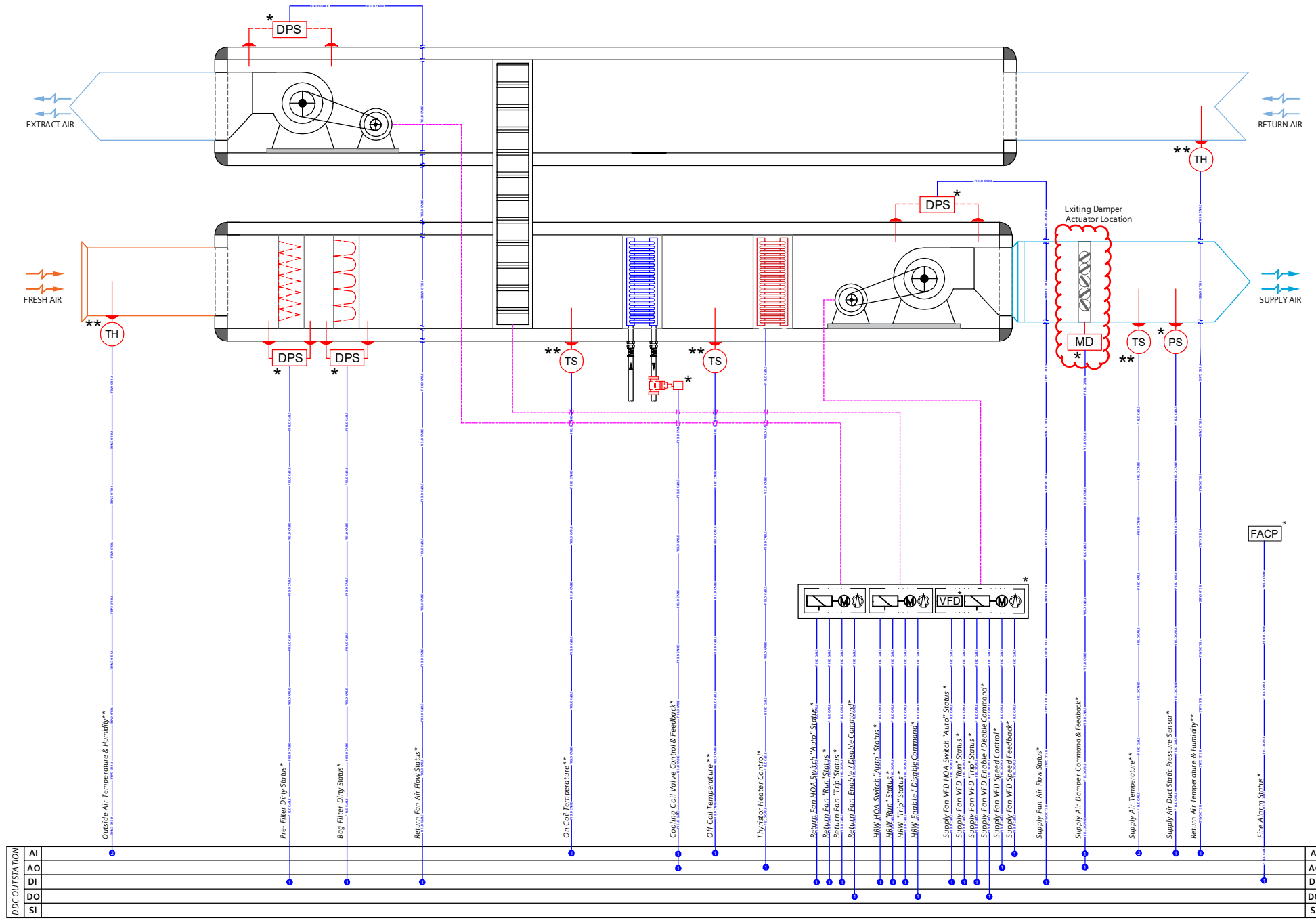


# FRESH AIR HANDLING UNIT

EQUIPMENT REFERENCE: Block - C & Block - D



LEGEND	
TH	TEMPERATURE & HUMIDITY SENSOR
THC	TEMPERATURE, HUMIDITY & CO2 SENSOR
TS	TEMPERATURE SENSOR
DP	DIFFERENTIAL PRESSURE SENSOR
DPS	DIFFERENTIAL PRESSURE SWITCH
PS	STATIC PRESSURE SENSOR
CO2	CARBON DIOXIDE DETECTOR
CO	CARBON MONOXIDE DETECTOR
FM	FLOW METER
FS	FLOW SENSOR
FLS	FLOW SWITCH
TL	TANK LEVEL SENSOR
MD	MOTORIZED DAMPER
MSD	MOTORIZED SMOKE DAMPER
MSFD	MOTORIZED SMOKE / FIRE DAMPER
BTU	BTU METER
ENERGY	ENERGY METER
SPACE	SPACE / ROOM THERMOSTAT
2-WAY	MOTORIZED BUTTERFLY VALVE
3-WAY	MOTORIZED 2-WAY VALVE (RCV TYPE)
VFD	MOTORIZED 3-WAY VALVE
VFD	VARIABLE FREQUENCY DRIVER

CABLE LEGEND	
TYPE A :	ETHERNET LAN CABLE (CAT6)
TYPE B :	BACNET MSTP CABLE
TYPE C :	MODBUS RS-485 CABLE
TYPE D :	FIELD CABLE
TYPE E :	KNX COMMUNICATION CABLE
