

**HVAC Material for annual maintenance**  
Faisalabad Institute of Cardiology, Faisalabad.

| Sr. No. | Specifications  | Qty           |
|---------|---|---------------|
| 1.      | Chillers Descaling Chemicals (Derusting/Descalar)                   | 650 liters    |
| 2.      | Burner servo motor for 16DN060 chiller carrier                      | 1             |
| 3.      | Chiller Burner Relays for chiller carrier 16DN060 (14-PIXS.220V)    | 12            |
| 4.      | Magnetic Contactor 7.5KW  | 2             |
| 5.      | Chiller Burner Controllers for chiller carrier 16DN060              | 2             |
| 6.      | Chiller Temperature Sensors IN8 outside for chiller carrier 16DN060 | 5             |
| 7.      | U-Tube Monometer as per sample                                      | 1             |
| 8.      | Absorber Copper Tube for chiller carrier 16DN060                    | 2             |
| 9.      | Inhibitor Chromate  | 100 kg        |
| 10.     | Inhibitor Nitrate   | 100 kg        |
| 11.     | Lithium Bromide 55% (Chromate based)                                | 500 kg        |
| 12.     | Lithium Bromide 55% (Nitrate based)                                 | 500 kg        |
| 13.     | Octyl Alcohol   | 20 liters     |
| 14.     | Lithium Hydroxide 56%   | 20 kg         |
| 15.     | Descaling Chemical for AHU cleaning                                 | 1500 liters   |
| 16.     | Air filters for all AHUs (List-A)                                   | List attached |
| 17.     | Chemical Dosing Pump as per sample                                  | 2             |

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| 18. | Cooling Tower fills Descaling Chemical                               | 500 liters |
| 19. | Cooling Tower Water Treatment Chemicals                              | ----       |
| a   | Anti-Scalent   | 650 kg     |
| b   | Biocide  | 100 kg     |
| c   | Dispersant   | 300 kg     |
| d   | PH Controller (H <sub>2</sub> SO <sub>4</sub> )                      | 8000 kg    |
| 20. | Berger Epoxy Paint   | 7 Gallons  |
| 21. | Thermometer 0 to 60 Degree   | 10         |
| 22. | Pressure Gauges 4.5" dial 0 to 100 PSIG                              | 50         |
| 23. | Magnetic Contactor 100A  | 1          |
| 24. | Sump Pump for Plant Room Drain as per sample                         | 1          |
| 25. | Ball Valve 2" Brass (For Makeup of cooling Tower)                    | 2          |
| 26. | Ball Valve ¾" (Air Vent Valve for Plant Room)                        | 2          |
| 27. | Vacuum Oil   | 12 Gallons |
| 28. | Bearings 6213ZZ (For Plant Room Pumps) as per sample                 | 12         |
| 29. | Rubber coupling membrane for condenser / chiller pumps as per sample | 48         |
| 30. | Rubber coupling membrane for Air cooled chiller pumps as per sample  | 12         |
| 31. | Refrigerant R22  | 150 kg     |
| 32. | Touch Pad of Air Cool System 30GTN carrier                           | 1          |

