



[2014-15]

**District NCD Cell under District Healthcare Society, Raipur Tender for Turnkey setup of Cardiac Care Unit (CCU) at Raipur under NCPDCS Prog.**

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**Member Secretary    Member(NCD)    Member(NCD)    Member(NCD)**

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**Chairman  
NCD Purchase Committee**

NOT TRANSFERABLE

Ref.No: 003/E(P) /NCD/CCU/2014, Dt. 20/05/14



**NON-COMMUNICABLE DISEASE CELL.**  
**(Office of the Chief Medical and Health Officer)**  
**CMHO Office Parisar,**  
**First Floor, D.K.S Bhavan, Old Nurses Hostel, Raipur - 492001**  
**Phone: 0771-2535315**  
**Website: www.raipur.gov.in, www.ncdcellraipurcg@gmail**

**TENDER FOR THE SUPPLY AND INSTALLATION OF CARDIAC  
CARE UNIT AS A TURNKEY PROJECT**

**To NCD-NPCDCS&NPHCE PROGRAMME BY CHIEF MEDICAL &  
HEALTH OFFICER,RAIPUR,CHHATTISGARH,INDIA**

**(AS PER ANNEXURE I)**

**FOR THE YEAR 2014-2015**

**Revision(If any) -(As Revised upto 20/05/2014)**

**Reason for Revision (If any): Addition of more equipments to schedule of requirement  
Annexure - 1 & related minor correction in Tender document**

**LAST DATE FOR SUBMISSION OF TENDER: 11 /07/2014**

**NON-COMMUNICABLE DISEASE CELL.**  
**(Office of the Chief Medical and Health Officer)**  
**CMHO Office Parisar,**  
**First Floor, D.K.S Bhavan, Old Nurses Hostel, Raipur**  
**Phone: 0771-2535315**  
**Email: ncdcellraipurcg@gmail.com**

TENDER FOR THE SUPPLY OF MEDICAL EQUIPMENTS TO NCD-NPCDCS  
&NPHCE PROGRAMME BY CHIEF MEDICAL & HEALTH OFFICER  
RAIPUR,CHHATTISGARH FOR THE YEAR 2013-2014

**TENDER REFERENCE** : 003/E(P)/NCD/CCU/2014Dt.20.05.2014

TENDER WEBSITE : <https://raipur.gov.in>

DATE OF TENDER PROVIDED : 27-05-2014

DATE OF TENDER UPLOAD : 27/05/2014

STARTING DATE OF BID SUBMISSION : 28/05/2014

LAST DATE AND TIME FOR SUBMISSION OF TENDER : 11/07/2014, 4:30 pm

TIME AND DATE OF PRE-BID MEETING : 13/06/2014, 04:00 pm

TIME AND DATE OF OPENING OF TENDER - COVER A (EMD & TECHNICAL) : 14/07/2014, 01:00 pm

TIME AND DATE OF OPENING OF TENDER -COVER B (Finacial) : 16/07/2014, 01:00 pm

**PLACE OF OPENING OF TENDER** : **First Floor, D.K.S Bhavan, Old Nurses Hostel, Raipur, Chhattisgarh**

**ADDRESS FOR COMMUNCATION** : **NON-COMMUNICABLE DISEASE CELL.**  
**(Office of the Chief Medical and Health Officer)**  
**First Floor, D.K.S Bhavan, Old Nurses Hostel,**  
**Raipur, Chhattisgarh**

TENDER PROCESSING FEES : Rs. 2500/- (Inclusive of Tax) (Non-Refundable)

# TENDER NOTICE

## Procurement policy:

To procure good quality product/services at their true worth though adopting fair, transparent system by providing equal opportunity to all prospective agencies.

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# SECTION-I

## DESCRIPTION, DIRECTIVE & ABBREVIATIONS

Sealed tenders are invited under Two Bid System i.e. Technical Bid and Financial Bid, from eligible and qualified manufacturers or their authorized agents for establishing cardiac care unit in a turnkey project at Raipur under National Programme for Prevention and Control of Cancer, Diabetes, Cardiovascular Diseases & Stroke (NPCDCS).

The Chief Medical & Health Officer (CMHO), FOR NCD-NPCDCS PROGRAMME, Chhattisgarh, D.K.S. Bhavan, Old Nurses Hostel, Raipur, (Hereinafter referred as Tender Inviting Authority/Purchaser unless the context otherwise requires) invites TENDER FOR THE SUPPLY and installation and establishing Cardiac Care unit in a Turnkey Project to NCD-NPCDCS PROGRAMME, FOR THE YEAR 2014-15.

1. Purchaser : Chief Medical & Health Officer(CMHO),Raipur, Chhattisgarh INDIA
2. Consignee :Civil Surgeon cum Hospital Supritendent(DH)-NCD –NPCDCS Programme of the institutes indicated in Schedule of requirements/Scope of work
3. Bidder : Intending agencies participating in Tender process for supply of goods.
4. Supplier : Successful Bidder to who contract is awarded.
5. Language of Bid : English
6. List of equipments : List of equipment with indicative quantity, place of supply/ installation is detailed in Tender Document Annex –I (Schedule of requirements with scope of work)
7. EMD : As Per amount indicated in Anex – I (e – transfer, RTGS/Demand Draft)
8. Tender Processing Fees :Rs.2500/- (Demand Draft /E-transfer, RTGS) (Non-Refundable)
9. Tender System : 2 cover system, Cover – A: Technical Bid, Cover – B: Price Bid
10. Schedule of events : As per tender time schedule (Key dates) on
11. Validity of rate contract : One year from date of awarding contract.
12. Address for communication : **NON-COMMUNICABLE DISEASE CELL.(NCD )  
(Office of the Chief Medical and Health Officer)  
1st Floor D.K.S. Bhavan, Old Nurses Hostel,  
District :Raipur ,Chhattisgarh (C.G )**

## **Note:**

The bidders shall be solely responsible for checking these websites for any addendum/amendment issued subsequently to the bid document and take into consideration the same while preparing and submitting the bids. Bids will be opened in the presence of Bidder's authorized representative who chooses to attend on the specified date and time.

## **ABBREVIATIONS**

NCDC	:	Non-Communicable Disease Cell
NPCDCS	:	National Programme for Prevention and Control of Cancer, Diabetes, Cardiovascular Diseases & Stroke
EMD	:	Earnest Money Deposit
CMHO	:	Chief Medical and Health Officer
DH	:	District Hospital
DHS	:	District Health Society
CHC	:	Community Health Center
PHC	:	Primary Health Center
SHC	:	Sub –Health Centre
MCH	:	Medical College Hospital
TIA	:	Tender inviting authority
UCP	:	Ultimate cost to Purchaser
ISI	:	Indian Standards Institute
US-FDA	:	United State Food and Drug Administration
FDA	:	Food and Drug Administration
BIS	:	Bureau of Indian standards
IEC	:	International Electro technical commission
IS	:	International Standard for electronic Medical Equipments
ISO	:	International Organization for Standardization.
DQ	:	Design Qualification
IQ	:	Installation Qualification
OQ	:	Operational Qualification
PQ	:	Performance Qualification
AMC	:	Annual Maintenance Cost
CMC	:	Comprehensive Maintenance Cost
TEC	:	Tender Evaluation Committee
GCC	:	General Conditions of Contract
SCC	:	Special Condition of Contract

## ELIGIBILITY OF BIDDER

### ELIGIBILITY CRITERIA

2.1 Manufacturing units / importers are eligible to participate in the tender provided, they have

- (i) Valid manufacturing license / import license/ Dealership license. Dealer/Importers have to furnish the authorization from the manufacturer and copy of firms.
- (ii) Valid ISO certificate.
- (iii) Bidder should have minimum three experience of supply & Installation of the CCU Turnkey Project of the item (s) mentioned in the schedule of the requirement/Scope of work (for which bidder is applied) to any Reputed Organization such as Government institution/Corporate Hospital/UN Agencies. out of which atleast one (01) should be in a Govt/ PSU/Corporate Hospital in India. Out of these three (03) projects, atleast one (01) project should be of an order value of minimum Rs 1.10 crore during the last three (3) years as on 31st March 2014. and weightage will be given to the more experience of supply of CCU Turnkey Project to the bidders.

**For supporting bidder should attached copy of work order/supply order, Further the work order/ supply order copy attach should be in the name of Bidder.**

Note:

- a. Bidder's in house project (if any ) shall not be considered .
  - b. Bidders who have built their own Cardiac Care Unit (CCU), for commercial use for external customers will be considered
- (iv) Average turnover of the manufacturing firm should be Rs.2.50 Crore or more in the last three (3) financial years , (2009-10, 2010-11, 2011-12) and turnover of F.Y 12-13 may also be consider for period of 3 years **In support of which bidder should attached copy of Audit Report.**
  - (v) Manufacturing unit who has been blacklisted either by the Tender inviting authority or by any state Govt. or Central Govt. organization is not eligible to participate in the tender for that item during the period of blacklisting. (Affidavit Regarding non blacklisting should be submitted in Cover A: Technical bid

section)

- (vi) Bidder firm should have existence for more than 3 years. (For supporting, Bidder should provide the registration certificate.) and weightage will be given to the existence firm/company/agencies which have more than 3 years of existence with the discretion of purchase committee.

2.2 Authorized distributors are eligible to participate in the tender provided:

- (i) They submit manufactures authorization and authorization to transact business on behalf of the manufactures as per the format at Annexure –IV. The authorize distributor may raise bill, if specially authorized by the manufacturer.
- (ii) The authorize distributor will submit all the documents in the support of eligibility of the manufacturer as mentioned in clause No.2.1 along with the tender.
- (iii) Average turnover of the Bidder should be Rs. 2 Crore or more in the last three (3) financial years (2009-10, 2010-11, 2011-12) and turnover of F.Y 12-13 may also be consider for period of 3 years copy of audit report should be submitted.
- (iv) Distributor should attach self certified copy of Dealership allotted by Company/Agency/ventures/Institution.

2.3 (i) The proprietor of the firm, its partner or representative must not be convicted by a court of law following prosecution for offences involving moral such as bribery, corruption, fraud, substitution of bids, interpolation, misrepresentation, evasion or habitual default in payment of any tax levied by law. (Non- Conviction Certificate should be included in Cover: A)

***\*Government-owned enterprises may participate only if they are legally and financially autonomous, if they operate under commercial law, and if they are not a dependent agency of the Purchaser.***



## **SECTION II**

### **INSTRUCTION TO BIDDERS**

#### **SECTION II: INSTRUCTION TO BIDDERS**

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## INSTRUCTION TO BIDDERS

### 1. Refund of Earnest Money Deposit

The EMD should be refunded in the following circumstances:

1. The EMD submitted by unsuccessful bidders shall be returned to them without any interest whatsoever, within 30 days after conclusion of the contract with successful bidder.
2. The EMD submitted by the successful bidder should be returned without any interest after the successful bidder deposits the performance security according to conditions stipulated in the bid document.

#### A. Forfeiture of Earnest Money Deposit

The EMD shall be forfeited in the following circumstances:

1. If the bidder withdraws from the bid in any respect within the period of validity of the bid.
2. If the bidder fails to furnish the required performance security within the specified period after the award of the contract

### 2. CLARIFICATION OF BIDDING DOCUMENTS

A prospective Bidder requiring any clarification of the Bidding Documents may notify the **Purchaser** in writing or by e-mail at the **Purchaser's** mailing address indicated in the Invitation for Bids. The bidder or his official representative is invited to attend a pre-bid meeting which will take place at Office of Chief Medical and Health officer Conference Hall on **13/06/2014 at 01:00 pm**

The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised up to that stage. Tender inviting authority reserves the right to take decision on nature of technical specification and extend of amendments required and rest pass to the chairman of district health society with recommendation of

chairman of ncd purchase committee with specific reason to do so such amendments.  
Basic aliments of tender document can not be extended for Amendments.

### 3. AMENDMENT OF BIDDING DOCUMENTS

At any time prior to the deadline for submission of bids, the **Purchaser** may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the Bidding Documents by an amendment. All such amendments will be made available on tender website.

In order to allow prospective bidders reasonable time in which to take the amendment into account in preparing their bid, the Purchaser may, at its discretion, extend the deadline for the submission of bids.

### 4. THE TENDER PROCESS

The tender process will be of 2 cover system, consisting:

Cover – A: Technical Bid

Cover – B: Price Bid

#### Requirements of Cover A :

- Description of the bidder : Not more than 1 page
- Documentary evidence of constitution of firm.
- List of items for which bid is quoted ( As per format annexure – XVI)
- Copy of RTGS Receipt/Demand Draft for submission of tender processing fee.
- Copy of RTGS Receipt for submission EMD / Copy of exemption certificate.
- Acceptance of all terms & conditions in all Sections of Tender document. (Declaration as per Annex – III )
- Copy Valid manufacturing license / US FDA Certificate/import license( Incase of Importer Only )/ Dealership license (Importers and dealers should also submit the copy of valid manufacturing license of the firm to which the product belongs),if importers/dealers participate then they will submit ML/US FDA Certificate of manufacturing.
- ~~The selected firm should have a service centre in Chhattisgarh~~
- Manufactures authorization and authorization to transact business on behalf of the manufacture ( For dealers/Distributors) Annexure -IV
- Audit Report
- Sales Tax, Vat tax /Service Tax and other Tax and Duties upto date clearance certificate.
- Copy of PAN Card of firm/Company/Identity
- Performance certificate (Annexure – VI)

- Non- Conviction affidavit
- Copy of ISO certificate.
- The Original Tender Booklet with Conditions and the schedules signed by the tenderer at the bottom of each page with his official seal duly affixed.  
T-Forms –T1 to T14
- Experience documents.
- Latest Six Month Bank Statement
- Other documents for establishing eligibility of bidder.\*

Note: *All copies should be sealed, signed and were required notarized.*

- For Equipment and Furniture Make and Model of the equipment./Furniture
- Copy of IEC – 60601/ IS 13450 certificate for equipments consuming electricity.
- ISI/BIS/CE/US-FDA /FDA Certificates or any other Quality assurance Certificates for each product quoted
- Non Black listed affidavit of the item quoted.
- Radiation Safety Related Certificates / documents where required
- Leaflet/Literature/Manual, Further Leaflet/Literature/Manual submitted should be contain technical specification of product , were Leaflet/Literature/Manual Does not contain technical specification of Product bidder may be disqualify to participate in Part Cover B
- Product specification in specified column of Annex – IX
- Undertaking for supply of spare part and service for 5 year after award of contract.
- Details name, address, telephone no., Fax, e-mail of the manufacturer /authorized distributor / service centre / contract person / office in Chhattisgarh.
- Other documents for establishing product,Scope of Project Work information.\*

Requirements of Cover B :

- List of items as per Turnkey unit as a whole for which bid is quoted with price (UCP) *(to be filled manually )*
- ***F Forms i.e F1 to F4***
- Ultimate cost to the purchaser with break up. *(to be filled manually)*

In format as per annex - XV

- Item wise cost of Scope of work for CMC after warranty period. (*to be filled manually*)
- The spare price list of all spares and accessories (including minor) required for maintenance and repairs. (*to be provided*) This will be only for information of the purchaser.

*Note: The list documents mentioned above is only inclusive in nature; the bidder should provide all other documents which may be asked by the Tender inviting authority. All copies should be sealed, signed and notarized, and provided in specific template available in tender document. The In addition to this bidder may facillitate/provide any other documents such as power point presentation, supporting documents in favour for any item quoted in space provided for this purpose.*

The bidders meeting all criteria of Cover: A (Technical Bid) will be qualified for evaluation of Cover: B. (Price bid )(of qualified bidder) will be opened only for those items of any bidder that deemed satisfactory and responsive during technical evaluation. **Price comparison will be done on basis of ultimate cost to the purchaser that includes scope of work mentioned in Tender document and cost of equipment, furniture ,Interior work etc all forms of taxes, installation, turnkey and services within warranty period.**

After completing the entire evaluation process for the responsive bids on they it will be entered into a ranking statement in ascending order of the evaluated prices (for example L1, L2, L3...) along with other relevant details, so that a clear picture of their standing as well as comparative financial impact is available at a glance.

## **5. AWARD OF CONTRACTS**

### Award Criteria

Purchaser shall award the Contract to the qualified Bidder whose bid has been determined to be substantially responsive and has been determined to be the lowest evaluated bid subject to the bidder agrees to all terms and condition of the tender. In case of non acceptance of agreement the Purchaser will proceed to the next-lowest evaluated Bidder

*Note: No bidder shall try to influence the Purchaser on any matter relating to its bid, from the time of the bid opening till the time the contract is awarded. Any effort by a bidder to modify his bid or influence the purchaser in the purchaser's bid evaluation, bid comparison or contract award decision shall result in the rejection of the bid.*

Purchaser's right to accept any bid and to reject any or all bids :

The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids, at any time prior to award of contract without assigning any reason whatsoever and without thereby incurring any liability to the affected bidder or bidders on the grounds of purchaser's action.

**Sub-Contracting is not allowed to the bidder, However Bidder can procure services by the third party. The Ultimate responsibility shall lye with the Bidder in case Bidder is taking services by Third Party. Bidder shall take prior approval from Purchaser before hiring the third party.**

Issue of notification of award

The issue of Notification of Award shall constitute the intention of the Purchaser to enter into contract with the bidder. Prior to the expiration of the period of bid validity, the Purchaser will notify the successful Bidder in writing by registered letter or by cable, to be subsequently confirmed in writing by registered letter, that its bid has been accepted

The bidder shall within 07 days of issue of the Notification of Award, give his acceptance along with performance security in conformity with the bid document. In case the bidder is not willing to unconditionally accept the contract within the specified timeframe, the EMD submitted will be forfeited

**6. PROGRESSIVE PAYMENT:**

The payment shall be made on progressive basis, as follows;

On completion of 20% of work	=	10% of Contract value
On completion of 40% of work	=	30% of Contract value
On completion of 60% of work	=	50% of Contract value
On completion of 80% of work	=	70% of Contract value
On completion of 100% of work	=	90% of Contract value
On providing Performance Bank Guarantee	=	100% of Contract value

**7. PERFORMANCE SECURITY**

Performance security acts as a safeguard against unsatisfactory performance or violation of contract agreement by the supplier on the contract.

Performance security shall be solicited from all successful bidders irrespective of their registration status. Ordinarily, performance security will be an amount of 10% of the value of the contract as stated in the bid document. Performance security may be furnished in form of an Account payee Demand Draft/Bank Guarantee with One-Year validity from the date of

completion of project.

Performance security is to be furnished before release of last installment of payment and it should remain valid for a period of 1 year beyond the date of completion of all contractual obligations of the supplier, including warranty obligations.

***Note: In case of breach of contract by the supplier, the performance security is to be forfeited. If the supplier duly performs and completes the contract in all respect, the performance security shall be returned to the supplier without any interest, on completion of all such obligations under the contract. (Ref: PROCUREMENT AND OPERATIONAL MANUAL FOR MEDICAL STORE ORGANISATION, Govt. of India)***

## **7. WARRANTY/DEFECTS LIABILITY PERIOD**

1. Minimum Guaranty/Warranty to be offered by the bidder of the quoted equipment/item shall be of at least 03 (Two) years from the date of installation of equipment/item. Any period more than 3 years of the warranty is appreciable.
2. All losses due to defects resulting from faulty design, materials and workmanship during the warranty period shall be compensated by the supplier.
3. In case of any defects detected in items under warranty, the users shall notify procurement authority about the same. Procurement authority shall promptly notify the supplier in writing for any claims arising from such defects. If the defect is not rectified by the supplier within the specified time period, procurement authority shall take necessary actions to claim compensation at the supplier's expense.

## **8. OTHER IMPORTANT INSTRUCTIONS**

1. The purchaser shall have all rights to modify, addition, subtraction of any term(s) and condition(s) of the tender and different bids therein during any time of tender process, which shall be communicated to the bidder by in template.
2. The place of installation and quantity of equipment/item shall be given in the purchase order by the purchaser to the bidder after award of tender to the bidder. It shall be the responsibility of bidder to install quoted equipment/item and ordered quantity at the place of installation given in above purchase order.
3. The bidder(s) are to submit their tenders in **separate** sealed covered envelopes for **technical bid** and **Price bid** by superscribing **Cover "A"(Technical Bid) & Cover "B" (Price/commercial Bid)** and both the sealed covers should be put into a **third outer Cover**, which should be superscribed as "Tender for supply & installation of Cardiac Care Unit –Turnkey project at District Hospital for NCD " & Tender Reference No.\_\_\_\_\_.



