

ENQUIRY

Ref: NCB/FR17-18/162648

November 03, 2017

Dear Sirs

Please let us have your Quotation for the following:

| S.No. | Item Code | Description | Qty | UOM |
|-------|-------------|---|------|-----|
| 1 | LCFCA000004 | Heavy duty Fire retardant optimizer : Single sided fixed unit of Size: 4575mm (L) x 457 mm (D) 2100mm (H) as per specification enclosed. (915mm (W) of each bay x 5nos) .Complete with necessary accessories and specification enclosed. | 1.00 | SET |
| 2 | LCFCA000005 | Double sided driven unit of Size: 4575 x mm (L) x 915mm (D) x 2100mm (H) as per specification enclosed and complete with necessary accessories and hardware | 3.00 | SET |
| 3 | LCFCA000006 | Single sided driven unit of Size: 4575mm (L) x 457mm (D) x 2100mm (H) and complete with necessary accessories and hardware. As per specification enclosed | 1.00 | SET |
| 4 | LCFCA000007 | Supply and placing of low storage unit comprising of shutter at bottom and drawer at top with granite top. Supply and placing of storage unit along the wall surface to stock heavy equipment on top and inner surface, using double skin CRCA sheet metal with fire retardant coating for boxing shutter and drawer fronts. Complete with necessary accessories like lock, handle, bolt etc as per the specification enclosed Size: 900mm (W) x 580 (D) x 725mm + 150mm skirting + 20mmth granite Granite top: 900mm x 600 depth | 8.00 | NOS |
| 5 | LCFCA000008 | Supply and placing of heavy duty slotted and adjustable open racks supported on MS frame with fire retardant epoxy coating with intermediate shelves at equal intervals (3nos + top bottom). Bottom shelf to be 200mm above from the FFL. Intermediate guard bars on three sides with similar coating to be provided. Complete with necessary hardware and accessories and mounted on lockable castors as per the specification enclosed. size : 900mm(L)x500mm(D)x1800mm(H) | 1.00 | NOS |
| 6 | LCFCA000009 | Supply and placing of overhead storage fixed to the existing masonry wall using double skin CRCA sheet metal for outer boxing, shutter and intermediate shelf. Complete with necessary accessories and hardware like lock, handle etc as per the specification enclosed. Size : 900x350x725mm | 8.00 | NOS |
| 7 | LCFCA000010 | Supply and placing multi purpose table in Archive storage space using metal frame for supports with fire retardant epoxy polyester coating mounted and mounted on leveller. Table top is provided with 20mm jet black m/c granite slab with edge polish on all exposed surfaces. Complete with necessary accessories and hardware. Size: 1800mm (L) x 900mm (D) x 750mm (H) | 2.00 | NOS |

| | | | | |
|---|-------------|--|------|----|
| 8 | LCFCA000011 | Heavy duty channels fixed inline with existing floor to move the optimizer with necessary hardwares. Agency should enclose details specification of the product with dimensions & brochure to be enclosed. They should visit NCBS to understand the nature of Job before quoting | 4.00 | RM |
|---|-------------|--|------|----|

1. The bids shall be enclosed in an envelope and due date sealed duly marked Tender for _____ Ref No: 162648. The bids should be addressed and to be mailed to 'THE HEAD-PURCHASE'.

The bids are liable to be rejected if the sealed envelope is not addressed to "THE HEAD-PURCHASE" with Tender Ref No. and Item Description and due date. The bids delivered in person shall be dropped in Purchase Section. If the bids are sent through courier or mail, it should reach by submission date and time and NCBS will not be responsible for the delay.

2. DUE DATE FOR SUBMISSION OF QUOTATION AGAINST THIS ENQUIRY IS 24/11/2017.

3. QUOTATIONS RECEIVED AFTER THE DUE DATE SHALL BE REJECTED.

4. The validity of your quotation should be for 60 days from the due date.

5. All duties, taxes, surcharge and cess as currently applicable must be stated in your quotation, separately. Otherwise your quote is liable to be rejected.

6. Your quotation should indicate delivery period & warranty period.

7. Delivery to be made to our stores. Please indicate charges, if any extra. Transit Insurance should be done upto NCBS Stores.

8. If you are unable to supply the quality, specifications or brand as mentioned in our enquiry, please state so and then offer alternative to quality/specifications.

9. Payment: within one month after delivery & acceptance/satisfactory installation.

10. Please ensure that the enquiry number and the due date is superscribed on the envelope failing which your quotation is liable to be rejected.

