



**STR-D2/326/PHARMACY/COOLER/2019-20**

**14/10/2019**

Dear Sir,

**Subject:** Quotation for Walk in cooler.

With reference to subject cited above, kindly make arrangements to send your Quotation/Proforma Invoice in a sealed cover to the undersigned for the supply of the following item/s as detailed below on or before **October 31<sup>st</sup>, 2019** positively by post/ courier/Hand. Quotation sent by Fax/mail will not be accepted. Please enclose the copies of your GST,Tin Number, Pan Number.

| Sl No | Item  | Qty | Contact   |
|-------|---|-----|---|
| 1     | 2-8 degree celsius walk in cooler,<br>Specification: As per the Annexure-A  | 1   | Any technical clarification may be contacted at BME , Smt Sindhu. M.G., Ph-26995221/5700/9480829700 |
| 2     | 8-24 degree celsius walk in cooler,<br>Specification: As per the Annexure-A | 1   |   |

Warranty-5 years. Price quoted should be inclusive of all taxes, installation, commissioning,etc.

**Enquiry Schedule**

|   |  |
|---|--|
| Downloading of enquiry documents from website | <a href="http://www.nimhans.ac.in">www.nimhans.ac.in</a> in tender |
| Clarification for the tender                  | 28.10.2019 by 4.00 pm.   |
| Quotation submission last date                | 31.10.2019 by 4.00 pm.   |

**Note:**

1. Sealed quotation has to be submitted only by either manufacturer of the articles or the authorized local supplier of the manufacturer. Copy of authorization letter has to be enclosed.
2. Quantity of items may be increased/decreased as per requirement
3. Item wise price, taxes, any surcharges (such as transportation, installation, customs duty, etc.), grand total, warranty, delivery period, contact person details (such as Mobile No., E-mail, local supplier address) should be clearly mentioned and the price mentioned should be door delivery price.
4. The unit quoted should have service support for **5 years warranty**.
5. Price quoted, should be valid for **1 year**
6. Mention our Reference No. and due date on envelope cover

7. Payment terms: No advance payment will be made. Payment will be released only after successful installation & commissioning in all formats and handing over the furniture/equipment to the Enduser.
8. Enclose the copies of your GST Number & PAN Number, Bank details, without these your quotation will be rejected.
9. Mention the warranty period and delivery period of the item.
10. Quotation must be submitted along with relevant documents counter signed along with seal by the bidder (if applicable such as authorization certificates, Item supplied list of Institutes/Hospitals, catalogues etc.). If not submitted quotation will be treated as incomplete and may be rejected.
11. If the purchase of article is approved by the institute, the article should be supplied/installed within the delivery period quoted else penalty will be levied as per institute rules
12. Sealed quotation shall be addressed to **THE SPECIAL OFFICER(E),PURCHASE SECTION, NIMHANS, HOSUR ROAD, BENGALURU – 560 029**
13. Quotation received after last date and time will not be considered under any circumstances.
14. However, the institute reserves the right to accept or reject any/all quotations without assigning any reason whatsoever.
15. For equipments worth Rs. 2,00,000/- and above, Agreement has to be executed on Rs. 200/- stamp paper (Specimen will be provided with purchase order) and Bank Guarantee has to be executed from a Nationalized Bank for 10% of total value valid for a period of 60 days beyond the warranty period, else payment will not be processed .

**Yours faithfully**

**Sd/-**

**Special officer (E)**

## Annexure-A

### TECHNICAL DETAILS

**1. Application:** Works Contract for “Design, Fabrication, Supply, Testing, Installation and Commissioning, of TWO TYPES Pharma Application Cooler Room, with data Logger

Make POL – EKO -APARATURA/ MADGE TECH / VACKER) & Make (B&K / VACKER / DICKSON Data monitoring system),

Cooler should be made of high quality Insulated sheets of S.S 304 Grade (Inside), S.S 304 Stands with High performance wheels, Racks & tables, Should be set up inside of the cold room

**2. Scope of Work :** Works Contract for “Design, Fabrication, Supply, Testing, Installation and Commissioning, of Pharma Application Cooler Room, with data Logger & Data monitoring system, with high quality Insulated sheets of S.S 304 Grade (Inside)