4. Both Cover-A and Cover-B should have an **index and page number** of all the documents submitted inside that cover.
5. The price quoted by the tenderers shall not in any case, exceed the controlled price, if any, fixed by the Central / State Government / DGS&D and the Maximum Retail Price (MRP). The purchaser, at his discretion, will in such case, exercise the right of revising the price at any stage so as to confirm to the controlled price or MRP as the case may be
6. The Tax will be charged as per the guidelines given by the Finance Dept.,Govt. of Chhattisgarh from time to time. Either C.S.T or V.A.T (as applicable) will be paid to the supplier. In case of Entry Tax, the supplier has to deposit the original receipt to claim it, if finished goods are brought from outside the State. The Sales Tax & entry tax components should be shown **separately** in the Price Schedule.
7. The tenderer shall submit the pre-requisite information like Civil works/ Electrical details etc. within 2 weeks from the date of receipt of order or establishment of letter of credit as the case may be.
8. The equipment, supplied, should bear the make, model, Sl.No. and specifications (like power consumption etc)
9. The supplier shall also confirm the Installation, Commissioning, Demonstration and Training to the concerned of this Institute. Preventive maintenance has to be undertaken by the supplier at least once in 6 month, besides inducting the training to the concerned.
10. Undertaking for supply of spare parts and services

**i) Manufacturer Bidders :-**

- a. An undertaking for the uninterrupted supply of adequate spares for at least a period of 5 years shall be furnished.
- b. Availability/ establishment of after sales service facility in Chhattisgarh to ensure uninterrupted after sales service during warranty and maintenance period shall be confirmed. The details of service facility available / proposed to be set up shall be furnished in their bid.

**ii) Non-Manufacturer Bidder:-**

- a. The bidder shall furnish an undertaking for the uninterrupted supply of adequate spares for at least a period of 4 years with the backup undertaking from their manufacturer.
- b. Availability/ establishment of after sales service facility at least in Chhattisgarh to ensure uninterrupted after sales service during warranty and maintenance period shall be confirmed. The details of service facility available / proposed to be set up shall be furnished in their bid.

11. In case the equipment/item installed by the bidder not meets the specifications of quoted equipment/item, the purchaser shall have all rights to cancel the equipment/item's purchase order, and the bidder shall be responsible to take back the installed equipment/item at his/her own cost after getting the order of purchaser.
12. The external power supply will be provided by the Deptt. but the internal wiring and electrical fittings inside the room for installation & commissioning of the equipment and accessories will be provided by the supplier without any extra cost.
9. Price quoted in bid shall be valid for one year from the date of award of quoted equipment/item. No change in the price shall be allowed to any reason in the validity period.
10. The decision of the TEC of NCD or any officer authorized by the Committee in respect of the quality of the supplied equipment and other goods etc. shall be final and binding.
11. In case of complaints, bills will be withheld till receipt of satisfactory performance report. If two items of any firm, are found sub-standard during the calendar year, then the firm will be **black listed** and it will not be allowed to participate in tender for the next 5 years.
12. No claims shall be allowed against the Tender Inviting authority in respect of interest on Earnest Money Deposit or on Security Deposit or late payments.
13. Apart from the penal actions mentioned in the conditions of contract, If the successful bidder fails to undertake the contract, the bidder is liable for all damages sustained by NCD by reasons of breach, including the liability to pay any difference between the prices accepted by him and those ultimately paid for the procurement of the articles concerned.
14. If any articles or things supplied by the bidder have been partially or wholly used after supply and are subsequently found to be in bad order, unsound, inferior in quality or description or otherwise faulty or unfit for usage, then the contract price or prices of such articles or things will be recovered from the bidder, if payment had already been made to him. .
15. Non performance of contract provisions will disqualify a firm to participate in the bid for next five years.
16. In all the above conditions the decision of the NCD Purchase Committee or any officer authorized by the committee shall be final and binding.
17. Bidders are advised and required to go through Annexure – XIV, for guidance regarding payment of EMD, Tender processing fee through Demand draft/RTGS, filling and submission of tender documents.
18. In schedule of requirement Annexure - I,) . scope of project work /Equipments is to

be supplied to District Hospital Raipur, and also place for delivery of these items will be in any health facility across undivided Raipur (Raipur, Balodabazar & Gariyaband ) Chhattisgarh. Exact place of delivery will be indicated in purchase orders. Bidders may take a note of it for calculating price bid.

## **SECTION III**

### **GENERAL CONDITIONS OF CONTRACT**

# **GENERAL CONDITIONS OF CONTRACT**

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# GENERAL CONDITIONS OF CONTRACT

## 1. DEFINITIONS

In this Contract, the following terms shall be interpreted as indicated:

- (a) **“The Purchaser”** means the Chief Medical and Health Officer Raipur C.G for NCD-NPCDCS PROGRAMME (NCD), the Entity purchasing the Goods.
- (b) **“The Bidder”** means the individual or firm who participates in the tender and submits its bid.
- (c) **“Days”** means calendar days.
- (d) **“GCC”** means General Conditions of Contract.
- (e) **“The Supplier”** means the individual or firm supplying the goods and Services under the contract.
- (f) **“The Goods”** means all equipment, machinery, and/or other materials which the Supplier is required to supply to the Purchaser under the contract.
- (g) **“Services”** means services ancillary to the supply of the Goods, such as transportation and insurance, and any other incidental services, such as installation, commissioning, provision of technical assistance, training and other obligations of the Supplier covered under the Contract.
- (h) **“End User”** means the consignees stated in the Schedule of Requirements.
- (i) **“The Notification of Award”** means the intention of the Purchaser to place the Purchase order on the bidder or to enter in to contract with the bidder.
- (j) **“The Contract”** means the agreement entered into between the Purchaser and the Supplier, as recorded in the Contract Form signed by the parties, including all the attachments and the appendices thereto and all documents incorporated by reference therein.
- (k) **“The Contract Price”** means the price payable to the Supplier under the contract for the full and proper performance of its contractual obligations.
- (l) **“Validation”** is a process of testing the equipment as per the specifications including requirements for use in hospital is carried out in simulated field environment.

## 2. STANDARDS

The goods supplied under this contract shall conform to the standards prescribed in the Technical Specifications mentioned in Annexure - II and when no applicable standard is mentioned, to the authoritative standard appropriate to the Goods Country or origin and such standards shall be latest issued by concerned Institution.

## 3. USE OF CONTRACT DOCUMENTS AND INFORMATION

3.1 The Supplier shall not, without the Purchaser's prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Purchaser in connection therewith, to any person other than a person employed by the Supplier in the performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.

3.2 The Supplier shall not, without the Purchaser's prior written consent, make use of any document except for purposes of performing the Contract.

3.3 Any document, other than the Contract itself, enumerated in GCC Sub-Clause 3.1 shall remain the property of the Purchaser and shall be returned (all copies) to the Purchaser on completion of the Supplier's performance under the Contract if so required by the Purchaser.

3.4 The Supplier shall permit the Purchaser to inspect the Supplier's accounts and records relating to the performance of the Contract and to have them audited by auditors appointed by the Purchaser, if so required.

## 4. PATENT RIGHTS

The supplier shall indemnify the purchaser against all third-party claims of infringement of patent, trademark or industrial design rights arising from use of the goods or any part thereof in India.

## 5. PERFORMANCE SECURITY: As per clause No.6 of ITB

## 6. INSPECTIONS AND TESTS

6.1 The Purchaser or his representative shall have the right to inspect and test the goods as per prescribed test schedules for their conformity to the specifications. Where the Purchaser



decides to conduct such tests on the premises of the supplier or its subcontractor(s), all reasonable facilities and assistance like Testing instruments and other test gadgets including access to drawings and production data shall be furnished to the inspectors at no charge to the purchaser.

6.2 Should any inspected or tested goods fail to conform to the specifications the purchaser may reject them and the supplier shall either replace the rejected goods or make all alterations necessary to meet Specification requirements free of cost to the purchaser.

6.3 Notwithstanding the pre-supply tests and inspections prescribed in GCC Clause 6.1 & 6.2 above, the equipment and accessories on receipt in the Purchaser's premises will also be tested during and after installation before "take over" and if any equipment or part thereof is found defective, the same shall be replaced free of all cost to the purchaser as laid down in GCC Clause 6.4 below.

6.4 If any equipment or any part thereof, before it is taken over under GCC Clause 6.5, is found defective or fails to fulfill the requirements of the contract, the inspector shall give the Supplier notice setting forth details of such defects or failure and the supplier shall make the defective equipment good, or alter the same to make it comply with the requirements of the contract forthwith and in any case within a period not exceeding three months of the initial report. These replacements shall be made by the supplier free of all charges at site. Should it fail to do so within this time, the purchaser reserves the discretion to reject and replace at the cost of the supplier the whole or any portion of equipment as the case may be, which is defective or fails to fulfill the requirements of the contract. The cost of any such replacement made by the purchaser shall be deducted from the amount payable to the supplier.

6.5 When the performance tests called for have been successfully carried out, the inspector / ultimate consignee will forthwith issue a Taking Over Certificate. The inspector /ultimate consignee shall not delay the issue of any "taking Over Certificate" contemplated by this clause on account of minor defects in the equipment which do not materially affect the commercial use thereof provided that the supplier shall undertake to make good the same in a time period not exceeding two months. The Taking Over Certificate shall be issued by the ultimate consignee within six weeks of successful completion of tests. In this case, a Consignee Receipt Certificate issued by the consignee as per the Format given in Section VI shall be equivalent to "Taking Over Certificate", issuance of which shall certify receipt of goods in safe and sound condition. However, they shall not discharge the supplier of their warranty obligation. The Consignee Receipt Certificate in respect of last consignment against the Contract will be

equivalent to “Taking Over Certificate”.

6.6 Nothing in GCC Clause 6 shall in any way release the Supplier from any warranty or other obligations under this contract.

## 7. PACKING

7.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt, and precipitation during transit and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the Goods’ final destination and the absence of heavy handling facilities at all points in transit.

7.2 The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be provided for in the Contract including additional requirements, if any, specified in SCC and in any subsequent instructions ordered by the purchaser.

7.3 Packing Instruction: The supplier will be required to mark separate packages for each consignee. Each package will be marked on three sides with proper paint/indelible ink, the following:

- i. Purchaser:
- ii. Contract No.
- iii Supplier Name
- iv. Packing List reference Number

## 8. DELIVERY AND DOCUMENTS

The supplier should deliver the equipment/equipments **within 21 days from the date of purchase order** at the site of delivery as indicated. Upon or before delivery of the Goods, the Supplier shall notify the Purchaser in writing and deliver the following documents to the Purchaser:

- (i) Two originals and two copies of the Supplier’s invoice,(As per programme - invoice requirement ) showing Purchaser, the Contract number, Goods’ description, quantity, unit price, and total amount. Invoices must be signed in original and stamped or sealed with the company stamp/seal;

- (ii) Two copies of delivery note, railway consignment note, road consignment note, truck or air waybill, or multi-modal transport document showing Purchaser as **Chief Medical and Health Officer NCD-NPCDCS PROGRAMME** [ enter correct name of Purchaser for excise purposes ] and delivery through to final destination as stated in the Contract;
- (iii) Copy of the Insurance Certificate, showing the Purchaser as the beneficiary;
- (iv) Three copies of the packing list identifying contents of each package;
- (v) One original of the manufacturer's or Supplier's Warranty certificate covering all items supplied;
- (vi) Original copy of the Certificate of Inspection furnished to Supplier by the nominated inspection agency;
- (vii) Other procurement-specific documents required for delivery/payment purposes.

The above documents shall be received by the Purchaser before arrival of the Goods (not to be handed over to the Consignee with all documents) if not received, the Supplier will be responsible for any consequent expenses.

## 9. TRAINING

9.1 The supplier shall demonstrate at pre-bid meeting abouts its products/scope of CCU Project as a Turnkey unit and thereby after supply of equipment where training is required provide training (Mandatory for all equipments especially for Pathology Laboratory Equipments ) on use and maintenance of the Equipments to the consignee's personnel the purchaser free of cost where required. The supplier shall provide all training materials and documents and demonstration cum training for making optimum use of equipment

9.2 The firm / supplier will provide hands on training to two doctors and two technicians of the concerned District Hospital and CHC/PHC/SHC in his own cost for operating / handling the medical equipment(s) at the time of installation of equipment and The supplier / firm will provide the operation / maintenance manuals of all equipments to the purchaser at the time of installation.

9.3 Conduct of training of the purchaser's personnel may on-site in assembly start-up operation, maintenance and/or repair of the supplied goods.

## 10. INCIDENTAL SERVICES

10.1 The supplier may be required to provide any or all of the following services:

- (a) Performance or supervision of on-site assembly and/or start-up of the supplied Goods;
- (b) Furnishing of tools required for assembly and/or maintenance of supplied Goods; \

- (c) Performance of supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties provided that this service shall not relieve the supplier of any warranty obligations under this contract.
- (d) Furnish detailed operations and maintenance manual for each appropriate unit of supplied goods.

## 11. SPARES

11.1 Clause no 8.6 of ITB should be adhered.

11.2 In the event of termination of production of the spare parts, the supplier shall give advance notification to the purchaser pending termination (not less than 2 years), in sufficient time to enable the purchaser to procure life time spare; and Following such advance intimation of termination, furnish at no cost to the purchaser, the blue prints, drawings and specifications of spare parts, if and when requested.

These spares should be supplied within a maximum period of 15 days from the notification by the purchaser of his need.

## 12. INSURANCE

The Goods Supplied under the Contract shall be fully insured in Indian Rupees against the loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in the Special Conditions of Contract.

## 13. TRANSPORTATION

Where the Supplier is required under the Contact to transport the Goods to a specified place of destination with in the undivided district, defined in Consignee list, transport to such place of destination, including insurance and storage, as shall be specified in the Contract, shall be arranged by the Supplier at ( FOD) Free on Delivery Basis at Consignee destination place, and no related costs shall be included in the Contract Price.

## 14. WARRANTY

14.1 The supplier shall warrant that the goods to be supplied shall be new and free from all defects and faults in materials used, workmanship and manufacture and shall be of the highest

grade and consistent with the established and generally accepted standards for materials of the type ordered and shall perform in full conformity with the specifications and drawings. The supplier shall be responsible for any defect that may develop under the conditions provided by the contract and under proper use, arising from faulty material, design or workmanship such as corrosion of the equipment, inadequate quantity of material to meet equipment requirements, inadequate contact protection, deficiencies in circuit design and/or otherwise (See clause no. 7 of ITB also)

14.2 Replacement under warranty clause shall be made by the supplier free of all charges at site including freight, insurance and other incidental charges.

## 15. PAYMENT TERMS

15.1 The Supplier's request(s) for payment shall be made to the Purchaser in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and Services performed, and by documents submitted to purchaser pursuant to GCC Clause 8, and upon fulfillment of other obligations stipulated in the Contract.

15.2 Payment for goods shall be made in Indian Rupees as follows:

- a) No advance payment is payable.
- b) 80% payment will be made against supply and Installation, commissioning and training of equipments at the respective sites against certification from the consignee in the format provided in Annexure - XIV
- c) Rest 20% of the payment will only be made after receipt of certificate on working status of the equipment from the consignee after 90 Days of installation and commissioning.

## 16. PRICES

- (i) (a) Prices charged by the supplier for goods delivered and services performed under the contract shall not be higher than the prices quoted by the Supplier in his Bid.
- (b) In the case of revision of Statutory Levies/Taxes during the finalization period of tender, the Purchaser reserves the right to ask for reduction in the prices.

- (ii) (a) Prices once fixed will remain valid during the schedule delivery period. Increase and decrease of Taxes and other statutory duties will not affect the price during this period.
- (b) Any increase in taxes and other statutory duties/levies after the expiry of the delivery date shall be to the supplier's account. However benefit of any decrease in these taxes/duties shall be passed on to the Purchaser by the supplier.

## 17. CHANGES ORDERS

17.1 The purchaser may, at any time, by a written order given to a supplier, make changes within the general scope of the contract in any one or more of the following:

- (a) drawings, designs or specifications, where Goods to be supplied under the contract are to be specifically manufactured for the Purchaser;
- (b) the method of transportation or packing;
- (c) the place of delivery; or
- (d) The services to be provided by the supplier.

17.2 If any such change causes an increase or decrease in the cost of, or the time required for the execution of the contract an equitable adjustment shall be made in the contract price or delivery schedule, or both, and the contract shall accordingly be amended. Any proposal by the supplier for adjustment under this clause must be made within seven days from the date of the receipt of the change in order.

## 18. CONTRACT AMENDMENTS

Subject to GCC Clause 17, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by both the parties.

## 19. ASSIGNMENT

The Supplier shall not assign, in whole or in part, its obligations to perform under the contract, except with the *Purchaser's* prior written consent.

## 20. SUBCONTRACTS AND SUBCONTRACTORS

The Supplier shall notify the Purchaser in writing of all subcontracts awarded under this contract if not already specified in his bid. Such notification, in his original bid or later shall not relieve the supplier from any liability or obligation under the Contract. Sub-contract shall be only

for bought-out items and sub-assemblies.

In case the Bidder proposes to employ sub-contractor(s)/manufacturers for some of the plant & equipment, the sub-contractor(s)/manufacturers must meet the minimum criteria. Failure to comply with this requirement will result in rejection of the subcontractor. The Bidder shall mention the same in his bid. Name of subcontractors from whom he is proposing to source such plant & equipment for execution of the contract shall be indicated in the bid. However the bidder shall have the option to certify that all the proposed subcontractor(s) proposed in the bid are fulfilling the Pre-Q criteria and in case of the award of the contract the necessary documentation supplementing the credentials of the subcontractors shall be supplied before signing of the contract subject to the approval of the Purchaser

## 21. DELAYS IN THE SUPPLIER'S PERFORMANCE

1. Delivery of the Goods and performance of the Services shall be made by the Supplier in accordance with the time schedule specified by the **Purchaser** in its Schedule of Requirements.
2. If at any time during the performance of the Contract, the Supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of the Services, the Supplier shall promptly notify the **Purchaser** in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the **Purchaser** shall evaluate the situation and may at its discretion extend the Supplier's time for performance with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of the Contract.
3. Except as provided under GCC Clause 24, a delay by the Supplier in the performance of its delivery obligation shall render the supplier liable to the imposition of liquidated damages pursuant to GCC Clause 22, unless any extension of time is agreed upon pursuant to GCC clause 21.2 without the application of liquidated damages.

## 22 Site Visits

**It is mandatory for the bidder to visit and examine the project site**, and revalidate all the information required for preparing a response to the bid. **The bidder**

**shall also collect the proposed layout (400 sqm area appx.)and drawings of the CCU area during the site visit.** The cost of such visits to the Sites shall be at the Bidder's expense. The Bidder and any of its personnel or agents will be granted permission to enter only upon the condition that the Bidder, its personnel, and agents, will indemnify from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of such inspection, undertaken by the bidder. The Bidder shall at its own risk, peril, cost and liability undertake site visits to designated facilities in the state.

## 23 Consortium and sub-contracting

- i) The bid shall be submitted by an individual organization or a **consortium**. The consortium shall be evaluated (during technical evaluation) based on the total strength as defined in this bid document. For the qualification, only the lead bidder will be considered. If any member gets deleted or withdrawn after submission of bid, the evaluation shall no longer be valid.
- ii) In case of a consortium, applicant consortia shall have a valid Memorandum of Understanding (MoU)/ agreement among all the members signed by the Chief Executives/ Authorized Signatories of the companies dated prior to the submission of the bid. The MoU/ agreement shall clearly specify the stake of each member and outline the roles and responsibilities of each member. The MoU/ agreement shall be exclusively for this project and shall be responsible in case of failure by any member.
- iii) In case of a consortium, all members shall be jointly and severally responsible for the implementation of the project as per the requirement.
- iv) In the event Bidder intends to use **Sub-contractor** for any major part of the Project, the following details shall be included in the Proposal-
  - a) Information on the nature of the Sub-contractor's organization and documentary approved evidence of its competence to undertake the work involved together with details of the specialized staff to be furnished for prior approval of purchaser. Proposal shall include detailed brochures relating to all parts of the Project including the parts of the Project that are to be undertaken by Sub-contractors. Moreover, the Bidder shall submit an explicit undertaking from each Sub-contractor regarding the warranty, support and services that shall be provided by the Sub-contractor through the Bidder if the Bidder's Proposal is accepted.
  - b) Documentary Evidence (stamp & notarized ) in writing of firm commitments from all Sub-contractors stating that they will undertake such part of the Project if the



Bidder's Proposal is accepted would be required and accountability of Bidder in writing (stamp form ) will be accepted.

