeners between the skins.   |
|                                    |                              | 3.2.4      | Tongued and grooved joints between panels must be designed to minimize cold-bridging.   |
|                                    |                              | 3.2.5      | Gaskets must be resistant to damage from oil, fats, water and detergents.   |
|                                    |                              | 3.2.6      | After assembly, all joints must be mastic sealed on the interior side to ensure air-tightness.  |
|                                    |                              | 3.2.7      | Roof panels with an overall length of 6 metres or less must be self-supporting.   |
|                                    |                              | 3.2.8      | Modular panel-Easily assembled and dissembled.  |
|                                    |                              | 3.2.9      | Double action cam-lock assembly/panel interlocking, for perfect seal.   |
|                                    |                              | 3.2.10     | No screws or panel cover strips.  |
|                                    |                              | 3.2.11     | Have airtight seals between condensing unit and wall.   |
|                                    |                              | 3.2.12     | Have airtight seals around all pipe and cable penetrations through wall and/or roof panels.   |
|                                    |                              | 3.2.13     | The room should be fitted with a pressure release vent which should open and allows enough outside air to enter and rebalance any pressure difference.  |
| 3.3                                | <b>Insulation</b>            | 3.3.1      | CFC-Free Urethane foam or extruded polystyrene foam core bonded sandwiched between two galvanized steel sheets.   |
|                                    |                              | 3.3.2      | Minimum thickness:100 mm  |
|                                    |                              | 3.3.3      | Density: not less than 40 kg/m <sup>3</sup>   |
|                                    |                              | 3.3.4      | Thermal conductivity of 0.17 w/m2k or better for hot zone climate.  |
|                                    |                              | 3.3.5      | Thermal insulation foaming agents: Any gas complying with limitations and deadlines set by the Montreal Protocol on the elimination of ozone-depleting chemicals.   |
| 3.4                                | <b>Flooring:</b>             | 3.4.1      | Base - 1st layer: 75 mm thick cement concrete (dimensions suitable to the size of cold room);   |
|                                    |                              | 3.4.2      | 2nd layer of specified insulation as specified in para 3.3 <ul style="list-style-type: none"> <li>• Extruded polystyrene slabs laid with the joints staggered to achieve a 'U' value of 0.17 W/m.K or better.</li> <li>• 250 micron polythene vapor barrier.</li> </ul> |

| Clause | Description                 | Sub-clause | Technical Particulars  |
|--------|-----------------------------|------------|--|
|        |                             |            | <ul style="list-style-type: none"> <li>Reinforced granolithic concrete topping trowel led smooth.</li> </ul>   |
|        |                             | 3.4.3      | 3rd layer of 6mm (minimum) non-slip finish Aluminium checker plate.  |
|        |                             | 3.4.4      | The floor should be capable to support load of 1500 kg/m <sup>2</sup> .  |
|        |                             | 3.4.5      | Concrete floors must be designed and constructed to allow Shallow ramped access entry to the cold room or freezer room.  |
| 3.5    | <b>Door</b>                 | 3.5.1      | The door should have:<br>i) Heavy duty lock - lockable with 100% fail-safe provision for opening from inside.<br>ii) The door should be self closing type  |
|        |                             | 3.5.2      | Plastic curtains on the door way.  |
|        |                             | 3.5.3      | Door should be flush type with kick plate at bottom and fitted with door closer.   |
|        |                             | 3.5.4      | Examination Window (View port).  |
|        |                             | 3.5.5      | Seal closer mechanism which cushions the closing movement of the door, shuts the door silently and keeps it seal-closed preventing loss of cooling.  |
|        |                             | 3.5.6      | An incandescent vapour-proof light mounted on the interior of the vaccine chamber.   |
|        |                             | 3.5.7      | Dimensions: 34" to 40" (W) x72" to 80" (H).  |
|        |                             | 3.5.8      | Additional alarm switch to be fitted inside the cold room close to the door latch.   |
| 3.6    | <b>Lighting</b>             | 3.6.1      | Internal ceiling-mounted low energy fluorescent or LED luminaries with an external switch with pilot light.  |
|        |                             | 3.6.2      | The external light and light switch must be fixed to the wall of the cold room enclosure near to the entrance door.  |
|        |                             | 3.6.3      | The minimum illumination level on the vertical face of the lowest shelves must be 150 lux.   |
|        |                             | 3.6.4      | The lighting should be evenly distributed inside the cold room.  |
| 3.7    | <b>Refrigeration System</b> | 3.7.1      | Dual Refrigeration system (100% standby)   |
|        |                             | 3.7.2      | The refrigeration system should have 3.5 to 4 KW compressor for 16.5 cum to 20 cum Walk-in-Freezers and 5.5 to 6.0 KW compressor for 32 to 40 Cum Walk-in-Freezers.  |
|        |                             | 3.7.3      | Cooled refrigeration units, preferably Mono-block type.  |
|        |                             | 3.7.4      | Automating defrosting (electric or hot gas)  |
|        |                             | 3.7.5      | CFC-free refrigerant.  |
|        |                             | 3.7.6      | Tropicalized units suitable for ambient temperature up to 45 deg C.  |
|        |                             | 3.7.7      | In case of a split system, the condensing Unit should be mounted in a weather proof enclosure with proper canopy so as to get protection from rain and hard weather and prevent any vandalism or injury to people upon |

| Clause  | Description                                 | Sub-clause | Technical Particulars   |
|---|---|------------|---|
|   |   |            | accidental access.  |
|   |   | 3.7.8      | Condensing unit (s) to comprise compressor with:<br>(a) Forced air condenser,<br>(b) Oil level glass,<br>(c) Oil separator,<br>(d) liquid receiver to carry full charge,<br>(e) Filter/dryer with flare connections,<br>(f) Isolating stop valves.<br>(g) Fixed high and low pressure dial gauges.<br>(h) Fitted with high and low pressure cut-outs,<br>(i) Time-operated electric defrost control<br>(j) It should have run hour meter.<br>(k) Where cold climate freeze prevention is specified provide a low temperature protection system to prevent the temperature protection system to prevent the temperature of the cold room dropping below +2°C under low ambient conditions. |
| 3.8   | <b>Evaporator:</b>                          | 3.8.1      | Evaporators to be forced air, wall or - ceiling-mounted units with a condenser unit discharging inside the building that houses the cold room.  |
|   |   | 3.8.2      | There must be a timer operated electric defrosting system and a condensate drip tray and drain connection.  |
|   |   | 3.8.3      | Size and position the evaporator units so that the plume of discharged air at a temperature below +2°C does not reach areas where vaccine is stored. If necessary provide a removable mesh cage or deflector shield around the evaporator so as to maintain the safe storage zone.  |
| <b>4. Temperature Control , Monitoring &amp; Recording:</b> |   |            |   |
| 4.1   | <b>Temperature Control</b>                  | 4.1.1      | Room temperature must be controlled by a thermostat within the tolerances specified.  |
|   |   | 4.1.2      | The thermostat must be calibrated to ITS-90 and be accurate to $\pm 0.5^{\circ}\text{C}$ or better.   |
|   |   | 4.1.3      | All parts of the room designated for vaccine storage must remain between (-) 15°C to (-) 25°C when measured under any loading condition between empty and full and over the full ambient temperature range of the required temperature zone.  |
|   |   | 4.1.4      | The control supply relay carrying the compressor running current should be rated twice the running current, or provide additional contactor to be provided in the control circuit to sustain the running current, without causing overheating of the control boards.  |
| 4.2   | <b>Temperature Monitoring and recording</b> | 4.2.1      | Provide a digital temperature recording system with display controlling indicating logging facility : for example • _A programmable electronic temperature and event data logger system with minimum 10000 data storage capacity, auto-dialler complying with PQS E006/TR03 linked to the alarm system.   |
|   |   | 4.2.2      | Wall mounted seven days graphic temperature recorder  |

| Clause | Description   | Sub-clause | Technical Particulars  |
|--------|---|------------|--|
|        |   |            | not using thermal paper.   |
|        |   | 4.2.3      | Provide a backup gas or vapour pressure dial thermometer complying with PQS E006/TH02, mounted on the wall of the cold room in an accessible position.   |
| 4.3    | <b>Alarm &amp; Buzzer</b>                                       | 4.3.1      | Provide a mains-operated audible and visible loud alarm with battery backup and automatic recharge, which is triggered in the event of mains failure or when the cold room temperatures are outside set limits.  |
|        |   | 4.3.2      | In case of a triggered event, the acoustic alarm unit must comply as per specification WHO/PQS/E06/AL01-01 or with E006/TR03   |
|        |   | 4.3.3      | Alarm sounders are to be located adjacent to the cold room.  |
|        |   | 4.3.4      | Buzzer system : Visual indicator along with buzzer alarm system should be provided to alert the user in the following events :<br>(a) Power failure alarm<br>(b) High pressure (dirty condenser) alarm<br>(c) Open door alarm<br>(d) Probe failure alarm |
|        |   | 4.3.5      | It should have back-up battery for control its panel   |
| 5.0    | <b>Storage Condition</b>  | 5.1        | Storage conditions to be maintained at (-) 20deg C $\pm$ 5deg C continuously, control by thermostat on each cold room.   |
| 6.0    | <b>Shelves</b>  | 6.1        | Cold room(s) to be fitted with locally made/manufactured, running height adjustable perforated shelves (slotted shelves will be preferred)   |
|        |   | 6.2        | 600 mm wide at 600 mm spacing;   |
|        |   | 6.3        | Four shelves above the ground all around the wall and intermediate shelves should be placed suitably.  |
|        |   | 6.4        | The total area covered by shelves should be at least 42% of the ground area.   |
|        |   | 6.5        | There should be a minimum 900 mm distance in between two intermediate racks, to facilitate the movement of men and material.   |
|        |   | 6.6        | The final drawing of the room with shelves will have to be got approved from the authorities after placement of NOA.   |
|        |   | 6.7        | The material of the shelves should be non corrosive 304 grade stainless steel to take load of at least 0.075kg/cm <sup>2</sup> .   |
|        |   | 6.8        | The top face of the lowest shelf must be mounted 200 mm above the floor.   |
|        |   | 6.9        | Shelving must be washable.   |
| 7.0    | <b>System Configuration Accessories, spares and consumables</b> | 7.1        | Deleted  |
| 8.0    | <b>Environmental factors</b>                                    | 8.1        | The unit shall be capable of operating continuously in ambient temperature of 5 to 45°C and relative humidity of   |

| Clause | Description                           | Sub-clause | Technical Particulars  |
|--------|---------------------------------------|------------|--|
|        |                                       |            | 95%  |
| 9.0    | <b>Installation:</b>                  | 9.1        | Complete installation, testing and commissioning is to be done by the supplier inclusive of:<br>(a) Installation of stabilizer,<br>(b) Drainage system<br>(c) Assembly of the panels<br>(d) Refrigerator units,<br>(e) Data logger<br>(f) Adequate smoke evacuation system, Generator, as per CPCB.<br>(g) All other related work required for installation as per WHO PQS and guidelines.<br>(ii) Separate earthing must be provided respectively for Genset and WIF<br>The installation and commissioning will be done by supplier |
| 10.0   | <b>Power Supply</b>                   | 10.1       | Power input: 220-240V/ 50 Hz AC Single phase or 380-400V AC 50 Hz, three phase.  |
|        |                                       | 10.2       | Fitted with ISI marked, 15 ampere, Indian M-plugs and sockets.   |
|        |                                       | 10.3       | Diesel Generating set of 15 KVA should be supplied as per specifications enclosed (ANNEXURE-1)   |
|        |                                       | 10.4       | Suitable automatic voltage regulator/stabilizer meeting IS 9815, IEC 60335-1 & IEC 60364-1 specifications should be supplied. Broad Specifications are as enclosed (ANNEXURE-2):   |
|        |                                       | 10.5       | Voltage regulator should have capacity to take load of both refrigeration units (main as well as standby).   |
| 11     | <b>Standards, Safety and Training</b> | 11.1       | Electrical and refrigeration components and the panels should have:  |
|        |                                       | 11.2       | National or international approvals like UL, IEC 60335 -1 2006   |
|        |                                       | 11.3       | Safety of household & similar electrical appliances. / IEC 60364-1, / ISO 20282-1:2006   |
|        |                                       | 11.4       | Ease of operation of every day products ,/ Electrical safety rating: meet IEC 60335-1, IEC 60364-1- Voltage, frequency & phasing: single phase, three-phase - voltage stabilizers and surge protections.   |
|        |                                       | 11.5       | All operational and maintenance training by trained personal of manufacturer to the end users after successful installation and commissioning.   |
| 12     | <b>Warrantee:</b>                     | 12.1       | <b>Provide</b> Comprehensive warranty for 5 years, ensure provision of consumables including spares and accessories within the warranty period excluding batteries( warranty as per manufacture norm, minimum of two years) and diesel for DG set.   |
|        |                                       | 12.2       | Provide commitment and quote for Comprehensive Maintenance Contract (CMC) for 5 years after the 5  |

