

**Subject : "Annual Maintenance Contract for Fume Hood & allied laboratory furniture, duct etc. at different laboratories of IACS, Jadavpur, Kolkata - 32**

| Sl. No. | Description of Items                                                                                                                                                                                                                                                                                                                                                  | Unit | Rate/Unit (Rs.) | Qty | Amount (Rs.) |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------|-----|--------------|
| 1       | Removing the existing sash (rope with pully) in the Fume Hood and replacing the new one for the system to make in order including labour charges all complete.                                                                                                                                                                                                        |      |                 |     |              |
| a).     | Fume Hlood size : 1800mmx1000mmx1600mm                                                                                                                                                                                                                                                                                                                                | Nos. | 4,600.00        |     |              |
| b).     | Fume Hlood size : 1200mmx1000mmx1600mm                                                                                                                                                                                                                                                                                                                                | Nos. | 4,300.00        |     |              |
| 2       | Removing and replacing new Fume Hood valve (Panel Mounted Water Valve /Panel mounted Nitrogen/air/argon valve/Panel mounted Vacuum valve ) with L-Type nozzle and distance rod with bush (big) for water line including labour charges all complete.                                                                                                                  | Nos. | 4,800.00        |     |              |
| 3       | Replacing the one way new Swan neck Pillar cock (P.P) for counter sink including all other accessories complete.                                                                                                                                                                                                                                                      | Nos. | 5,000.00        |     |              |
| 4       | Replacing the three way new Swan neck Pillar cock (P.P) for counter sink including all other accessories complete.                                                                                                                                                                                                                                                    | Nos. | 9,000.00        |     |              |
| 5       | Replacing the Airflow Monitor AFA1000 (Digital) - 'TEL' UK make.                                                                                                                                                                                                                                                                                                      | Nos. | 36,000.00       |     |              |
| 6       | Repair and remaking of PP + FRP Ducting Chemical resistant PP+FRP (3mm+2mm) rigid & flexible ductwork from Fume Hood to exhaust stack point. The rate is inclusive horizontal and vertical line with other fittings like flanges, bend, support with brackets etc.The measurement taken along the centre line of the finished Ducting pipe line.                      |      |                 |     |              |
| a).     | Duct diameter : 450/300/250 mm                                                                                                                                                                                                                                                                                                                                        | Sq.M | 2,200.00        |     |              |
| 7       | Replacing of Centrifugal Blower, direct drive, continuous rating as per IS:325, chemical & heat resistant PP+FRP blower with aerodynamically balanced impeller, with drain plug, continuous rating as per IS:325 having air suction capacity of 1000 CFM conforming to international face velecidity norms and as per safe Fume Hood airflow pattern.                 |      |                 |     |              |
| a).     | 1.5 / 2 HP Motor 3 Phase with air suction capacity of 1000 CFM (Make Crompton or equivalent.)                                                                                                                                                                                                                                                                         | Nos. | 41,000.00       |     |              |
| b).     | 1.0 HP Motor 3 Phase with air suction capacity of 1000 CFM (Make Croption or equivalent.)                                                                                                                                                                                                                                                                             | Nos. | 39,000.00       |     |              |
| 8       | Dismantling the existing damaged 63mm diameter HDPE drain pipe line and making new line with the same materials including all accessories like bend, tee's, proper clamps etc and necessary cutting of Bricks walls and R.C.C member wherever required, including scaffolding and labour charges and making all good damages as per direction of Engineer -In -Charge | RM   | 800.00          |     |              |
| 9       | Cleaning the existing HDPE waste line for Fume Hoods and Sink Counter including scaffolding and labour charges.                                                                                                                                                                                                                                                       | RM   | 200.00          |     |              |
| 10      | Providing, fitting and fixing S.S. Pipe (6mm diameter) for Gas line including all fittings and fixture like S.S. Tee, bend, 6mm OD PU Tube, clamps, adaptors etc.                                                                                                                                                                                                     | RM   | 1,200.00        |     |              |
| 11      | Replacing flexible waste pipe (32mm diameter) for Fumre Hoods and Sink Counter including all necessary fixtute and labour charges.                                                                                                                                                                                                                                    | RM   | 300.00          |     |              |
| 12      | Supplying, Fitting, replacing the Tube Light inside the Fume Hoods                                                                                                                                                                                                                                                                                                    |      |                 |     |              |
| a).     | Only Tube light including removing the existing one.                                                                                                                                                                                                                                                                                                                  | Each | 400.00          |     |              |
| b).     | Total set of Tube light including removing the existing one.                                                                                                                                                                                                                                                                                                          | Each | 800.00          |     |              |
| 13      | Supplying, fitting and replacing the existing MCB (same make as per the existing) for the running Fume Hood with capacity 16/32 Amp.                                                                                                                                                                                                                                  | Each | 2,500.00        |     |              |
| 14      | Supplying, fitting and replacing the existing Porcelain/S.S/P.P sink with new P.P rectangular black Sink over the existing black granite mathching with top level including filling the gap with sealent between granite and sink with all complete.                                                                                                                  | Each | 4,800.00        |     |              |

| Sl. No. | Description of Items                                                                                                                         | Unit | Rate/Unit (Rs.) | Qty | Amount (Rs.) |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------|-----|--------------|
| 15      | Replacing the old Apparatus storage base cabinet, with one adjustable shelves.<br>Size - 900mm X 700mm X 700mm high                          | Each | 14,000.00       |     |              |
| 16      | Replacing the old Chemical storage base cabinet, with one adjustable shelves.<br>Size - 900mm X 700mm X 700mm high                           | Each | 16,000.00       |     |              |
| 16      | Door Shutters Replacement for Apparatus Storage / Chemical Resistant Storage below the Fume Hoods, Sink Counter.                             | Set  | 4000.00         |     |              |
| 17      | Replace the existing lock, hinge, handle of the door shutters of Apparatus Storage /Chemical resistant Storage / Working Bench/ Sink Counter | Each | 200.00          |     |              |
| 18      | Regulator Repairing Chatges (Labour and Parts )                                                                                              | Each | 2500.00         |     |              |
|         |                                                                                                                                              |      | <b>TOTAL</b>    |     |              |

