| | CELECTION OF CONTRACTORS FOR INVA | WORKS | /10M CH | 25\ 47 77U 5I 220 2157 | CITY CANDUINA CAD |
|----------|--|-------|---------|------------------------|-------------------|
| | SELECTION OF CONTRACTORS FOR HVAC | WORKS | BOQ | DE) AT 7TH FLOOR, GIFT | CITY, GANDHINAGAR |
| S.NO | DESCRIPTION | QTY | UNIT | UNIT RATE | TOTAL RS |
| PART : A | HVAC System High Side Work for Circle Office Area & Worker amenities | | | | |
| 1 | Supply of Chilled water 4 way cassette unit with 2 row deep coil (12.7 Fins/ich)) with a multiblade cenrtifugal Fan and a 3 speed motor, networkable thermostat and unit to be supplied with drain pump. | | | | |
| а | 1.5 TR | 1 | Nos | | |
| Rates in | words: | | | | |
| b | 1.75 TR | 2 | Nos | | |
| Rates in | | | | | |
| С | 2 TR | 4 | Nos | | |
| Rates in | words: | | | | |
| d | 2.5 TR | 1 | Nos | | |
| Rates in | words: | | | | |
| е | 3.3 TR | 1 | Nos | | |
| Rates in | | | | | |
| | | | | | |
| ** | HIGH SIDE TOTAL BASIC | | | | |
| Amount | in words: | | | | |
| | ALL AMOUNT ARE EXCLUDING GST | | | | |
| | | | | | |

| PART : B | HVAC System Low Side Work for Circle Office Area & Worker amenities | | | SUP | PLY | ERE | CTION |
|-------------------------------|---|-----|------|-----------|----------|-----------|----------|
| | omee area a worker amenices | | | UNIT RATE | TOTAL RS | UNIT RATE | TOTAL RS |
| 1 | Installation, Testing and Commissioning of Cassette Unit | 9 | Nos | | | | |
| Rates in | words for Supply: | | • | • | | | |
| Rates in | words for Erection: | | I | 1 | | | |
| 2 | CHILLED WATER PIPING | | | | | | |
| | Supply, installation, testing & | | | | | | |
| | commissioning of MS class 'C' pipes for | | | | | | |
| | chilled water cut to required lengths and | | | | | | |
| | installed with all welded joints, providing and fixing in position with the necessary | | | | | | |
| | fittings like elbows, tees and reducers, | | | | | | |
| | galvanised supports, PUF saddles where | | | | | | |
| | pipe resting on supports,etc. Pipe flanges | | | | | | |
| | shall be as per IS 6392, PN 16. | | | | | | |
| | For pipe dia upto 150 mm dia shall be as per | | | | | | |
| | IS:1239 class C & for pipe size 200 to 300 | | | | | | |
| | mm dia shall be 6 mm thk and for 350 & | | | | | | |
| | above shall be ERW as per IS:3589 having 8 | | | | | | |
| | mm thk. Insulation shall be nitrile rubber, | | | | | | |
| | 25 mm thick for sizes upto 80 mm. | | | | | | |
| a 3 - t - a - i - a | 25 mm | 145 | Rmt | | | | |
| Kates in | words for Supply: | | | | | | |
| Rates in | words for Erection: | | | | | | |
| b | 32 mm | 71 | Rmt | | | | |
| Rates in | words for Supply: | | | | | | |
| _ | | | | | | | |
| Rates in | words for Erection: | | 1 | | | 1 | |
| С | 40 mm | 10 | Rmt | | | | |
| Rates in | words for Supply: | | | | | | |
| Rates in | words for Erection: | | | | | | |
| d | 50 mm | 46 | Rmt | | | | |
| Rates in | words for Supply: | | | | | | |
| Rates in | words for Erection: | | | | | | |
| | | | | | | | |
| 3 a | Ball valves for the Cassette Units. 25 mm Valve | 16 | Nos | | | | |
| | words for Supply: | 10 | 1103 | | | | |
| | | | | | | | |
| | words for Erection: | 2 | Naa | | | | |
| b Batas in | 32 mm Valve | 2 | Nos | | | | |
| Rates III | words for Supply: | | | | | | |