| Clause | Description                                     | Sub-clause | Technical Particulars  |
|--------|---|------------|--|
|        |   |            | years  |
|        |   | 12.3       | Guarantee for availability of spares for 10 years after warranty.  |
| 13     | <b>After Sales Service:</b>                     | 13.1       | Should have local / regional authorized service facility.  |
|        |   | 13.2       | The service provider should have the necessary equipments and spares recommended by the manufacturer to carry out preventive maintenance and repair as per guidelines provided in the service/maintenance manual.  |
| 14     | <b>On-site maintenance:</b>                     | 14.1       | All minor repairs should be attended to and completed within 24 hours of the intimation.   |
|        |   | 14.2       | Any major break down ( e.g. compressor failure, gas leakage, control panel burn-out) must be attended to and put back into functional condition within seven days following first intimation.  |
|        |   | 14.3       | If both refrigeration system have failed, at least one refrigeration system must be repaired or replaced within 24 hrs.  |
| 15.0   | <b>Documentation: Certification and Manuals</b> | 15.1       | The following Test certificate should be submitted at the time of prototype inspection for:<br>(a) Cool down time,<br>(b) Running test as per WHO quality Assurance Protocol WHO/PQS/E001/CR-FR01-VP2 of any capacity from an independent laboratory approved /recognized by WHO/UNICEF/National Accreditation board/ILAC/STQC lab is essential. |
|        |   | 15.2       | Separate Certificate of inspection for tendered item from an independent laboratory approved/recognized by WHO/UNICEF/National Accreditation Board/ILAC/STQC Labs or third party inspection agency as mentioned in the NOA is essential and is required to be submitted at the time of delivery.   |
|        |   | 15.3       | List of important spare parts, and accessories with their part number and costing.   |
| 16     | Installation instructions:                      | 16.1       | Provide a comprehensive, illustrated (including all wiring diagrams ) with step-by-step installation manual suitable for use by the installer, covering the unpacking, assembly, testing and commissioning of all the system components, including safe working procedures to be observed.   |
|        |   | 16.2       | The manual must be supplied in triplicate - one copy for the employer, one for the installer and one for the maintenance contractor.   |
|        |   | 16.3       | Installation should be done as per annexed indicative drawing at Annexure 3  |
| 17     | Service instructions:                           | 17.1       | Provide a comprehensive, illustrated service and workshop manual, suitable for use by the maintenance contractor, covering all the system components, including  |



| Clause | Description                               | Sub-clause | Technical Particulars  |
|--------|---|------------|--|
|        |   |            | safe working procedures to be observed.  |
|        |   | 17.2       | The manual must be supplied in duplicate - one copy for the employer and one for the maintenance contractor.   |
| 18     | User instructions:                        | 18.1       | Provide a comprehensive, illustrated maintenance manual suitable for the user and covering all aspects of safe operation and routine non-specialist maintenance of the cold room.  |
|        |   | 18.2       | The manual must be supplied in duplicate - one copy for the employer and one for the maintenance contractor.   |
|        |   | 18.3       | Log book with instruction for daily, weekly, monthly and quarterly maintenance checklist.  |
| 19.0   | <b>Post commissioning certifications:</b> | 19.1       | Test certificate of inspection for all test, as per WHO quality Assurance Protocol WHO/PQS/E001/CR-FR01-VP2 of installed cold room from an independent laboratory approved /recognized by WHO/UNICEF/National Accreditation board/ILAC/STQC lab or third party inspection agency specified in the NOA after installation and commissioning of cold room to be submitted along with Final Acceptance Certificate. |

**ANNEXURE-1****Diesel Generating set****1. Description of Function and capacity**

- 1.1 The cold room are typically connected to a standby DG set as a power backup.
- 1.2 It should be automatically switched ON as soon as there is grid power failure and switched OFF as soon as the grid power is returned back.
- 1.3 The capacity of the DG set should be as per the para no. 10.3 of technical specifications of WIF

**2 Detailed Specification for alternator, diesel engine and Automatic Mains Failure (AMF) control panels :****2.1 Alternator :**

- 2.1.1 The Alternator shall be self excited and self regulated of specified KVA rating in three phase at 415 Volt, 50 Hz, 1500 RPM and 0.8 power factor (PF) and shall conform to IS:13364 (Part 1):1992 (reaffirmed 2003) . The alternators shall be of brush less type with VG-1 Grade or better grade of voltage regulation.
- 2.1.2 The alternators shall be screen-protected drip proof with Minimum IP-21 degree of protection as per IS:4691/85. The class of insulation of the Alternator would be 'H'. The rated voltage of Alternator will be 240V for single phase & 415V for three phase.

**2.2 Diesel Engine (Naturally Aspirated):**

- 2.2.1 Diesel Engine shall be air or water cooled as specified, electric start developing required B.H.P at 1500 RPM with Class A-2 Governing or better for alternator to deliver specified continuous KVA output at 0.8 pf LAG at NTP conditions (all rating shall be tested at 0.8 PF lag). The Diesel Engine should be capable of providing 10% overload for one hour for every 11 hours continuous running at full load.

- 2.2.2 Naturally aspirated engines of rating up to and including 20KW shall be ISI MARKED as per IS:10001/1981 (re-affirmed 2006).
  - 2.2.3 The specific fuel consumption of engine shall be as per IS specification.
  - 2.2.4 The Diesel Engine shall be complete with the following accessories:
  - 2.2.5 Fuel tank with capacity for 72 hours continuous running at full load.
  - 2.2.6 Engine instrument Panel consisting of starting switch with Key, Lube Oil temperature and pressure gauges, (water temperature gauge in case of water cooled engines), RPM indicator and hour meter.
  - 2.2.7 Safety controls to shut down the engine in the event of low lube oil pressure or high cylinder head temperature in case of air-cooled engines or high water temperature in case of water-cooled engines.
  - 2.2.8 Radiators in case of water-cooled engines.
  - 2.2.9 Exhaust silencer of Residential type.
  - 2.2.10 12V starting system complete with starter motor, charging alternator and Cut-out.
  - 2.2.11 Lead Acid Battery or semi maintenance free battery of suitable ratings with connecting cables and the battery/ies shall conform to relevant IS Specification.
  - 2.2.12 Standard set of tools required for service and maintenance of the DG set shall be provided to the consignees along with each DG set.
- 3 AMF Control Panel :**
- 3.1 Automatic mains failure (AMF) control panel shall start up the DG set and take the load in case of the mains failure without requiring any human intervention.
  - 3.2 Similarly on return of mains supply, the AMF control unit shall transfer the load back to mains supply and switch off the DG set automatically.
  - 3.3 The AMF panel shall be enclosure with the IP-23 degree of protection confirming to IS/IEC 60947 (Pt-1)/2004, fabricated from minimum 1.5 mm thick steel sheet duly pre-treated and aesthetically finished.
  - 3.4 The AMF Control Panel shall have the following components :
  - 3.5 Microprocessor based relay with composite meter for digital display / components :
    - 3.5.1 Generator voltage/AC Mains voltage.
    - 3.5.2 Generator Current.
    - 3.5.3 Power Factor.
    - 3.5.4 Frequency
    - 3.5.5 Energy
    - 3.5.6 Three attempts engine start/engine cranking relay.
    - 3.5.7 On -delay timer for load change over
    - 3.5.8 On-delay timer for engine shut off
    - 3.5.9 Over current relay.
    - 3.5.10 Mode selector switch for setting the panel on any one position such as off or auto or manual or test.
    - 3.5.11 Engine On-Off switch (Push button type)
    - 3.5.12 MCCB of suitable rating shall be provided.
    - 3.5.13 Rectangular aluminium bus bars (one number for each phase, neutral and Earthing terminal) of adequate ratings duly colour coded with heat shrinkable PVC sleeves.
    - 3.5.14 Two contactors of suitable rating (one for DG set & one for AC mains) with over load relay
    - 3.5.15 Under-voltage relay for mains.
    - 3.5.16 Battery charger complete with voltage regulator, float or booster selector switch, on-off switch, voltmeter and ammeter for charging the battery from mains. (This will be in addition to the battery charging alternator fitted on the engine).
- 4 Instrument & Control Fuses.**
- 4.1 Five number indicating lamps to indicate 'mains ON', 'load on mains', 'set running', 'load on set' and 'battery charger on'.
  - 4.2 Audio visual alarm for:
    - 'Low lubricating oil pressure',
    - 'High water temperature'(for water cooled),

'High cylinder head temperature'(for air cooled)  
Start failure' and 'DG over load'.

Any other switch, instrument, relay or contactor etc. essential for smooth and trouble free functioning of DG set with AMF panel. (To be specified by the tenderers in their offer with complete details of the item).

## 5 Type test certificate

- 5.1 Supplier shall furnish complete & satisfactory Type Test Certificate (TTC) for engines, alternators complete with enclosure to be used by them for EACH rating of DG sets clearly indicating make, model and ratings of the DG sets tested at the time of registration and pre-dispatch inspection.
- 5.2 The TTC of three phase alternators shall cover 'unbalanced load test' as per cl.24 of IS:13364(part-1 or part-2)/1992 as applicable. However all the engine models /ratings shall need relevant certifications as per norms.
- 5.3 Either of the following types of TTC shall be acceptable:
  - 5.3.1 Type Test Certificate issued by recognized Government Lab. Irrespective of whether engines and alternators were tested at firm's lab or some other lab, but witnessed by Government representative.
  - 5.3.2 Type Test Certificate issued by BIS, irrespective of engines and alternators were tested at firm's lab or some other lab, but witnessed by BIS/ Government representative.
  - 5.3.3 Type Test Certificate issued by DQA on basis of test conducted at manufacturer's lab in presence of DQA officers.
- 5.4 The testing of diesel generating sets, for all ratings, shall be done at 0.8PF
- 5.5 Testing shall be done at continuous power output for each rating.

6 Necessary gauge/ meters shall be fitted to indicate

- 6.1 The quantity of fuel left in the fuel tank, and
- 6.2 hours of DG set operation.

7 DG Sets shall be provided with integrated acoustic enclosure which shall conform to norms of Central Pollution Control Board (CPCB).

8 The acoustic enclosure offered shall conform to the drawings type approved by Govt lab, for conformity to noise norms. This aspect shall also be verified at the time of inspection.

9 DGsets shall meet the requirements of Environmental (Protection) Rules1986 as laid down by Min. of Environment & Forests read with GSR 371 (E) dated 17.5.2002, GSR 520(E) dated 01.7.2003 and No.448(E) dated12.07.2004 in respect of noise and emission norms. DG sets shall also meet all other statutory requirements as notified by Govt. from time to time.

10 Supplier shall furnish following documents issued by a Govt authorized agency at the time of registration and pre-dispatch inspection:

- 10.1 Type approval certificate (TAC) for emission norms for each model/ family of Engine.
- 10.2 TAC from for noise level norms EACH model of DG set.
- 10.3 COP (Conformity of Production verification certificate for noise limit) for each model of DG set and engine used in DG set.
- 10.4 Scope of supply shall include supply, Installation and commissioning of the complete DG set at the consignee's

## 11 Documentation :

- 11.1 User's manual,
- 11.2 Service manual
- 11.3 List of minimum spares
- 11.4 Installation instruction

## 12 Warrantee:

- 12.1 Provide 5 years of warrantee with 5 years of CMC.
- 12.2 Guarantee for availability of spares for 10 years after warrantee.

**Servo Voltage Stabilizer**

**1. Description and capacity of Equipment:**

- 1.1 Voltage stabilization and surge protection is required for protecting the refrigeration units against any short or long voltage fluctuations.
- 1.2 The stabilizer should meet the requirements of the different electrical components of the cold room.
- 1.3 Capacity as per para 10.4 of specifications of cold room.
- 1.4 All the components used in the assembly of line voltage correctors shall conform to relevant IS specification.
- 1.5 Tenderers shall indicate make and specification of main components in their offer.
- 1.6 Servo Motor operated line voltage corrector is a safety/difficult item. As such the firm registered with NSIC are required to get their capacity assessment report from the concerned DQA.

**2 Specification :**

- 2.1 Servo Motor operated automatic line voltage correctors (LVC), copper wound Indoor type, continuous duty, conforming to IS: 9815(Pt.1)/1994 (Reaffirmed 2004) suitable for phase Voltage of 160-260 Volts.
- 2.2 Three phase line voltage correctors shall comprise of three single phase line voltage correctors, conforming to IS: 9815 (Pt.1)/1994 ( Reaffirmed 2004), connected in star and enclosed in a single enclosure with common control panel and shall be suitable for unbalance input voltage.
- 2.3 Rated output voltage shall be 240V for single phase LVC and 415V for three phase LCV respectively.

**3 Documentation :**

- 3.1 User's manual,
- 3.2 Service manual
- 3.3 List of minimum spares
- 3.4 Installation instruction

**4 Warrantee:**

- 4.1 Provide 5 years of warrantee with 5 years of CMC.
- 4.2 Guarantee for availability of spares for 10 years after warrantee.