- c) Documentary evidence (stamp and notary ) that all obligations imposed by the tender on the Bidder have been fully understood and accepted where applicable by the Sub-contractors referred to in (a) above would be required.
- v) It is mandatory for the bidder to quote for all the items mentioned in the tender. Incomplete bids shall be rejected.
- vi) No consortium would be allowed if either the Lead Bidder or any member of the consortium is black listed by any of the State Governments. The Lead Bidder shall submit an affidavit to this effect.

#### 24. LIQUIDATED DAMAGES

Subject to GCC Clause 24, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the **Purchaser** shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in the SCC. Once the maximum is reached, the **Purchaser** may consider termination of the Contract pursuant to GCC Clause 23.

#### 25. Termination for Default

- (a) The **Purchaser** may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, terminate the Contract in whole or part;
  - (i) if the Supplier fails to deliver any or all of the goods within the time period(s) specified in the Contract, or within any extension thereof granted by the **Purchaser** pursuant to clause 21; or
  - (ii) if the Supplier fails to perform any other obligation(s) under the Contract; or
  - (iii) if the supplier, in the judgment of the **Purchaser**, has engaged in fraud and corruption, as defined in GCC clause 32, in competing for or in executing the contract.
- (b) In the event the **Purchaser** terminates the Contract in whole or in part, pursuant to GCC Clause 23.1(a), the **Purchaser** may procure and act , upon such terms and in

such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the **Purchaser** for any additional costs for such similar Goods. However, the Supplier shall continue the performance of the Contract to the extent not terminated.

#### 24. Termination for Insolvency

The **Purchaser** may at any time terminate the Contract by giving written notice to the Supplier, if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the **Purchaser**.

#### 26. Termination for Convenience

- (a) The **Purchaser**, may by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the **Purchaser**'s convenience, the extent to which performance of work under the Contract is terminated, and the date upon which such termination becomes effective.
- (b) The Goods that are complete and ready for shipment within 10 days after the Supplier's receipt of notice of termination shall be accepted by the **Purchaser** at the Contract terms and prices. For the remaining Goods, the **Purchaser** may elect.
  - (i) To have any portion completed and delivered at the Contract terms and prices; and /or
  - (ii) To cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and for materials and parts previously procured by the Supplier.

#### 27. Force Majeure

1. Notwithstanding the provisions of GCC Clauses 21, 22, 23, the Supplier shall not be liable for forfeiture of its performance security, liquidation damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

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 not foreseeable. Such events may include, but are not limited to, acts of the **Purchaser** either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
3. If a Force Majeure situation arises, the Supplier shall promptly notify the **Purchaser** in writing of such conditions and the cause thereof. Unless otherwise directed by the **Purchaser** in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

#### 28. Resolution of Disputes

1. The **Purchaser** and the supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.
2. If, after thirty (30) days from the commencement of such informal negotiations, the **Purchaser** and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified in the Special Conditions of Contract. These mechanisms may include, but or not limited to, conciliation mediated by a third Party, adjudication in an agreed national forum, and national arbitration.

#### 29. Governing Language

The contract shall be written in English language. Subject to Clause 29, English language version of the Contract shall govern its interpretation. All correspondence and documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.

#### 30. Applicable Law

The Contract shall be interpreted in accordance with the laws of the Union of India.

#### 31. Notices

Any notice given by one party to the other pursuant to this Contract shall be sent

to other party in writing or by cable, telex or facsimile and confirmed in writing to the other Party's address specified in Special Conditions of Contract.

### 32. Taxes and Duties

Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the contracted Goods to the *Purchaser*.

### 33 Approvals/ Clearance

- Necessary approvals/ clearances from PWD/ Concerned authorities/ Health Department/ any service provider, for establishing the CCU and shall be provided by the government.
- Necessary approvals/ clearances from concerned authorities, as required, for fire protection, government duties/ taxes/ octroi, shall be obtained by the bidder.

### 34. Fraud and corruption

1. If the Purchaser determines that the Supplier has engaged in corrupt, fraudulent, collusive, coercive or obstructive practices, in competing for or in executing the Contract, then the Purchaser may, after giving 7 days notice to the Supplier, terminate the Supplier's employment under the Contract and cancel the contract, and the provisions of Clause 23 shall apply as if such termination had been made under clause 23.
  - (a) For the purposes of this Sub-Clause:
    - (i) "Corrupt practice" is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
    - (ii) "fraudulent practice" is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
    - (iii) "Collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including influencing improperly the actions

of another party;

- (iv) “Coercive practice” is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;
- (v) “Obstructive practice” is
  - (a) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a purchaser investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or
  - (b) acts intended to materially impede the exercise of the purchaser’s inspection and audit rights provided for under Clause 11 [Inspections and Audits by the Bank].

**2. Notwithstanding the clause 32 above, Should any employee of the Supplier be determined to have engaged in corrupt, fraudulent, collusive, coercive or obstructive practice during the purchase of the Goods, then that employee shall be removed.**

## **SECTION IV**

### **SPECIAL CONDITIONS OF CONTRACT**

**SECTION IV: SPECIAL CONDITIONS OF CONTRACT  
TABLE OF CLAUSES**

(The corresponding Clause number of the General Conditions is in parentheses)

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## **SPECIAL CONDITIONS OF CONTRACT**

The following Special Conditions of Contract shall supplement the General Conditions of Contract and instructions to bidder hence these clauses should be followed in addition to clauses in ITB and GCC. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of contract.

### **1. Uptime Guarantee:**

#### **UP-TIME BALANCE:**

The Supplier (s) shall provide guarantee 95% uptime during comprehensive warranty period i.e. for 2 years from the date of installation & commissioning. Any uptime less than the specified period above will be compensated by the Supplier(s) by extending the warranty period. The consignee shall maintain a logbook in the format provided by the Supplier(s) which will indicate usage of the equipment every day and for calculation of up-time.

#### **DOWNTIME PENALTY CLAUSE:**

1. During the Guarantee / warranty period, desired uptime of 95% of 365 days will be ensured (24 hour) if downtime exceeds 5%, penalty in the form of extended warranty, double the number of days for which the equipment goes out of service will be applied. The vendor must undertake to supply all spares for optimal upkeep of the equipment during the warranty period of THREE YEARS and during the CMC period of FIVE YEARS. In no case equipment should remain in non-working condition for more than 7 (seven) days from the date of complaint, beyond which a penalty will be applicable as per Rule.
2. The principals or their agents are required to submit a certificate that they have satisfactory service arrangements and fully trained staff available to support the uptime guarantee.

### **2. Performance Security (ITB Clause no. 6)**

1. 50% of value of Performance security will be discharged by the Purchaser and returned to the supplier not later than 60 days, following the date of completion of the supplier's performance obligation including any warranty obligations. The Balance 50% value of the performance security will be released after entering into a comprehensive maintenance contract after the warranty period and on payment of



required performance security for the CMC contract. However in no case, the performance security will be returned before the date of completion of the warranty obligation.

2. Performance security for Maintenance contract: After successful completion of warranty period of 3 years, the supplier shall furnish performance security for 5% of the comprehensive AMC applicable for 5 years maintenance period valid for 5 years period of maintenance. Performance security may be furnished in form of an Account payee Demand Draft, the amount will be returned to the supplier promptly after satisfactory completion of contract period.

### 3. [Inspection and Tests \(GCC Clause no. 6\)](#)

The following inspection procedures and tests are required by the Purchaser;

1. The supplier shall get each equipments as per the scope of work mention in tender will inspected in manufacturer's works and submit a test certificate and also guarantee/warranty certificate that the equipment conforms to laid down specifications.
2. The Purchaser or its representative may inspect and/or test any or all the equipments and other scope of work to confirm their conformity to the Contract specifications, prior to dispatch from the manufacturer's premises. Such inspection and clearance will not prejudice the right of the consignee to inspect and test the equipment on receipt at destination.
3. For the equipment, if fails to meet the laid down specifications the supplier shall take immediate steps to remedy the deficiency or replace the defective equipment to the satisfaction of the Purchaser.

### 4. [Delivery and Documents \(GCC Clause 8\)](#)

For equipments costing more than Rs. 5 lakh /per unit the supplier must submit all qualification documents (DQ,IQ,OQ,PQ) to be carried out during installation and commissioning.

### 5. [Insurance \(GCC Clause 12\)](#)

For delivery of goods at site, the insurance shall be obtained by the Supplier in an

amount equal to 110% of the value of the goods from “Warehouse to Warehouse” (Final destinations) on “All Risks” basis including War Risks and Strike.

**6. Incidental Service (GCC Clause 10)**

The following services covered under Clause 10 shall be furnished and the cost shall be included in the contract price:

- (a) Unloading, safe storage and handling of consignment of site.
- (b) On site assembly if any of the supplied goods, installation, testing and commissioning of the equipment.
- (c) Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods;

**7. Spare parts (GCC Clause 11)**

1. Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods. Other main spare parts and components shall be supplied as promptly as possible but in any case within 15 days of placement of order.

2. The spare price list of all spares and accessories (including minor) required for maintenance and repairs in future after guarantee / warrantee period should be attached / enclosed along with the sealed quotation. The tenderer are required to furnish the list of spares along with their cost in the financial Bid separately which will not be taken for evaluation.

**8. Warranty (ITB clause no. 7, GCC Clause 14)**

The Supplier shall, in addition, comply with the performance and/ or consumption guarantees specified under the contract. If for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall at its discretion either: make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests in accordance with SCC 3.

**9. Payment (GCC Clause 15)**

1. If there is a delay in installation of the equipment due to reasons not attributable to the supplier such as non readiness of site, 50% of the supply value will be released against supply and provisional stock entry certificate from the Purchaser

2. If there is no situation such as non availability of site etc., and installation is taken up by the supplier immediately after supply, 50% of the supply value will be paid against supply and certificate for receipt of the item in good condition and a stock entry certificate, from the Purchaser.
- 3 The final 20% will be paid after receipt of Equipment performance certificate after 90 days (of above point) issued the end user to Purchaser.
4. For items ordered in bulk quantities, the first payment will be released only after supply / installation of at least 20% of the ordered quantity or Rs.25.00 lakhs whichever is less.
5. Payment will be made either by means of Cheque or through RTGS (Real Time Gross Settlement System) / Core Banking / NEFT (Net Electronic Fund Transfer) by Purchaser

#### 10. Liquidated Damages (GCC Clause 22)

##### For delays:

1. The Purchaser-Chief Medical & Health Officer, NCD-NPCDCS PROGRAMME after concern/approval with NCD Purchase committee may allow extension for a maximum period of 8 (Eights ) weeks (56 days), after the stipulated date of supply /Commsioning of CCU (i.e. 120 plus 56 days) with a penalty of 0.5% which will be deducted from the purchase order value as “Liquidated Damage”, for each week (7 days) upto a maximum 5 % on the value of the Contract for Completed scope of work as per work certified by the purchaser authority.
2. If the supplier fails to complete the supply within the extended period, i.e. 56 days after being allowed by the PURCHASER no further purchase order will be placed to the firm for the said item and the concerned firm will be blacklisted for two (2) years from the date of issue of letter for the said item.
3. In case any equipment remains in non-working condition for more than 7 (seven) days from the date of complaint, penalty of 0.5% of the security deposit per day will be charged.
4. If the successful bidder fails to complete the supply / work within extended time fixed (56 days )under the contract, he further shall pay to the Purchaser without prejudice to any other rights or remedy as may be available to the purchaser, an agreed compensation amount calculated @ ¼ % of the total value of the uncompleted portion of the work per week or part thereof subject to a maximum value equal to the value of the Performance Bank Guarantee.
- 5 The amount of compensation for delay and waiver of compensation for delay in case of

justified reasons shall be decided at the discretion of Accepting Authority and the same shall be final and binding on the bidder. Time taken by Purchaser and local statutory authorities for approval of drawings, design, estimate etc., force majeure reasons and any other reasons beyond control of the bidder shall be considered as justified reasons. The amount of compensation may be adjusted or set off against any sum payable to the bidder under this or any other contract with Purchaser.

6 Appeal for waiver of compensation for delay with due justification shall be decided by the Chairman, District Health Society on recommendation of Chairman of NCD Purchase committee. The decision of the competent authority (the Chairman-District Health Society) on appeal shall be final and binding on the Bidder.

#### 11. Resolution of Disputes (GCC Clause 27)

In case of any conflict regarding disqualification of technical bid/awarding of contract/other issues for any equipment and a claim is made in the court of Law, then scope of such claim will be restricted to that equipment only. For any court cases, each item in the schedule of requirement will be considered as individual tenders. In the case of a dispute or difference arising between the **Purchaser** and a Supplier relating to any matter arising out of or connected with this agreement, such dispute or difference shall be settled in accordance with the Arbitration and Conciliation Act 1996 the Arbitral Tribunal shall consist of 3 Arbitrator, one each to be nominated by the **Purchaser** and the supplier. The third Arbitrator shall be chosen by the two Arbitrators so appointed by the parties and shall act as Presiding Arbitrator. In case of failure of the two Arbitrator appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the Arbitrator appointed subsequently, the Presiding Arbitrator shall be appointed by the President of Institute of Engineers (India). The venue of arbitration shall be Raipur, Chhattisgarh.

#### 12. Notices (clause 30)

For the purpose of all notices, the following shall be the address of the **Purchaser** and Supplier.

**Purchaser:**

**CHIEF MEDICAL AND HEALTH OFFICER. NCD -NPCDCS PROGRAMME**

1st Floor, D.K.S. Bhavan, Old Nurses Hostel, Raipur – 495001(C..G )

Phone: 0771-2535304

email: ncdcellraipurcg@gmail.com

**Supplier:** To be filled during contract signing

### 13. Comprehensive Maintenance Contract (CMC):

1. The Supplier shall indicate clearly the free guarantee maintenance of the whole system supplied by the Supplier and the same should not be less than 3 years.
2. The Supplier shall also indicate separately post guarantee maintenance cost of the entire system for 3 years subsequent to free maintenance period and shall clearly indicate year wise maintenance cost which should include cost of spares required for each year, in addition to comprehensive maintenance charges.
3. The scope of comprehensive Annual Maintenance Contract shall include replacement of all parts without any exclusion. The supplier shall undertake Preventive Maintenance Service on half yearly basis and attend to all break-down maintenance calls. The payment for the comprehensive maintenance will be made at the end of June and December of each year against certification from the end user for satisfactory completion of Preventive Maintenance and attending the breakdown calls within the stipulated period of 7 days from the date of intimation.

### 14. Rate Contract:

The tender is also a 'Rate Contract'. The bidders are expected to quote their best rates for the equipments. The rates quoted by the bidder shall remain valid for one year from the date of signing of contract( Must and mandatory for such validation ) and the bidder will have the option to extend the period of price firmness for a further period of upto six months, during which CMHO-NCD – NPCDCSPROGRAMME or any of the user Institutions under the Government of Chhattisgarh, may place order for the supply and installation of same equipments procured under this tender. If the tender inviting authority/user institutions choose to place the orders for supply, installation and commissioning, the successful bidder is bound to supply the same make/model of the equipment at the same rate and same terms and conditions of this tender to such agencies/institutions, placing the repeat order. The rate contractors can withdraw at any point of time, after the minimum price firmness period of six months, but not after accepting the Letter of Intent or entering into Agreement with CMHO-NCD – NPCDCSPROGRAMME or any other user Institution under the Government for the Quantity for which it has entered into Agreement with CMHO-NCD –

NPCDCSPROGRAMME /User Institutions during the minimum price firmness period. CMHO-NCD-NPCDCS PROGRAMME. i.e the Purchaser /User Institutions can also withdraw from rate at any point of time after minimum price firmness periods of six months, but not after entering into Agreement with the rate contractor for the Quantity for which the Contract is already signed by both parties.

#### 15 **Contractual Formalities and Obligations.**

a) To define contractual agreement as per agreed Signed Legal Agreement between Bidder and Purchaser, an MoU shall be put in place which shall be a binding on both the award winning Bidder and Purchase for the smooth and efficient functioning of this turnkey Project of Cardiac Care Unit at District Hospital ,Raipur and shall primarily comprise of terms and conditions as laid down in the tender document. The formal draft of MoU shall be worked out between Purchaser and the winning bidder post award of the purchase order but shall be in place prior to any payment to the bid winning Bidder.

b) To maintain this facility and to achieve desired level of service, it is desired that the Bidder shall appoint, one qualified manpower (approved by Purchaser 5) for the entire duration of the contract, there shall be no financial bearing on Purchaser towards this manpower. This staff shall maintain the records of any complaints (As per scope of work) in the site and shall resolve complaints to avoid penalties, as built in the terms and conditions.

#### 16. CHECK LIST:

Bidder should provide the following documents specified provided in tender website.

##### **Documents to be Provided in Cover A**

1. Description of the bidder : Not more than 1 page
2. Documentary evidence of constitution of firm.
3. List of items for which bid is quoted
- 4, Copy of RTGS Receipt or Demand Draft for submission of tender processing fee.
4. Copy of RTGS Receipt or Demand Draft for submission EMD / Copy of exemption certificate.
5. Acceptance of all terms & conditions in all Sections of Tender document.  
(Declaration as per Annex – III )
6. Valid manufacturing license / import license/ Dealership license (Importers and dealers should also submit the copy of valid manufacturing license of the firm to which the product belongs)

7. Manufactures authorization and power of attorney to transact business on behalf of the manufacture ( For dealers/Distributors)
8. Copy of ISO certificate.
9. Performance certificate Annexure
10. Sales Tax, Vat tax clearance certificate.
11. Copy of PAN card of the Firm
12. Annual turnover statement
13. Non- Conviction Affidavit
- 14. Other documents for establishing eligibility of bidder.\***
15. Make and model of the equipment , furniture's and interiors as per Scope of Work.
16. Non – Blacklisted Affidavit for the product ( Annex – VII)
17. Copy of IEC – 60601/ IS 13450 Certificate (Mandatory for electronic medical equipments)
18. ISI/BIS/CE/US-FDA Certificates or any other Quality assurance Certificates for product quoted
19. Radiation Safety Related Certificates / documents where required
20. Colour Leaflet/Brouchure/Literature/Manual/presentation with operating manual for quoted product
21. Product specification in specified column of Annex – IX
22. Undertaking for supply of spare part and service for 10 year after award of contract.
23. Details name, address, telephone no., Fax, e-mail of the manufacturer /authorized distributor / service centre / contract person / office in Chhattisgarh.
24. Other documents for establishing product information.\*

**Documents to be provided in Cover B**

1. List of items for which bid is quoted with price (UCP) (*to be filled Manually*)
2. Ultimate cost to the purchaser with break up i.e.: Price Schedule. (*to be filled manually*)
3. Item wise cost for CMC after warranty period. (*to be filled manually*)
4. The spare price list of all spares and accessories (including minor) required for maintenance and repairs. (*to be manually*) This will be only for information of the purchaser.

***Note: Please note that the Bidder run the risk of his bid being rejected if the Price Schedule contains any conditions.***

## **The schedule of major activities in this regard is as under:-**

- **About the Project:**

Districts covered under NPCDCS are being provided assistance to create and maintain facilities and services for patients suffering from cancer, diabetes, cardiovascular diseases and Stroke. As a result, this cardiac care unit is being set-up at the Raipur district under the guidance of NPCDCS.

### **Scope of the project**

The CCU is proposed to be setup at the District Hospital Raipur. The bidder shall be provided with a room to carry out the interior work of the CCU as per the modern CCU standards and supply and install the CCU equipment and furniture as mentioned in this document. **All the three components should be executed by a single bidder and no partial bids will be entertained.** The government will get the necessary civil done as per the selected bidder's proposed solution. Brief scope of work –

- i) CCU Interior and electrical work of the CCU room**
- ii) Medical Gas Pipeline System**
- iii) CCU Equipment**
- iv) CCU Furniture**
- v) CCU related training simulation setup**

#### **A. From above scope, following scope of work will be termed as medical equipments**

- 1. Medical gas pipe line system
- 2. CCU biomedical equipments
- 3. CCU patients furniture

#### **B. Following scope of work will be termed as non medical equipments**

- 1. CCU interior work and electrical work of the CCU room
- 2. CCU related training simulation set up

#### **C. Scope of work for non medical cal as well as medical equipment**

As per the specification mentioned assisting & preparing drawing is applicable to all above services

- i. Drawings showing desired location of electrical fixtures.
- ii. Drawings showing desired location of plumbing fixtures
- iii. Drawings showing desired location of air conditioning & total HVAC system fixtures.