| Rates in | words for Erection: | | П | T | 1 | | |
| | Supply, installation, testing & | | | | | | |
| 4 | commissioning of PICV with actuator with | | | | | | |
| 7 | matching flanges. | | | | | | |
| a | 25 mm Valve | 8 | Nos | | | | |
| Rates in | words for Supply: | | | | | | |
| Rates in | words for Erection: | | | | | | |
| b | 32 mm Valve | 1 | Nos | | | | |
| Rates in | words for Supply: | | • | | | | |
| | | | | | | | |
| Rates in | words for Erection: | | | | | | |

| | | | I | | | |
|-----------|--|------|---------|----|----------|----|
| | | | | | | |
| | Supply, installation, testing & | | | | | |
| 5 | commissioning of MS Y Strainers with | | | | | |
| | matching flanges. | • | | | | |
| a | 25 mm Valve | 8 | Nos | | | |
| Rates in | words for Supply: | | | | | |
| D-1 : | words for Freedom | | | | | |
| Rates in | words for Erection: | | ı | ı | T | T |
| b | 32 mm Valve | 1 | Nos | | | |
| Rates in | words for Supply: | | | | | |
| | | | | | | |
| Rates in | words for Erection: | | 1 | | 1 | |
| | | | | | | |
| | G.I ducting (120 GSM) with all accessories | | | | | ļ |
| | like Bends, Tees, Reducer, expander, Turning | | | | | |
| | vanes etc. with RTV sealant. Rate shall | | | | | |
| | include all supports, anchor, GI Strut | | | | | |
| 6 | Channel, Threaded Rods , flexible joints, | | | | | |
| | fasteners etc. To make system fully | | | | | |
| | functional. (All the Angles, Channels for | | | | | |
| | support shall be duly painted with anti | | | | | |
| | corrosive paint.) - Rectangular Duct | | | | | |
| а | 18G | 150 | SQMT | | | |
| | words for Supply: | | | I. | I | |
| rtates in | words for Supply. | | | | | |
| Rates in | words for Erection: | | | | | |
| b | 20G | 50 | SQMT | | | |
| _ | | - 00 | 30,1111 | | | |
| Rates III | words for Supply: | | | | | |
| Rates in | words for Erection: | | | | | |
| С | 22G | 320 | SQMT | | | |
| | | 020 | SQIVII | | | |
| Rates III | words for Supply: | | | | | |
| Rates in | words for Erection: | | | | | |
| | | 1060 | CONT | | | |
| d | 24G | 1060 | SQMT | | | |
| Rates in | words for Supply: | | | | | |
| Datas in | words for Erection: | | | | | |
| Rates in | words for Erection: | | | I | T. | T |
| | | | | | | |
| 7 | Insulation of Ducting with 13mm thick fire- | 1350 | SQMT | | | |
| | retardant class 'O' nitrile rubber | | | | | |
| Rates in | words for Supply: | | | | | |
| Dotos !- | words for Erection: | | | | | |
| Rates in | words for Erection: | | | I | T. | T. |
| | | | | | | |
| | Supply&Fixing of Duct liner/Acoustic | | | | |] |
| 0 | (Insulation)of Duct 10mm thickness acoustic | 400 | COLAT | | | |
| 8 | insulation with open cell elastomeric foam | 400 | SQMT | | |] |
| | with anti-microbial protection. | | | | | |
| D-1: : | was als for Ownship | | | | <u> </u> | 1 |
| Rates in | words for Supply: | | | | | |
| Dates in | words for Erection: | | | | | |
| Rates in | WOIGS for Election: | | | | T | |
| | | | | | | |
| | | | | | | |

| 9 | Supply & fixing of supply air/Return air diffuser in Aluminum extruded, powder coated | | | | |
|-----------|---|-----|-------|--|---|
| a | SAD - 600 x 600 (Neck Size-375x375) with collar damper | 13 | Nos | | |
| Rates in | words for Supply: | | | | |
| Rates in | words for Erection: | | | | |