TYPE F :	LONBUS CABLE

NOTES	
*	PRE-EXISTING FIELD DEVICES / POINTS
**	NEW FIELD DEVICES / POINTS BY SIEMENS
#	REPLACEMENT OF EXISTING FIELD DEVICES

NO	ISSUED FOR APPROVAL	FOR	SH	21.10.2024
REV	DESCRIPTION	CHG BY	CHK BY	DATE

ESCO	SIEMENS INDUSTRIAL LLC
SIEMENS	SMART INFRASTRUCTURE REGIONAL SOLUTIONS SERVICES

CLIENT	DEZ
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PROJECT TITLE	Supply, Installation & Commissioning for BMS Controller at DSO HQ
---------------	-------------------------------------------------------------------

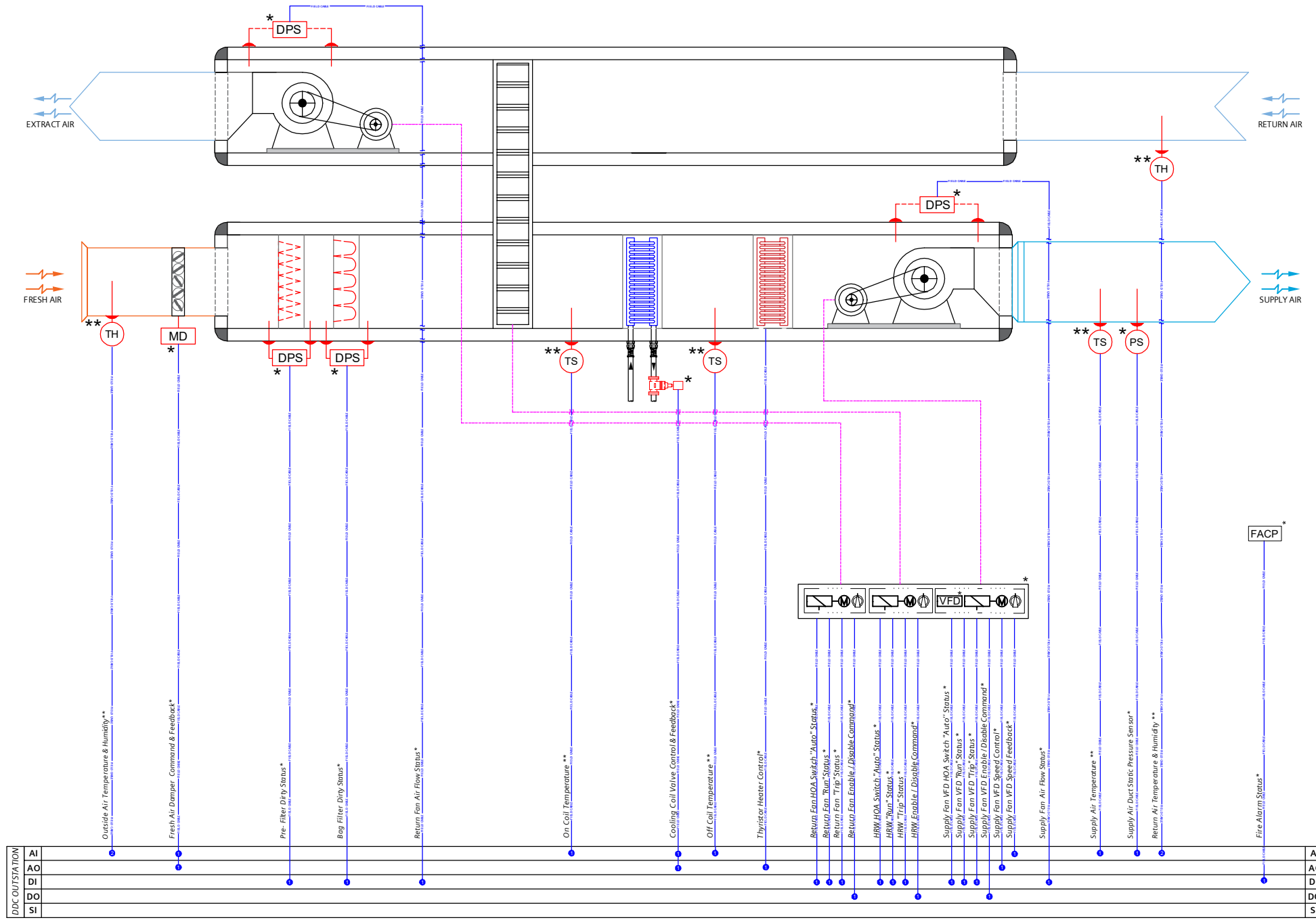
LOCATION	Phase-1 (Left Tower, Right Tower, Mid Tower, Basement Level)
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DRAWING TITLE	Fresh Air Handling Unit (Typical)
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DRAWING NO	SCALE
SMINDWG/OP01751/02A	N. T. S.