- iv. Drawing showing fire protections devices like water sprinklers & smoke detectors
  - v. Drawings showing desired location of building related medical fixtures
  - vi. Drawings showing desired location of computer points
  - vii. Drawings showing desired location of telephone points
  - viii. Drawings for electrical layout, plumbing layout, air conditioning, computer LAN, telecom wiring, cabling for CC TV cameras and PA systems
  - ix. Preliminary design of MEP/other systems including building thermal load calculations, selection of system concepts and establishment of building and electrical interfaces
  - x. Preparing BOQ for medical and non-medical equipments with their technical specifications, tender documents, and evaluation of tender proposals (design and tender stage)
  - xi. Preparing BOQ for interiors including electrical, HVAC, MEP with their technical specifications, tender documents, and evaluation of tender proposals (design and tender stage)
  - xii. Supervising on administration and coordination of the MEP/other works during the construction stage
  - xiii. Coordinate the MEP work on site with the activities of inspection agencies through installation, testing, commissioning, handover and acceptance phases.
  - xiv. Supervision on review equipment schedule and procurement process
- iii. Drawings showing desired location of air conditioning & total HVAC system fixtures.
  - iv. Drawing showing fire protections devices like water sprinklers & smoke detectors
  - v. Drawings showing desired location of building related medical fixtures
  - vi. Drawings showing desired location of computer points
  - vii. Drawings showing desired location of telephone points
  - viii. Drawings for electrical layout, plumbing layout, air conditioning, computer LAN, telecom wiring, cabling for CC TV cameras and PA systems
  - ix. Preliminary design of MEP/other systems including building thermal load calculations, selection of system concepts and establishment of building and electrical interfaces
  - x. Preparing BOQ for medical and non-medical equipments with their technical specifications, tender documents, and evaluation of tender proposals (design and tender stage)
  - xi. Preparing BOQ for interiors including electrical, HVAC, MEP with their technical specifications, tender documents, and evaluation of tender proposals (design and tender stage)
  - xii. Supervising on administration and coordination of the MEP/other works during the construction stage
  - xiii. Coordinate the MEP work on site with the activities of inspection agencies through installation, testing, commissioning, handover and acceptance phases.

xiv. Supervision on review equipment schedule and procurement process

- A) CCU Interior work** – The bidder shall i) design the interior of the CCU, ii) procure necessary material and iii) complete the construction activity iv) complete electrical work required for commissioning of the CCU
- a) The bidder shall in their technical bid submit the detailed drawings, designs, bill of materials for their proposed CCU interior work. (Form T-5)
  - b) An indicative framework for the CCU interior works has been provided in the tender document with the minimum specifications. The bidder should propose minimum of these specifications and works.
  - c) The drawings, designs and the entire interiors solution proposed by the bidder shall be evaluated as part of the technical bid.
  - d) The government is in the process of completing the civil work of the proposed CCU room. A drawing of the CCU room being constructed can be obtained from office of the Chief Medical & Health Officer (CMHO), FOR NCD-NPCDCS PROGRAMME, Chhattisgarh, RAIPUR CG. The bidder should study the layout and drawings of the proposed CCU room and propose solutions for the interior work accordingly. **The bidder should also physically inspect the CCU space to get a better understanding (This condition is mandatory)**. Any solution of CCU interiors which is not according to the room layout shall be rejected and the bid shall be – technically disqualified. Any additional work required at the CCU site to meet the requirements of the interiors solution of the bidder, shall be carried out by the bidder himself.
  - e) Minimum standards of the CCU interiors (Form T-6) - Following codes and standards must be taken into account while proposing the CCU solution –

#### STANDERD & CODES

The design, standards, & codes, selection of equipment and item, furniture and fixture, Medical gas pipe line & equipment, lighting and A.C, flooring and walls and other works are as per ICS (Intensive care society) 1997 / National Building Code/NABH/HTM

ICU Design Guidelines

1. American Institute of Architects Committee on Architecture for Health and the U.S.

Department of Health and Human Services —

Guidelines for Construction and Equipment/Hospital and Medical Facilities. AIA Press, I 996.

2. American College of Critical Care Medicine's Taskforce on Guidelines: Guidelines for Intensive Care Unit Design. SCCM and AACN. 1993.

3. Joint Commission on Accreditation of Healthcare Organizations: The Joint commission Accreditation Manual for Hospitals. JCAHO. Chicago.

#### DETAIL OF STANDARDS AND CODES

##### GENERAL:-

- Standards for Intensive Care Units. Intensive Care Society. 1984
- Guidelines on Admission to and Discharge from Intensive Care and High
- Dependency Units. Department of Health. March 1996
- Guidelines for utilization of intensive care units. European Society of Intensive
- Care Task Force. Intensive Care Medicine. 1994; 20: 163-164
- Recommendations on minimal requirements for Intensive Care Departments.
- Recommendations for critical care unit design. Task Force on Guidelines.

##### ELECTRICAL SYSTEMS:-

Health Technical Memorandum (HTM) 2011, Emergency electrical services.

NOTE: There are 4 parts to HTM 2011:

- i) Design considerations
- ii) Management policy
- iii) Operational management
- iv) Validation and verification BS 5742 (Parts 1 and 2).

f) The bidder shall perform the following indicative activities (but not limited to) –

- i) Painting and filling of all CCU joints
- ii) Gypsum prefabricate ceiling
- iii) Anti-Static homogenous flooring
- iv) PUR Wall Covering
- v) Curtain Partitioning
- vi) Providing modular turnkey bed head panel

## ANNEXURE -II Technical Specification

### g) Schedule of minimum requirements for the CCU interiors work

S.No.	Item	Quantity	Specification
1	Painting and filling of CCU Joints	As per requirement	Jointless Coatings: Filling of joints & cavities with wall body filler and sanded flush to provide a seamless finish & round corners including one coat of primer and three coats of antibacterial & antifungal paint equivalent to a minimum dry film thickness of 300 microns.
2	Calcium Silicate false ceiling	As per requirement	<p>10 mm Calcium Silicate false ceiling. Providing and fixing of 10mm thick calcium silicate board of approved sizes fixed through GI frame work to the ceiling. Calcium silicate board screw fixed under side of GI frame work and finished with seam less joints. Grid of GI frame work should be unexposed. The cut-out for appropriate light and Air conditioning requirement shall be provided to the requisite fitting. Joints between the two silicate boards should be seamless / joint less. All the fittings should be flushed with the ceiling.</p> <p>Jointing and finishing:</p> <p>The joints of the face boards should be finished with specially formulated jointing compound and 48 mm wide fibre tape to provide seamless finish and painted in antimicrobial paint of approved colour shade.</p> <p>The material of calcium silicate shall</p>

			<p>have following characteristics:</p> <ol style="list-style-type: none"> <li>1. Lightweight with densified edges, to give high edge</li> <li>2. 100% RH Humidity resistance which eliminates. Sagging of the product in high humidity. Environments and do not lose their physical. Integrity even in the case of condensation from air conditioning ducts.</li> <li>3. Incombustible as per BS476 Part-IV thus providing Outstanding fire safety features.</li> <li>4. Outstanding thermal insulation properties resulting Lower air conditioning running cost.</li> <li>5. The excellent Light reflectance helps to minimize lighting operating expenses.</li> <li>6. Being made from inorganic materials Aerolite Ceilings are immune to termite attack.</li> <li>7. Range of acoustic properties to provide the desired Acoustic control for various applications</li> <li>8. Eco-friendly, Bio-safe, and Non-hazardous to Human health.</li> </ol>
3	Anti-static homogenous flooring	As per requirement	<p>A floor screed should be provided, flat to within a tolerance of +/- 3mm over any 3 metre area. Onto this sub-floor, a self –leveling compound should be laid prior to lying of the floor finish. The floor finish in the room should be 2mm antistatic homogenous vinyl tiles/roll, laid on a semi-conductive adhesive base &amp;a concealed cove former and continuing up the wall for 100mm. All</p>

			<p>joints should be welded with electrodes of the same compatible material to provide a continuous sealed surface. The floor will be as per DIN 51953 ATM F-150 or NFPA 99, B1 class of fire resistance and should meet UL standard 779. Fulfils product requirements as per EN 649.Homogenous Vinyl Flooring 2mm thick, installed with PVC coving and thermal welded seamless with Thermal welding cord of same matching colour..</p>
4	PUR Wall Covering	As per requirement	<p>Providing and fixing vinyl wall cover (MEPLON) of 1mm thick 100% recycled PVC flexible, homogeneous antistatic calendared compacted combination with PUR Protect surface treatment having wear resistance of <math>\leq 4.0\text{mm}^3</math> as per EN 660.2 and wear group Group P as per EN-649 and should have a residual indentation of <math>&lt;0.03\text{mm}</math> confirming to EN-433. The laid flooring should have non-directional design, color dyed as a raw mixture to ensure even color throughout the thickness and its surface should be densely compacted for improving wear and ease of maintenance. Anti-bacterial and Fungicidal properties. ( Height 8'-6")</p>
5	Curtain partition	As per requirement	<p>Aluminium powder coated Track duly powder coated with stainfree washable curtain with net. Curtain Partition at different beds of Curtain Track 15' long of aluminium</p>

			<p>alloys</p> <p>End caps 2 nos</p> <p>Supporting brackets 3 to 5 Nos</p> <p>Roller 24 to 32 nos</p> <p>Rings 24 to 32nos</p> <p>Curtain 3 to 4 pcs nos</p> <p>Ceiling support 3 to 5 nos</p>
6	Modular turnkey bed head panel	As per requirement	<p>The modular medical turn-key system/bed head panel should be fabricated of aluminous die pressed in such a way to provide 100% safe and efficient means to deliver all the three gases as well as electrical to the patient/staff in intensive care conditions. To enclosed all piping, electrical wires, monitor wire etc it should be fitted continuously on wall</p> <p>The design of modular should consist of aluminium section to meet the requirement of HTM 2002, NFPA and other international standard.</p> <p>It should have separate duct for medical gases as well as electrical. There should be no sharp edges having smooth finish and without any visible screws etc. It should be have ability fix medical gas outlets, electrical sockets, multi-channel music system, nurse's call bell, IV fluid's saline and space for placement of monitors. It should also have color code around the specific gas outlet and a slide rail for focus lamp. It should be polyester powder coating finish on all external surfaces and should be fitted with wall with the help</p>

			<p>of 8mm fasters at specific distance.</p> <p>It should be fixed in such a manner that it could be remove easily for servicing and repair. It should be long and continuous to fix for any distance.</p> <p><b>Provision for accessories per bed:</b></p> <p>-</p> <table> <tr> <td>Oxygen outlet</td> <td>2</td> </tr> <tr> <td>Vacuum outlet</td> <td>2</td> </tr> <tr> <td>Compressed air outlet</td> <td>1</td> </tr> <tr> <td>Monitor stand</td> <td>1</td> </tr> <tr> <td>Bracket for vacuum jar</td> <td>1</td> </tr> <tr> <td>Focus light</td> <td>1</td> </tr> <tr> <td>15 Amp socket</td> <td>1</td> </tr> <tr> <td>5 Amp socket</td> <td>3</td> </tr> <tr> <td>IV saline</td> <td>1</td> </tr> <tr> <td>Colour bins</td> <td>3</td> </tr> </table>	Oxygen outlet	2	Vacuum outlet	2	Compressed air outlet	1	Monitor stand	1	Bracket for vacuum jar	1	Focus light	1	15 Amp socket	1	5 Amp socket	3	IV saline	1	Colour bins	3
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Colour bins	3																						

## B) Scope of Work Medical Gas Pipeline System

S.No.	Item	Quantity	Specification
1	Oxygen Base Unit	1	<p><b>A) Oxygen Manifold 2+2</b></p> <p>The oxygen manifold should be of the size of bulk oxygen cylinders. It should be suitable to with stand a pressure of 2400 PSI.</p> <p>The main frame would be made out of 50 X 50 X 6 mm angle iron and bottom frame of 20 X 20 mm ms square installed in such a way that the cylinders must be stage for use in upright position and should not fell down under any circumstances.</p> <p>The gases passed through inter-connecting tail pipes duly fitted with suitable bull nose and nut adopter for cylinder valve and tube size is 10 mm OD Copper tube duly annealed having wall thickness 1.5 mm in spiral shape and the other end of the tail pipe are fixed with non-return valve.</p> <p>The non-return valve should be fixed in brass block of size 25 mm square vertically which are fitted with high</p>



pressure copper tube of size 15mm OD having wall thickness 1.5 mm. Both the arms of manifold further fixed in automatic control panel.

All the joints of copper tube, brass block, and inter connecting tubes should be welded with silver brazing. Pressure release safety valve also provided. The manifold is fabricated in such a way to give distribution flow of 1500 ltrs per minute. The manifold would be degreased and purged with inert gas before commissioning.

The manifold would be enamel painted as per color code. All above work would be done strictly as per specification and entire satisfaction of engineer in-charge.

**(B) Oxygen Emergency Point CE Marked:**

SPECIFICATION:- In case of emergency, the supply of medical oxygen is restored immediately with this system. The emergency system would consist of 3 no. Cylinders - configuration This would be suitable withstand a pressure of 2400psi. This would be inter connected with high pressure, high flow, double stage control regulator duly fitted with cylinder contents as well as line pressure gauges of 50mm dial size.

Pressure release Safety valve should also be provided in this system, so that it would release the pressure beyond 70psi. The outlet point of pressure regulator would be connected with emergency point of oxygen pipeline with the help of inter-connecting adapters.

This equipment would also be colored as per color code and all the material used in this system would be as per specification.

OXYGEN CONTROL PANEL CE Marked

**FEATURES**

- Electric audio- visual indicators for each bank status.
- Electrically audio-visual indicators at the time of

changeover.

- Impact and weather resistance colored cover.
- Independent gauges and indicators.
- Automatic change over from on line bank to reserve bank and vice versa.
- In built low-pressure audio-visual alarm.

#### SPECIFICATION OF PRESSURE SETTING OF CONTROL PANNEL

Main regulators : 10.2 bar

Line regulator : 4.7 bar

Pressure release Valve : 5.3 bar(rising)

Header Pressure switches : 14 bar (falling)

Low pressure switch : 3.7 bar (falling)

Changeover pressure : 14 bar

High Pressure Switch : 5 bar (rising)

#### (C). SEMI-AUTOMATIC OXYGEN CONTROL PANEL CE Marked

##### SPECIFICATION & FEATURES

- Electric audio- visual indicators for each bank status.
- Electrically audio-visual indicators at the time of changeover.
- Impact and weather resistance colored cover.
- Independent gauges and indicators.
- Automatic change over from on line bank to reserve bank and vice versa.
- In built low-pressure audio-visual alarm.

The control panel would be supplied as a pre-tested and pr-sated self-contained unit

The control panel is installed in the middle of both arms of manifold and fabricated in such a way that it would withstand of working pressure 2400psi and test pressure would be 3500psi.

It would also supply a flow of 1500 ltrs. Per minute at a pressure of 4 bar (60psi) constantly on either bank.

			<ul style="list-style-type: none"> <li>• SPECIFICATION OF PRESSURE SETTING OF CONTROL PANNEL</li> </ul> <p>Main regulators : 10.2 bar</p> <p>Line regulator : 4.7 bar</p> <p>Pressure release Valve : 5.3 bar(rising)</p> <p>Header Pressure switches : 14 bar (falling)</p> <p>Low pressure switch : 3.7 bar (falling)</p> <p>Changeover pressure : 14 bar</p> <p>High Pressure Switch : 5 bar (rising)</p>
2)	Medical Compressed Air Base Unit	1	<p>The compressed air system are installed by installation of 02 number air-cooled, Splash lubricated and skid mounted screw type compressor. Capacity to produce 30 CFM (900 liters approximately) free air delivery at maximum pressure of 120 PSI.</p> <p>It would be fitted with 10 hp capacity induction electric motor of class F insulation</p> <p>The compressor would be installxed duly fitted with suction filters, after coolers with moisture separator, auto drain trap.</p> <p>The moisture separator and after coolers duly fitted with electrically operated auto drain traps will also be provided before air receiver.</p> <p>This system would also have one number horizontal MS air receiver as per IS 226 with construction code IS 2825 of 1000 ltr WC duly fitted with safety valves, drain valves, pressure gauges etc.</p> <p>An automatic twin chamber heatless air drier would also be installed to dry 30 CFM compressed air at 120-psi pressure at a temperature of 0-40 degree centigrade. Outlet dew point temperature would be -40 degree centigrade. The dryer would be automatic duly fitted with pneumatic operated valve, set of filters, pre-filter, oil filter</p>

and duly fitted with pressure gauges for test the filter's condition.

This system would also be fitted with bypass airline, safety valve for pressure release and pressure indicators.

#### TECHNICAL SPECIFICATION OF THE SYSTEM

##### AIR COMPRESSOR: (1 nos)

1.Type	Screw
2.Lubrication	Splash Lubricated
3.Air delivery	30 CFM
4.Working Pressure	60 psi
5.Higher discharge	120-psi
6.Driver	Electrical motor
7.Performance test	As per IS 5456
8.Stages	1/2
9.Mounting	Skid (In case skid mounted, single receiver would be provided)
10.Cooling	Air cooling
11.Compressor speed	2880 RPM

##### ELECTRIC MOTOR:

1.Capacity	5 hp
2.Round per minute	1440
3.Volts	415
4.Phase	3
5.Electric supply	50 Hz.
6.Performance test	As per IS 325
7.Starter	Direct on line
8.Insulation	Class F

##### Air Receiver:

1.Construction	IS2825
2.Capacity	1000(single) ltrs
3.Foundation	Skid
4. Blast cap.	300psi
5. Fittings	Pressure gauge Safety valve, Drain trap, Inspection window

			<p>Air Drier:</p> <p>*INLET CONDITIONS</p> <ol style="list-style-type: none"> <li>1. Flow Rate                30cfm</li> <li>2. Pressure                60psi</li> <li>3. Temperature            40 °c Max</li> <li>4. Moisture Contents    100%rh'</li> </ol> <p>*OUTLET CONDITIONS</p> <ol style="list-style-type: none"> <li>1. Flow Rate                58cfm</li> <li>2. Outlet Pressure        95psi</li> <li>3. Temp.                    Ambient</li> <li>4. Dew Point               -40</li> <li>5. Drying Cycle            2-5 minutes</li> <li>6. Elec. Supply            230v/ac/50hz</li> <li>7. Foundation             Skid</li> <li>8. Cycle Control          Fully Automatic</li> </ol>
3)	Medical Vacuum Base Unit	1	<p>The vacuum system would be installed by providing 1 nos. vacuum pumps of reputed make of single stage. These pumps should stationary, air-cooled; splash lubricated, base plate mounted reciprocating type.</p> <p>These pumps should be fitted on base plate and belts would be guarded. The bidder should also provide 1 no. Scrubber tank of suitable water capacity as per IS 225 and construction code as per IS 2825 with all its accessories like vacuum gauge, drain valve, inspection window etc.</p> <p>The bidder will provide interconnection copper piping of size 12mm O.D to 28mm OD with BSP vertical non return valve of required size with vacuum gauge of required size of bottom connection with silencer and vacuums filters and all other work to complete the vacuum system and as per the entire satisfaction of Hospitals authority. The capacity of the pump would be about 45 cfm per minute vacuum at 684mm (HB).</p> <p>TECHNICAL SPECIFICATION OF THE SYSTEM</p>

VACCUM PUMP: (1 NOS.)