**Drawing Notes.....Please refer the diagram.**

- For Mono block cooling units WIC/WIF the size can be accommodate is up to 40 CBM with minimum clearances mentioned at front/rear & side of the levelled concrete foundations.
- **These clearances may vary according to make and model of WIC-WIF, as they are all different.**

**Split systems Refrigeration Units..... (Diagram is not drawn)**

- The split system refrigeration units can be used in the same available space where ventilation is inadequate or temperature is high.
- **For the split system refrigeration units the clearance of 1500mm is recommended at rear portion of WIC/WIF.**
- **Condensing unit should be preferably on the platform on the back side of the WIC/WIF.**

**Note: For both type of installations, the lay out can be changed depending upon the site condition, but overall dimensions should remain same.**

**PRE-INSTALLATION INSTRUCTIONS FOR WICs AND WIFs.****General**

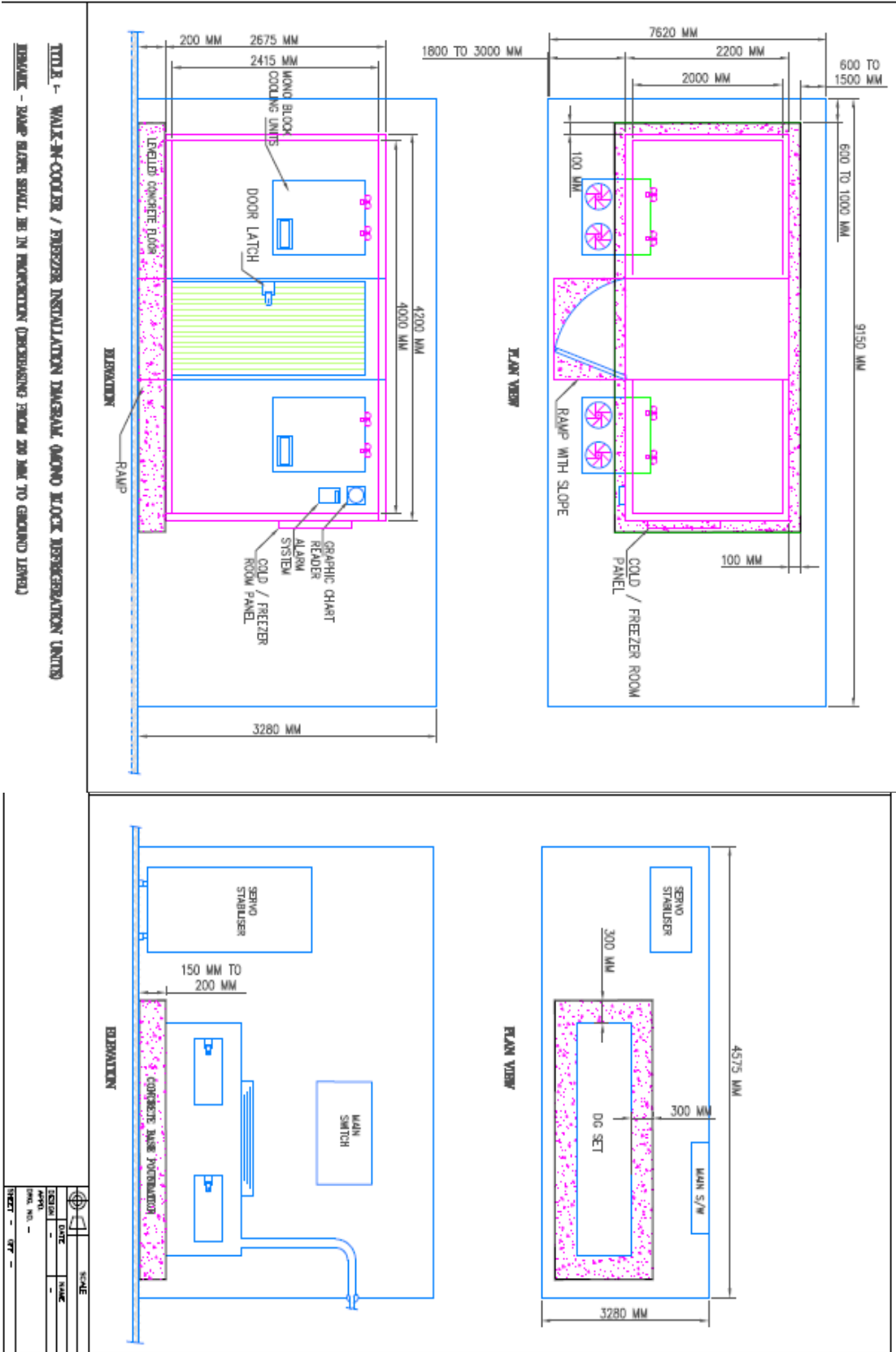
- Please ensure that the goods will be on the actual installation site within carrying distance from the final location before the arrival of the engineer (if supplier will carry out the installation)  
Storing of the goods should be done in a covered and secured area
- Please ensure that the intended installation site is cleared and ready for immediate installation to start
- The installation space should be with adequate ventilation or windows which can be opened on the top of the existing wall(s) with netting/burglar proof grills
- The crates will be opened by engineers from the supplier to verify that all pieces of equipment have arrived as packed by the supplier
- Please ensure that there is local unskilled labour available for carrying the materials and doing minor installation work such as installation of the floors, walls and ceiling panels as well as doors and shelving under the supervision of supplier engineer
- For the electrical installation it would be good to have a local electrician present to assist in the installation and final connection to the local supply network
- During installation it is preferred that all technical personnel who will be responsible for the future daily operation, maintenance and service of the room(s) will be present and participating in the installation work thereby getting a thorough understanding of the equipment.
- **Concrete platform size should be according to make and model of WIC-WIF, as they are all different.**
- **Ensure that there is water drainage facility available from concrete platform to outside.**

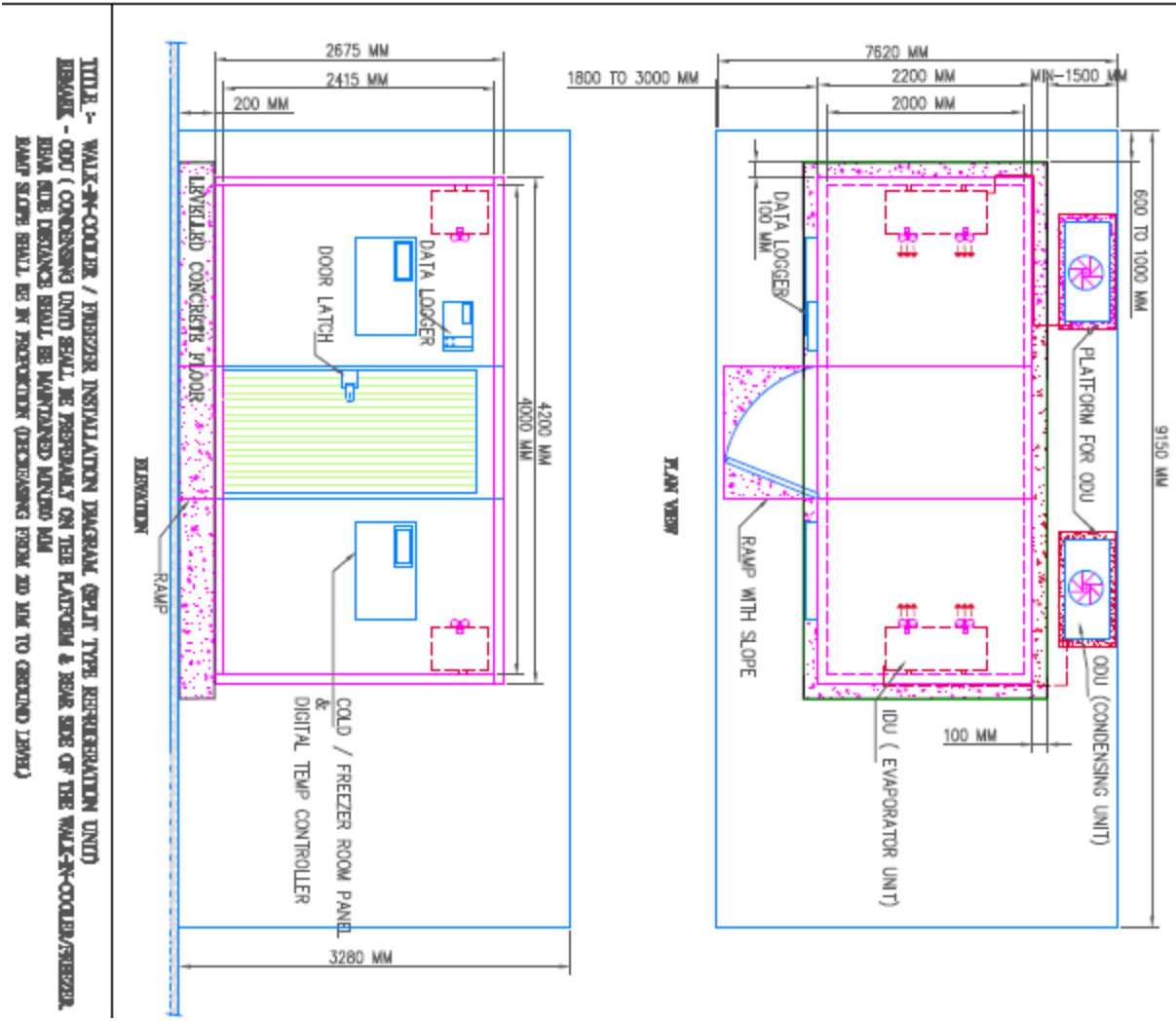
### **Prefabricated rooms**

- The doors of the WIC are located in the middle of one of the long walls
- **There should be a free space of preferably 2.5 – 3 metres in the front of the door wall for easy access to the room as well as handling and possible repacking of the stored goods**
- **Preferably installation is to be done on a levelled concrete floor**
- **As the rooms are made of prefabricated insulation panels the levelling / base evenness requirement is +/- 3 mm / 3 m and +/- 5 mm / 5 m**
- The entrance door to the space where the installation of the room(s) is to be done should be about 900 mm wide so that panels and other pieces of equipment can be easily carried through the door opening

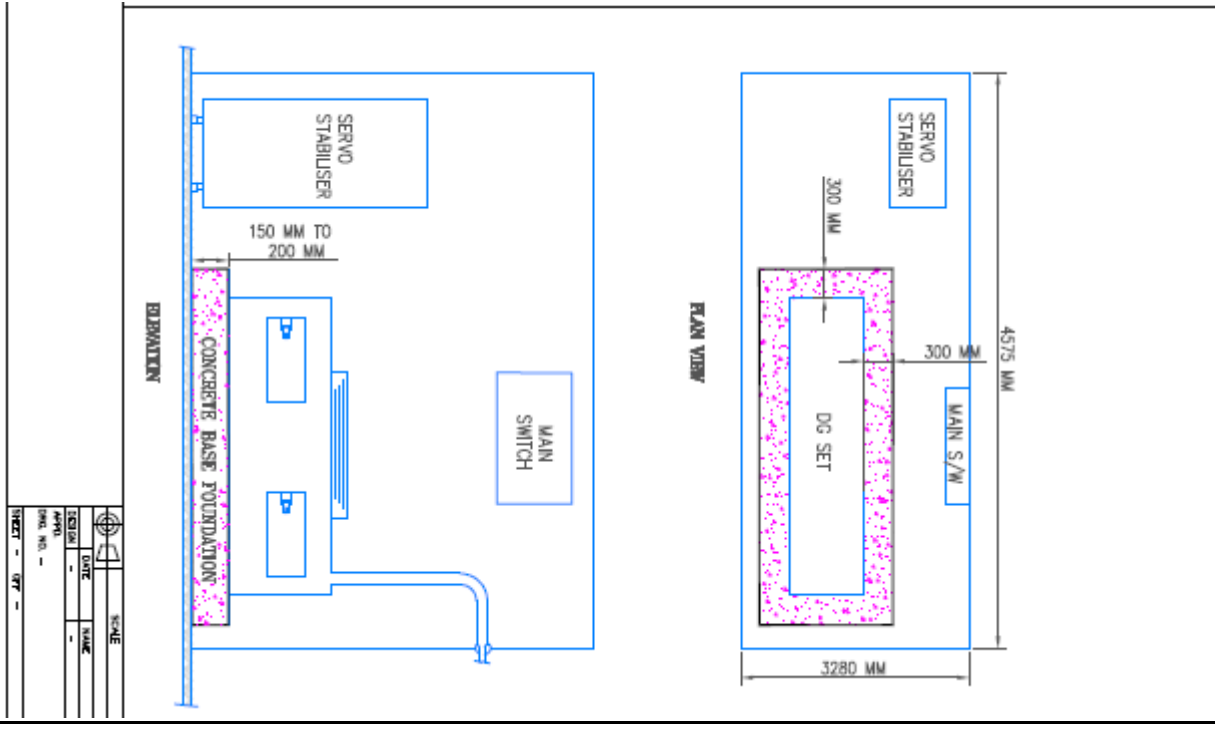
### **Electrical supply and power consumption for WICs and WIFs**

- Please ensure that Grid Power supply is available in the installation premises.  
i.e. A.C., 3-phase, 380-400V, 50 Hz, with proper switch box/distribution board with fuses and a main switch for the local national grid.









**Schedule No. 10****Refrigerated Truck**

| Clause                | Description                  | Sub-clause | Technical Particulars  |
|-----------------------|------------------------------|------------|--|
| 1.0                   | Storage Capacity             | 1.1        | Refrigerated vaccine compartment capacity: 32 cum  |
| 2.0                   | <b>Applications</b>          | 2.1        | The refrigerated truck is required to transport large quantity of vaccine from GMSD to state and regional vaccine stores, where long distances are covered maintaining as per para-3.0 in the insulated compartment.   |
|                       |                              | 2.2        | A single-phase motor compressor cooling unit, operating on 220 Volts, mounted on the driver's cabin.   |
|                       |                              | 2.3        | During the normal operation / running of the vehicle, the compressor shall be powered through a diesel generator. It should also have a provision to connect to external electric power source, in case of long halt at one location with vaccine load or any emergency such as diesel generator failure, or fuel shortage.. |
| 3.0                   | <b>Temperature recording</b> | 3.1        | The Refrigeration unit must maintain the interior of the insulated body / vaccine storage compartment at a temperature between + 2 deg. C to +8 deg C at any point, with full load or no load of vaccine.  |
|                       |                              | 3.2        | The specified temperature must always be maintained continuously, so long as any vaccine is expected to be loaded, or is in all ambient temperature conditions.  |
|                       |                              | 3.3        | The temperature gradient should not be more than 2 deg C across any two points in vaccine compartment.   |
|                       |                              | 3.4        | There should be provision to continuously monitor the temperature of the storage compartment. There should be a visual indicator at the dashboard for the driver to observe any temperature variation during the transport / storage of the vaccine load in the vehicle.   |
|                       |                              | 3.5        | There should be provision to keep hard and soft copy records of the continuously monitored temperature. These records need to be maintained for a minimum of three years.  |
| <b>Insulated Body</b> |                              |            |  |
| 4.0                   | <b>Structure</b>             | 4.1        | The body comprises of outer and inner panels and an insulating material.   |
|                       |                              | 4.2        | The outer and inner panels should be of cold rolled (CR) sheet / stainless steel / Glass Reinforced plastic (GRP) or aluminium.  |
|                       |                              | 4.3        | Inner chamber should not be connected with outer enclosure or doors through any thermally conductive material or joints.   |
|                       |                              | 4.4        | The vaccine compartment should be reinforced appropriately to manage structural integrity and to handle 6000 kg pay load.  |
|                       |                              | 4.5        | Internal ceiling-mounted low energy fluorescent or LED   |