# FRESH AIR HANDLING UNIT

EQUIPMENT REFERENCE: Mid Tower Roof (C & D Basement)



LEGEND	
TH	TEMPERATURE & HUMIDITY SENSOR
THC	TEMPERATURE, HUMIDITY & CO2 SENSOR
TS	TEMPERATURE SENSOR
DP	DIFFERENTIAL PRESSURE SENSOR
DPS	DIFFERENTIAL PRESSURE SWITCH
PS	STATIC PRESSURE SENSOR
CO2	CARBON DIOXIDE DETECTOR
CO	CARBON MONOXIDE DETECTOR
FM	FLOW METER
FS	FLOW SENSOR
FLS	FLOW SWITCH
TL	TANK LEVEL SENSOR
MD	MOTORIZED DAMPER
MSD	MOTORIZED SMOKE DAMPER
MSFD	MOTORIZED SMOKE / FIRE DAMPER
BTU	BTU METER
EM	ENERGY METER
ST	SPACE / ROOM THERMOSTAT
MBV	MOTORIZED BUTTERFLY VALVE
M2V	MOTORIZED 2-WAY VALVE (RCV TYPE)
M3V	MOTORIZED 3-WAY VALVE
VFD	VARIABLE FREQUENCY DRIVER

CABLE LEGEND	
TYPE A :	ETHERNET LAN CABLE (CAT6)
TYPE B :	BACNET MSTP CABLE
TYPE C :	MODBUS RS-485 CABLE
TYPE D :	FIELD CABLE
TYPE E :	KNX COMMUNICATION CABLE
TYPE F :	LONBUS CABLE

NOTES	
*	PRE-EXISTING FIELD DEVICES / POINTS
**	NEW FIELD DEVICES / POINTS BY SIEMENS
#	REPLACEMENT OF EXISTING FIELD DEVICES

NO	ISSUED FOR APPROVAL	FOR	SH	21.10.2024
REV	DESCRIPTION	DRW BY	CHK BY	DATE

ESCO	SIEMENS INDUSTRIAL LLC
	SMART INFRASTRUCTURE
	REGIONAL SOLUTIONS SERVICES
	02 925 1234 5678
	02 925 1234 5678

CLIENT	DEZ
	DEZ
	DEZ

PROJECT TITLE	Supply, Installation & Commissioning for BMS Controller at DSO HQ
---------------	-------------------------------------------------------------------