11. Since we are a public funded research institution, we are exempted from paying Customs duty (Except ad valorem duty of 5% + 2% Cess and 1% Cus Sec & High Edu. CESS vide Notification No. 51/96 with latest amendments) and excise duty vide Notification No. 10/97 CENTRAL EXCISE dated 01-03-1997 for all scientific equipments, technical instruments, equipments (including computers), their accessories, spares, consumables and software. Hence, please offer your prices

12. If the item is covered under DGS&D rate contract, please quote the rate as per the DGS&D rate contract with xerox copy of the DGS&D order.

13. Any dispute or differences that may arise between the parties shall be referred to the sole arbitration of the Centre Director or his nominees. The decision of the arbitrator shall be final and binding on the parties. The venue for arbitration shall be Bangalore. The provisions of the Arbitration and Conciliation Act, 1996 as amended from time to time shall apply. The courts in Bangalore shall have exclusive jurisdiction to deal with any or all disputes between the parties

Yours faithfully

For and on behalf of

National Centre for Biological Sciences



SAMPATTU K S

Copy to: Prof. / Dr. / Mr. / Mrs. / Ms. / Shri / Smt. SAVITHA (NCB-12P4855)
Your Indent Req. No. SAA1420037 Dated: 02/11/2017 refers.

Remarks:

Sub: Interior Works for Setting up Archive Facility at basement of Eastern Laboratories.

1. Specification for providing Fire Retardant Heavy Duty Optimizer

Driven Type – 5 bays.

- Providing and fixing in position Optimizer (storage solution) of size 915mm x 457mm and height 2100mm in the configuration of 5 bay (as per drawing), comprising of a single static body, twin mobile body and single last body, made out of 0.8thk. CRCA Steel conforming to IS: 513 Gr.D. having 5 loading levels formed by 4 nos. adjustable shelves, finish consisting of fire retardant epoxy polyester powder coating of approved color and shade with a Dry Film Thickness of minimum 40 microns, oven baked with a controlled temperature of 180 deg.C to 200 deg.C, testing of paint to be done for various physical & chemical properties as per IS: 101 and IS 13871 like flexibility (3.25mm), Impact (150 kg,cm), scratch hardness (3.0 kg) , Adhesion test (GT 0), gloss, salts spray for rust resistance (1000 hours), pencil hardness (2H), Erichsen cupping test (8.0mm min) and gas flame test (duration upto 15 minutes), the undercarriage made up of welded frame of HR sheet 3.15mm thk conforming to IS: 10748 suitably fabricated to take the loads based on configuration having centralized locking arrangement, door locking / handles, fasteners, label holders, mounted on guide channels consisting of 'J' section 2mm thk HR sheet & 25mm square bright bar both connected by screws as per the drawing and details etc complete as directed by Architect Incharge.
- **Finish:** The body including shelves are give antirust surface treatment and are powder coated with fire retardant epoxy polyester powder. It involves an 8 step treatment consisting of hot water rinse, knock off degreasing, degreasing, cold water rinse, phosphating, c old water rinse, passivation and dry off oven treatment. Final finish consists of fire retardant epoxy polyester powder coating of approved colour and shade with dry film thickness of minimum 40 microns. The testing of paint is done for various physical and chemical properties as per IS: 101. The material is then oven baked with a controlled temperature of 180 deg.C to 200deg.C.
- **Shelf:**
 - a. **Construction:** It is made of 0.8 thk CRCA steel conforming to IS:513 Gr.D or DD. Its max load bearing capacity is 80 kg uniformly distributed per shelf but depending on configuration it changes. Please refer to the chart mentioned below giving breakup of allowable UDL per shelf as per different configurations. Shelves are mounted on support brackets and shelf level can be adjusted at approx. 25.4 pitch. There are 4 adjustable shelves per body giving 5 loading levels, if no cradle pair is provided for model 1 & 3, and in case of model 2, it is 5 adj. Shelves making 6 loading levels. Bottom shelf to be 200mm above the FFL.



b. Size:

Shelf depth for various options:

| Unit Depth | Shelf Depth – (With Hinged Doors / No Doors) |
|------------|--|
| 457mm | 415mm |

Accessory: File Cradle Pair: For storing Instadex file pockets, cradle pair can be provided in the 457mm deep body (not in 381mm deep unit) as per the requirement of the customer. It consists of 'Z' angle 1.0mm thk sheet and pipe of ½" dia. There will be 5 pairs per body making 5 levels, if no shelf is provided for model 1 & 3 and in case of model 2, it will be 6 pairs of levels.