| Clause | Description                                | Sub-clause | Technical Particulars   |
|--------|--|------------|---|
|        |  |            | luminaires should be used for lighting of the vaccine compartment with an external switch with pilot light on the dashboard   |
|        |  | 4.6        | The cargo chamber should have powder coated adjustable shelves having depth of 450mm and width 750mm running along the long sides.  |
|        |  | 4.7        | Provision for two shelves in the cargo chamber along the two longer side walls.   |
|        |  | 4.8        | The storage rack should have mechanism for bracing the vaccines cartons to prevent any movement or drop during the movement of the vehicle.   |
|        |  | 4.9        | The bottom most shelf should provide a ground clearance of 100 mm.  |
|        |  | 4.10       | The floor of the Vaccine storage compartment should be of robust structure capable of supporting the pay load and the movement on account of material handling.   |
|        |  | 4.11       | There should be a camera facing the rear door and lock with screen in driver's cabin so that the driver can keep watch on rear door during travelling..   |
|        |  | 4.12       | Four drainage points should be placed close to four corners with screw type cap at outside and removable plug from inside.<br>The caps and plugs should be so attached to prevent them from getting lost. |
|        |  | 4.13       | The body should be in the aerodynamic shape from the front.   |
|        |  | 4.14       | The roof should have slightly sloped to avoid accumulation of any rain water on its top.  |
|        |  | 4.15       | Corners of the Vaccine storage compartments should be smooth without sharp edges.   |
|        |  | 4.16       | Outer body should be painted white to reflect Sun light   |
| 5.0    | <b>Outer panel – roof and side walls</b>   | 5.1        | Suitable / SS / GRP Aluminium or CR sheets with quality PUF insulation to meet the pay load requirement and general wear and tear abuses.   |
|        |  | 5.2        | Reinforcements / columns / sections must be used everywhere to maintain structural strength and integrity so as to support racks, ducts, fans, people movement, straps and hooks etc.                     |
|        |  | 5.3        | Refrigeration unit with DG Set must be supported on outer enclosure, properly reinforced, with adequate protection of the unit from natural elements.   |
|        |  | 5.4        | Outer body should be totally leak-proof, to protect insulation and payload.   |
|        |  | 5.5        | Refrigerator unit and DG set enclosure must have provision to drain rain water, any fuel leakage etc.   |
| 6.0    | <b>Inner panel – side wall and ceiling</b> | 6.1        | Suitable SS/GRP Aluminium or CR sheets with minimum 6 mm marine grade ply wood on walls.  |
|        |  | 6.2        | All joints should be sealed with good quality durable   |

| Clause                    | Description               | Sub-clause | Technical Particulars  |
|---------------------------|---------------------------|------------|--|
|                           |                           |            | sealants and fastened with SS screws adequate reinforcement of the inner walls to support air blower / duct network running along ceiling to provide uniform cooling in the cargo chamber.   |
| 7.0                       | <b>Floor</b>              | 7.1        | Floor must be of minimum 5 mm slip proof aluminium checkered plate, fastened on 19mm solid marine grade wood.  |
|                           |                           | 7.2        | It should rest on reinforcements filled/ covered with PUF, over strong, steel / GRP/ wooden outer base.  |
|                           |                           | 7.3        | Shelf to shelf walking way of the floor should be covered with the perforated non-slip rubber mat of minimum 20 mm thickness.  |
| 8.0                       | <b>Door</b>               | 8.1        | Two leaves with outer and inner panels with thermal insulation identical to the rest of the compartment walls.   |
|                           |                           | 8.2        | It should be completely air sealed with FRP section and suitable PVC outer/ EPDM rubber inner profile.   |
|                           |                           | 8.3        | Both leaves should have multiple hinges (minimum 3).   |
|                           |                           | 8.4        | The door design should be in such a way that it should provide complete insulation from outside.   |
|                           |                           | 8.5        | The hinge and lock structure should lock the door at the bottom and top using latch bar cam lock.  |
|                           |                           | 8.6        | Doors should be connected to outer enclosure, suitably reinforced with steel / GRP / Aluminium or SS sections.   |
| 9.0                       | <b>Door opening</b>       | 9.1        | Opening angle Minimum 270°<br>There should be adequate mechanism to block the door in its open position.   |
|                           |                           | 9.2        | The opening must also be fitted internally with a clear plastic flexible strip curtain<br>There should be a clear plastic flexible strip curtain at the extreme end of the vaccine compartment towards the door to minimise exchange / loss of refrigerated atmosphere when the door/s are opened for loading and unloading of vaccines. |
| 10.0                      | <b>Insulation</b>         | 10.1       | The insulated material should be poly urethane foam (PUF)  |
|                           |                           | 10.2       | Minimum foam density of 30 kg /cubic meter, with suitable wall and floor thickness<br>10.3 Thermal Conductivity: Maximum 0.025w/m <sup>0</sup> K for PUF /0.6 W/m2 <sup>0</sup> K for cargo chamber at 10°C.   |
| 11.0                      | <b>Hold Over Time</b>     | 11.1       | The vaccine storage compartment should hold the inside temperature below 10 deg C at least for 3 Hours at the ambient temperature of 43°C when it is not opened.   |
| <b>Refrigeration unit</b> |                           |            |  |
| 12.0                      | <b>Refrigeration unit</b> | 12.1       | The refrigerant must comply with the Montreal Protocol. It must be CFC-free and preferably HCFC-free. It is preferable to use a refrigerant that has low or 0 GWP.   |
|                           |                           | 12.2       | The refrigeration equipment should be independently diesel powered.  |

| Clause                     | Description                   | Sub-clause | Technical Particulars   |
|----------------------------|-------------------------------|------------|---|
|                            |                               | 12.3       | There should be an automatic start-up and shut-down mechanism through electronic temperature control unit as defined in 17.   |
| 13.0                       | <b>Unit installation</b>      | 13.1       | The refrigeration unit is installed on the body above the drivers cabin of the vehicle.   |
|                            |                               | 13.2       | It should have suitable sized compressor, evaporator and control switches along with voltage stabilizer to maintain the temperature as defined in 3.0   |
| 14.0                       | <b>Power supply</b>           | 14.1       | An inbuilt DG set integrated with refrigeration system should be provided with a by-pass arrangement for the Motor.   |
| 15.0                       | <b>Stand by motor</b>         | 15.1       | A standby electric motor should be provided to drive the compressor of the refrigeration unit and maintain the internal temperature of the compartment at the desired level for pre-cooling the vaccine storage compartment or during extended stops. |
|                            |                               | 15.2       | A selector switch should be provided to select power option between diesel generator supply or 220 V single phase grid supply.  |
|                            |                               | 15.3       | An extension lead of 20 meters 3 core cable capable of carrying 15 amperes. (2.5 Sqmm multi strand Copper conductor each) should be provided to connect the grid supply to the electric motor.  |
|                            |                               | 15.4       | The cable connection should be of the type 20970 / 16 A.  |
|                            |                               | 15.5       | There should be adequate provision, preferably on the door of the vaccine storage chamber to roll the long electric cable in a manner to facilitate its storage and transport when not in use.  |
| <b>Temperature Control</b> |                               |            |   |
| 16.0                       | <b>Temperature Monitoring</b> | 16.1       | Effective air temperature monitoring with a minimum of two fixed sensors in the vaccine storage compartment.  |
|                            |                               | 16.2       | One sensor should be positioned below the cooling unit to measure return air temperature.   |
|                            |                               | 16.3       | Other sensor on the ceiling about three quarters of the way down the length of the compartment.   |
|                            |                               | 16.4       | In the case of a cooling unit, which does not use forced air, the air temperature should be measured above and below the load, to take into account the likely vertical temperature gradients.  |
|                            |                               | 16.5       | Sensors must be connected to a suitable recording instrument, permanently mounted in the vehicle cab.   |
|                            |                               | 16.6       | In addition to temperature recorder, the truck should be fitted with an instantaneous digital temperature display on the driver's dashboard.  |
|                            |                               | 16.7       | It should have visual as well as acoustic alarm system. As soon as the vaccine temperature crosses the safe range alarms alerts the driver.   |
|                            |                               | 16.8       | GSM based location tracker should also be provided with   |

| Clause                             | Description                       | Sub-clause | Technical Particulars   |
|------------------------------------|-----------------------------------|------------|---|
|                                    |                                   |            | cloud based/internet browser based monitoring, using free software to ensure that maximum permitted driving periods are not exceeded.   |
| 17.0                               | <b>Digital Control unit</b>       | 17.1       | A digital, programmable controller should allow auto & manual control of :<br>1. air humidity,<br>2. temperature control, 3. defrost feature.   |
|                                    |                                   | 17.2       | The control unit should provide visual indication of the following :<br>1. Power on / off<br>2. Compressor on,<br>3. Return air temperature,<br>4. Supply air temperature.<br>5. Temperature of return air fan,<br>6. Defrost operations. |
|                                    |                                   | 17.3       | The diesel level of DG set fuel tank should be visible at the dash board of the driver.   |
| 18.0                               | <b>Additional Accessories</b>     | 18.1       | A suitable size folding ladder should be provided.  |
|                                    |                                   | 18.2       | Footsteps and hand grips at the back for climbing in the cargo box should be provided.  |
|                                    |                                   | 18.3       | A hook for holding the cable of stand by motor at the inner side of the door should be provided.  |
|                                    |                                   | 18.4       | The vehicle, doors of the refrigerated body and all fuel cap should be fitted with security deadlocks.  |
| <b>Base Vehicle specifications</b> |                                   |            |   |
| 19.0                               | <b>Engine</b>                     | 19.1       | Diesel Engine   |
|                                    |                                   | 19.2       | Direct Injection,   |
|                                    |                                   | 19.3       | Turbo charged   |
|                                    |                                   | 19.4       | Inter-cooled.   |
| 20.0                               | <b>No. of Cylinder</b>            | 20.1       | In Line 6 Cylinder 4 Stroke direct ignition   |
| 21.0                               | <b>Capacity</b>                   | 21.1       | 5600 CC and above   |
| 22.0                               | <b>Minimum KW/RPM</b>             | 22.1       | Minimum 90 KW @ 2400 rpm  |
| 23.0                               | <b>Transmission</b>               | 23.1       | 5-4 Forward, 1 Reverse with power assisted steering mechanism.  |
| 24.0                               | <b>Clutch</b>                     | 24.1       | Dry single Plate  |
| 25.0                               | <b>Brakes</b>                     | 25.1       | Full Air S-cam brake  |
| 26.0                               | <b>Frame Section</b>              | 26.1       | Rectangular   |
| 27.0                               | <b>Cooling</b>                    | 27.1       | Water Cooled  |
| 28.0                               | <b>Voltage</b>                    | 28.1       | Suitable : 12 / 24 Volts  |
| 29.0                               | <b>Battery</b>                    | 29.1       | Suitable of reputed and easily available brand  |
| 30.0                               | <b>Fuel Tank</b>                  | 30.1       | Minimum: 150 Ltrs.  |
| 31.0                               | <b>Suspension</b>                 | 31.1       | Semi Elliptical Leaf Spring.  |
| 32.0                               | <b>Shock Absorbers Telescopic</b> | 32.0       | Hydraulic Double Acting Telescopic  |
| 33.0                               | <b>Tyres</b>                      | 33.1       | Radial/Nylon  |
| 34.0                               | <b>Wheel Base</b>                 | 34.1       | Minimum 4300 mm   |

| Clause                     | Description                            | Sub-clause | Technical Particulars  |
|----------------------------|--|------------|--|
| 35.0                       | <b>Weight Carrying capacity</b>        | 35.1       | 6000 Kgs or more   |
| 36.0                       | <b>Ground Clearance</b>                | 36.1       | Minimum 160mm under maximum load   |
| 37.0                       | <b>Wheel Drive</b>                     | 37.1       | 2 Wheel Drive  |
| 38.0                       | <b>Gross vehicle weight</b>            | 38.1       | Min. 11000 Kg.   |
| 39.0                       | <b>Turning radius</b>                  | 39.1       | Turning radius may not exceed 10.5 meters  |
| 40.0                       | <b>Emission norms</b>                  | 40.1       | As per prevailing norms of Government of India and CPCB guidelines at the time of supply.  |
| 41.0                       | <b>Standard tool Kit</b>               | 41.1       | Standard tool kit such as lifting jack, Wheel spanner, screw drivers etc. should be provided with each vehicle.  |
| <b>Testing requirement</b> |  |            |  |
| 42.0                       | <b>Air tightness test of the doors</b> | 42.1       | 0.5 cum per hour or less   |
| 43.0                       | <b>Temperature Mapping</b>             | 43.1       | Maximum difference between any 2 points of the storage compartment is less or equal to 2 deg C.<br>The minimum should never be below 0 deg C, and the maximum should never be above 10 deg C. when the average is respectively 2 and 8 deg C.  |
| 44.0                       | <b>Heat Leakage test</b>               | 44.1       | Once stabilized, temperature should not rise above 10 deg C in 3hours at 50 deg. C.  |
| 45.0                       | <b>Certificates of testing</b>         | 45.1       | All above mentioned test should be conducted through an approved laboratory by the Government of India and the equipment should be supplied along with roadworthiness certificate from ARAI / other NABL bodies.   |
|                            |  | 45.2       | The temperature monitoring device should be supplied with a traceable certificate of calibration which must be renewed annually.   |
|                            |  | 45.3       | The certificate should be valid for the range of temperatures (+ 2 to +8 Deg C) that the device normally measures.   |
| 46.0                       | <b>Spare parts</b>                     | 46.1       | A list of in country dealer network should be provided which holds the spare parts for the vehicle as well as for refrigeration unit.  |
|                            |  | 46.2       | Provide a list of most commonly required spares along with cost.   |
| 47.0                       | <b>Workshop and operating manuals:</b> | 47.1       | <b>Provide the following manuals in English:</b> <ol style="list-style-type: none"> <li>1. User's operation manual for the refrigeration unit</li> <li>2. Maintenance with trouble shooting manual for refrigeration unit</li> <li>3. User's manual for the vehicle</li> <li>4. Service and repair manual for vehicle with details of periodic maintenance.</li> </ol> |
| 48.0                       | <b>Warranty</b>                        | 48.1       | One year plus two years extended warranty for truck chassis, refrigerated box and refrigeration system.  |