### Detailed Specifications:

#### TYPE -01 (+2 deg C to +8 deg C)

1. Pharma Cold Room Size (External) Standard: COOLING ROOM: IN FT L 16’ X W 8’ X H 9’ (Approx.)
2. Lamination (For Wall & Ceiling):PPGI on Outside/ 304 grade Stainless steel on INSIDE.
3. Insulation: Pre-Fab Modular PUF Panels (42 KG / M3 ) Fire Proof Thickness of Insulation 80mm Type of Insulation for Floor 80mm PUF panel with GI anti-skid on top finish.
4. Door Size & Type: PUF –Flush in type with 34” x 78” clear opening with accessories: Anti-condensation, Door Heater, Pad Lock System, Posi seal Closure, Human Safety, Release knob.
5. Max. Ambient Conditions : +40 Deg C
6. Product Stored : Pharma products
7. Temperature required in Room : +2 deg C to +8 deg C
8. No. of door openings per day : 20 – 25 times TYPE -02
9. Refrigeration units: 02 set of 10000btu/hr (01 WORKING + 01 STAND-BY) BLUE STAR makes condensing unit and evaporator unit to maintain +2 deg C room temperature at 35 deg C ambient temperature.
10. Data logger : Temperature or humidity data logger with GSM, single channel model dedicated for temperature or humidity measurements in the thermostatic chamber (single channel for one Pt 100 sensor or for one humidity sensor); internal memory (stored data can be downloaded to PC with Easy Lab Professional software); GSM (sends SMS alarms for 2 phone numbers).
11. POL – EKO -APARATURA/ MADGE TECH / VACKER)
12. Defrost type : NA
13. Type of condenser : Air cooled
14. Compressor make : Emerson Copeland
15. Compressor type : Hermetic reciprocating
16. Type of evaporator unit : Forced air cooled

17. Evaporator - MOC SS 304 grade
18. Make of evaporator : Blue Star or equivalent
19. Digital Temperature indicator cum Controller : Provided
20. Internal – Lighting 01 Nos. Vapor-Proof interior light
21. Power Requirement 230 volts, I phase, 50hz
22. Interconnecting between IDU & ODU : Copper pipes
23. Electrical control panels : Provided
24. Emergency Alarm : Provided
25. First charge of refrigerant : Provided

### **TYPE-02 (+8 deg C to +24 deg C)**

1. Pharma Cold Room Size (External) Standard: COOLING ROOM: IN FT L 19' X W 11' X H 9' (Approx.)
2. Lamination (For Wall & Ceiling) Insulation : PPGI on Outside/ 304 grade Stainless steel on INSIDE.
3. Insulation : Pre-Fab Modular PUF Panels (42 KG / M3 ) Fire Proof
4. Thickness of Insulation : 80mm
5. Type of Insulation for Floor : 80mm PUF panel with GI anti-skid on top finish.
6. Door Size & Type : PUF –Flush in type with 34" x 78" clear opening with accessories: Anti-condensation, Door Heater, Pad Lock System, Posi seal Closure, Human Safety, Release knob.
7. Max. Ambient Conditions : +40 Deg C Product Stored Pharma products Temperature required in Room : +8 deg C to +24 deg C
8. No. of door openings per day : 20 – 25 times
9. Refrigeration units : 02 set of 10000btu/hr. (01 WORKING + 01 STAND-BY) BLUE STAR makes condensing unit and evaporator unit to maintain +2 deg C room temperature at 35 deg C ambient temperature.
10. Data logger : Temperature or humidity data logger with GSM, single channel model dedicated for temperature or humidity measurements in the thermostatic chamber (single channel for one Pt 100 sensor or for one humidity sensor); internal memory (stored data can be downloaded to PC with Easy Lab Professional software); GSM (sends SMS alarms for 2 phone numbers).
11. Defrost type : NA
12. Type of condenser : Air cooled
13. Compressor make : Emerson Copeland
14. Compressor type: Hermetic reciprocating
15. Type of evaporator unit : Forced air cooled
16. Evaporator - MOC : SS 304 grade
17. Make of evaporator : Blue Star or equivalent
18. Digital Temperature indicator cum Controller : Provided
19. Internal – Lighting 01 Nos. Vapor-Proof interior light
20. Power Requirement 230 volts, I phase, 50hz
21. Interconnecting between IDU & ODU : Copper pipes
22. Electrical control panels : Provided
23. Emergency Alarm : Provided