- 1. No. Of Cylinders 2/3
- 2. Lubrication Splash
- 3. Vacuum/ Suction 30 cfm
- 4. Vacuum 684mm (HB)(MAX.)
- 5. Driver Electric Motor
- 6. Performance test International Standard
- 7. Stages 2
- 8. Mounting Skid mounted Vertical
- 9. Cooling Air-cooled
- 10. Vacuum speed 600 RPM

VACCUM RECEIVER:

- 1. Construction IS 2825
- 2. Capacity 750ltr (approx.)
- 3. Foundation Skid
- 4. Blast Cap. 300psi
- 5. Fittings Pressure Gauge ,Safety Valve ,  
Drain trap Inspection Window

ELECTRIC MOTOR:

- 1. Capacity 5 H.P
- 2. Rounds per minute 1440
- 3. Volts 415
- 4. Phase 3
- 5. Electric Supply 50 Hz.
- 6. Performance test International Standard
- 7. Starter Star Delta direct on line
- 8. Insulation Class F

4)	Electrical Control Panels	2	The central electrical control panel is provided with all its accessories and caballing etc. It have separate chamber for all the starters for electric motors separately. The entire tripping device for safety of compressor, vacuum pump, manifolds are provided. Voltmeters, amp. Meters, running hrs. Meter, on/off indicators for each installation/motor would be provided separately
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			<p>including main circuit breakers and area circuit breakers. It would be capable to handle the total load of 55 kw installations. It would meet out the requirement of international standard as well as Indian Standard. All the fitting used in this system would be of reputed make like Crompton, L&amp;T, and Siemens.</p> <p>The input volts would be 440/50Hz/3 phase and output 415 for motors and 240 for electrical. It would be off cascade type.</p>
5)	Copper Pipe	As per requirement	<p>Copper tube of soiled drawn seamless deoxidized, non-arsenical, half hard, tempered and degreased as per BS EN 13348:2001 duly supported with manufacturer test certificates for physical properties and chemical composition. ( However the company must get the pipe tested from thirdparty like Loyad/ SGS/TATA before supply and the certificate in this respect would be produced)</p> <p><b>Size: 12, 15, 22, 28 and 42 mm – quantity as per requirement</b></p>
6)	Gas terminal Box	As per requirement	<p>Terminal Units (Gas Outlets) with adaptors/probe for oxygen, compressed air and vacuum: Matching adaptors to the gas outlet mentioned above i.e. adaptor for oxygen, air and vacuum. The terminal units would have following features.</p> <p>a. It would be front insertion type with parking facility.</p> <p>b. Terminal unit would have double locking mechanism with check valve.</p> <p>C. Allow single hand operation.</p> <p>D. On first insertion of probe the probe shall sit in a standby position. At the stage there shall be no gas flow.</p> <p>E. Only on pressing the probe second time, the gas supply would start.</p> <p>F. They would close automatically when connected apparatus is removed.</p> <p>G. For allowing on line maintenance the terminal unit would be equipped with a check valve for all positive</p>

			<p>pressure gases for closing gas supply whenever the outlet point is opened.</p> <p>H. The outlet would be non-interchangeable for specific gas and it would accept only correct medical gas adopter/Probe.</p> <p>I. It would be color coded as per HTM 2022</p> <p>J. The design of this outlet would be compatible to installed vertical on valve horizontally on ICCU panel and area servicing unit and also vertical to fit in pendants.</p> <p>K. It would also supply with correct probe/ adopter</p> <p><b>For</b> Oxygen, Nitrous Oxide, Medical Air 4 bar, Vacuum – Quantity as per requirement</p>
7)	Oxygen Flow Meter	6	<p>would be BPC single type Pipeline Flow Meter unit duly fitted with the fine adjustment valve. It would be backpressure compensated to bear and control the Oxygen Pressure approx. 60psi. Flow meter unit would be consisting of double wall rotta-meter has range of flow 0 to 13 ltrs. per minute with fine adjustment valve. The rotta meter and humidifier bottle would be made of clear, impact resistance polycarbonate (duly graduated).</p> <p>This unit would be have attachment to fit humidifier bottle of capacity 100 MI. consist of clear, impact resistance polycarbonate jar. This would also have screw on top for flow meter/plastic cap having nozzles for outlet tubes and the inlet tube end would be multi function combination bubbler/ nebulizer to add the humidity and create an aerosol in Medical Gas min marks would be on jar. This unit would be supplied with PVC Clear green tube of 1.5mtrs. Long duly fitted with disposable Oxygen mask.</p>
8)	Vacuum Unit	6	<p>would be consisting of jar, vacuum, regulator duly fitted with vacuum gauge and emergency laver. The jar must have non-return valve and bracket for fixing and inter connecting tubing and patient tubing.</p>



			<p>The jar would be light and compact having 600ml capacity to collect reusable. It would be made out of clear impact resistance polycarbonate duly graduated fitted with non-return valve. The cover of jar would have bracket for fixing / easily removal for cleaning ness and male/ female adopter for regulator duly color-coded. It would bear the vacuum upto 750mm of mercury.</p> <p>The vacuum regulator would be fitted with vacuum gauge and it also shows flow rate. It would also have overflow safety trap. It would also have emergency on/ off leaver and fine adjustment valve for regulator.</p> <p>This system would be supplied with prefitted color coded gauge having dial size 50mm and vacuum 0 to 760 mm/hg and supplied with all the inter connecting tube with patient tube.</p> <p>Suction Jar Capacity : 1</p>
9)	Isolation Valves Assembly	As per requirement	<p>ISO 9001-2008</p> <p>SPECIFICATION:</p> <p>To control the pressure as well as for maintenance quarter turn open at 90-degree ball type valves would be provided. These valves would be of nickel-plated brass body having PTFE seat and inner outer seals. These valves would have stainless steel ball of specific ID clearance so that line pressure would not drop. For installation only PTFE gaskets would be used in between nuts and valve to prevent leakage.</p> <p>All the nuts for fixing the ball valve would be of brass with brass nozzles for easily brazing with copper tube. All ball valve assemblies would be on approachable height for easily operation. And enclosed in powder quoted visible box.</p> <p>TECHNICAL SPECIFICATION</p>

			<ol style="list-style-type: none"> <li>1. Leakage Clause : 1</li> <li>2. Temperature range : Ambient</li> <li>3. Working Pressure : 7.5 bar maximum</li> <li>4. Test pressure : 50 bar maximum</li> <li>5. Standard : As per HTM 2022</li> <li>6. Size : 15mm to 28 mm</li> </ol> <p><b>For</b></p> <p>2 gases, 3 gases and 4 gases – quantity as per requirement</p>
10)	Medical Gas Monitoring Alarm	As per requirement	<p>A Gas failure Alarm would be provided which must be capable of monitoring all the Medical Gases. This alarm would be of ELECTOMECHANICAL TECHNOLOGY,</p> <p>To detect the fault, pressure sensors, which detect deviation from the normal operating limits, would be installed. Each pressure Gas would displayed by colored LEGEND'S to show normal and 'Low' conditions.</p> <p>At the time of receiving the fault the normal window/ indicator stop indication and other window would blink and it also gives audio alarm. The alarm panel would have a test facility to check the internal circuits, mute facility for making silent the buzzer, acknowledgement facility for receiving the fault and reset facility for resetting the alarm after rectifying the fault.</p> <p><b>TECHNICAL SPECIFICATIONS</b></p> <ol style="list-style-type: none"> <li>1. NO/NC type Selectable DIP switches/ sensor.</li> <li>2. contacts Volt free</li> <li>3. Input voltage : 240 volt AC</li> <li>4. Input circuit : Optocoupled by using isolating Device</li> <li>5. Output Circuit : 12 volt DC.</li> <li>6. Contact rating : 1 Amp/240 volt AC.</li> <li>7. Window size : 26 mm/ indication lamps.</li> <li>8. Colour : Bright Red/ Yellow/ Green.</li> <li>9. Lead Life : More than 800 hrs.</li> </ol>

- |  |  |  |  |
|--|--|--|--|
|  |  |  | <p>10. Flash rate : 50 / Min.</p> <p>11. Power consumption : 1.5 Wt. Maximum</p> <p>12. Mounting : wall mounted</p> <p>13. Temperature limit : 60 oC</p> <p>14. Humidity Limit : 95 % RH</p> <p>15. Power supply : AC/240 Volt + 10%</p> |
|--|--|--|--|

**For**

**4 gases, 3 gases and 2 gases – Quantity as per requirement**

**C) Equipment supply and installation** – The bidder is required to supply, install and test the CCU equipment as mentioned in the schedule of requirements.

- a) The proposed equipment shall meet **all the specifications** as specified in this tender document. Any deviation from the proposed specifications shall result in rejection of the bids. The bidder shall also comply with the service support and warranty clauses as specified in this tender document.
- b) The bidder may be asked to demonstrate certain features as asked in specifications. In such cases the bidder has to arrange the demonstrations as may be asked for.
- c) **WARRANTY:** The bidder shall supply only new, unused goods without defect arising from material, workman ship or from any act or omission of the supplier that may develop under normal use of the supplied goods and shall provide comprehensive warranty for a period of three years or as specified in the Technical Specifications.
  - During the warranty period the bidder will be responsible for ensuring that the equipment is maintained in good working condition. Replacement of defective parts of the equipment or the equipment itself or rectification of defects is done promptly free of cost at the place where the equipment is installed without charging any kind of costs i.e service charge , mandays visit ,travelling, transportation, material etc.
  - . Complaints would be attended to by the supplier promptly.
  - The bidder will provide a list of its service centers who would be attending the after sale complaints along with complete address, concerned responsible persons and their phone numbers.

Minimum Guaranty/Warranty to be offered by the bidder of the quoted equipment/item shall be of at least 03 (Three) years from the date of installation of equipment/item. Any period more than 3 years of the warranty is appreciable.

- o All losses due to defects resulting from faulty design, materials and workmanship during the warranty period shall be compensated by the supplier.
- o In case of any defects detected in items under warranty, the users shall notify procurement authority about the same. Procurement authority shall promptly notify the supplier in writing for any claims arising from such defects. If the

defect is not rectified by the supplier within the specified time period, procurement authority shall take necessary actions to claim compensation at the supplier's expense.

**d) Schedule of requirement and specifications –**

S.No.	Item	Quantity
1	Multi-parameter Monitors	6
2	ICU Ventilator (Adult and Paediatrics )	2
3	Cardiac Monitor with Defibrillator	1
4	Infusion pump	2
5	Syringe Pump	6
6	Compressor	2
7	Suction machine	2
8	ECG machine computerized	1
9	ECG machine ordinary	1
10	Pulse Oximeter	2
11	B.P.apparatus table model	2
12	B.P.apparatus stand model	4
13	Stethoscope	2
14	Portable X-Ray Machine	1
15	Central Patient Monitoring Station	1
16	Intubation Kit, Laryngoscope	2
17	Portable Ultrasound Machine	1
18	Air Conditioning	As per Required
19	Generator Set	1

## Specifications

### 1) Multi-parameter monitor

1. Should have at least 13.1" TFT colour Touchscreen display.
2. Patient Type: Adult(A), pediatric (P), Neonates(N)
3. ECG,RESP,2 TEMP,SPO2,NIBP, 2 IBP, Side stream ETCO2,
4. Optional: Thermal Recorder facility
5. Micro stream ETCO2 OPTION should be modular and exchangeable between monitors.
6. Battery back-up min-120 minutes, Lead Acid Rechargeable Battery.
7. Single Knob operation.
8. Should have Minimum 6 waveforms, user selectable.
9. Should have User selectable color for waveforms.
10. Should have Drug dose -age calculation.
11. Review & Recall:
  - Should have NIBP recall function. It should recall at least 400 NIBP measurement data.
  - Should have alarm recall. Should have alarm recording time of at least 8.16, & 32 sec.
  - Trend recall of all the parameters.
  - Should have dynamic graphical trend. It should be able to display simultaneous with respective waveforms.
  - Should have Trend Table.
  - Should have Oxy CRG trends.
  - Should have at least 4 event marker
12. ECG Spec:
  - Should have ST sect analysis and arrhythmia analysis
  - Should have user selectable 5 & 3 lead Option
  - Should have Appropriate Physiological alarms related with ST and Arrhythmia
  - Should have Modes like Monitor, Operation/ surgical & Diagnostics
13. Respiration Spec:
  - Method: CO2/ Impedance
  - Range: 7-150 times / minute (Impedance method)
  - 7-120 times / minute (CO2 Method)

14. TEMP Spec:

- Double channel.
- Measure & alarm Range: 0.0-50 degree centigrade.
- Deviation:  $\pm 0.2$  degree centigrade.

15. NIBP Spec:

- Technology : Oscillometric
- Measurement Mode: Auto, Manual, STAT
- In Auto mode time interval should be upto 480 min.
- Measuring period in STAT Mode should be at least 5 min.

16. SPO2 Spec:

- Should be Digital Signal Processed SpO<sub>2</sub>. ( Digital SpO<sub>2</sub>).
- Measure Range: 0-100%
- low alarm range: 1-95%
- Accuracy:  $\pm 2\%$  when 70-100%;  $\pm 2\%$
- Pulse range: 0-254bpm, Deviation  $\pm 2$ bpm.

17. EtCO<sub>2</sub> Spec: Micro stream - 1 Module

- Measuring range: 0-13%

18. IBP Spec: 2Channel. 1- Module

- Should Have labels like ART, PA, CVP, RAP, LAP, ICP,P1, P2 etc
- Measure range:  
ART: 0-300 mmHg.  
PA: -6 – 120 mmHg  
CVP/RAP/LAP/ICP : -10- 40 mm Hg  
P1/P2: -10 – 300 mmHg

19. ETCO & IBP should be interchangeable between the 6 monitors

20. Wall mount Stand.

21. Should be CE approved product.

## **2) ICU Ventilator (Adult and Paediatrics)**

- ❖ ICU Ventilator with Adult – Infant capability. Ventilator should work on a non turbine based air source systems.

- ❖ The ventilator should be able to run on compressor as well as central Air line.  
Compressor out-put should shut off automatically when central air is connected and compressor should switch on automatically when central air fails.
- ❖ Should be Microprocessor based P-Sol Technology.
- ❖ It should have volumetric inbuilt capnography (ET Co<sub>2</sub>) based on Mainstream Technology.
- ❖ Tidal Volume range 5 – 2000 ml
- ❖ Resp Rate 1 – 150 bpm
- ❖ FiO<sub>2</sub> 21 – 100%
- ❖ I Time 0.1 – 10 seconds
- ❖ User selectable I:E Range: 1:4 to 10:1
- ❖ Patient proximal flow sensing for infants, pediatrics and adult
- ❖ Pressure Control : 5 to 85 cm H<sub>2</sub>O above PEEP
- ❖ Pressure Support : 0 to 70 cm H<sub>2</sub>O
- ❖ PEEP: 0 to 80 cm H<sub>2</sub>O
- ❖ Flow: 0.1 to 180 lpm
- ❖ Modes : Should have both Pressure control and Volume control Ventilation  
CMV, SIMV, CPAP/Spontaneous, PRVC with both CMV and SIMV, Pressure support for spontaneous breaths, SBT
- ❖ Auto Mode or equivalent
- ❖ Log to store past history at least for 72 hours.
- ❖ CF-CMV for Infants with adjustable Base flow
- ❖ NIV mode for Adults
- ❖ NCPAP mode for Infants
- ❖ Touch Screen Colour LCD Display with at least 12- 15" Screen size
- ❖ Should be able to operate with Touch screen or rotary knob and a set of keys independently or in combination.
- ❖ Linear Graphs: Pressure, Tracheal Pressure (either direct measurement or computed)  
Volume, Flow Vs Time
- ❖ Loops P- V, F-V, Tracheal Pressure - V
- ❖ Waveforms to be colour coded for Inspiratory / Expiratory phase and for Mandatory/Spontaneous
- ❖ It should be possible to show the Pressure / Volume Alarm limits on the Pressure / Volume waveforms
- ❖ It should be possible to at least show 2 loops and 3 waveforms simultaneously on a single screen.
- ❖ Trends for upto 72 hours of Pressures, Volumes, Compliance, Resistance



- ❖ Automatic Suction Routine
- ❖ Pressure and Flow Triggers
- ❖ Advanced respiratory mechanics procedures like Auto PEEP, Intrinsic PEEP Volume, P0.1, NIF
- ❖ Battery Back-up for at least 1 hour for ventilator
- ❖ Should Have comprehensive prioritized Alarm systems with high and Low Alarms for Tidal volume, Minute Volumes, Pressures, Respiration Rate,
- ❖ Other alarms like Disconnection, flow sensor, obstructed tube, power failure, Air supply failure, O2 supply failure, low battery.
- ❖ Facility to set ET tube size,
- ❖ ET tube compensation
- ❖ Linear Graphs: Pressure, Tracheal Pressure (either direct measurement or computed) Volume, Flow Vs Time
- ❖ Loops P- V, F-V, Tracheal Pressure - V
- ❖ Should have Minute Volume targeted mode.
- ❖ Fully configurable apnea back-up ventilation with user selectable apnea back up ventilation modes and Apnea time.
- ❖ Should have Event Log to record settings changes and also alarm messages with Data of power status, controlled setting, Alarm settings, and Monitored pressures and volume for each individual event
- ❖ On- Screen Help Messages for Alarms.
- ❖ Illogical setting indications
- ❖ Inbuilt Nebulizer
- ❖ Sigh, 100% O2 button, Inspiratory & Expiratory Hold
- ❖ User Configurable monitor Screen.
- ❖ Should be CE & US FDA approved.

#### Monitoring for

1. Peak, Mean, Plateau, Auto PEEP and PEEP pressures
2. Tidal Volume - Inspired, Delivered and Expired
3. Inspiratory and Expiratory Flows
4. Compliance and Resistance
5. Minute Volume – Total, Mandatory, Spontaneous
6. RSBI &  $T_i / T_{tot}$
7. Leak Rate %
8. Respiratory Rate- Total, Mandatory, Spontaneous
9. Compliance & Resistance.

- ❖ Offers to be made with Humidifier, Chamber and Breathing Circuits
- ❖ Quoting Company should have Quality management certification like ISO 9001:2008 and ISO 13485:2003 for all products offered

### 3) **Cardiac Monitor with Defibrillator**

- ECG

ECG lead: I, II, III, AVR, AVL, AVF, V1-V6

Protection: With stand 4000vAc/50Hz voltage in isolation and work against electrosurgical interference and defibrillation

Display : 7" Colour LCD

- 1) Defibrillator type : Manual, Synchronized, Asynchronized
- 2) Output waveform : Biphasic technology
- 3) Energy accuracy :  $< \pm 1\%$
- 4) Energy selection : 0,3,5,7,10,20,30,50, 100,200,300,360 joule(nominal at a resistance of 50)
- 5) Charging time : Maximum 8 seconds to 360 joules
- 6) Standard Adult /Pediatric Paddles : Reusable external adult paddles(Pediatric paddles integrated)
- 7) Required trolley.

- Internal Battery Backup

- (1) Battery type : Rechargeable lithium battery
- (2) Charging time : Time – minimum of 10 hours for full charging
- (3) Battery charging: During AC power supply operation of the device
- (4) Charging/Low battery indication: Red Led
- (5) Battery capacity: 100% of the battery will provide 120 min's of the monitoring; and discharge of 30 shocks 200 joules. Unit should be upgradeable to Spo2, NIBP & ET Co2.

- Power Requirements

AC Power supply: 110V, 60Hz / 220V, 50Hz

Weight : Less than 10 kgs

Unit should be CE approved.

#### 4) Infusion Pumps

- Infusion Pump with Multicolour LCD Display
- Should have facility for Drop based infusion as well as Volume based infusion.
- Should work using non-dedicated Infusion sets, and there should be facility to calibrate the Infusion sets.
- It should be possible to set the flow directly in ml/h or Drops.
- Occlusion Levels : 3 levels with multi colour display
- Battery Level indicator
- Modes: Rate Mode, Time Mode & Volume Mode
- Flow range
- 1.0ml/h-1200.0ml/h or 1 – 400 drops per minute
- Flow precision  $\pm 3\%$  in drop mode
- $\pm 5\%$  in Volume mode
- Purge: > 600ml/h.
- KVO Rate: Flow < 10ml/h, KVO is 1ml/h, Flow >10ml/h KVO is 3ml/h.
- Should have Bolus function.
- Battery Life : more than 8 hours on a single charge.
- Modes: Rate Mode, Time Mode & Volume Mode.
- Accuracy Adjust in Volume Mode
- Volume mode can be operated without drop sensor.
- Should be compatible with Macro & Micro sets
- Should have certification of ISO 9001:2008 and ISO 13485:2003

#### 5) Syringe Pump Specifications

- Bottom front loading Syringe Infusion Pump with Multicolour LCD Display
- Syringe Sizes : 2, 5,10, 20,30 and 50 ml
- Should work using non-dedicated syringes, and there should be facility to calibrate the syringe
- It should be possible to set the flow directly in ml/h and based on Weight , Solution Volume, Drug Mass & Dose, and Target Volume & Time based

- Occlusion Levels : minimum 3 levels with multicolour display
- Battery Level indicator with Battery Life of Minimum 8 hours on a single charge.
- Syringe pump should not have any visible opening so as not to spill any liquid inside the machine.
- Syringe pump should be stackable, with provision to lock one machine over another.
- Should have automatic KVO Mode
- Should have purge /Bolus function with User selectable Bolus flow Rate.
- Should have Alarms for : Occlusion, Near empty, Empty, Syringe loose, Low battery, End of Infusion.
- Alarm volume should be adjustable.
- Infusion should not start with out properly locking the syringe into the Syringe Block.
- Flow range for Rate Mode: 0.1ml/h-1800.0ml/h (50ml Syringe), step of 0.1ml/h
- 0.1ml/h-800.0ml/h (20ml Syringe), step of 0.1ml/h
- 0.1ml/h-400.0ml/h (10ml Syringe), step of 0.1ml/h
- 0.1ml/h-200.0ml/h (5ml Syringe), step of 0.1ml/h
- 0.1ml/h-100.0 ml/h(2ml Syringe), Step of 0.1ml/h
- Flow precision  $\pm 2\%$
- Time setting Mode range:
- Volume: 0.1-99 ml, Step of 0.1ml
- Time: 1-1999 min Step of 1 min.
- Weight Setting mode range:
- Solution Volume: 0.1-99 ml, Step of 0.1ml
- Drug mass : 0.1-999ml, step of 0.1 ml
- Dose: 0.01 -99.99ug/kg/min, Step of 0.01ug/kg/min
- 0.01-99.99 mg/kg/hr, Step of 0.01mg/kg/hr
- Weight: 0.1 -99.9kg, Step of 0.1 kg, 100-300kg, Step of 1kg
- Target Volume range: 0.1-999.9ml
- Power Supply: 100-240VAC, 50/60Hz, Power consumption less than 25 VA, Weight less than 4kg with battery.
- Should have certification of ISO 9001:2008 and ISO 13485:2003

## 6) Compressor

### Standards and Safety

- Sample Reading :As per compliance with ICSH
- (International Committee for the Standardization of Hematology)
- Should be compliant to ISO 13485: Quality systems -

- Medical devices - Particular requirements for the application of ISO 9001
- Applicable to manufacturers and service providers that
- perform their own design activities.