• **Undercarriage:**

a. **Construction:** The undercarriage is a welded frame made of HR sheet 3.15mm thk conforming to IS: 10748 suitably fabricated to take the loads based on configuration.

b. Size:

Sizes of Undercarriage:

Single Static / Last – 915 x (5 bays) width x 457 (Depth) x 120 (Height)

Twin mobile – 915 x (5 bays) (width) x 915 (Depth) x 120 (Height)

External load carrying capacity per under structure –

PUSH-PULL / MANUAL TYPE Configuration – of 600 Kg. Maximum.

DRIVE TYPE Configuration of 5000 Kg. Maximum.

c. **Finish:** The undercarriage, after pre-treatment, is coated with final finish consisting of fire retardant epoxy polyester powder coat of approved colour & shade with a dry film thickness of minimum 40microns.

- Prince Grey for body / shelf / door & graphite grey for undercarriage / Drive cover.

• **Fittings:**

a. **Centralized locking:** A centralized locking arrangement is provided through locking stiffener mounted onto back of single last unit so that it gets locked on channels when all the units are brought together. The handle lock is of Godrej / equivalent & placed at suitable height. This arrangement occupies a space of 100mm.

When the last unit is Twin movable, hinged doors are provided for the end bodies; so in this case locking stiffener is mounted onto drive unit cover.

Each Drive type units have locking knob near the drive wheel for manual locking of individual units when a person is using those units. Knob shall be pressed inside when units are to be moved. After the unit is moved, before entering into aisle for accessing, the knob shall be pulled out while engaging into one of the holes provided on the disc inside. If the knob does not come out, move the unit slightly so as to bring the hole in line with locking knob for engagement. End stoppers are provided at the end of channels to prevent derailment.

b. **Door locking / Handle:** Hinged door have recessed die cast handle cum lock giving 3 way locking through a lever and shooting bolts.

c. **Fasteners:** The nuts & bolts are galvanized / blackodized / Zn plated.



- d. **Guide Channels:** It consists of 'J' sections 2 mm thk HR sheet & 25 mm square bright bar – both connected by screws. Prior to the embedding of the guide channels with the help of raul plug & screw, the ground has to be in properly levelled condition.
- e. **Label Holder:** Made from 2mm thk clear transparent Acrylic sheet & having outer dimension of 155mm x 106mm
- f. **Movements of the System:** Label holes is achieved mechanically through a PU driven wheel is mounted on a pair of channels. Movement of units achieved by pushing or pulling chrome plated 'C' handle fitted onto 1.6mm thk plate (mounted on each double & single movable units) & rigidly fixed at suitable height on body side. Each movable undercarriage has 4nos. of antifriction ball bearings for rolling onto channels & 4nos. of antifriction ball bearings for guiding between channels & 'J' section.
D4: In this system is mounted on the set of 3 channels. Movement of units is achieved mechanically through a drive wheel and '2 stage Sprocket-Chain' arrangement mounted rigidly onto body side. Each movable understructure is provided with 3 rollers on shaft off driving, 3 antifriction ball bearings for rolling and 4 antifriction ball bearings for guiding between rails & 'J' section.
- g. **Aisle Space:** Generally, for comfortable movements, the clear aisle space kept on the handle / drive wheel side is around 915mm. Also, the aisle for comfortable accessing of inside of units, when rolled apart is around 915mm. Create the aisle space between the required units by moving them one by one & not together.
- h. **Weights:** Dead weight of the system to be considered approx. 125kg. Single Static Drive – 87kg

Two mobile static drive – 190kg. of

Size: a. 900mm (L) x 530mm (D) x 725mm (H) b. Granite: 900mm (L) x 600mm (D)

2a. Floor based storage unit with Metal Skirting:

- Welded cabinet body should be flush face construction with intersection of vertical and horizontal members like LH and RH side panel along with front horizontal channel, back panel and bottom panel.
- It should be relocated anywhere easily as it is an independent unit.
- Cabinet should of square non-sharp edge construction.
- Doors should be assembled with SS-304 hinge assembly.
- Removable back panel should be provided to easily access the service lines running behind the cabinet benches.
- Intermediate horizontal channels should be provided between door and drawer.
- Toe – space of 90mm x 90mm is provided at front-bottom side of cabinet.
- Levelers are provided for easy levelling of welded cabinet.
- Shelf should be eight-bend panel with 20mm height.
- Drawer tray should be of single piece construction. Drawer should be well supported on LH and RH ball side suspension system.
- Steel door and drawer front should be of double wall construction with sound dampening material filled inside.