**Schedule No. 11**

**Equipment Specifications for “Freeze Marker” for transportation of freeze sensitive vaccine**

1. **Product Description (Purpose and function)**  
Freeze Marker is required for transportation of freeze sensitive vaccine to ensure the maintenance of cold chain. Battery operated electronic irreversible freeze indicator, with integrated temperature sensor (+/- 0.5'C accuracy) that changes display from [Good] to [BAD] when exposed to -0.5'C for 60 minutes or more, to indicate exposure to FREEZING range.
2. **Operational Requirements**  
The exposure duration should be NON-CUMMULATIVE (Not a sum of multiple exposures to -0.5'C, totaling 60 minutes or more).  
A blinking LED or a blinking (Once in 5 seconds or less) dot on LCD display is required to suggest that device is functioning.
3. **Technical Specifications, including accessories, spares, consumables**
  1. Material- ABS casing/ dust & moisture proof sealed construction.
  2. Temp range- -20'C - +55'C
  3. Humidity range - 95%RH
  4. Accuracy - +/- 0.5'C or better
  5. Minimum logging interval- 1 minute (Preset)
  6. Display- LCD screen 10mm x 10mm or bigger/shows battery is working/unit activated/ exposure within safe range/ exposure to freezing range.
  7. Display contrast- Should be clearly visible at 100 lux.
  8. Weight- Not critical.
  9. Size- Not exceeding 10 cm x 5 cm x 2.5 cm
  10. Programming- Factory programmed
  11. Battery life- Minimum 3 years including Post-activation operational battery life.
  12. User activation- Required.
  13. Provision to stop/ reset by user- No.
  14. Sticker on the back describes activation procedure/description of display for battery/ activation/ good or bad status.
  15. IP rating-64/67
  16. Product should have self-adhesive tap/ eyelet to mount device with vaccine load/ inside ILR.
  17. Individually packed, with user instructions / essential product details in English and Hindi.
4. **PQS, standards, calibration/ certification**
  1. ISO-9001: 2008
  2. Product should qualify WHO PQS standard E006/007 [Specification reference-WHO PQS E06/IN03.1]
5. **Configuration/ user programming**  
Non-programmable, irreversible design, with one start button/ no stop button.
6. **Environmental/ safety factors/ disposal guidance**
  1. Conformity to Montreal protocol/ non-utilization of hazardous chemicals.
  2. As per WHO PQS guidance.
7. **Quality Assurance/ Product verification/ Testing protocol/ methods and checklists of tests**
  1. Independent third party Quality Assurance/ Product verification/ Testing laboratory
  2. Product specification verification protocol- WHO PQS E06/IN03.VP.1 and associated standards.
8. **Training, demonstration, and documentation / manuals**
  1. User instructions / essential product details in English and Hindi on unit/ as instruction sheet.
  2. Training- Colored brochure and CD/DVD with easy to understand Video on product features/ activation, display and interpretation (English & Hindi) - one set for each 200 units' / standard packing.
9. **Warrantee management/ liability**
  1. One year replacement warrantee against manufacturing defects.



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**GENERAL TECHNICAL SPECIFICATIONS**

**GENERAL POINTS:**

1. Warranty:
  - a) As per GCC Clause 15.
  - b) 98% up time Warranty of complete equipment with extension of Warranty period by double the downtime period on 24 (hrs) X 7 (days) X 365 (days) basis.
  - c) All software updates should be provided free of cost during Warranty period.
  
2. After Sales Service:

After sales service centre should be available at the Capital City of State on 24 (hrs) X 7 (days) X 365 (days) basis. Complaints should be attended properly, maximum within 48 hrs. The service should be provided by Tenderer/Indian Agent. Undertaking by the Principals that the spares for the equipment shall be available for at least 10 years from the date of supply. The supplier will provide a monthly statement of details of complaints received, attended, response time, spare parts replaced and recouped to the consignee, state and MOHFW.
  
3. Training:
  
4. On Site training to operators/Technicians/staff is to be provided by Principal/Indian Agents (if they have the requisite know-how) for operation and maintenance of the equipment to the satisfaction of the consignee.
  
5. Annual Comprehensive Maintenance Contract (CMC) of subject equipment with Turnkey:
  - a) The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/service/operational manual of the manufacturer, labour and spares, after satisfactory completion of Warranty period may be quoted for next 5 years on yearly basis for complete equipment and Turnkey (if any) except Low Voltage Stabilizer (Item Sl. No. 6) & Stem Thermometer (Item Sl. No. 7).
  - b) The cost of CMC may be quoted along with taxes applicable on the date of Tender Opening. The taxes to be paid extra have to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
  - c) Cost of CMC will be added for Ranking/Evaluation purpose.
  - d) The payment of CMC will be made on six monthly basis, after satisfactory completion of said period, duly certified by end user on receipt of bank guarantee for 2.5% of the cost of the equipment as per Section XV valid till 2 months after expiry of entire CMC period.
  - e) There will be 98% up time warranty during CMC period on 24(hrs) X 7(days) X 365(days) basis, with penalty, to extend CMC period by double the down time period.
  - f) During CMC period, the supplier is required to visit at each consignee's site at least once in 6 months commencing from the date of the successful completion of warranty period for preventive maintenance of the goods.
  - g) All software updates should be provided free of cost during CMC.
  - h) Failure of the above [4.e) to 4.g)] by the supplier, may lead to the forfeiture of the Bank Guarantee for Annual CMC.
  - i) The payment of CMC will be made as stipulated in GCC Clause 21.

**6. Turnkey:**

Turnkey is indicated in the technical specification of the respective items, wherever required. The Tenderer shall examine the existing site where the equipment is to be installed. Turnkey details are given at the end of Technical Specification. The Tenderers to quote prices indicating break-up of prices of the Machine and Turnkey Job for each site. The Turnkey costs may be quoted in Indian Rupee will be added for Ranking Purpose.

The taxes to be paid extra have to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such duties and taxes and no claim for the same will be entertained later.

The Turnkey Work should completely comply with AERB requirement, if any.

**SECTION - VIII**

**Quality Control Requirements**

(Proforma for equipment and quality control employed by the manufacturer(s))

Tender Reference No.

Date of opening

Time

Name and address of the Tenderer:

Note: All the following details shall relate to the manufacturer(s) for the goods quoted for.

- 01 Name of the manufacturer
  - a. full postal address
  - b. full address of the premises
  - c. telegraphic address
  - d. telex number
  - e. telephone number
  - f. fax number
  
- 02 Plant and machinery details
- 03 Manufacturing process details
- 04 Monthly (single shift) production capacity of goods quoted for
  - a. normal
  - b. maximum
  
- 05 Total annual turn-over (value in Rupees)
- 06 Quality control arrangement details
  - a. for incoming materials and bought-out components
  - b. for process control
  - c. for final product evaluation
- 07 Test certificate held
  - a. . type test
  - b. . BIS/ISO certification
  - c. . any other
- 08 Details of staff
  - a. technical
  - b. skilled
  - c. unskilled

**Signature and seal of the Tenderer**

**SECTION - IX**

**Qualification Criteria**

01. The Tenderer must be a Manufacturer or its authorized Agent.
02. (a) The Manufacturer should have supplied in last Five years from the date of Tender Opening, atleast 25% of the quoted quantity of the similar item performing similar function which has been meeting major specification parameters which is functioning satisfactorily any where. (“Similar equipment”, means the “Chassis” or fabricators of the truck/bus body”).
  - (b) The Tenderers quoting as authorized representative of the manufacturer meeting the above criteria 02 (a) should have supplied and installed in last Five years from the date of Tender Opening, atleast 10% of the quoted quantity of similar equipments which is functioning satisfactorily, any where in India.
  - (c) deleted
  - (d) Manufacturer/bidder quoting for a schedule must quote for all the quantity in the schedule failing which such bids will be summerarily rejected.

**Note**

1. The tenderer shall give an affidavit as under:  
**“We hereby certify that if at any time, information furnished by us is proved to be false or incorrect, we are liable for any action as deemed fit by the purchaser in addition to forfeiture of the earnest money.”**
2. In support of 2 (a) the Tenderer shall furnish Performance statement in the enclosed Proforma ‘A’.  
The manufacturer as well as the Tenderer/ Indian Agent shall furnish Satisfactory Performance Certificate in respect of above, duly translated in English and duly notarized in the country of origin, alongwith the tender.
3. The Tenderer shall furnish a brief write-up, packed with adequate data explaining and establishing his available capacity/capability (both technical and financial) to perform the Contract (if awarded) within the stipulated time period, after meeting all its current/present commitments. The Tenderer shall also furnish details of Equipment and Quality Control in the enclosed Section VIII.
4. Notwithstanding anything stated above, the Purchaser reserves the right to assess the Tenderer’s capability and capacity to perform the contract satisfactorily before deciding on award of Contract, should circumstances warrant such an assessment in the overall interest of the Purchaser.
5. The Purchaser reserves the right to ask for a free demonstration of the quoted equipment at a pre determined place acceptable to the purchaser for technical acceptability as per the tender specifications, before the opening of the Price Tender.

**PROFORMA 'A'**  
**PROFORMA FOR PERFORMANCE STATEMENT**

(For the period of last five years)

Tender Reference No. : \_\_\_\_\_

Date of opening : \_\_\_\_\_

Time : \_\_\_\_\_

Name and address of the Tenderer : \_\_\_\_\_

Name and address of the manufacturer : \_\_\_\_\_

| Order placed by (full address of Purchaser/Consignee) | Order number and date | Description and quantity of ordered goods and services | Value of order (Rs.) | Date of completion of Contract |        | Remarks indicating reasons for delay if any | Have the goods been functioning Satisfactorily (attach documentary proof)** |
|---|-----------------------|--|----------------------|--------------------------------|--------|---|---|
|   |                       |  |                      | As per contract                | Actual |   |   |
| 1   | 2                     | 3  | 4                    | 5                              | 6      | 7   | 8   |
|   |                       |  |                      |                                |        |   |   |

**Signature and seal of the Tenderer**

**\*\* The documentary proof will be a certificate from the consignee/end user with cross-reference of order no. and date in the certificate along with a notarized certification authenticating the correctness of the information furnished. If at any time, information furnished is proved to be false or incorrect, the earnest money furnished will be forfeited**

**FORMAT OF PERFORMANCE CERTIFICATE**

**TO WHOM IT MAY CONCERN**

Date\_\_\_\_\_

Certified that M/s\_\_\_\_\_ (name & address of manufacturer/agent)  
supplied us \_\_\_\_\_Nos(indicate quantity) of  
equipment,\_\_\_\_\_ (indicate name of the equipment) against our order  
no\_\_\_\_\_dt\_\_\_\_\_ (please indicate order no & date as  
figuring in the performance statement).The equipment was installed,commissioned and handed over to us  
\_\_\_\_\_ (indicate date) & since then the equipment is has been working to our entire satisfaction.

Place:\_\_\_\_\_

Date:\_\_\_\_\_

Name & Designation of the  
officer withseal  
(in capital letters)

**SECTION - X**

**TENDER FORM**

Date \_\_\_\_\_

To

**Head (P&CD), HLL Lifecare Limited, Procurement and Consultancy Division, B-14 A, Sector -62,  
Noida -201307, Uttar Pradesh**

Ref. Your TE document No. \_\_\_\_\_ dated \_\_\_\_\_

We, the undersigned have examined the above mentioned TE document, including amendment/corrigendum No. \_\_\_\_\_, dated \_\_\_\_\_ (if any), the receipt of which is hereby confirmed. We now offer to supply and deliver \_\_\_\_\_ (Description of goods and services) in conformity with your above referred document for the sum of \_\_\_\_\_ (total tender amount in figures and words), as shown in the price schedule(s), attached herewith and made part of this tender.

If our tender is accepted, we undertake to supply the goods and perform the services as mentioned above, in accordance with the delivery schedule specified in the List of Requirements.

We further confirm that, if our tender is accepted, we shall provide you with a performance security of required amount in an acceptable form in terms of GCC clause 5, read with modification, if any, in Section - V – “Special Conditions of Contract”, for due performance of the contract.

We agree to keep our tender valid for acceptance as required in the GIT clause 20, read with modification, if any in Section - III – “Special Instructions to Tenderer” or for subsequently extended period, if any, agreed to by us. We also accordingly confirm to aTendere by this tender up to the aforesaid period and this tender may be accepted any time before the expiry of the aforesaid period. We further confirm that, until a formal contract is executed, this tender read with your written acceptance thereof within the aforesaid period shall constitute a binding contract between us.

We further understand that you are not bound to accept the lowest or any tender you may receive against your above-referred tender enquiry.

We confirm that we do not stand deregistered/banned/blacklisted by any Govt. Authorities.

We confirm that we fully agree to the terms and conditions specified in above mentioned TE document, including amendment/ corrigendum if any

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**(Signature with date)**

**(Name and designation) Duly authorised to sign tender for and on behalf of**

**SECTION – XI PRICE SCHEDULE**

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

| 1         | 2                          | 3                 | 4               | 5  |  |   |   |  |  |             |
|-----------|----------------------------|-------------------|-----------------|--|--|---|---|--|--|-------------|
| Event No. | Brief Description of Goods | Country of Origin | Quantity (Nos.) | Total Price (at Consignee Site) basis(Rs.)<br>4 x 5(g)                     |  |   |   |  |  |             |
|           |                            |                   |                 | Ex - factory/<br>Ex - warehouse<br>/Ex-showroom<br>/Off - the shelf<br>(a) | Excise Duty (if any) [%age & value]<br>(b) | Sales Tax/VAT(if any) [%age & value]<br>(c) | Inland Transportation, Insurance for a period including 3 months beyond date of delivery, loading/unloading and Incidental costs till consignee's site<br>(d) | Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the Consignee's site<br>(e) | Unit Price (at Consignee Site) basis<br>(g) =a+b+c+d+e | Total price |
|           |                            |                   |                 |  |  |   |   |  |  |             |

Total Tender price in Rupees: \_\_\_\_\_

**In words:** \_\_\_\_\_

**Note: -**

1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.

