

Date : 13/03/2019

Dear Sirs,

Sl.No	Cat.No	Item Description	Make/Model	Item Qty	UOM
1		Supply , Installation , Testing & Commissioning of Motorized Dampers as per the specifications. Any approved ISI make		13.00	Sq mt
2		10 NM Actuator with control panel for above Motorized Dampers, Any approved ISI make		34.00	Nos.
3		Supply and fixing of SS Hinges. Rate includes making of holes at hinges according to the holes at Cabin and making of thread at Cabin body, Any approved ISI		15.00	Sq mt
4		Modification of existing duct work, Any approved ISI		34.00	Set
5		Supply , Fabrication , installation & Testing of sheet metal ducts (22 G) in accordance with the existing ducts at site in order to accommodate the above mentioned VCD's	-	130.00	Sq.Mt.
6		Supply , Installation , Testing & Commissioning of 230V/24V control transformer	-	34.00	Nos.
7		Supply , Laying , Testing of 20m MS conduits of 1.6mm thickness with ISI mark with proper required accessories.	-	230.00	RMT
8		Supply , Laying , Testing of 3C X 1.5 Sq.MM Copper control cable including terminations. The cable should bear ISI mark	-	230.00	RMT



Ref: INS/L-6261/2018-2019(Y)

Date : 13/03/2019

**Remarks :**

**Note :**

1. The bids shall be enclosed in an envelope , and due date sealed duly marked "Tender for \_\_\_\_\_" Ref No : \_\_\_\_\_. 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 inStem will not be responsible for the delay.

**2. DUE DATE FOR SUBMISSION OF QUOTATION AGAINST THIS ENQUIRY IS  
20/03/2019 till 2.00 p.m.**

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

4. The Validity of your quotation should be for 60 days from the 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 inStem 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 CVD @4% 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 taking this option into consideration.

If the items as per specifications in our P.O. is not supplied (shipped) within the specified delivery schedule, then liquidated damages (not in terms of penalty) will be imposed automatically and shall be deducted from the bill at the rate of 0.5% per week subject to a maximum of 10% of the order value.



Ref: INS/L-6261/2018-2019(Y)

Date : 13/03/2019

**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 Concillation 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 Insitute For Stem Cell  
Biology and Regenerative Medicine



Yesu R

GKVK, Bellary Road, Bangalore-560065,INDIA

Phone No. : 91-80-23666343/344/345/346

Email Id: purchase@ncbs.res.in

Fax : 91-80-23636662

Website : www.ncbs.res.in



**VOLUME CONTROL DAMPERS**

- a. All dampers shall be multiblade type of robust construction of galvanized steel and tightly fitted. The design, method of handling, and control shall be suitable for the location and service required.
- b. Dampers shall be provided with suitable links, levers and quadrants as required for their proper operation control or setting devices shall be made robust, easily operable and accessible through suitable access doors in the ducts. Every damper shall have an indicating device clearly showing the damper position at all times.
- c. Dampers shall be placed in ducts and at each supply air collar, whether or not indicated on the drawings, for the proper volume control and balancing of the system.

**ACTUATORS**

The actuator shall be maintenance free direct coupled spring return type suitable to work on 24 V electric supply. The torque rating of the actuator shall exceed at least by 15% over torque required to open/ close the damper. The selection of actuator size shall be the responsibility of the manufacture of the fire damper. Spring return time shall be 20 seconds or less at ambient temperature. Other features of the damper actuator shall be as under :

- a) Actuator shall have tamper proof housing with IP-54 protection rating.
- b) Actuator shall have mechanical integrity of at least one hour at 900° C.
- c) Actuator shall have minimum 60000 safe position at rated torque. It shall be capable to withstand temperature of 75° C for 24 Hrs.
- d) Actuator shall have electronic over load or digital sensing circuit to prevent damage to actuator.
- e) Should be capable of changing direction of rotation by changing mounting orientation.
- f) Actuator shall have manual over ride facility.

Damper actuator shall be such that it should close the damper in the event of power failure automatically & open in the same manner in case of power being restored.

**3.7.3 CONTROL PANEL**

The Control panel shall be supplied by damper manufacturer fitted on damper compatible with damper actuators. The control panel shall have at least following features:

- a) Power on lamps with 230 V/ 24 V Transformer.
- b) Damper close and open indication.
- c) Reset push button.
- d) Push button for manual running of actuator for periodic inspection.
- e) Auxiliary contacts 24V & 230V.
- f) Contact points to receive signal from smoke detector/fire alarm panel.
- g) Additional terminal shall be provided to have signal (audio or visual) in central control room.

The control panel shall receive 230 V A/C supply & interconnecting wiring between control panel and actuator shall be carried out using fire proof cables.

The Contractor shall ensure that all electrical connections are suitably terminated. The HVAC Contractor shall also check continuity of electrical circuit as recommended by the manufacture. Fire damper inspection door will be provided in AC duct to facilitate access to the system.