**Instructions**

- Compulsory demonstration of equipment with
- comparative chart in prebid meeting.

**7- Suction machine**

- Capacity 1/4 Hp
  - Twin bottle.
- SS Body

### **8) ECG machine computerized**

- 1/2 channel printout format
- 320x240 LCD to display setting
- menu and waveform in 3/(3+2)/6/12 channel
- Rhythm lead with R-R interval histogram and trend graph
- Automatic measurement and interpretation of standard ECG parameters
- Internal memory for storing 30 records
- Built in RS232/USB interface supporting data transmission to PC
- Software to be provided for post-processing of ECG waveform on PC
- Provision to enter patient info of ID, sex, age and weigh
- Input Circuit: Isolated with protection against pacemaking and defibrillation
- Input Impedance: > 50Megaohm
- Input Circuit Current: < 20nA
- Calibrating Voltage: 1mV
- Polarizing Voltage: 300mV
- Sensitivity: 5, 10, 20mm/mV
- Filter: AC: 50Hz (-3dB); EMG: 35-45Hz (-3dB)
- Time Constant: > 3.2s
- Noise Level: < 15mV
- Frequency Response: 0.05-150Hz
- CMRR: > 100dB
- A/D Converter: 12bit
- Printer: Thermal array printer of minimum 150 mm or above.
- Baseline Control: Automatic control
- Rythm lead: Standard 12 lead
- Lead Change: Automatic/Manual
- Safety Level: Class I, Type CF

### **8) ECG machine ordinary**

- Power Requirements: AC: 220V, 50Hz/110V, 60Hz
- DC: Built in rechargeable battery supporting.
- 50 exams after complete charging

- Recording Paper: 63mmx20m roll
- Sampling Rate: 1.25ms
- Paper Speed: 6.25, 12.5, 25, 50mm/s
- Lead: Standard 12 lead
- Should be store last ECG
- Should be provided with software to transfer ECG to Computer.
- Should give measurements of ECG.

## **10-Pulse Oximeter**

### **1- Description of Function**

- 1.1 A pulse oximeter is a medical device that indirectly measures the amount of oxygen in a patient's blood (as opposed to measuring oxygen saturation directly through a blood sample) and changes in blood volume in the skin, producing a photo plethysmograph

### **2- Operational Requirements**

- 2.1 Suitable for all types of Patient range :Adult, pediatric, infant, and/or neonate

### **3 Technical Specifications**

- 3.1 Display- LCD, Backlight illuminated
- 3.2 Parameters and waveform displayed- SpO<sub>2</sub>, pulse rate, system status, plethysmogram, menus for user settings
- 3.3 SPO<sub>2</sub> range- 0- 100 %
- 3.4 Accuracy of SPO<sub>2</sub>-  $\pm 2\%$ (70-100% adult pediatric non motion)  $\pm 3\%$ (70-100%, neonate, nonmotion)
- 3.5 Pulse rate range should be 18-300 bpm
- 3.6 Audiovisual Alarms- High/low SpO<sub>2</sub> and pulse rate, sensor off, sensor failure, low battery  
Alarm range- 50-100%
- 3.7 Alarm override facility
- 3.8 Cable length should be minimum 1 metre
- 3.9 RS 232C Interface for data communication.
- 3.10 Integrated Printer
- 3.11 Battery back-up operating time 5 hours.

### **4 System Configuration Accessories, spares and consumables**

- 4.1 System as specified-
- 4.2 SpO<sub>2</sub>:Adult SpO<sub>2</sub> sensor with cable two nos per monitor and Pediatric SpO<sub>2</sub> sensors- one no. per monitor.

### **5 Environmental factors**

- 5.1 Shall meet IEC-60601-1-2 :2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.or should comply with 89/366/EEC; EMC-directive.
- 5.2 The unit shall be capable of being stored continuously in ambient temperature of 0 -50 deg C and relative humidity of 15-90%

### **6 Power Supply**

- 6.1 Should work on 220-240V AC as well as rechargeable batteries. Mains adaptor to be supplied

6.2 Rechargeable battery operated system. Charger to be provided if integrated charger is not there.

**7 Standards, Safety and Training**

7.1 Should be FDA , CE,UL or BIS approved product

7.2 Manufacturer/Supplier should have ISO certification for quality standards.

7.3 Comprehensive warranty for 2 years and

5 years AMC after warranty

7.4 Electrical safety conforms to standards for electrical safety IEC-60601-1 General Requirements.

**8 Documentation**

8.1 User/Technical/Maintenance manuals to be supplied in English.

8.2 Certificate of calibration and inspection.

**11- B.P.apparatus table model**

**12- B.P.apparatus stand model**

**13- Stethoscope**

**14- Portable X-Ray Machine**

*Mobile 100 mA X-Ray Machine ( Auto Programmable)*

- |  |   |   |
|--|---|---|
| <b>1. Radiographic Rating</b>          | : | 40 – 100 KVp .  |
| <b>2. Tube Current</b>                 | : | 25 mA , 40 mA , 75 ma and 100 mA  |
| <b>3. Tube Voltage</b>                 | : | 40 – 100 kVp in Steps of 2 kVp  |
| <b>4. Timer</b>                        | : | 2-300 mAs   |
| <b>5. Rectification</b>                | : | Full Wave rectified .   |
| <b>6. X-Ray Tube</b>                   | : | Stationary Anode Tube<br>2.8 mm x 2.8 mm focal spot .   |
| <b>7. Collimator</b>                   | : | Manual Light Beam Diaphragm.  |
| <b>8. Movements</b>                    | : | Should have Fully Counter Balanced ,<br>Vertical , In and out Angular Travel and Tube Up & Down |
| <b>9. Cassette Box</b>                 | : | Integrated Mobile Stand with Lead Backing .   |
| <b>10. Power Supply</b>                | : | 230 V, 50 Hz. A.C   |
| <b>12. Extension Operating Switch:</b> |   | With 2-3 meters cable Length.   |

- **Equipment should have BIS & CE certified Part I Approved for Mechanical & Electrical Safety .**



- **Equipment should have AERB Approved for Radiation Safety.**
- **Equipment should have Auto programmable for KVp , Technic and mAs can be automatically selected by selecting the Body Part .**
- **Equipment should have Illuminated LCD Display.**
- **Equipment should have wheels for easy movement**
- **Should have** Digital meter for Main Line voltage display for accurate exposure.

## **15 Central Patient Monitoring Station for Six monitor.**

### **\_\_\_\_ Bed Multi Parameter Central Monitoring**

#### **with Wired System Software**

**System Software** with following salient features:

- ~ Windows based system.
- ~ The system should have user friendly touchscreen
- ~ Hardware should have licenced Central monitoring system
- ~ 16 bed alignments, with full screen zoom options.
- ~ 4 and 8 seconds online recording and freez frame mode.
- ~ 24 Hours Heart Rate Trend
- ~ 72 hours data storage, retain & reviewal capacity.
- ~ Smart Alarm, Alarm Logging & Alarm queue up facility.
- ~ Remote Monitoring
- ~ Patient's Data remains stored safely even after a Power Failure.
- ~ All the data ( Current as well as Stored) can be printed at any on any standard Windows compatible printer.
- ~ Parameters:ECG, SpO2, NIBP, Resp & Temp
- ~ 3.0 GHz / Dual Core processor with CD/DVD RW
- ~ DVD writer
- ~ RAM : 1 GB
- ~ 160 GB Hard Disk (SATA)
- ~ 2 Serial Port
- ~ 2 USB Port
- ~ Optical Scroll Mouse with pad
- ~ UPS of 600 VA
- ~ Speakers
- ~ Windows Licenced User Copy
- ~ 17" ( 1280 x 1024 )High Resolution TFT Monitor
- ~ Black n White Laser Printer
- ~ Suitable Table for Central Station
- ~ Necessary cabling for Central Station will be done by the Hospital

## **16 . Intubation Kit, Laryngoscope(Adult/pediatrics)**

## **17 Portable Ultrasound Machine**

- The equipment must be capable of operating in B mode, Color Doppler, Color Power Doppler, Pulsed Wave and Continuous Wave modes.
- The system shall provide Pulsed Wave Tissue Doppler Mode.

- It must support transducers with linear, phased array, TEE and curved array formats.
- The system shall have broadband architecture with an operating frequency of at least 1-14 MHz (+1 MHz)
- The system shall have the ability to enhance tissue margins and improve contrast resolution by reducing artifacts and improving visualization of texture patterns within the image, please specify the technology
- Unit should be able to give very high image quality with advance technologies like compound imaging with at least 5 sights of lines for better cardiac contrast resolution, tissue differentiation and edge deletion, equivalent to high end cart based systems.
- System must have auto image adjusting all imaging parameters depending on exam type and based on imaging depth.
- The system shall process a dynamic range that is at least 165db. The system must display at a maximum depth of 35 cm.
- The system shall provide a user controlled mechanism to easily control the size and position of the Color Region of Interest (ROI) including independent control of its height and width. The system shall provide the user with digital calipers, shall support up to 8 generic distance calipers.
- The system shall provide the user with up to 4 trace tools, 4 ellipse tools .
- The system must have a dedicated cardiac calculation packages with PISA,TDI calculation packages vascular calculations package.
- The system shall provide a backlit keypad with no track ball preferably for ease of use with facility to disinfect the keypad of system must be possible to avoid any cross contamination.
- The system shall go from the status to active scanning in fewer than 20 seconds for critical care and emergency situation in ICU. Preferably system should not operate windows operating systems to avoid hanging and hard disk crash in critical situations.
- The system shall be able to be easy to carry, the system shall weigh not more than 5kg including battery.
- the system shall have an LCD screen size not smaller than 9" with flicker free images.
- The system shall have Digital Video interface (DVI), S-Video, VGA, USB and audio output
- The operating temperature range of the system, transducers, and battery shall be 10-40°C .
- The system shall have the ability to function by AC/DC or battery power with the same degree of functionality, the battery life (run time) shall be at least 2(two) hours, this need to demonstrate.
- The system must have archive capability for storage and retrieval of images and clips.
- The system shall support the all DICOM functionality, Storage, Print, and Work List, also ready to connect to PACS.
- The manufacture shall provide a loaner system in case of failure of system.
- B/W Thermal printer -01
- trolley for machine -01

Transducers to be supplied as standard

1. 2-5 MHz multi-frequency broadband curved array transducer for general purpose, abdominal, Ob/Gyn applications

2. 1-5MHz multi-frequency, ,broadband phased array transducer for adult cardiac imaging.

Warranty: The system and transducers should be covered with comprehensive on site warranty for 2 year including all probe .

## **18- Air Conditioning (As per requirement)**

## **19.- Generator Set**

30 KVA, CPCB Approved, with Air Cooled , AMF Panel, Silent Canopy, Necessary Electric Work, Necessary Concrete Plat form, shed for covering the Generator set

**D) CCU furniture supply and installation** – The bidder shall be required to supply and install the CCU furniture as mentioned in the schedule of requirements.

- a) The proposed furniture shall meet **all the specifications** as specified in this tender document. Any deviation from the proposed specifications shall result in rejection of the bids. The bidder shall also comply with the service support and warranty clauses as specified in this tender document.
- b) The bidder may be asked to demonstrate certain features as asked in specifications. In such cases the bidder has to arrange the demonstrations as may be asked for.
- c) **WARRANTY:** The bidder shall supply only new, unused goods without defect arising from material, workman ship or from any act or omission of the supplier that may develop under normal use of the supplied goods and shall provide comprehensive warranty for a period of Three years or as specified in the Technical Specifications.
  - During the warranty period the bidder will be responsible for ensuring that the equipment is maintained in good working condition. Replacement of defective parts of the equipment or the equipment itself or rectification of defects is done promptly free of cost at the place where the equipment is installed without charging any kind of costs i.e service charge ,mandays visit ,travelling, transportation, material etc.
  - The bidder will provide a list of its service centers who would be attending the after sale complaints along with complete address, concerned responsible persons and their phone numbers.
- Minimum Guaranty/Warranty to be offered by the bidder of the quoted equipment/item shall be of at least 03 (Three) years from the date of installation of equipment/item. Any period more than 3 years of the warranty is appreciable.
  - All losses due to defects resulting from faulty design, materials and workmanship during the warranty period shall be compensated by the supplier.
  - In case of any defects detected in items under warranty, the users shall notify procurement authority about the same. Procurement authority shall promptly

notify the supplier in writing for any claims arising from such defects. If the defect is not rectified by the supplier within the specified time period, procurement authority shall take necessary actions to claim compensation at the supplier's expense.

**d) Schedule of requirement and specifications –**

S.No.	Item	Quantity
1	Transfer stretcher	1
2	CCU beds	6
3	Bedside lockers	6
4	Over bed table	6
5	Medical screen	3
6	Mattress	6
7	One step footstool	6
8	Crash Cart cum medicine trolley	2
9	Record clip trolley	2
10	Kick bucket	2

**Specifications**

**i) CCU Beds:** Three manual crank system

- Streamline PE head and foot board is quickly detachable for CPR
- Frame made of epoxy-coated Steel
- Cold steel plate whole molding aperture clashing bed plate .Connected with arc PE plastic soft join.
- Four castors with central brake systems.
- 4 pieces of ABS bed rails, easy lift and laid down
- Weight capacity: 250 Kg
- Angle of back section: 0 ~ 80° (±5°)
- Angle of leg section: 0 ~ 40° (±5°)
- Adjustable height: 450-720mm

**ii) Bed side locker**

Bed side cabinet made out of ABS Material with making colour with beds of size

Size 480x480x820mm with Standard Device & 2 pcs towel stands ,4 Pcs oddment hooks 1 pc 1water bottle stand, Optional choose: 4pcs 2" castors

**iii) Mattress**

- Cover: Water-proof cloth
- Interior: Machine-pressed palm and high density sponge
- thickness 70mm
- Color :dark blue

**iv) Crash cart cum medical trolley**

- Size: 850x520x1010mm
- Material:aluminum-alloy, ABS and stainless steel .
- Including 5 layers of drawers,2 small size(70mm in height),2 medium size(140mm in height)and 1 large size(210mm in height);
- drawers mainly consist of top panel board,frame and plastic medicine tray(adjustable);
- other components:2 litter buckers,1 syringe disposal,1 adjustable board,1 transparent file box,1 oxygen cylinder holder,1 power outlet,1 instrument holder and 1 I.V.Pole

**v) Record clip trolley**

- Single –Copy Medical Record Cart Structure and Configuration:
- All stainless steel and ABS structure with silent wheels, locks and drawers
- Specifications :25 Shelves (piece) Size: L405xW405xH1015mm

**vi) Kick bucket, Transfer stretcher,Trolleys,stands,Over bed table, Medical screen etc.and all miscellaneous appliances required in CCU -**  
As per industry standards. Items will be supplied only after acceptance and approval from the purchaser.

## E) CCU Training Simulators supply and installation

S.No.	Item	Quantity
1	Full body Manikin for CPR AED Training with real time feedback	1
2	AED Training with CPR System	1

### **Specifications for Full body Manikin for CPR AED Training with real time feedback**

The manufacturer should have an office in India to support the product training and provide a continuous hand holding support on the training simulator

The Adult CPR manikin with real time feedback shall have following features :

1. Airway must open/close by the following procedures when they are performed correctly as

taught according to ILCOR guidelines :

- Head tilt
- Chin lift
- Jaw thrust

2. Ventilation of the manikin must be possible through the following procedures:

- Mouth to mouth
- Mouth to nose
- Mask to mouth (both Pocket Mask and Bag-Valve Mask (BVM))

3. The manikin must show a realistic chest rise during ventilation

4. The student must be provided correct feedback for either normal ventilation volumes or for volumes when supplementary oxygen is provided based on the ILCOR guidelines

5. Stomach insufflations should be indicated as too rapid inflation

6. Removal and replacement of lungs and face skin must be easy without use of tools.

7. Ears must be visible as a landmark for correctly aligning the head in order to apply a cervical spine extrication collar.

8. The manikin must be equipped with a bilateral carotid pulse.

9. The manikin must be equipped with means of providing feedback on performed CPR through hand held wireless touch screen color LCD device

11. Should have simple, non-articulated arms and legs.

12. CE/FDA certification for the proposed simulator.

## **AED Training with CPR System**

- The manufacturer should have an office in India to support the product training and provide a continuous hand holding support on the training simulator
- The manikin shall have a removable full-face mask made of polyvinylchloride (PVC) & a soft nose that can be occluded using the nose pinch technique.
- The manikin shall have patent nasal passages, open oral passage that leads to the lower airway.
- The manikin shall have an articulating jaw to facilitate a modified jaw thrust maneuver & a jaw thrust technique to open the airway.
- The manikin shall be able to facilitate a head tilt/chin lift technique to open the airway.
- The manikin shall have a disposable lower airway & should have a one-piece rib/stomach plate that can facilitate abdominal thrusts.
- The manikin shall have a removable compression spring & a compression clicker that provides audible feedback which can also be turned on and off without dismantling the manikin.
- Shall be supplied with standard with a carry case that also serves as a padded training mat and a must include a zippered jacket.
- Communication between the manikin and AED Trainer will allow the trainer to respond appropriately based on proper vs. improper pad placement.
- LED's in the chest skin will illuminate to confirm proper AED Trainer pad placement when used with the suitable AED Trainer.
- The AED Training System must contain an AED Trainer, CPR-AED training manikin, and remote control
- The AED Trainer must resemble a realistic automated external defibrillator & must be preprogrammed with 10 scenarios & should have clear, audible voice prompts
  - The speaker volume must be adjustable with or without the optional remote control and must include a soft carry case
  - Optional Programming Kit must be able to change the AED Trainer default settings
  - The unit must be powered by 6 C-cell batteries contained in a battery case simulating actual AED battery
  - The AED Trainer must contain a status display window that can be manually changed by the instructor and a LED display indicating selection of volume level and scenario chosen
  - The AED Trainer must simulate the following conditions in preprogrammed scenarios and be able manually override them with the remote control
  - Artifact motion
  - Poor pad placement

- Correct pad placement
- Shockable rhythm
- Non-shockable rhythm
- Low Battery
- Replace Battery
- Error Condition

Remote Control must allow user to select preprogrammed and systemized scenarios, adjust the AED Trainer volume, illuminate the LED's in the AED chest skin, and manually override or run scenarios activating the conditions listed.

- When used with standard pads, the AED Trainer must be able to be used with any CPR manikin
- When used with Link Training Pads and the Manikin, the AED Trainer must not enter simulated analyze mode until pads are properly placed on the manikin and the pads connector is properly connected to the AED Trainer.
- IF the Link Training Pads are not properly placed on the AED manikin chest skin, the AED Trainer will respond with a "Place electrodes on bare chest" voice prompt and not enter simulated analyze mode.