**Name** \_\_\_\_\_

**Business Address** \_\_\_\_\_

**Place:** \_\_\_\_\_

**Signature of Tenderer** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Seal of the Tenderer** \_\_\_\_\_



**SECTION – XI PRICE SCHEDULE****B) PRICE SCHEDULE FOR GOODS TO BE IMPORTED FROM ABROAD**

| 1         | 2                          | 3                 | 4               | 5   |  |   |   |   |   |  | 6   |   |
|-----------|----------------------------|-------------------|-----------------|---|--|---|---|---|---|--|---|---|
| Event No. | Brief Description of Goods | Country of Origin | Quantity (Nos.) | Price per unit (Currency)   |  |   |   |   |   |  | Total price on CIP Named Port of Destination + Insurance (local transportation and storage)<br><br>4X h (i) |   |
|           |                            |                   |                 | Gross FOB price at port/ airport of Lading (Inclusive of Agency Commission) (a) | Amount and percentage of Agency Commission (b) | Net FOB (Excluding Agency Commission) (c) | Carriage & Insurance (port of loading to port of entry and other Incidental costs)**(d) | Net CIP by Air/Sea at the port of Entry (e) | Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the Consignee's site** (f) | Extended Insurance (local transportation and storage) from port of entry to the consignee site for a period including 3 months beyond date of delivery** (g) |   | Unit Price on CIP Named Port of Destination + Extended Insurance (local transportation and storage) (h) = e+f+g |
|           |                            |                   |                 |   |  |   |   |   |   |  |   |   |

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

Total Tender price in foreign currency: \_\_\_\_\_

In words: \_\_\_\_\_

**Note: -**

1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.
2. The Tenderer will be fully responsible for the safe arrival of the goods at the named port of entry in good condition as per terms of CIP as per INCOTERMS, if applicable
3. The quoted price should be supported with original proforma invoice from the foreign manufacturers. The proforma invoice should indicate the percentage of agency commission included in the FOB prices. Indian Agent to be paid in Indian Currency.

**Indian Agent:-**

**Indian Agency Commission - \_\_\_ % of FOB**

**Signature of Tenderer** \_\_\_\_\_

**Name** \_\_\_\_\_

**Business Address** \_\_\_\_\_

**Place:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Signature of Tenderer** \_\_\_\_\_

**Seal of the Tenderer** \_\_\_\_\_

**SECTION-XIPRICESCHEDULE  
C) PRICESCHEDULEFORANNUALCOMPREHENSIVE  
MAINTENANCECONTRACTAFTERWARRANTYPERIOD**

| 1         | 2                           | 3                    | 4   |                 |                 |                 |                 | 5  |
|-----------|-----------------------------|----------------------|---|-----------------|-----------------|-----------------|-----------------|--|
| Event No. | BRIEFDESCRIPTION<br>OFGOODS | QUANTITY<br>. (Nos.) | Annual Comprehensive<br>Maintenance Contract Costfor<br>Each Unit year wise*. |                 |                 |                 |                 | Total Annual Comprehensive<br>MaintenanceContractCostfor5Years<br>[3x(4a+4b+4c+4d+4e)] |
|           |                             |                      | 1 <sup>st</sup>   | 2 <sup>nd</sup> | 3 <sup>rd</sup> | 4 <sup>th</sup> | 5 <sup>th</sup> |  |
|           |                             |                      | a   | b               | c               | d               | e               |  |
|           |                             |                      |   |                 |                 |                 |                 |  |
|           |                             |                      |   |                 |                 |                 |                 |  |

**\*After completion of Warranty period**

**NOTE:-**

1. In case of discrepancy between unit price and total prices, THE UNIT PRICE shall prevail.
2. The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/service/operational manual, labour and spares, after satisfactory completion of Warranty period may be quoted for next 5 years on yearly basis for complete equipment and Turnkey (if any).
3. The cost of CMC may be quoted alongwithtaxesapplicableonthedateofTenderOpening. Thetaxestobepaidextra,tobe specificallystated. Intheabsenceofanysuchstipulationthepricewillbetakeninclusiveofsuchtaxesandnoclaimforthe samewillbeentertainedlater.
4. CostofCMCwillbeaddedforRanking/Evaluation purpose.
5. ThepaymentofCMCwillbemadeasperclauseGCCclause21.1(d).
6. Theuptimewarrantywillbe98%on24(hrs)X7(days)X365(days)basisorasstatedinTechnicalSpecificationoftheTE document.
7. AllsoftwareupdateshouldbeprovidedfreeofcostduringCMCperiod.
8. ThestipulationsinTechnicalSpecificationwillsupersedeaboveprovisions
9. ThesuppliershallkeepsufficientstockofsparesrequiredduringAnnualComprehensiveMaintenanceContractperiod. Incase thesparesarerequiredtobeimported, itwouldbetheresponsibilityofthesuppliertoimportandgetthemcustomclearedand payallnecessaryduties.

**Name**

**Place:** \_\_\_\_\_

\_\_\_\_\_  
**BusinessAddress**

**Date:** \_\_\_\_\_

\_\_\_\_\_  
**SignatureofTenderer**

\_\_\_\_\_  
**SealoftheTenderer**

**SECTION – XII  
QUESTIONNAIRE**

**Fill up the Section XX – Check List for Tenderer and enclose with the Tender**

1. The Tenderer should furnish specific answers to all the questions/issues mentioned in the Checklist. In case a question/issue does not apply to a Tenderer, the same should be answered with the remark “not applicable”.
2. Wherever necessary and applicable, the Tenderer shall enclose certified copy as documentary proof/evidence to substantiate the corresponding statement.
3. In case a Tenderer furnishes a wrong or evasive answer against any of the question/issues mentioned in the Checklist, its tender will be liable to be ignored.

**SECTION – XIII**

**BANK GUARANTEE FORM FOR EMD**

Whereas \_\_\_\_\_ (hereinafter called the “Tenderer”) has submitted its quotation dated \_\_\_\_\_ for the supply of \_\_\_\_\_ (hereinafter called the “tender”) against the purchaser’s tender enquiry No. \_\_\_\_\_ Know all persons by these presents that we \_\_\_\_\_ of \_\_\_\_\_ (Hereinafter called the “Bank”) having our registered office at \_\_\_\_\_ are bound unto \_\_\_\_\_ (hereinafter called the “Purchaser) in the sum of \_\_\_\_\_ for which payment will 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 obligation are:

- 1) If the Tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
- 2) If the Tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity:-

fails or refuses to furnish the performance security for the due performance of the contract or  
fails or refuses to accept/execute the contract or  
if it comes to notice that the information/documents furnished in its tender is incorrect, false,  
misleading or forged

We undertake to pay the Purchaser up to 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 it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition(s).

This guarantee will remain in force for a period of forty-five days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

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

.....  
Name and designation of the officer

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

**SECTION – XIV  
MANUFACTURER’S AUTHORISATION FORM**

To

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**Head (P&CD), HLL Lifecare Limited, Procurement and Consultancy Division, B-14 A, Sector -62,  
Noida -201307, Uttar Pradesh**

Dear Sirs,

Ref. Your TE document No \_\_\_\_\_, dated \_\_\_\_\_

We, \_\_\_\_\_ who are proven and reputable manufacturers of \_\_\_\_\_ (*name and description of the goods offered in the tender*) having factories at \_\_\_\_\_, hereby authorise Messrs \_\_\_\_\_ (*name and address of the agent*) to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.

We further confirm that no supplier or firm or individual other than Messrs. \_\_\_\_\_ (*name and address of the above agent*) is authorised to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.

We also hereby extend our full warranty, , read with modification, if any, in the Special Conditions of Contract for the goods and services offered for supply by the above firm against this TE document.

Yours faithfully,

---

[Signature with date, name and designation]  
for and on behalf of Messrs \_\_\_\_\_

[Name & address of the manufacturers]

- Note: 1. This letter of authorisation 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.  
2. Original letter may be sent.*

**SECTION – XV**

**BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/ CMC SECURITY**

Head (P&CD),  
HLL Lifecare Limited, Procurement and Consultancy Division  
B-14 A, Sector -62, Noida -201307, Uttar Pradesh

WHEREAS \_\_\_\_\_ (Name and address of the supplier) (Hereinafter called “the supplier”) has undertaken, in pursuance of contract no \_\_\_\_\_ dated \_\_\_\_\_ to supply (description of goods and services) (herein after called “the contract”).

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognised by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

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

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

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

This guarantee shall be valid up to 66 (Sixty Six) months from the date of Notification of Award i.e. up to ----  
----- (indicate date)

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

.....  
Name and designation of the officer

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

**SECTION - XVI**

**CONTRACT FORM - A**

**CONTRACT FORM FOR SUPPLY, INSTALLATION, COMMISSIONING, HANDING OVER,  
TRIAL RUN, TRAINING OF OPERATORS & WARRANTY OF GOODS**

(Address of the Purchaser's/Consignee's office issuing the contract)

Contract No \_\_\_\_\_ dated \_\_\_\_\_

**This is in continuation to this office's Notification of Award No \_\_\_\_\_ dated \_\_\_\_\_**

1. Name & address of the Supplier: \_\_\_\_\_
2. Purchaser's TE document No \_\_\_\_\_ dated \_\_\_\_\_ and subsequent Amendment No \_\_\_\_\_, dated \_\_\_\_\_ (if any), issued by the purchaser
3. Supplier's Tender No \_\_\_\_\_ dated \_\_\_\_\_ and subsequent communication(s) No \_\_\_\_\_ dated \_\_\_\_\_ (if any), exchanged between the supplier and the purchaser in connection with this tender.
4. In addition to this Contract Form, the following documents etc, which are included in the documents mentioned under paragraphs 2 and 3 above, shall also be deemed to form and be read and construed as integral part of this contract:

- (i) General Conditions of Contract;
- (ii) Special Conditions of Contract;
- (iii) List of Requirements;
- (iv) Technical Specifications;
- (v) Quality Control Requirements;
- (vi) Tender Form furnished by the supplier;
- (vii) Price Schedule(s) furnished by the supplier in its tender;
- (viii) Manufacturers' Authorisation Form (if applicable for this tender);
- (ix) Purchaser's Notification of Award

Note: The words and expressions used in this contract shall have the same meanings as are respectively assigned to them in the conditions of contract referred to above. Further, the definitions and abbreviations incorporated under clause 1 of Section II – 'General Instructions to Tenderer' of the Purchaser's TE document shall also apply to this contract.

5. Some terms, conditions, stipulations etc. out of the above-referred documents are reproduced below for ready reference:

- (i) Brief particulars of the goods and services which shall be supplied/ provided by the supplier are as under:

| Schedule No. | Brief description of goods/services | Accounting unit | Quantity to be supplied | Unit Price | Total price | Terms of delivery |
|--------------|-------------------------------------|-----------------|-------------------------|------------|-------------|-------------------|
|              |                                     |                 |                         |            |             |                   |

Any other additional services (if applicable) and cost thereof: \_\_\_\_\_

Total value (in figure) \_\_\_\_\_ (In words) \_\_\_\_\_

- (i) Delivery schedule
- (iii) Details of Performance Security
- (iv) Quality Control
  - (a) Mode(s), stage(s) and place(s) of conducting inspections and tests.
  - (b) Designation and address of purchaser's inspecting officer
- (v) Destination and despatch instructions

(vi) Consignee, including port consignee, if any

- 1. Warranty clause
- 2. Payment terms
- 3. Paying authority

\_\_\_\_\_  
**(Signature, name and address  
of the Purchaser's/Consignee's authorised official)  
For and on behalf of \_\_\_\_\_**

Received and accepted this contract

\_\_\_\_\_  
(Signature, name and address of the supplier's executive  
duly authorised to sign on behalf of the supplier)

For and on behalf of \_\_\_\_\_

(Name and address of the supplier)

\_\_\_\_\_  
(Seal of the supplier)

Date: \_\_\_\_\_

Place: \_\_\_\_\_



SECTION-XVI

CONTRACT FORM – B

**CONTRACT FORM FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT**

Annual CM Contract No. \_\_\_\_\_ dated \_\_\_\_\_  
Between \_\_\_\_\_

(Address of Head of Hospital )  
And \_\_\_\_\_

(Name & Address of the Supplier)

**Ref: Contract No** \_\_\_\_\_ **dated** \_\_\_\_\_ **(Contract No. & date of Contract for supply, installation, commissioning, handing over, Trial run, Training of operators & warranty of goods)**

In continuation to the above referred contract

2. The Contract of Annual Comprehensive Maintenance is hereby concluded as under: -

| 1            | 2                          | 3                | 4  |                 |                 |                 |                 | 5   |
|--------------|----------------------------|------------------|--|-----------------|-----------------|-----------------|-----------------|---|
| Schedule No. | BRIEF DESCRIPTION OF GOODS | QUANTITY. (Nos.) | Annual Comprehensive Maintenance Contract Cost for Each Unit year wise*. |                 |                 |                 |                 | Total Annual Comprehensive Maintenance Contract Cost for 5 Years [3 x (4a+4b+4c+4d+4e)] |
|              |                            |                  | 1 <sup>st</sup>  | 2 <sup>nd</sup> | 3 <sup>rd</sup> | 4 <sup>th</sup> | 5 <sup>th</sup> |   |
|              |                            |                  | a  | b               | c               | d               | e               |   |
|              |                            |                  |  |                 |                 |                 |                 |   |

Total value (in figure) \_\_\_\_\_ (In words) \_\_\_\_\_

- b) The CMC commence from the date of expiry of all obligations under Warranty i.e. from \_\_\_\_\_ (date of expiry of Warranty) and will expire on \_\_\_\_\_ (date of expiry of CMC)
- c) The cost of Annual Comprehensive Maintenance Contract (CMC) which includes preventive maintenance, labour and spares, after satisfactory completion of Warranty period may be quoted for next 5 years as contained in the above referred contract on yearly basis for complete equipment (including X ray tubes, Helium for MRI, Batteries for UPS, other vacuumatic parts, \_\_\_\_\_ & \_\_\_\_\_) and Turnkey (if any).
- d) There will be 98% uptime warranty during CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CMC period by double the downtime period.
- e) During CMC period, the supplier shall visit at each consignee's site for preventive maintenance including testing and calibration as per the manufacturer's service/ technical/ operational manual. The supplier shall visit each consignee site as recommended in the manufacturer's manual, but at least once in 6 months commencing from the date of the successful completion of warranty period for preventive maintenance of the goods.
- f) All software updates should be provided free of cost during CMC.
- g) The bank guarantee valid till \_\_\_\_\_ [(fill the date) 2 months after expiry of entire CMC period] for an amount of Rs. \_\_\_\_\_ [(fill amount) equivalent to 2.5 % of the cost of the

equipment as per contract] shall be furnished in the prescribed format given in Section XV of the TE document, along with the signed copy of Annual CMC within a period of 21 (twenty one) days of issue of Annual CMC failing which the proceeds of Performance Security shall be payable to the Purchaser/Consignee.