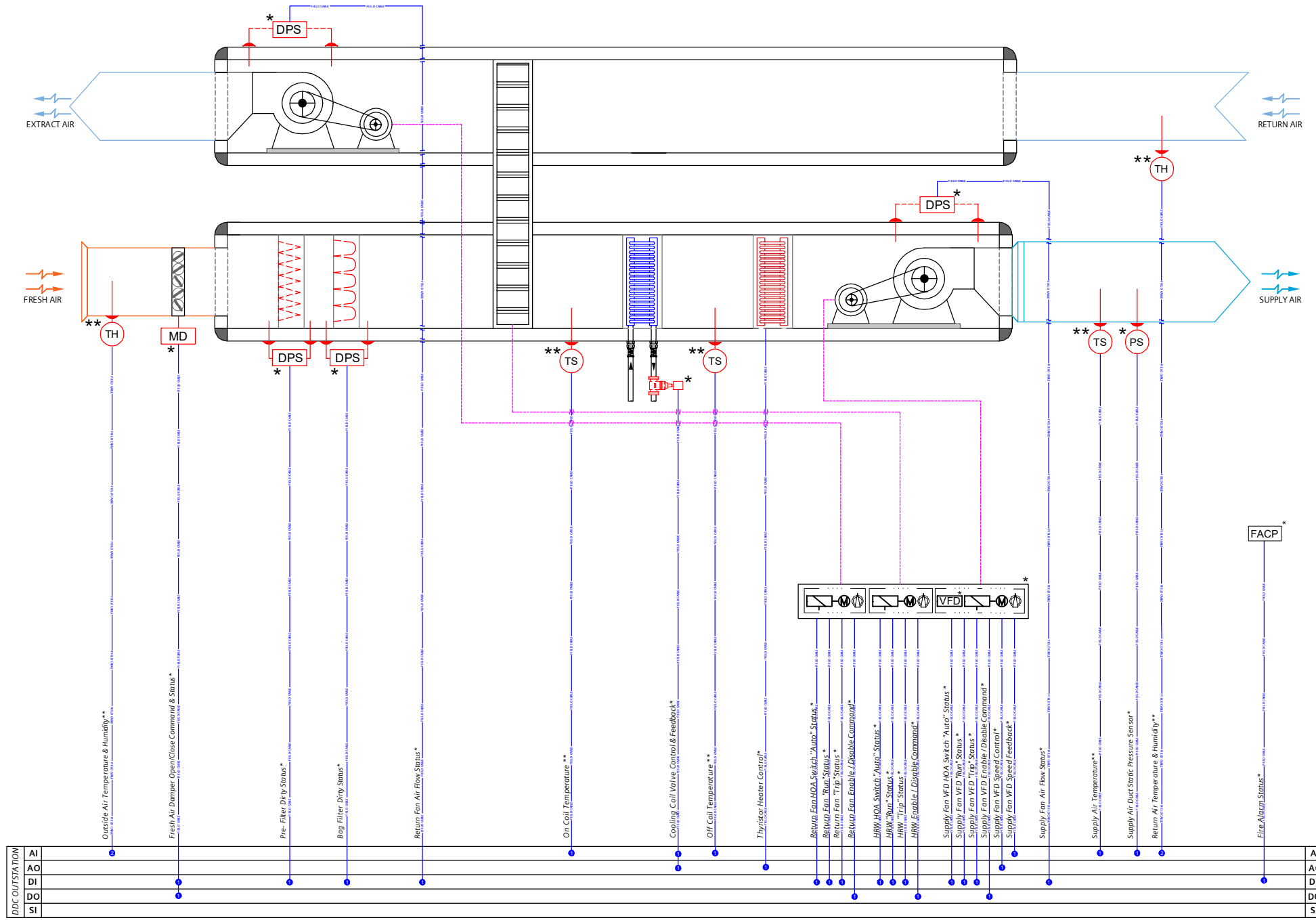
LOCATION	Phase-1 (Left Tower, Right Tower, Mid Tower, Basement Level)
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DRAWING TITLE	Fresh Air Handling Unit (Typical)
---------------	--------------------------------------

DRAWING NO	SMINDWG/OPD1751/02B
SCALE	N.T.S.