## Technical Evaluation

Detailed evaluation of the Proposals would be carried out in order to determine whether the technical aspects are in accordance with the requirements set forth in the tender documents. Government will examine and compare the technical aspects of the Proposals on the basis of the information supplied by the Bidders, taking into account the following factors:

- (a) Overall completeness and compliance with the requirements specified in the tender document. The Proposal that does not meet minimum acceptable standards of completeness, consistency and detail will be rejected taking it as non-responsiveness.
- (b) Working methods, project plans and the solution design offered in the proposal shall demonstrate that the Bidder will achieve the performance standards within the time frame described in the tender documents.
- (c) Any other relevant factors, if any, listed in the bid document, or that deems necessary or prudent to take into consideration.

The evaluation criteria of the Technical Proposal are given below

S. No.	Criteria	Description
1	<b>Qualification criteria</b>	The bids will be evaluated for compliance to the qualification requirements and documents submitted against each criteria. <b>Response expected: Form T2</b>
2	<b>CCU Interior Work</b>	
2a	Proposed CCU interiors solution	The bidders should propose state of art CCU interiors solution. The proposed solution will be evaluated for its suitability, advantages and compliance with the prescribed norms and CCU room layout. Also, minimum specifications of the CCU interior works have been provided in the tender document. <b>Response expected: Form T5</b>
2a	Compliance to the minimum specifications specified	The bidders are expected to propose state of art solutions for the CCU interior work. They should comply with the minimum specified features and

	in the tender document	<p>specifications of the interior work in this tender document.</p> <p><b><u>Response expected: Form T6 to be completed.</u></b></p>
2b	Compliance to the room layout	<p>The bidder should study the CCU room layout and should provide their designs and solutions accordingly.</p> <p><b><u>Response expected: Form T5</u></b></p>
2c	Compliance to safety requirements	<p>The bidder should propose and explain working methodologies that are compliant with the safety standards at work.</p> <p><b><u>Response expected: Form T5 to be completed</u></b></p>
3	<b>Equipment Supply and installation</b>	<p>The bidder shall quote for all the CCU equipment as mentioned in the requirements section. All the equipment proposed by the bidder should comply 100% with all the specifications as mentioned in the tender document.</p> <p>All the service and warranty conditions shall also be complied.</p> <p><b><u>Response expected: Form T7 to be filled accordingly.</u></b></p>
4	<b>CCU furniture supply and installation</b>	<p>The bidder shall quote for all the CCU furniture as mentioned in the requirements section. All the equipment proposed by the bidder should comply 100% with all the specifications as mentioned in the tender document.</p> <p>All the service and warranty conditions shall also be complied.</p>

		<b><u>Response expected: Form T8 to be completed.</u></b>
5	<b>OEM Support and Authorization</b>	The bidder should submit OEM support and authorization related documents. <b><u>Response expected: Form T10 and T11 to be completed.</u></b>
6	<b>Compliance to specifications and tender terms</b>	The bidder should not show substantial deviation from the specifications of various items and works stated in the tender. The bidder should also accept all tender terms and conditions. <b><u>Response expected: Form T12 and T13 to be completed.</u></b>
7	<b>Project Plan</b>	The bidder should submit a detailed project plan to ensure completion within the prescribed timelines in this tender. <b><u>Response expected: Form T9 to be completed.</u></b>

The technical bids submitted by the bidder will be evaluated against the technical criteria as specified above. **The bidders are therefore, required to submit their technical bids strictly as per the technical forms T1 to T14. Any non-compliance or non-submission of any of the forms in the format of submission of bids may cause rejection on the bids.**

- **Commercial Evaluation**

In evaluating the Financial Proposal, the government will determine for each proposal, the Proposal Offer by adjusting the Proposal Costs and Payments as follows:

i. Making any correction for errors

Evaluation of Financial Proposal shall include the following:

i. Check for completeness of Financial Proposal

ii. Total cost as indicated by the bidder in the financial forms

iii. Compliance to all the bidding conditions as specified in the tender document

The government reserves the right to negotiate the terms of the services and/ or the 'Payments' with the successful Bidder prior to award, at its sole discretion.

- **Forms and Templates for Bid response**

The bidders are expected to respond to the bid using the forms and templates given in this section

- **Technical Bid**

Technical Bid shall comprise of following forms:

- Form T1: Technical Bid Compliance Sheet
- Form T2: Qualification Criteria Compliance Sheet
- Form T3: Covering Letter for Technical Bid
- Form T4: Bidder Profile
- Form T5: CCU Interiors Solution Description
- Form T6: CCU Interiors Specification Compliance
- Form T7: CCU Equipment Specification Compliance
- Form T8: CCU Furniture Specification Compliance
- Form T9: Implementation Schedule
- Form T10: OEM Authorization Form
- Form T11: OEM Support Form
- Form T12: Deviation from requirements specification
- Form T13: Deviation from Tender terms and conditions
- Form T14: Warranty

## Form T 1

### Technical Bid Compliance Sheet (with respect to Technical Evaluation)

S. No.	Criteria	Documents submitted	Compliance (Y/N)
1	<b>Qualification criteria</b>		
2	<b>CCU Interior Work</b>		
2a	Proposed CCU interiors solution		
2b	Compliance to the minimum specifications specified in the tender document		
2c	Compliance to the room layout		
2d	Compliance to safety requirements		
3	<b>Equipment Supply and installation – Compliance to Technical Specifications</b>		
4	<b>CCU furniture supply and installation - Compliance to Technical Specifications</b>		
5	<b>OEM Support and Authorization</b>		

6	<b>Compliance to specifications and tender terms</b>		
7	<b>Project Plan</b>		

## Form T 2

### Qualification criteria Compliance Sheet

S.No.	Qualification Criteria	Required details	Compliance
1.	The manufacturer/authorized representative should have supplied 100% of the mentioned quantity of equipment	b) Undertaking and list of clients where the mentioned quantity has been supplied	Yes/No
2.	The bidder should not be blacklisted by any government organization	a) Undertaking on the letterhead	Yes/No
3.	The bids must be accompanied by the bid security (EMD)	a) Demand draft from any nationalized bank	Yes/No
4.	Power of attorney for the bid signatory	a) Power of attorney for the bid signatory	Yes/No
5.	Documentary evidence for the constitution of the firm	a) MoA of the firm b) Certificate from RoC	Yes/No
6.	VAT registration and clearance certificate	a) VAT registration certificate b) Latest return / Undertaking on letterhead	Yes/No

## **Form T 3**

### **Covering Letter for Technical Bid**

Date: dd/mm/yyyy

To,

CHIEF MEDICAL AND HEALTH OFFICER.NCD -NPCDCS PROGRAMME

Raipur Chhattisgarh

**Reference:** Tender Number ..... Dated .....

Sir,

We hereby declare:

- i. We are the authorized agents of the manufacturers of the CCU equipment proposed in our solution.
- ii. That we / our principals (manufacturer) are equipped with adequate maintenance and service facilities within India for supporting the offered equipment. Our maintenance and service facilities are open for inspection.

We hereby offer to supply the equipment and provide the services at the prices and rates mentioned in the attached commercial bid.

In the event of acceptance of our bid, we do hereby undertake that:

- i. To supply the equipment as stipulated in the schedule of delivery forming a part of the attached technical bid.
- ii. To undertake the project on a turnkey to include the interior design and construction work of the CCU
- iii. We affirm that the prices quoted are inclusive of delivery, installation, and commissioning charges and all sales/service taxes. (Octroi and any local levies will be charged on actual on submission of proof of remittance.)

We agree to abide by our offer for a period of 180 days from the last date of submission of commercial bid and that we shall remain bound by a communication of acceptance within that time.

Bid Security in the form of a Bank Guarantee issued by \_\_\_\_\_ (bank),



valid till \_\_\_/\_\_\_/\_\_\_\_\_ (dd/mm/yyyy), for an amount of **INR 1,00,000** is enclosed.

We have carefully read and understood the terms and conditions of the tender and the conditions of the contract applicable to the tender. We do hereby undertake to provision as per these terms and conditions.

- i. The deviations from the requirement specifications of tendered items and schedule of requirements are only those mentioned in our response

*OR (Strike out whatever is not applicable)*

There are no deviations from the requirement specifications of tendered items and schedule of requirements.

- ii. The deviations from the terms and conditions of the tender are only those mentioned in our response

*OR (Strike out whatever is not applicable)*

There are no deviations from the terms and conditions of the tender.

We do hereby undertake, that, until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and notification of award of contract, shall constitute a binding contract between us.

\_\_\_\_\_  
**Signature of Bidder (with official seal)**

**Date**

**Name**

**Designation**

**Address**

**Telephone**

**Fax**

**E-mail**

**address**

## **Form T4**

### **Bidder Profile**

Bidder Profile	
1.	Name & Address Of The Bidder
2.	Location of Corporate Head Quarters
3.	Country of Incorporation
4.	Details of Contact person (Name, designation, address etc.) Telephone Number Fax Number e-mail
5.	Is the firm a registered company? If yes, submit documentary proof.
6.	Is the firm registered with sales tax department? If Yes, submit valid sales tax registration certificate.
7.	List of offices

## **Form T5**

### **CCU Interiors Solution Description**

#### Technical Solution of the CCU Interiors

The Bidder shall provide their understanding of the scope of the project and the CCU requirements. They shall submit –

- 1) Detailed drawing of their proposed CCU solution
- 2) Description of the proposed interiors
- 3) Purpose of the design
- 4) Advantages
- 5) Compliance to CCU standards
- 6) Bill of materials
- 7) Implementation methodology
- 8) Compliance to safety standards

**Form T6**

**Compliance to minimum CCU interiors specifications**

Please fill the following BOM for all components in separate tables. Missing any of the components shall be treated as non-compliance to the technical requirements and may cause rejection of the bids.

**1) Component 1:**

S.No.	Component ( with details about brand, make and model )	Detailed Specification Reference**	Offered Specifications	OEM	Compliance	Details of deviation
1.	Eg – CCU bed head panel, antistatic flooring, wall covering etc.	Fill in the minimum specifications as mentioned in the tender document.	Fill in the offered specifications against the specified specifications in the tender document.			

\*\* Please attach detailed specifications and provide reference number in this column. (Any deviations should be appropriately mentioned in the deviation table provided.)

**Documents attached**

Detailed manuals and data sheets of the products to verify the specification compliance.

**Form T7**

**Compliance to specification of the CCU equipment**

**Please fill the following for all the CCU equipment in separate tables. Missing any of the equipment shall be treated as non-compliance to the technical requirements and may cause rejection of the bids.**

**1) Equipment 1:**

<b>S.No.</b>	<b>Component ( with details about brand, make and model )</b>	<b>Detailed Specification Reference**</b>	<b>Offered Specification</b>	<b>OEM</b>	<b>Compliance</b>	<b>Details of deviation</b>
1.	Eg – Monitor, Ventilator, etc.	Fill in the minimum specifications as mentioned in the tender document.	Fill in the offered specifications against the specified specifications in the tender document.			

\*\* Please attach detailed specifications and provide reference number in this column. (Any deviations should be appropriately mentioned in the deviation table provided.)

**Documents attached**

Detailed manuals and data sheets of the products to verify the specification compliance.

**Form T8**

**Compliance to specification of the CCU furniture**

Please fill the following for all the CCU furniture in separate tables. Missing any of the item shall be treated as non-compliance to the technical requirements and may cause rejection of the bids.

**1) Item 1:**

S.No.	Component ( with details about brand, make and model )	Detailed Specification Reference**	Offered Specification	OEM	Compliance	Details of deviation
1.	Eg- Bedside locker, medicine trolley etc.					

\*\* Please attach detailed specifications and provide reference number in this column. (Any deviations should be appropriately mentioned in the deviation table provided.)



**Form T9**

**To,**

CHIEF MEDICAL AND HEALTH OFFICER.NCD -NPCDCS PROGRAMME  
Raipur Chhattisgarh

**Implementation Schedule (Project Plan)**

S.No.	Activity	Time Frame for completion from the Date of Contract Assignment
1	Equipment Supply	
2	Equipment Installation	
3	Material delivery for the CCU interiors	
4	Activity 4	
5	Activity 5	
6	Activity 6	

**The bidder should list down all the activities, sub activities and provide time frame for their completion here.**

**Form T 10**

**Authorisation Letters from OEMs**

Date: dd/mm/yyyy

To,

CHIEF MEDICAL AND HEALTH OFFICER.NCD -NPCDCS PROGRAMME

Raipur Chhattisgarh

**Reference:** Supply of equipment for cardiac care unit at Raipur

Sir,

We \_\_\_\_\_, (*name and address of the manufacturer*) who are established and reputed manufacturers of \_\_\_\_\_ having factories at \_\_\_\_\_ (*addresses of manufacturing locations*) do hereby authorize M/s \_\_\_\_\_ (*name and address of the bidder*) to bid, negotiate and conclude the contract with you against the above mentioned tender for the above equipment manufactured by us.

Yours faithfully,

For and on behalf of M/s \_\_\_\_\_ (*Name of the manufacturer*)

Signature

Name

Designation

Address

Date

**Directorate Seal**

**Note:** This letter of authority should be on the letterhead of the concerned manufacturer and should be signed by a person competent and having the power of attorney to bind the manufacturer.

**Form T 11**

**OEM's Support Form**

Date: dd/mm/yyyy

To,

CHIEF MEDICAL AND HEALTH OFFICER.NCD -NPCDCS PROGRAMME

Raipur Chhattisgarh

**Reference:** Supply of equipment for cardiac care unit at Raipur

Sir,

We \_\_\_\_\_, (*name and address of the manufacturer*) who are established and reputed manufacturers of \_\_\_\_\_ having factories at \_\_\_\_\_ (*addresses of manufacturing locations*) do hereby assure that our equipment will be supported and freely upgraded for the next **two** years.

Yours faithfully,

For and on behalf of M/s \_\_\_\_\_ (*Name of the manufacturer*)

Signature

Name

Designation

Address

Date

**Directorate Seal**

---

**Note:** This letter of authority should be on the letterhead of the concerned manufacturer and should be signed by a person competent and having the power of attorney to bind the manufacturer.

**Form T12**

**Statement of Deviation from Requirement Specifications**

Date: dd/mm/yyyy

To,

CHIEF MEDICAL AND HEALTH OFFICER.NCD -NPCDCS PROGRAMME

Raipur Chhattisgarh

**Reference:** Tender Number ..... Dated .....

Sir,

There are no technical deviations (null deviations) from the requirement specifications of tendered items and schedule of requirements. The entire work shall be performed as per your specifications and documents. OR *(Strike out whatever is not applicable)* Following is the exhaustive list of technical deviations and variations from the requirement specifications of tendered items and schedule of requirements. Except for these deviations and variations, the entire work shall be performed as per your specifications and documents.

S. No.	Section No.	REQ No.	Page No.	Statement of deviations and variations
1.				
2.				

\_\_\_\_\_

Authorized Signatory

Name :

Designation:

**Form T13**

**Statement of Deviation from Tender Terms and Conditions**

Date: dd/mm/yyyy

To,

CHIEF MEDICAL AND HEALTH OFFICER.NCD -NPCDCS PROGRAMME

Raipur Chhattisgarh

**Reference:**

Sir,

There are no deviations (null deviations) from the terms and conditions of the tender. All the terms and conditions of the tender are acceptable to us.

*OR (Strike out whatever is not applicable)*

Following are the deviations from the terms and conditions of the tender. These deviations and variations are exhaustive. Except these deviations and variations, all other terms and conditions of the tender are acceptable to us.

S. No.	Section No.	Page No.	Para	Statement of deviations and variations
1.				
2.				

\_\_\_\_\_

Authorized Signatory

Name :

Designation:

**Form T14**

**Warranty/Guarantee**

To,

CHIEF MEDICAL AND HEALTH OFFICER.NCD -NPCDCS PROGRAMME

Raipur Chhattisgarh

We warrant that the equipment supplied under the contract are newly manufactured, free from all encumbrances, defects and faults in material or workmanship or manufacture, shall be of the highest grade and quality, shall be consistent with the established and generally accepted standards for materials of the type ordered, shall be in full conformity with the specifications, drawings of samples, if any, and shall operate as designed. We shall be fully responsible for its efficient and effective operation.

The obligations under the warranty expressed above shall include all costs relating to labour, spares, maintenance (preventive as well as unscheduled), and transport charges from site to manufacturer's works / service facilities and back for repair or modification or replacement at site of the equipment or any part of the equipment, which under normal care and proper use and maintenance proves defective in design, material or workmanship or fails to operate effectively and efficiently or conform to the specifications and for which notice is promptly given by the government to us. We shall provide on-site support for all the equipment and services supplied hereunder during the period of this warranty / guarantee for 3 years.

- I / we / M/s \_\_\_\_\_ also hereby declare that
- i. I / we do Accept / Agree for the warranty / guarantee for 3 years from the date of installation & commissioning and CMC for 5 years after expiry of warranty /guarantee as per this tender clause No. \_\_\_\_\_
  - ii. I / we will not charge / quote any extra price on account of the above said warranty / guarantee.
  - iii All losses due to defects resulting from faulty design, materials and workmanship during the warranty period shall be compensated by the our Firm/Company.
  - iv In case of any defects detected in items under warranty, the users shall notify procurement authority about the same. Procurement authority shall promptly notify the supplier in writing for any claims arising from such defects. If the defect is not rectified by the supplier within the specified time period, procurement authority shall take necessary actions to claim compensation at our firm/company name ..... own expense.
  - iv. I / we do accept / agree to provide uptime guarantee 95% as per this tender clause No. \_\_\_\_\_.

v. The 3 year warranty is valid from dt.\_\_\_\_\_ to dt.\_\_\_\_\_.

vi. The 5 year CMC is valid from dt.\_\_\_\_\_ to dt.\_\_\_\_\_.

Date:

Signature of the competent authority

Place:

on behalf of the company / firm.

Seal of the firm.

N.B: 1. To be attested by Notary Public

2. Only to be submitted by the approved supplier / tenderer to the consignee and a copy to the purchaser before release of payment.

3 At stamp paper Rs 50/-

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Authorized Signatory

Name :

Designation:

## **Financial Bid**

Financial Bid shall comprise of following forms:

- Form F1: Financial Bid Compliance Sheet
- Form F2: Covering Letter for Financial Bid
- Form F3: Statement of Commercial Deviation
- Form F4: Financial bid format



## Form F1

### Financial Bid Compliance Form

<b>S. No.</b>	<b>Particulars</b>	<b>Prescribed form</b>	<b>Compliance Yes/No</b>
1.	Covering Letter for Financial Bid	Form F2	
2.	Statement of Commercial Deviation	Form F3	
3.	Financial bid	Form F4	

## **Form F 2**

### **Bid Letter (Commercial) Template**

Date: dd/mm/yyyy

To,

CHIEF MEDICAL AND HEALTH OFFICER.NCD -NPCDCS PROGRAMME

Raipur Chhattisgarh

**Reference:** Tender Number ..... Dated .....

Sir,

We hereby declare:

- i. We are the authorized agents of the manufacturers of the CCU equipment proposed in our solution.
- ii. That we / our principals (manufacturer) are equipped with adequate maintenance and service facilities within India for supporting the offered equipment. Our maintenance and service facilities are open for inspection.

We do hereby undertake that, in the event of acceptance of our bid, the supply of equipment and commencement of CCU interiors work shall be made as stipulated in the schedule of delivery forming a part of the attached technical bid.

In the event of acceptance of our bid, we do hereby undertake that:

- i. To supply the equipment and commence CCU interiors work as stipulated in the schedule of delivery forming a part of the attached technical bid.
- ii. We affirm that the prices quoted are inclusive of delivery, installation, and commissioning charges and all sales/service taxes. (Octroi and any local levies will be charged on actual on submission of proof of remittance.)

We agree to abide by our offer for a period of 180 days from the last date of submission of commercial bid and that we shall remain bound by a communication of acceptance within that time.

We have carefully read and understood the terms and conditions of the tender and the conditions of the contract applicable to the tender. We do hereby undertake to provision as per these terms and conditions.

- i. The deviations from the requirement specifications of tendered items and schedule of requirements are only those mentioned in the technical deviation form

OR *(Strike out whatever is not applicable)*

There are no deviations from the requirement specifications of tendered items and schedule of requirements.

- ii. The commercial deviations of tendered items are only those mentioned in F3.

OR *(Strike out whatever is not applicable)*

There are no commercial deviations.

- iii. The deviations from the terms and conditions of the tender are only those mentioned in technical deviation form

OR *(Strike out whatever is not applicable)*

There are no deviations from the terms and conditions of the tender.

We do hereby undertake, that, until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and notification of award of contract, shall constitute a binding contract between us.