- h) If there is any lapse in the performance of the CMC as per contract, the proceeds Annual CMC bank guarantee for an amount of Rs. \_\_\_\_\_ (equivalent to 2.5 % of the cost of the equipment as per contract) shall be payable to the Consignee.
- i) **Payment terms:** The payment of Annual CMC will be made against the bills raised to the consignee by the supplier on six monthly basis after satisfactory completion of said period, duly certified by the HOD concerned. The payment will be made in Indian Rupees.
- j) **Paying authority:** \_\_\_\_\_ (name of the consignee i.e. Hospital authorised official)

\_\_\_\_\_  
**(Signature, name and address  
of Hospital authorised official)**  
**For and on behalf of** \_\_\_\_\_

Received and accepted this contract

\_\_\_\_\_  
(Signature, name and address of the supplier's executive  
duly authorised to sign on behalf of the supplier)

For and on behalf of \_\_\_\_\_

(Name and address of the supplier)

\_\_\_\_\_  
(Seal of the supplier)

Date: \_\_\_\_\_

Place: \_\_\_\_\_

**SECTION – XVII**  
**CONSIGNEE RECEIPT CERTIFICATE**  
**(To be given by consignee’s authorized representative)**

The following store (s) has/have been received in good condition:

- 1) Contract No. & date : \_\_\_\_\_
- 2) Supplier’s Name : \_\_\_\_\_
- 3) Consignee’s Name & Address with  
telephone No. & Fax No. : \_\_\_\_\_
- 4) Name of the item supplied : \_\_\_\_\_
- 5) Quantity Supplied : \_\_\_\_\_
- 6) Date of Receipt by the Consignee : \_\_\_\_\_
- 7) Name and designation of Authorized  
Representative of Consignee : \_\_\_\_\_
- 8) Signature of Authorized Representative of  
Consignee with date : \_\_\_\_\_
- 9) Seal of the Consignee : \_\_\_\_\_

**SECTION – XVIII**  
**Proforma of Final Acceptance Certificate by the Consignee**

No \_\_\_\_\_  
Date \_\_\_\_\_

To  
M/s \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Subject: Certificate of commissioning of equipment/plant.

**This is to certify that the equipment(s)/plant(s) as detailed below has/have been received in good conditions along with all the standard and special accessories and a set of spares (subject to remarks in Para no.02) in accordance with the contract/technical specifications. The same has been installed and commissioned.**

- (a) Contract No \_\_\_\_\_ dated \_\_\_\_\_
- (b) Description of the equipment(s)/plants: \_\_\_\_\_
- (c) Equipment(s)/ plant(s) nos.: \_\_\_\_\_
- (d) Quantity: \_\_\_\_\_
- (e) Bill of Loading/Air Way Bill/Railway Receipt/ Goods Consignment Note no \_\_\_\_\_ dated \_\_\_\_\_
- (f) Name of the vessel/Transporters: \_\_\_\_\_
- (g) Name of the Consignee: \_\_\_\_\_
- (h) Date of commissioning and proving test: \_\_\_\_\_

**Details of accessories/spares not yet supplied and recoveries to be made on that account.**

| Sl. No. | Description of Item | Quantity | Amount to be recovered | No. |
|---------|---------------------|----------|------------------------|-----|
|---------|---------------------|----------|------------------------|-----|

The proving test has been done to our entire satisfaction and operators have been trained to operate the equipment(s)/plant(s).  
The supplier has fulfilled its contractual obligations satisfactorily ## or  
The supplier has failed to fulfil its contractual obligations with regard to the following:  
He has not adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to 'Technical Specifications'.  
He has not supervised the commissioning of the equipment(s)/plant(s) in time, i.e. within the period specified in the contract from date of intimation by the Purchaser/Consignee in respect of the installation of the equipment(s)/plant(s).  
The supplier as specified in the contract has not done training of personnel.

The extent of delay for each of the activities to be performed by the supplier in terms of the contract is  
The amount of recovery on account of non-supply of accessories and spares is given under Para no.02.

The amount of recovery on account of failure of the supplier to meet his contractual obligations

is \_\_\_\_\_ (here indicate the amount).

Signature

Name

Designation with stamp

**## Explanatory notes for filling up the certificate:**

1. He has adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to 'Technical Specification'.
2. He has supervised the commissioning of the equipment(s)/plant(s) in time, i.e. within the time specified in the contract from date of intimation by the Purchaser/Consignee in respect of the installation of the equipment(s)/plant(s).
3. Training of personnel has been done by the supplier as specified in the contract
4. In the event of documents/drawings having not been supplied or installation and commissioning of the equipment(s)/plant(s) having been delayed on account of the supplier, the extent of delay should always be mentioned in clear terms.

**SECTION-XIX**

**ANNEXURES**

**Annexure 1**

**DETAILS OF SHIPPING ARRANGEMENT FOR LINER CARGOES IN RESPECT OF  
C & F/CIF/TURNKEY/F.O.R CONTRACTS FOR IMPORTS**

- 1. (a) SHIPMENT FROM PORTS OF U.K INCLUDING NORTHERN IRELAND (ALSO EIRE), FROM THE NORTH CONTINENT OF EUROPE (GERMANY, HOLLAND, BELGIUM, FRANCE, NORWAY, SWEDEN, DENMARK, FINLAND AND PORTS ON THE CONTINENTAL SEABOARD OF MEDITERRANIAN (I.E. FRENCH WESTERN ITALIAN PORTS), TO PORTS IN INDIA.**

The Seller should arrange shipment of the goods by vessels belonging to the member lines of the India-Pakistan-Bangladesh Conference. If the Seller finds that the space on the 'Conference Lines' vessels is not available for any specific shipment, he should take up with India-Pakistan-Bangladesh Conference, Conferity House, East Grinstead, Sussex (UK), for providing shipping space and also inform the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

The Seller should arrange shipment through the Government of India's Forwarding Agents, M/s Schenker & Co., 2000-Hamburg (Cable: SCHENKER CO., HAMBURG) OR obtain a certificate from them to the effect that shipment has been arranged in accordance with instructions of the Ministry of Surface Transport, (TRANSHART), New Delhi.

- (b) SHIPMENT FORM PORTS OF U.K. INCLUDING NORTHERN**

Goods under this contract would be shipped by the national shipping companies of the Contracting Parties operating bilateral shipping service and vessels under the flag of third countries in accordance with the Agreement between the Government of German Democratic Republic and the Government of the Republic of India in the Field of Merchant Shipping signed on 9.1.1979, as amended up-to-date.

- (c) ISHIPMENT FROM ADRIATIC PORTS OF EASTERN ITALY AND YUGOSLAVIA**

The seller should arrange shipment of the goods by vessels belonging to the following Indian member lines;

1. The Shipping Purchaser of India Ltd.
2. The Scindia Steam Navigation Co., Ltd
3. India Steamship Co., Ltd

For the purpose of ascertaining the availability of suitable Indian vessels and granting dispensation in the event of their non-availability, the Seller should give adequate notice about the readiness of each consignment from time to time at least six weeks in advance of the required position to M/s Schenker & Co. 2000 HAMBURG (Cable: SCHENKER CO., HAMBURG) and also endorse a copy thereof to the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

The seller should arrange shipment through the Government of India's Forwarding Agents M/s Schenker & Co. 2000 HAMBURG (Cable: SCHENKER CO., HAMBURG) or obtain certificate from them to the effect that shipment has been arranged in accordance with the instructions of the Ministry of Surface Transport, (TRANSHART), New Delhi.

**(d) SHIPMENT FROM POLAND & CZECHOSLOVAKIA**

**(i) IMPORTS FROM POLAND**

Shipment under this contract would be made by the National flag lines of the two parties and vessels of the third flag conference lines, in accordance with the agreement between the Govt. of the Republic of India and the Govt. of the Polish People's Republic regarding Shipping Co-operation dated 27.6.1960 as amended up-to-date.

**(ii) IMPORTS FROM CZECHOSLOVAKIA**

Goods under this contract would be signed by the National flag lines of the two parties and vessels of the third flag conference lines, in accordance with the Agreement Co-operation in shipping between India and Czechoslovakia signed on 3.11.1978 and ratified on 19.12.1979, as amended up-to-date.

Shipping arrangement should be made by the Sellers in consultation with Resident Representative of the Indian Shipping Lines in Gdynia, Co., Morska Agencja W. Gdyniul, Pulaskiego 8, P.O. Box 246, Gdynia (Poland) – Telex : MG PL. 054301, Tel.: 207621, to whom details regarding contract number, nature of cargo , quantity, port of lading, discharging, name of Government consignee, expected date of readiness of each consignment etc. should be furnish at least six weeks in advance of the required position, with a copy thereof endorsed to the Shipping Co-ordination Officer, Ministry of Surface Transport, (Chartering Wing), New Delhi, (Cable: TRANSCART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

**(e) SHIPMENT FROM U.S.S.R**

Shipment under this contract should be made in accordance with the agreement between the Government of the Republic of India and the Government of U.S.S.R on Merchant Shipping 1976, as amended up-to-date, by vessels of Indo-Soviet shipping Service.

**(f) SHIPMENT FROM JAPAN**

The shipment of goods should be made of India vessels to the maximum extent possible subject to the minimum of 50%.

The Seller should arrange shipment of the goods in consultation with the Embassy of India in Japan, Tokyo to whom details regarding contract number, nature of cargo, quantity, port of loading/discharge, name of Govt. consignee, expected date of readiness of each consignment etc. should be furnished at least six weeks in advance of the required position.

**Note:** The copies of such contracts are to be endorsed both to the Attached (commercial) embassy of India in Japan, Tokyo, and the shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi.

**(g) SHIPMENT FROM AUSTRALIA, ALGERIA, BULGARIA, ROMANIA, EGYPT**

The Seller shall arrange shipment of the goods by Indian flag vessels to the maximum extent possible subject to a minimum of 50 %. For the purpose of ascertaining the availability of suitable Indian vessels, the seller shall give adequate notice of not less than six weeks about the readiness of each consignment to the Shipping Purchaser of India Ltd., SHIPPING HOUSE, 245, Madame Cama Road, Bombay – 400 021 (CABLE: SHIPINDIA BOMBAY) and also endorse a copy thereof to the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

**(h) SHIPMENT FROM PAKISTAN**

The shipment of cargoes should be made by Indian vessels to the maximum extent possible subject to a minimum of 50 %.

Shipment arrangement should be made by the sellers in consultation with M/s Mogul Line Ltd., 16-Bank Street, Fort, Bombay – 400023 (Cable: MOGUL BOMBAY: Telex: 011 – 4049 MOGUL), to whom, details regarding contract number, nature of cargo, quantity, port of lading discharging, name of government consignee, expected date of readiness of each consignment etc. should be furnish at least six weeks in advance of the required position, with a copy thereof endorsed to the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

**(i) SHIPMENT FROM U.S ATLANTIC & GULF PORTS**

The Seller should arrange shipment of the goods by vessels belonging to the member lines of the India – Pakistan – Bangladesh – Ceylon and Burma Outward Freight Conference. If the Seller finds that the space of the ‘Conference Lines’ vessels is not available for any specific shipment he should take up with India – Pakistan- Bangladesh – Ceylon and Burma Outward Freight Conference, 19, Rector Street, New York, N.Y. 10006 USA, for providing shipping space and also inform the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

**(j) SHIPMENT FROM ST. LAWRENCE AN EASTERN CANADIAN PORTS**

The Seller should arrange shipment of the goods by vessels belonging to the following shipping lines;

1. The shipping Purchaser of India Ltd.
2. The Scindia Steam Navigation Co., Ltd

If the Seller finds that the space in the vessels of these Lines is not available for any particular consignments, he should inform the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159) immediately so that dispensation from the shipping lines concerned to use alternative lifting may be sought.

**(k) SHIPMENT FROM WEST COAST PORTS OF U.S. CANADA AND OTHER AREAS NOT SPECIFICALLY MENTIONED ABOVE**

The Seller should arrange shipment of the goods by Indian vessels to the maximum extent possible subject to a minimum of 50 %. For the purpose of ascertaining the availability of suitable Indian vessels and granting dispensation in the event of their non-availability, the Seller should furnish the details regarding contract number, nature of cargo, quantity, port of lading, discharging, name of government consignee, expected date of readiness of each consignment etc. to the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159) at least six weeks in advance of the required position.

**2. BILLS OF LADING**

**(i) C.I.F./C&F/TURNKEY SHIPMENTS**

The Bills of lading should be drawn to indicate Shipper and ‘Consignee’ as under:

**SHIPPER:** The C.I.F (C&F)/TURNKEY SUPPLIERS concerned.



**CONSIGNEE:** As per consignee's particulars in the contract (The name and address of the 'Port Consignee' and 'Ultimate' both should be indicated).