# FRESH AIR HANDLING UNIT

EQUIPMENT REFERENCE: Block - A & Block - B



LEGEND	
TH	TEMPERATURE & HUMIDITY SENSOR
THC	TEMPERATURE, HUMIDITY & CO2 SENSOR
TS	TEMPERATURE SENSOR
DP	DIFFERENTIAL PRESSURE SENSOR
DPS	DIFFERENTIAL PRESSURE SWITCH
PS	STATIC PRESSURE SENSOR
CO2	CARBON DIOXIDE DETECTOR
CO	CARBON MONOXIDE DETECTOR
FM	FLOW METER
FS	FLOW SENSOR
FLS	FLOW SWITCH
TL	TANK LEVEL SENSOR
MD	MOTORIZED DAMPER
MSD	MOTORIZED SMOKE DAMPER
MSFD	MOTORIZED SMOKE / FIRE DAMPER
BTU	BTU METER
Energy	ENERGY METER
Space/Room Thermostat	SPACE / ROOM THERMOSTAT
Motorized Butterfly Valve	MOTORIZED BUTTERFLY VALVE
Motorized 2-Way Valve (RCV TYPE)	MOTORIZED 2-WAY VALVE (RCV TYPE)
Motorized 3-Way Valve	MOTORIZED 3-WAY VALVE
Variable Frequency Driver	VARIABLE FREQUENCY DRIVER

CABLE LEGEND	
TYPE A :	ETHERNET LAN CABLE (CAT6)
TYPE B :	BACNET MSTP CABLE
TYPE C :	MODBUS RS-485 CABLE
TYPE D :	FIELD CABLE
TYPE E :	KNX COMMUNICATION CABLE
TYPE F :	LONBUS CABLE

NOTES	
*	PRE-EXISTING FIELD DEVICES / POINTS
**	NEW FIELD DEVICES / POINTS BY SIEMENS
#	REPLACEMENT OF EXISTING FIELD DEVICES

NO	ISSUED FOR APPROVAL	FOR	SH	21.10.2024
REV	DESCRIPTION	DRW BY	CHK BY	DATE

ESCO	SIEMENS INDUSTRIAL LLC
SMART INFRASTRUCTURE	REGIONAL SOLUTIONS SERVICES
22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	

CLIENT	DEZ
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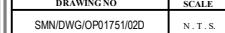
PROJECT TITLE	Supply, Installation & Commissioning for BMS Controller at DSO HQ
---------------	-------------------------------------------------------------------

LOCATION	Phase-1 (Left Tower, Right Tower, Mid Tower, Basement Level)
----------	-----------------------------------------------------------------

DRAWING TITLE	Fresh Air Handling Unit (Typical)
---------------	--------------------------------------

DRAWING NO	SMINDWG/OP01751/02C
SCALE	N.T.S.

## EQUIPMENT REFERENCE: Block - E



## RECIRCULATING AIR HANDLING UNIT

EQUIPMENT REFERENCE (Left Tower) : 1st Level- (Zone 1 AHU-T1-1&2(1F), AHU G3 1&2(GF)), 2nd Level- (Zone 1 AHU-T1-1&2(3F), AHU T 1&2(2F)), 4th Level - (Zone 1 AHU-T1-1&2(5F), AHU T 1&2(4F), Zone 3 AHUT2-1(5F) & AHUT2-1(4F)), 6th Level - (Zone 1 AHU-F7-1&2(7F), AHU T 1&2(6F), Zone 3 AHUT2-1(6F) & AHUT2-1(7F)), 8th Level - (AHU-F8-1&2, AHU F8-3, AHU F9-1)

EQUIPMENT REFERENCE (Right Tower) : 1st Level- (Zone 1 AHU-T1-1&2(1F), AHU G3 1&2(GF)), 2nd Level- (Zone 2 AHU-T1-1&2(3F), AHU T 1&2(2F)), 4th Level - (Zone 2 AHU-T1-1&2(5F), AHU T 1&2(4F), Zone 3 AHUT2-2(5F) & AHUT2-2(4F)), 6th Level - (Zone 2 AHU-F7-1&2(7F), AHU T 1&2(6F), Zone 3 AHUT2-2(6F) & AHUT2-2(7F)), 8th Level - (Zone 2 AHU-F8-1&2, AHU F8-4, F9-2)