\_\_\_\_\_  
**Signature of Bidder (with official seal)**

**Date**

**Name**

**Designation**

**Address**

**Telephone**

**Fax**

**E-mail  
address**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Form F 3**

**Statement of Commercial Deviation from Requirement Specifications**

Date: dd/mm/yyyy

To,

CHIEF MEDICAL AND HEALTH OFFICER.NCD -NPCDCS PROGRAMME

Raipur Chhattisgarh

**Reference:** Tender Number ..... Dated .....

Sir,

There are no commercial deviations (null deviations) from the requirement specifications of tendered items and schedule of requirements. The entire work shall be performed as per your specifications and documents. OR (*Strike out whatever is not applicable*) Following is the exhaustive list of commercial deviations and variations from the requirement specifications of tendered items and schedule of requirements. Except for these deviations and variations, the entire work shall be performed as per your specifications and documents.

S. No.	Section No.	REQ No.	Page No.	Statement of deviations and variations
1.				
2.				

\_\_\_\_\_

Authorized Signatory

Name :

Designation:

## Form F4

### Financial Bid

S. No	Particulars	Price (INR)	Applicable taxes (VAT, service tax etc.)	Total (INR)
1	Bid price for supply and installation of CCU equipment <b>(A)</b>			
2	Bid price for design, procurement and completion of the CCU interiors <b>(B)</b>			
3	Bid price for the supply and installation of CCU furniture <b>(C)</b>			
	<b>Total Pay outs</b>	<b>A + B +C =</b>		<b>Grand total</b>

Note:

The final total price column should be inclusive of all duties and taxes.

Final price should be inclusive of installation, training, service support and warranty

- **Payment terms and Payment Mode**

**A) Payment Mode :**

All payment to the contractor will be through Electronic Mode by direct transfer to Bidder Bank Account.

Bidder needs to submit RTGS / NEFT mandate form duly attested by the bidder bank.

Bidder needs to submit a cancelled cheque for Electronic transfe

**B) Payment Terms**

**Prior to initiating any payment, the bid winning bidder has to have an MoU (contract) signed with Purchaser.**

i) No mobilization advances shall be paid.

ii) A) Payment against supply and installation of CCU equipment (A):

a. Delivery and Installation and commissioning in sequence of process of completion of CCU turnkey project : 80% of (A)

B) Payment against design, procurement and completion of CCU interiors:

- a. Submission and acceptance of designs, drawings, bill of materials and implementation plan for the CCU interiors after certify by purchaser: 10% of (B)
- b. Supply of materials and after 50 % of work certify by purchaser/government architect 30% of (B)
- c. Supply of materials and after 50 % of work certify by purchaser/government architect 10% of (B)
- d. Completion of interior construction activity: 30% of (B)

C) Payment against supply and installation of CCU furniture (C):

a. Delivery and Installation: 80% of (C)

D) Payment against supply and installation of Gas pipeline Work (D):

a. Delivery and Installation AND Commsioning of Gas pipeline Work: 80% of (D)

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**Annexure -I -EMD FOR CARDIAC  
CARE UNIT (CCU) –TURNKEY  
PROJECT**

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<b>SN</b>	<b>Equipment Code</b>	<b>Name of Equipment</b>	<b>Department Name</b>	<b>Quantity required</b>	<b>EMD</b>
1	NCD/CCU /EQP/0001	CARDIAC CARE UNIT -Turnkey Project	Dist.hospital	1	450000

**ANNEXURE – III  
DECLARATION FORM**

I / We .....having My / our  
.....office  
at.....do declare that I / We have  
carefully read all the terms & conditions of tender of the ....., NCD-NPCDCS  
PROGRAMME, for the supply of ..... The approved rate will remain valid for  
a period of one year from the date of approval. I will abide with all the terms & conditions set forth in  
the tender paper Reference no. ....

I/We do hereby declare I/We have not been de-recognized / black listed by any State Govt. /  
Union Territory / Govt. of India / Govt. organization / Govt. Health Institutions for supply of Not of  
Standard Quality (NSQ) items / part-supply / non-supply. I/We agree that the Tender Inviting  
Authority can forfeit the Earnest Money Deposit and or Security Deposit and blacklist me/us for a  
period of 5 years if, any information furnished by us proved to be false at the time of inspection /  
verification and not complying with the Tender terms & conditions.

I / We further declare that I / We possess valid manufacturing license / authorized distributor  
bearing no. ....Valid upto..... I / We  
..... do hereby declare that I /  
we will supply the \_\_\_\_\_ as per the terms, conditions & specifications of the tender  
document. I / we further declare that I / we have a service centre / will establish a service centre within  
one month of installation of the equipment in Chhattisgarh.

Signature of the bidder:  
Date :

Name & Address of the Firm:



**ANNEXURE – IV**  
**MANUFACTURER'S AUTHORISATION FORMAT**

To  
CMHO, NCD-NPCDCS PROGRAMME

Chhattisgarh, Raipur

Ref: \_\_\_\_\_.

Dear Sir,

We \_\_\_\_\_ who are established and reputed manufacturer's of (name and description of items offered) having factories at (Address of Factory) do hereby authorize M/s (Name and address of Distributor / Agent) to submit a bid and sign the contract with you against the above referred tender. We also extend our full guarantee for the items quoted by M/s. \_\_\_\_\_ as per the terms and conditions in your tender under reference above.

Yours faithfully,

Name of the Manufacturer  
(Signature with seal)

Note: This letter of authority should be on the letter head of the manufacturer and should be signed by a person competent and having the power of attorney to bind the manufacturer. It should be included in the bid submitted by the tenderer if the tenderer is not the manufacturer.

**ANNEXURE - V**  
**TOTAL TURNOVER CERTIFICATE**  
**AFFIDAVIT**

To  
CMHO, NCD-NPCDCS PROGRAMME  
Chhattisgarh, Raipur

We hereby certify that M/s\_\_\_\_\_ (the name of participant in the tender) who is participating the tender for supply of Medical equipments called by Chief Medical & Health Officer , NCD-NPCDCS PROGRAMME . Chhattisgarh, Raipur having their office at \_\_\_\_\_(Address of office) has a sales turnover given as below :-

Turnover in the year of 2010-2011.	RS.
Turnover in the year of 2011-2012.	RS.
Turnover in the year of 2012-2013.	RS.

The above information is correct and true.

CHARTERED ACCOUNTANT

**The document should be certified by the Chartered Accountant.**

NOTE: The turnover of other than participant will not be accepted.

**ANNEXURE - VI**  
**Performa for Performance Statement**  
 (Supplies within last 3 years)

**Name of the Firm**

Sl. No	Order placed by (Full Address of Purchaser) (1)	Order No. and Dated (2)	Description and Quantity of ordered equipment	Value of order	Date of Completion of delivery	Remarks indicating reasons for late delivery, if any	Has the equipment been satisfactorily functioning? (Attach a certificate from the Purchaser/Consignee in format enclosed)
<b>1</b>							
<b>2</b>							
<b>3</b>							
<b>4</b>							
<b>5</b>							

Signature and Seal of the Bidder.....

.....

**Note: Format may be used in landscape, certificates from the purchasers in the format enclosed.**

**Enclosure to ANNEXURE - VI**

To,

CMHO, NCD-NPCDCS PROGRAMME .  
Chhattisgarh, Raipur

We hereby acknowledge that M/s ..... (the name of participant in the tender) having their office at.....(Address of office) is associated with us Since..... They have supplied us ..... (Name of the equipment). We certify that the Equipment supplied and post supply service of the Agency is satisfactory.

**Signature:**  
**Seal**

**Note: This certificate should be in letter head of issuing agency.**

**ANNEXURE – VII  
NON BLACK LISTED AFFIDAVIT**

I / We .....having My / our  
office at .....  
eat.....

.....do hereby declare I/We have not been de-recognized / black listed by any State Govt. / Union  
Territory / Govt. of India / Govt. organization / Govt. Health Institutions for supply of Not of Standard  
Quality (NSQ) items / part-supply / non-supply of the article  
..... (Equipment code and Name) I/We agree that the  
Tender Inviting Authority can forfeit the Earnest Money Deposit and or Security Deposit and blacklist  
me/us for a period of 5 years if, any information furnished by us proved to be false at the time of  
inspection / verification and not complying with the Tender terms & conditions.

Signature of the bidder:  
Date :

Name & Address of the Firm:

**ANNEXURE – VIII**

**DETAILS OF THE BIDDER & LOCAL CONTACT PERSON**

	Corporate Office (The address in which the purchase orders and payment details will be communicated)	Local Contact Person / Branch Office / Zonal Office / Service Centre if any, in Chhattisgarh.
Name & Full Address		
Telephone Nos., Landline		
Mobile		
Fax		
E – Mail		
Date of Inception		
Manufacturing / Import License Nos. & Date		
Name of the issuing Authority		
License valid up to		

Signature of the Tenderer:

With seal

**ANNEXURE – IX**

**PRODUCT SPECIFICATION**

(To be uploaded in Cover A: Technical Bid)

Equipment Code:

Name/ Description of Equipment:

A	B	C	D
Desired Specification of TIA	Manufacturer's Specification	Deviation	Remark

Note: This form is product/Equipment specific

- Desired Specification should be taken from Annexure – II (Specification of equipments)
- Manufacture/Bidder should quote their specification in Column 'B'.
- Column 'C' and 'D' should kept blank for evaluation purpose.

**Format may be used in Landscape.**

**ANNEXURE – X**

(Refer Clause No. ITB 7, GCC 14, SCC 1, )

**WARRANTY / GUARANTEE UNDERTAKING**

(To be submitted on Rs.50/- stamp paper)

Tender ref. No. \_\_\_\_\_

Name of the equipment:

Date of Installation:

Name of the Consignee:

Name of the purchaser:

I / we / M/s \_\_\_\_\_ hereby declare that  
i. I / we do Accept / Agree for the warranty / guarantee for 3 years from the date of installation & commissioning and CMC for 5 years after expiry of warranty /guarantee as per this tender clause No. \_\_\_\_\_

ii. I / we will not charge / quote any extra price on account of the above said warranty / guarantee.

iii. I / we do accept / agree to provide uptime guarantee 95% as per this tender clause No. \_\_\_\_\_.

iv. The 3 year warranty is valid from dt. \_\_\_\_\_ to dt. \_\_\_\_\_.

v. The 5 year CMC is valid from dt. \_\_\_\_\_ to dt. \_\_\_\_\_.

Date:

Signature of the competent

authority

Place:

on behalf of the company / firm.

Seal of the firm.

N.B: 1. To be attested by Notary Public

2. Only to be submitted by the approved supplier / tenderer to the consignee and a copy to the purchaser before release of payment.



**ANNEXURE – XI**

**UNDERTAKING**

(To be submitted on Rs.50/- stamp paper)

Tender ref. No. \_\_\_\_\_ Due for opening on \_\_\_\_\_

Name of the equipment:

Date of Installation:

Name of the Consignee:

Name of the purchaser:

Sir,

I / we \_\_\_\_\_ hereby declare that

1. I / we am / are the manufacturers / authorized agents / distributors of\_\_\_\_\_.
2. I / we do accept / agree for the all clauses including the warranty 3 years followed by 5 years CMC and payment terms and conditions of this tender.
3. I / we do hereby confirm that the prices / rates quoted are fixed and are at par with the prices quoted by me / us to Govt. of India / any other state Govt. Hospitals / Medical Institutions. I / we also offer to supply the stores at the prices and rates not exceeding those mentioned in the price bid.
4. I / we agree to abide by my / our offer for a period of 365 days from the date of approval of the tender.
5. I / we have necessary infrastructure for the maintenance of the equipment and will provide all the accessories / spares as and when required (As per clause\_\_\_\_\_).
6. I / we also declare that in case of change of Indian Agent or for any other change, merger, dissolution solvency etc. in the organization of our foreign principles, we would take care of the Guarantee / warranty / maintenance of the machinery / equipment and have provided written confirmation for the same.
7. I / we shall provide assistance to the consignee in clearance and delivery of store at consignee's stores / premises.
8. The demurrage / storage charges, if any, payable to the customs department, due to non-receipt of required documents in time by the hospital / delay due to incorrect entries, mistakes to the documents etc. shall be borne by me / us.
9. I / we have carefully read and understood all the terms and conditions of the tender and shall abide by them.
10. I / we undertake to get the equipment's repaired within 7 days of receiving of the complaint from the indenting hospital / consignee failing which a penalty @ 0.5% of the performance security per day may be deducted from performance security deposited.

Signature of the witness  
Name & address  
Dated

Signature of the Tenderer  
Name & address

Seal of the firm.

N.B: 1. To be attested by Notary Public.

2. Only to be submitted by the approved supplier, tenderer to the consignee and a copy to the purchaser before release of payment.

**ANNEXURE – XII**

(Refer Clause No. ITB 8.6, GCC 11)

**UNDERTAKING FOR SUPPLY OF SPARE PARTS**

(To be submitted on Rs.50/- stamp paper)

Tender ref. No. \_\_\_\_\_

Name of the equipment:

Date of Installation:

Name of the Consignee:

Name of the purchaser:

I / we / M/s \_\_\_\_\_ hereby Undertake that I / we will ensure Uninterrupted supply of adequate spares of ..... (Name and code of Equipment) for at least a period of 10 years. In the event of termination of production of the spare parts, we shall give advance notification to the purchaser pending termination (not less than 2 years) and I/we shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Good. At any time we will provide the required spare parts within a maximum period of 15 days from the notification by the purchaser.

Date:

Signature of the competent authority

Place:

on behalf of the company / firm.

Seal of the firm.

N.B: 1. To be attested by Notary Public

2. Only to be submitted by the approved supplier / tenderer to the consignee and a copy to the purchaser before release of payment.

# ANNEXURE - XIII

## CONSIGNEE RECEIPT CERTIFICATE/ INSTALLATION REPORT

(To be given by consignee and the user of the item)

The following equipments has / have been received in good condition:

Name of item supplied	
Name of the Supplier / Manufacturer	
Quantity supplied	
Purchase Order reference no.	
Serial Nos of equipment supplied	
Name and Address of the Consignee along with tel. no. and fax no.	
Date of receipt by the Consignee	
Date of Installation	
Installation Location at Hospital.	
Accessories supplied and the serial numbers of Accessories	
Training satisfactorily completed Yes/No	
Name and Designation of Personnel trained.	
Date of commencement of warranty	
Date of expiry of warranty	
Stock Book page no. where the items have been entered	
Signature of Authorized Representative of Consignee with date	
Name and designation of the authorized Representative	
Seal of the consignee	

Note: In case of Hospital or for CHC PHC and SHC the Nodal officer (NCD ) will in Incharge of the above concerned would be treated as consignee for receipt of Goods and the User are of the following Hospital ,CHC, PHC and SHC Medical Head incharge.

(Nodal Officer / Office In charge)

(UserDepartment)

**ANNEXURE – XIV  
INFORMATION & INSTRUCTIONS  
TO THE BIDDERS  
FOR**

**CHHATTISGARH GOVERNMENT PROCUREMENT SYSTEM (CGPS)  
Special Conditions & instructions for C- Government Procurement System (CGPS) as  
given in the subsequent pages will prevail over the conditions stated in the tender  
documents in the previous pages, wherever relevant and applicable.**

**1. Registration of the Bidders on Chhattisgarh Government Procurement NCD-NPCDCSCMHO, NCD-NPCDCS PROGRAMME**

2. All the bidders in order to participate in the tenders floated using the Electronic Procurement System are required to be registered on NCD Cell ,Raipur

3. **Electronic Payment account:** For Submitting the bids Bidders are required to make payment for Bid Submission fee using the electronic payments gateway service/Demand Draft as mentioned in the payment modes. The bid submission fee is over and above the Tender Processing fee and EMD to be paid as per Cover 'A', while bid submission manually

4. **Payment for submission of bids :** The tender documents may be downloaded directly by eligible Bidders. The Bidders are required to make the payment for bid submission through payment modes mentioned in *Point No. 3* above.

The suppliers can submit the bids by making payment of submission fees using the service of the secure electronic payments gateway/demand draft, and should print out the system generated receipt if any for their reference which can be produced whenever required.

Submission of bids, EMD and other documents will be governed by the time schedule given under “Key Dates” on the Procurement System portal for the particular tender.

5. **Tender Download:** Eligible Bidders can download the Tender Document

6. **Submission of actual bids:** Suppliers have to submit and sign their bids within the date and time as stated in the tender schedule (Key Dates). The bids of only the suppliers who have submitted their bid seals within the stipulated time, as per the tender time schedule (Key

Dates), will be accepted by the system. A supplier who does not submit his bid seal within the stipulated time will not be allowed to submit his bid.

- 7. Submission of Earnest Money Deposit:** The bidder will be required to submit their Tender processing fee and Earnest Money Deposit by way of E-transfer/Demand Draft to the Bank Account details as mentioned as per clause (iii) of Section 3 General Conditions of this tender document. In case the bidder is exempted from submitting EMD, the exemption certificate should be provided by the bidder. The Supplier will also provide scanned copy of EMD Transfer receipt along with other details during bidding under Cover A .
- 8. Opening of Tender documents:** The authority receiving the tenders or his duly authorized officer shall first open the "Cover A" of all the bidders and check for the validity of Tender Processing Fee & EMD as required by NCD-NPCDCSCMHO, NCD-NPCDCS PROGRAMME. In case, the requirements are incomplete, the Technical Bid as submitted in Cover A of the concerned bidder received shall not be opened.

The authority shall then open the tenders submitted by the suppliers through the NCD-NPCDCSCMHO, NCD-NPCDCS PROGRAMME before the purchase committee . In the event of a mismatch, the tender in question will be rejected after a due process of verification by NCD-NPCDCSCMHO, NCD-NPCDCS PROGRAMME.

- 9. Fill Negotiated Rates:** The successful bidder may have to fill in Negotiated Rates if so required during this Process. In case of no negotiation or no change in rates successful bidders need to complete the Fill Negotiated Rates stage.
- 10. Key Dates:** The suppliers are strictly advised to follow the tender schedule (Key dates) for their side of tasks and responsibilities to submit their bids, as the system is time and date locked.

NOTE:

- Select the product for which bid to be quoted and calculate EMD.

- Make RTGS/DRAFT payment for EMD and Tender processing Fee
- Detail of RTGS/NEFT Payment :

Account Name : **DISTRICT HEALTH SOCIETY (NCD )**  
**Account No** : **SBI A/C NO.32500800863**  
**Bank Name** : **State Bank of India, Kutchery Branch, Raipur. CG**  
IFSC/RTGS code: **SBIN0004571**

Provide relevant documents in cover A and B (as indicated in ITB Clause 4 and SCC clause 14)

# ANNEXURE – XV- Along with F1 –F4

## FORMAT OF TABLES TO BE FILLED IN COVER B

Item wise price (Ultimate cost to purchaser)

Table C-1

SI No.	Equipment Code	Equipment Name	No. of unit	Price/unit in figure (UCP)	Price/unit in Words (UCP)	Total Price in Figure

**Note:**

**UCP:** Ultimate cost to purchaser, it includes price of equipment, packing, transportation, incidental charges, all forms of taxes, installation - commissioning, turnkey, training and services within warranty period as described in tender conditions.

Cont...



**Table C-2**

**Price Schedule for Medical Equipment along with Furniture**

1	2	3	4	5							6	7
				PRICE FOR EACH UNIT								
Equip ment Code.	Item Description	Quantity & Unit	Country of origin	Ex-factory Ex- warehouse Ex- showroom off-the shelf  (a)	Excise duty if any  (b)	Packing & forwarding  (c)	Inland transport, Insurance, Handling, Installation ,Turn Key and Incidental costs incidental to delivery  (d)	Incidental services as listed in clause 6 of SCC  (e)	Customs duty  (f)	CST/ VAT/ Sales/ Octrai duty and other taxes payable if contract is awarded  (g)	Unit price a+b+c+d+e+f +g Ultimate Cost to Purchaser UCP/Unit	Total price per schedule for delivery at final destination (3 x 6)

Cont..

**Item wise cost for CMC after warranty period.**

**Table C-3**

S. No.	Equipment Code	Name of Equipment	CMC	
			Year	% of quoted price
1			1 <sup>st</sup>	
			2 <sup>nd</sup>	
			3 <sup>rd</sup>	
			4 <sup>th</sup>	
			5 <sup>th</sup>	

**ANNEXURE – XVI**

**FORMAT FOR SUBMITTING LIST OF ITEM WITH SCOPE OF WORK FOR WHICH BID IS QUOTED**

<b>SI No.</b>	<b>Equipment Code</b>	<b>Name Of the Equipment</b>	<b>EMD</b>
1			
2			
3			

**Total EMD Paid:**

**UTR / RTGS/Draft Transaction No:**

To be submitted in letter head of the bidder.