**(ii) F.O.R SHIPMENTS**

The Bills of lading should be drawn to indicate shipper Consignee as under:

**SHIPPER:** The F.O.R suppliers Concerned

**CONSIGNEE:** Supplier's Indian Agent on order

**Note:**

1. Moreover the name of the 'Purchaser' and 'Ultimate' Consignee should appear in the body of the Bills of Lading as the 'Notify' or as a remark.
2. Two non-negotiable copies of the Bills of Lading indicating the freight amount and discount, if any allowed, should be forwarded to The Shipping Co-ordination Officer, Ministry of surface Transport (Chartering Wing), New Delhi after the shipment of each consignment is effected.
3. The seller should avoid the use of over-aged vessels for the shipment of the goods under the contract and if so used the cost of additional. Insurance, if any, shall be borne by the seller.

**SECTION – XX**  
**CHECKLIST**

**Name of Tenderer:**

**Name of Manufacturer:**

| SI No. | Activity  | Yes/ No/ NA | Page No. in the TE document | Remarks |
|--------|---|-------------|-----------------------------|---------|
| 1. a.  | Have you enclosed EMD of required amount for the quoted schedules?  |             |                             |         |
| b.     | In case EMD is furnished in the form of Bank Guarantee, has it been furnished as per Section XIII?  |             |                             |         |
| c.     | In case Bank Guarantee is furnished, have you kept its validity of 165 days from Techno Commercial Tender Opening date as per clause 19 of GIT?           |             |                             |         |
| 2. a.  | Have you enclosed duly filled Tender Form as per format in Section X?   |             |                             |         |
| b.     | Have you enclosed Power of Attorney in favour of the signatory?   |             |                             |         |
| 3.     | Are you a SSI unit, if yes have you enclosed certificate of registration issued by Directorate of Industries/NSIC   |             |                             |         |
| 4. a.  | Have you enclosed clause-by-clause technical compliance statement for the quoted goods vis-à-vis the Technical specifications?                            |             |                             |         |
| b.     | In case of Technical deviations in the compliance statement, have you identified and marked the deviations?   |             |                             |         |
| 5. a.  | Have you submitted satisfactory performance certificate as per the Proforma for performance statement in Sec. IX of TE document in respect of all orders? |             |                             |         |
| b.     | Have you submitted copy of the order(s) and end user certificate?   |             |                             |         |

| SI No. | Activity   | Yes/ No/ NA | Page No. in the TE document | Remarks |
|--------|--|-------------|-----------------------------|---------|
| 6 a.   | Have you submitted the Tender as agent or manufacturer?  |             |                             |         |
| b      | If you are an agent, have you submitted manufacturer's authorization as per Section XIV?   |             |                             |         |
| 8.     | Have you kept validity of 120 days from the Techno Commercial Tender Opening date as per the TE document?                              |             |                             |         |
| 9..    | In case of Indian Tenderer, have you furnished Income Tax Account No. as allotted by the Income Tax Department of Government of India? |             |                             |         |
| 10.    | Have you intimated the name an full address of your Banker (s) along with your Account Number  |             |                             |         |
| 11.    | Have you fully accepted payment terms as per TE document?  |             |                             |         |
| 12.    | Have you fully accepted delivery period as per TE document?  |             |                             |         |
| 13.    | Have you submitted the certificate of incorporation?   |             |                             |         |
| 14.    | Have you accepted the warranty as per TE document?   |             |                             |         |
| 15.    | Have you accepted terms and conditions of TE document?   |             |                             |         |
| 16.    | Have you furnished documents establishing your eligibility & qualification criteria as per TE documents?                               |             |                             |         |
| 17     | Have you furnished Annual Report (Balance Sheet and Profit & Loss Account) for last three years prior to the date of Tender opening?   |             |                             |         |

| SI No. | Activity  | Yes/ No/ NA | Page No. in the TE document | Remarks |
|--------|---|-------------|-----------------------------|---------|
| 18     | Have you enclosed the latest purchase order copies and performance certificates from end users during last five years from date of opening of tender. |             |                             |         |

.B.

1. All pages of the Tender should be page numbered and indexed.
2. The Tenderer may go through the checklist and ensure that all the documents/confirmations listed above are enclosed in the tender and no column is left blank. If any column is not applicable, it may be filled up as NA.
2. It is the responsibility of tendered to go through the TE document to ensure furnishing all required documents in addition to above, if any.

---

**(Signature with date)**

---

**(Full name, designation & address of the person duly authorised sign on behalf of the Tenderer)  
For and on behalf of**

---



---

**(Name, address and stamp of the tendering firm)**

## Section – XXI

## Consignee List

## 1. Voltage Stabilizers (Schedule 1&amp;2), Stem Thermometer (Schedule 3) and Freeze Marker (Schedule 11)

| S. No | Name and Addresses of Consignee   | Low Voltage Stabilizer (100-280 V) | Voltage Stabilizer (150 -280 V) | Stem Thermometer | Freeze Marker |
|-------|---|------------------------------------|---------------------------------|------------------|---------------|
| 1     | Sr. CMO (SAG),<br>Government Medical Store Depot (GMSD), Opp. Telephone exchange, Karnal Haryana -132001              | 3,596                              | 4,362                           | 13,531           | 10,000        |
| 2     | Sr. CMO (SAG),<br>Government Medical Store Depot (GMSD), Mumbai Central, Mumbai - 400008                              | 3,309                              | 2,740                           | 9,985            | 6,000         |
| 3     | Assistant Director,<br>Government Medical Store Depot (GMSD),<br>37, Naval Hospital Road,<br>Periamet, Chennai-600003 | 1,704                              | 3,370                           | 12,073           | 6,000         |
| 4     | Sr. CMO (SAG),<br>Government Medical Store Depot (GMSD),<br>9-Clide Row, Hasting,<br>Kolkata-700022                   | 3,960                              | 1,374                           | 8,341            | 8,000         |

## 2. Walk-in-Cooler (sch. 8), Walk-in-Freezer (Sch. 9) and Refrigerated Truck (Sch. 10)

| S. No. | State          | WIC 40 cum |                                    | WIF 20 Cum |                            | Refrigerated Truck |                    |
|--------|----------------|------------|------------------------------------|------------|----------------------------|--------------------|--------------------|
|        |                | Qty.       | Consignee                          | Qty.       | Consignee                  | Qty.               | Consignee          |
| 1      | Andhra Pradesh | 1          | State Vaccine Store Distt. Krishna | 0          | -                          | 1                  | SEPIO Hyderabad    |
| 2      | Assam          | 0          | -                                  | 1          | Swasthya Bhawan Guwahati   | 0                  | -                  |
| 3      | Gujrat         | 1          | Regional Dy. Director Rajkot       | 1          | Vaccine Plant, Surat       | 1                  | SEPIO Ghandhinagar |
| 4      | Haryana        | 0          | -                                  | 1          | SEPIO, Panchkula           | 1                  | SEPIO Paunchkula   |
| 5      | Jharkhand      | 0          | -                                  | 0          | -                          | 1                  | SEPIO, Ranchi      |
| 6      | Karnatka       | 0          | -                                  | 1          | Project Director Bengaluru | 1                  | SEPIO, Bengaluru   |
| 7      | Kerala         | 0          | -                                  | 0          | -                          | 1                  | SEPIO Trivendram   |
| 8      | MP             | 0          | -                                  | 1          | J.D (Health),              | 1                  | SEPIO, Bhopal      |

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|              |               |          |                   |           |                      |           |                       |
|--------------|---------------|----------|-------------------|-----------|----------------------|-----------|-----------------------|
|              |               |          |                   |           | Jabalpur             |           |                       |
| 9            | Maharashtra   | 0        | -                 | 0         | -                    | 1         | SEPIO, Pune           |
| 10           | Odhisha       | 0        | -                 | 0         | -                    | 1         | SEPIO,<br>Bhubneshwar |
| 11           | Punjab        | 0        | -                 | 1         | SEPIO,<br>Chandigarh | 1         | SEPIO,<br>Chandigarh  |
| 12           | Rajasthan     | 0        | -                 | 0         | -                    | 1         | SEPIO, Jaipur         |
| 13           | Tamilnadu     | 1        | SEPIO,<br>Chennai | 1         | SEPIO,<br>Chennai    | 1         | SEPIO,<br>Chennai     |
| 14           | Telangana     | 1        | SVS<br>Hyderabad  | 1         | SVS<br>Hyderabad     | 0         | -                     |
| 15           | Uttar Pradesh | 0        | -                 | 0         | -                    | 2         | SEPIO,<br>Lucknow     |
| 16           | West Bengal   | 1        | SEPIO,<br>Kolkata | 2         | SEPIO,<br>Kolkata    | 1         | SEPIO,<br>Kolkata     |
| 17           | Chhatisgarh   | 0        | -                 | 0         | -                    | 1         | SEPIO, Raipur         |
| 18           | Bihar         | 0        | -                 | 0         | -                    | 1         | SEPIO, Patna          |
| <b>Total</b> |               | <b>5</b> |                   | <b>10</b> |                      | <b>17</b> |                       |

**3. Ice Lined Refrigerator (Sch. 4&5) & Deep Freezer (Sch. 6&7)**

| S.No.             | Zone  | State        | ILR (L)    | DF (L)     | ILR (S)     | DF (S)      | Consignee address                               |
|-------------------|-------|--------------|------------|------------|-------------|-------------|---|
| 1                 | East  | Bihar        | 312        | 0          | 285         | 143         | State Cold Chain Officer, FW, Patna, Bihar      |
| 2                 | East  | Jharkhand    | 48         | 0          | 285         | 215         | State EPI Officer, Ranchi, Jharkhand            |
| 3                 | East  | Odisha       | 124        | 67         | 380         | 380         | Joint Director , FW, Bhubneshwar, Odisha        |
| 4                 | East  | West Bengal  | 166        | 67         | 380         | 380         | State EPI Officer, Kolkata, West Bengal         |
| 5                 | East  | GMSD Kolkata | 169        | 66         | 718         | 676         | DADG (St.), GMSD, Kolkata, West Bengal          |
| <b>Total East</b> |       |              | <b>819</b> | <b>200</b> | <b>2048</b> | <b>1794</b> |   |
| 6                 | North | Haryana      | 57         | 0          | 238         | 114         | Dy. Director (SS) MCH/SEPIO, Panchkula, Haryana |
| 7                 | North | Delhi        | 19         | 10         | 179         | 143         | SEPIO Delhi                                     |
| 8                 | North | J&K          | 57         | 21         | 285         | 285         | SEPIO Jammu                                     |
| 9                 | North | Chandigarh   | 5          | 1          | 38          | 57          | SEPIO Chandigarh                                |
| 10                | North | HP           | 10         | 10         | 238         | 238         | SEPIO, Shimla, HP                               |
| 11                | North | Punjab       | 20         | 48         | 330         | 333         | State EPI Officer, Chandigarh, Punjab           |
| 12                | North | UP           | 665        | 98         | 475         | 475         | Joint Director (EPI), Lucknow, UP               |
| 13                | North | Uttrakhand   | 29         | 14         | 255         | 258         | State EPI Officer, Dehradun, Uttrakhand         |

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|                    |       |              |             |            |              |              |   |
|--------------------|-------|--------------|-------------|------------|--------------|--------------|---|
| 14                 | North | GMSD Karnal  | 59          | 11         | 122          | 114          | DADG (St.), GMSD, Chennai, Tamilnadu              |
| <b>Total North</b> |       |              | <b>921</b>  | <b>213</b> | <b>2160</b>  | <b>2017</b>  |   |
| 15                 | South | Andhar. Pr.  | 84          | 0          | 1045         | 1045         | Joint Director, Health, Hyderabad, AP             |
| 16                 | South | Karnatka     | 76          | 30         | 1064         | 1064         | SEPIO, Banglore, Karnatka                         |
| 17                 | South | Kerala       | 57          | 13         | 808          | 850          | SEPIO Trivendram                                  |
| 18                 | South | Tamilnadu    | 133         | 43         | 760          | 760          | Joint Director (Immunization), Chennai, Tamilnadu |
| 19                 | South | Terlangana   | 38          | 0          | 475          | 475          | SEPIO Hyderabad Telangana                         |
| 20                 | South | GMSD Chennai | 22          | 5          | 238          | 221          | DADG (St.), GMSD, Karnal, Haryana                 |
| <b>Total South</b> |       |              | <b>410</b>  | <b>91</b>  | <b>4390</b>  | <b>4415</b>  |   |
| 21                 | West  | Chhatisgarh  | 65          | 0          | 95           | 219          | State EPI Officer, Raipur Chhatisgarh             |
| 22                 | West  | Gujarat      | 67          | 0          | 808          | 570          | Dy. Director (MCH), Gandhinagar, Gujrat           |
| 23                 | West  | MP           | 162         | 0          | 333          | 333          | Joint Director (MCH), Bhopal, MP                  |
| 24                 | West  | Maharashtra  | 86          | 0          | 855          | 855          | State Immunization Officer, Pune, Maharashtra     |
| 25                 | West  | Rajasthan    | 266         | 0          | 285          | 285          | State Cold Chain Officer, FW, Jaipur, Rajasthan   |
| 26                 | West  | GMSD Mumbai  | 30          | 0          | 147          | 134          | DADG (MS), GMSD Mumbai, Maharastra                |
| <b>Total West</b>  |       |              | <b>676</b>  | <b>0</b>   | <b>2523</b>  | <b>2396</b>  |   |
| <b>Grand Total</b> |       |              | <b>2826</b> | <b>504</b> | <b>11121</b> | <b>10622</b> |   |

**The consignee will ensure timely issue of NMIC, CDEC, Octroi Exemption Certificates, Road Permits & Entry Tax Exemption Certificates, wherever applicable, to the suppliers.**