| b | SAD - 600 x 600 (Neck Size-300x300) with | 60 | Nos | | |
| Rates in | collar damper words for Supply: | | | | |
| | | | | | |
| Rates in | words for Erection: | | | | |
| С | RAD - 600 x 600 (Neck Size-375x375) | 31 | Nos | | |
| Rates in | words for Supply: | | | | |
| Rates in | words for Erection: | | | | |
| d | RAD - 600 x 600 (Neck Size-300x300) | 38 | Nos | | |
| Rates in | words for Supply: | | | | |
| Pates in | words for Erection: | | | | |
| rates iii | words for Erection. | | | | |
| | Supply air/Return Air Grill made out of | | | | |
| 10 | extruded aluminum construction powder coated | 13 | SQMT | | |
| Rates in | words for Supply: | | | | |
| Rates in | words for Erection: | | | | |
| 11 | Volume Control Damper | | | | |
| | Opposed blade type volume control damper | | | | |
| a | in aluminum construction for controlling airflow | 4.5 | SQMT | | |
| Rates in | words for Supply: | | | | |
| Rates in | words for Erection: | | | | |
| | | | | | |
| 12 | Fire Control Damper | | | | |
| | (Motorised Fire Damper 16 GI sheet construction, with 16G GI blades 150 mm | | | | |
| | wide complete with chrome plated spindles | | | | |
| | ene to end 12mm dia Jack Shaft, self | | | | |
| | lubricating brass bush, 120 minute fire | | | | |
| | rating, as per UL-555. | | | | |
| a | Fire damper | 4 | SQ MT | | |
| Rates in | words for Supply: | | | | |
| | words for Erection: | | 1 | | |
| b | Limit switch and control panel | 12 | Nos | | |
| Rates in | words for Supply: | | | | |
| Rates in | words for Erection: | | | | |
| | | | | | |
| | | | | | · |

| | | | 1 | 1 | | T | T |
|--------------------------|--|----|-----|---|---|----------|---|
| 13 | VAV (With Integral Sound attenuator)Supply of Pressure independent Rectangular VAV | | | | | | |
| | Elliptical volume control damper,Calibrated differential pressure sensor at inlet | | | | | | |
| 13.1 | complete with controller and Thermostat. (All VAV will be Factory | | | | | | |
| | Calibrated)sizes:Ø125 to 400MM | - | | | | | |
| a D = 4 = - 3 = - | 1500 - 3100 CFM | 2 | Nos | | | | |
| Rates in | words for Supply: | | | | | | |
| Rates in | words for Erection: | | | | | | |
| b | 800 - 1600 CFM | 1 | Nos | | | | |
| Rates in | words for Supply: | | | | | | |
| Rates in | words for Erection: | | | | | | |
| С | 600 - 1100 CFM 16" | 15 | Nos | | | | |
| | words for Supply: | | | | | | 1 |
| | | | | | | | |
| | words for Erection: | | | T | ı | Ī | 1 |
| d D-1 | 0 - 700 CFM 12" | 4 | Nos | | | | |
| Rates in | words for Supply: | | | | | | |
| Rates in | words for Erection: | | | | | | |
| е | 0 - 400 CFM 10" | 9 | Nos | | | | |
| Rates in | words for Supply: | | l. | | • | | 1 |
| D-1 : | a seconda for Francisco | | | | | | |
| | words for Erection: | _ | | | | Т | |
| f Datas in | 0 - 300 CFM 8" | 5 | Nos | | | | |
| Rates in | words for Supply: | | | | | | |
| Rates in | words for Erection: | | | | | | |
| | | | | | | | |
| | Supply,installation,testing and commissioning of plenum boxes with | | | | | | |
| 14 | insulation of the following sizes as | | | | | | |
| | mentioned below | | | | | | |
| а • . | 1210 x 135 x 325 | 14 | Nos | | | | |
| kates in | words for Supply: | | | | | | |
| Rates in | words for Erection: | | | | | | |
| b | 1510 x 135 x 325 | 13 | Nos | | | | |