- Doors should be easily removable and hinges should easily replaceable. Knee space panel should be 22 gauge construction.
 - Storage units to be of the following types:
 - Floor based welded cabinets with metal skirting type of 150mm
 - Castor – based mobile type.
 - **MOC:** MSCRCA: IS-513 (1994)
 - **Thickness:**
 - o LH/RH side panels, shutter front, bottom panel, top front, drawer separator, shelf, alignment channel is of 1.2mm thk.
 - o Removable back panel, shutter cover, Fr.Rack strip, top cover panel is of 0.8mm thk.
 - **Finish:** Fire retardant polyester powder coating.
 - **Handle:** Anodized Aluminium recessed – type, CTC: 160.0mm
 - **Lock:** Units have locking facility with 180° and 10 lever cam lock mechanism
 - **Hinge:** SS Hinge **Screw:** SS 304
- Shutter should be of twin-type construction with sound dampening effect using profill. Shutter cover should be equipped with bump on for sound dampening. Base moulding should be made of PVC with corner clips. Ball side: 500mm (L) (Godrej-Make) (required only for drawer unit). Shutter should have provision of roller catch.
- 2b. Granite:** It should be 20 +/- 2mm thick, jet black granite with edges having chamfer of 4 x 4mm on top side. The overhang on the storage cabinet should be 25mm at the front side and flush at remaining there sides.
- The backing material used for granite should be neoprene mat of 6mm thickness.

3. Heavy duty slotted angle racks on Castors:

Size: 900mm(L) x 500mm (D)x 1800mm (H)

MS angles of 50 x 50 x 16g for supporting main frames, shelves using 0.8mm thk CREA mounted on supports with load bearing capacity of 100kg uniformly distributed. Heavy duty lockable castors.

Surface located with powder coating, fire retardant, polyester epoxy coating of approved shade.

4. Wall mounted over head storage unit: **Size: 900mm (L)x350mm (D) x 725 (H)**

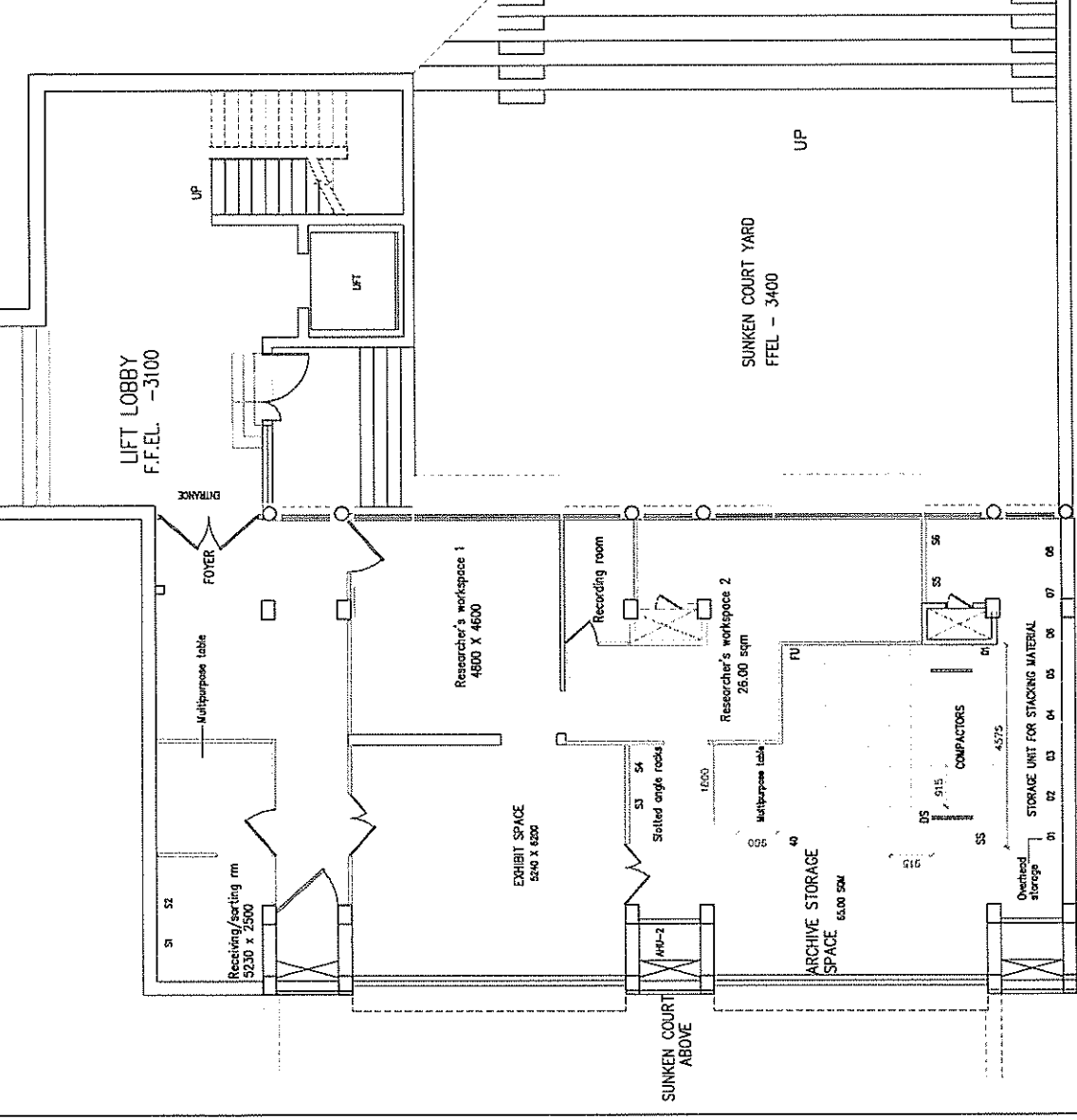
- Flush face construction with intersection of vertical and horizontal members like LH and RH side panel along with front horizontal channel, back panel and bottom panel.
- Cabinet should be of square-edge construction.
- Doors are assembled with SS-304 hinge assy.
- Shelf should be eight bend panel with 20mm height.
- Steel door and drawer front should be of double wall construction with sound dampening material filled inside.
- Doors should be easily removable and hinges are easily replaceable.
- Shutters should have clear glass infill of clear glass with necessary accessories.