24. First charge of refrigerant : Provided

25. DATA LOGGER (Should be measure Below parameters)

- a) MAKE: POL – EKO -APARATURA/ MADGE TECH / VACKER)
- b) Temperature measurement
- c) temperature measurement range (according to sensor) [°C]
- d) temperature measurement range (according to sensor) [°F]
- e) resolution / accuracy of temperature measurement [°C]
- f) humidity measurement
- g) humidity measurement range [%]
- h) resolution / accuracy of humidity measurement [%]
- i) air pressure measurement
- j) pressure measurement range [hPa]
- k) Resolution / accuracy of pressure measurement [hPa]
- l) quantity of phone numbers for SMS notification
- m) GSM frequency
- n) weight [g]
- o) display (LCD)
- p) battery life
- q) power supply
- r) interface additional (external) memory
- s) internal memory
- t) data record interval [min]

1. DATA MONITORING SYSTEM MAKE : B&K / VACKER / DICKSON All above parameters Should be accessible in the Datalogger, for safety purpose

2. S.S Tables

- a) S.S 304 Matt PVS Company Polished, PIPE and Sheets Should be Use.
- b) 1.5 FT Opened Racks with Two side Cover Qty 3ft X 5ft (Approx.)
- c) 2 Ft X 1 Ft tables With Three to Four Steps Along with the name hold Board

3. Final acceptance criterion

Physical verification of all items as per the technical specifications. Satisfactory performance trials at site as per the standards. The standard procedure to measure the Make, Workmanship quality, Quality Of the material,

4. Fabrication

4.1 All fabrication shall be as per ASME Section VIII Div. 1

4.1.1 Welder Testing certificate should be Attach Along with the technical Bid

4.2 All welding shall be by SMAW / TIG welding only. Welding procedure and welders shall be qualified as per as ASME SECTION IX Prior to production welding.

4.3 Prior to actual production, fabrication drawings and welding procedures shall be approved by NIMHANS.

5. Inspection & Quality Control

5.1 Supplier shall submit the detailed Working procedure & diagram along with the offer. This shall include:

1. Material Test certificates shall be required w.r.t:

- A. Chemical composition
- B. Ultimate tensile strength, Yield Strength
- C. Bend test
- D. Material test Certificate

All tests shall be arranged by supplier at their own cost.

Fabrication and inspection shall be as per ASME section VIII Div-1 and all NDT procedures as per ASME Section V.

5.2 All butt weld joints in Ultrasonic Cleaning tank shall be 100% radio-graphed.

Detailed fabrication drawing indicating weld configuration, location, weld joint identification etc. shall be submitted prior to taking up the production.

5.3 Supplier shall provide all necessary instruments, tools and documents etc. conduct the checks.

5.4 Time schedule: The firm shall submit time schedule for the following for timely completion of the order.

5.5. Fabrication drawings/ Fabrication schedule.

5.6. Quality assurance plan & stage wise inspection schedule.

5.7 Welding schedule and Welder's qualification.

Experience Criteria:

Supplier should have the previous experience of Design, Erection and Commissioning of Pharmaceutical Cold rooms along with IS Standard quality assurance plan and shall have to provide documentary evidence for the same while requesting for the site visit/ Technical Evaluation. The quotations submitted without documentary evidences of relevant experience will not be considered under any circumstances.

5.8 Cyclopentane: Eco Friendly Blowing Agent

PUFF Blowing agent should be "Cyclopentane

5.9 Gap between the Two panel Should be Minimum 3 MM

5.10 Locking system: Precision Locking mechanism With Long life Product Design: With two sets of Keys

5.11 Control System: Microprocessor based Controller power panel box With Digital Operating system HACCP Provisioned (Should be available in Select mode) Installation Should be Organized by Proper man Power with Engineering workmanship and 10 Years Service Support Should be available for all spares