| Rates in | words for Supply: | | | | | | |
| Rates in | words for Erection: | | | | | | |
| C | 1660 x 135 x 325 | 4 | Nos | | | | |
| | n words for Supply: | • | | 1 | 1 | <u> </u> | 1 |
| | | | | | | | |
| Rates in | words for Erection: | | | | | | |
| | | | | | | | |

| | 1 | | | 1 | | |
|------------|--|------|-------|------|---|-----|
| | | | | | | |
| 15 | Supply,installation,testing and | | | | | |
| 15 | commissioning of insulated flexible duct | | | | | |
| а | 250 mm | 25 | Rmt | | | |
| | words for Supply: | | | | * | |
| | | | | | | |
| Rates in | words for Erection: | | | | | |
| b | 200 mm | 10 | Rmt | | | |
| Rates in | words for Supply: | | | | | |
| Rates in | words for Erection: | | | | | |
| С | 150 mm | 10 | Rmt | | | |
| Rates in | words for Supply: | | | | | |
| rtatoo iii | morae for cappiy. | | | | | |
| Rates in | words for Erection: | | | | | |
| | | | | | | |
| | Supply,installation,testing and | | | | | |
| 16 | commissioning of Z pieces of the | | | | | |
| . • | following sizes as mentioned below. (L x | | | | | |
| а | W x H) 500 mm x 350 mm x 250 mm | 8 | Nos | | | |
| | | - | 1103 | | | |
| Rates III | words for Supply: | | | | | |
| Rates in | words for Erection: | | | | | |
| b | 600 mm x 450 mm x 250 mm | 14 | Nos | | | |
| | words for Supply: | | | | 1 | II. |
| | поласто саррту. | | | | | |
| Rates in | words for Erection: | | | | | |
| С | 750 mm x 600 mm x 250 mm | 2 | Nos | | | |
| Rates in | words for Supply: | | | | 1 | |
| | , | | | | | |
| Rates in | words for Erection: | | | | | |
| d | 2200 mm x 1000 mm x 250 mm | 4 | Nos | | | |
| Rates in | words for Supply: | | | • | • | • |
| | | | | | | |
| Rates in | words for Erection: | | | | | |
| | | - | | | | |
| 17 | Supply,installation,testing and commissioning of 3 slot diffuser | 14.5 | Sq mt | | | |
| Rates in | words for Supply: | | I | 1 | L | 1 |
| | поластол опред | | | | | |
| Rates in | words for Erection: | | | | | |
| | | | | | | |

| g ,Insulation Testing and issioning of XLPE insulated, red Copper conductor (2.5 sq mm for Supply: for Erection: Exhaust Ininstallation,testing and ssioning of rectangular inline fans et exhaust application. FM for Supply: for Erection: | 800 | Rmt | | | | |
|---|---------------|---------------|--------------------------------|--------------------------------|---------------|--------------------------------|
| r,Insulation Testing and issioning of XLPE insulated, red Copper conductor (2.5 sq mm for Supply: for Erection: Exhaust r,installation,testing and ssioning of rectangular inline fans et exhaust application. FM for Supply: for Erection: t Air G.I ducting (120 GSM) with all | | | | | | |
| r,Insulation Testing and issioning of XLPE insulated, red Copper conductor (2.5 sq mm for Supply: for Erection: Exhaust r,installation,testing and ssioning of rectangular inline fans et exhaust application. FM for Supply: for Erection: t Air G.I ducting (120 GSM) with all | | | | | | |
| issioning of XLPE insulated, red Copper conductor (2.5 sq mm for Supply: for Erection: Exhaust Initiallation,testing and ssioning of rectangular inline fans et exhaust application. FM for Supply: for Erection: t Air G.I ducting (120 GSM) with all | | | | | | |