5. Multipurpose table: **Size: 1800mm (L) x 900mm (D) x 750mm (H)**

Using 50 x 50mm x 16g MS frames of tata or equivalent make for vertical support and tie frames between vertical supports. Tie frames of 25 x 50 x 16g MS frames at back below table top and top along depth of table. Unit is mounted on Adjustable levellers. MS frames to be coated using fire retardant, polyester epoxy coating. Complete with necessary accessories and hardware.

NOTE:
 1. ALL DIMENSIONS ARE IN MM
 2. ANY DISCREPANCY SHALL BE BROUGHT TO THE NOTICE OF THE ARCHITECT IN CHARGE
 3. DO NOT MEASURE THE DRAWING, READ THE DIMENSION ONLY.
 4. PLEASE CHECK ALL THE DIMENSION @ SITE BEFORE EXECUTION

| NAME | QUANTITY | SIZE |
|--|----------|--------------------------------------|
| COMPACTOR a) Single sided driven unit (SS) | 01 | 4575mm(L) X 457mm (D) X 2100mm(H) |
| b) Double sided driven unit (DS) | 03 | 4575mm(L) X 915mm (D) X 2100mm(H) |
| c) Fixed unit (FU) | 01 | 4575mm(L) X 457mm (D) X 2100mm(H) |
| SLOTTED ANGLE RACKS | 06 | 900mm(L) X 450mm (D) X 1800mm (H) |
| MULTIPURPOSE TABLE | 02 | 1800mm(L) X 900mm (D) X 750mm (H) |
| STORAGE UNIT FOR STACKING MATERIAL WITH GRANITE TOP | 08 | 900mm(L) X 450+150mm (D) X 750mm (H) |
| OVERHEAD STORAGE FIXED TO MASONRY WALL WITH GLASS SCRUBBER | 08 | 900mm(L) X 450mm (D) X 725mm (H) |



AREA : 150SQM

JOB: SETTING UP NCBS ARCHIVES IN BASEMENT OF EASTERN LABORATORIES

ARCHITECT: SAVITHA
 DATE: 03.II.17
 TITLE: FURNITURE LAYOUT PLAN IN ARCHIVE STORAGE SPACE
 DWG NO: NCBS/17/AR-010

SCALE: NTS
 DATE: 03.II.17

AREA: 150 SQM

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