| red Copper conductor (2.5 sq mm for Supply: for Erection: ixhaust installation,testing and ssioning of rectangular inline fans et exhaust application. FM for Supply: for Erection: t Air G.I ducting (120 GSM) with all | | | | | | |
| for Supply: for Erection: ixhaust ininstallation, testing and ssioning of rectangular inline fans et exhaust application. FM for Supply: for Erection: | | | | | | |
| for Erection: Exhaust Ininstallation, testing and ssioning of rectangular inline fanset exhaust application. FM for Supply: for Erection: It Air G.I ducting (120 GSM) with all | 2 | Nos | | | | |
| rinstallation, testing and ssioning of rectangular inline fans et exhaust application. FM for Supply: for Erection: t Air G.I ducting (120 GSM) with all | 2 | Nos | | | | |
| rinstallation, testing and ssioning of rectangular inline fans et exhaust application. FM for Supply: for Erection: t Air G.I ducting (120 GSM) with all | 2 | Nos | | | | |
| r,installation,testing and ssioning of rectangular inline fans et exhaust application. TM for Supply: for Erection: t Air G.I ducting (120 GSM) with all | 2 | Nos | | | | |
| r,installation,testing and ssioning of rectangular inline fans et exhaust application. TM for Supply: for Erection: t Air G.I ducting (120 GSM) with all | 2 | Nos | | | | |
| ssioning of rectangular inline fans et exhaust application. M for Supply: for Erection: t Air G.I ducting (120 GSM) with all | 2 | Nos | | | | |
| ssioning of rectangular inline fans et exhaust application. M for Supply: for Erection: t Air G.I ducting (120 GSM) with all | 2 | Nos | | | | |
| et exhaust application. FM for Supply: for Erection: t Air G.I ducting (120 GSM) with all | 2 | Nos | | | | |
| for Supply: for Erection: t Air G.I ducting (120 GSM) with all | 2 | Nos | | | | |
| for Supply: for Erection: t Air G.I ducting (120 GSM) with all | | | | l | | |
| for Erection: t Air G.I ducting (120 GSM) with all | | | | | | |
| t Air G.I ducting (120 GSM) with all | | | | | | |
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| | | | | | | |
| . 11 5 1 | | | | | | |
| ories like Bends, | | | | | | |
| educer, expander, Turning vanes etc. | | | | | | |
| V sealant. Rate shall include all | | | | | | |
| ts, anchor, GI Strut Channel, | | | | | | |
| ed Rods , flexible joints, fasteners | | | | | | |
| make system fully functional. (All the | | | | | | |
| Channels for support shall be duly | | | | | | |
| with anti corrosive paint.) - | | | | | | |
| | | | | | | |
| gular Duct | 100 | SQMT | | | | |
| for Supply: | 100 | JUIVII | | | | |
| тог опррту. | | | | | | |
| for Erection: | | | | | | |
| | | | | | | |
| ,installation,testing and | | | | | | |
| ssioning of toilet exhaust air grille | | | | | | |
| size mentioned below. | | | | | | |
| 150 | 38 | Nos | | | | |
| for Supply: | | | | | | |
| | | | | | | |
| for Erection: | | | | | | |
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| IDE TOTAL BASIC | | | | | | |
| IDE TOTAL BASIC ds for Supply: | | | | | | |
| ds for Supply: | | | | | | |
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| ds for Supply: | | 1 1 | | | | |
| ds for Supply: rds for Erection: | I CIDE! | | | | | |
| ID | s for Supply: | s for Supply: | s for Supply: Is for Erection: | s for Supply: Is for Erection: | s for Supply: | s for Supply: Is for Erection: |