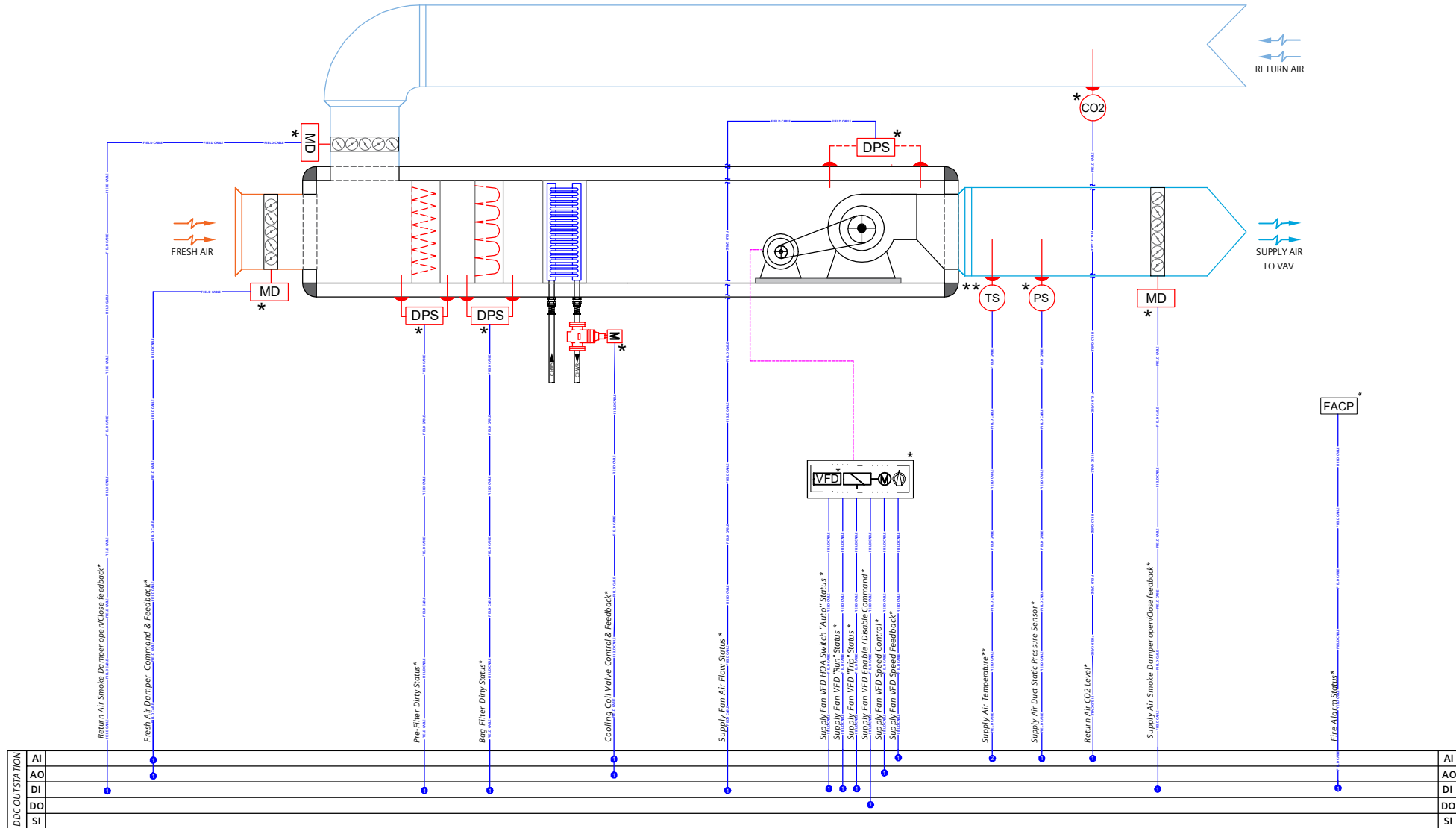
**EQUIPMENT REFERENCE (Basement) : AHU-BU2, AHU-R1(Right Side), AHU-R1(Left Side)**























EQUIPMENT REFERENCE (Office Floor - Block A) : Ground Floor - 2 QTY , 1st Floor - 2 QTY, 2nd Floor - 2 QTY, 3rd Floor - 2 QTY, 4th Floor - 2 QTY, 5th Floor - 2 QTY, 6th Floor - 2 QTY

EQUIPMENT REFERENCE (Office Floor - Block B) : Ground Floor - 2 QTY , 1st Floor - 2 QTY, 2nd Floor - 2 QTY, 3rd Floor - 2 QTY, 4th Floor - 2 QTY, 5th Floor - 2 QTY, 6th Floor - 2 QTY

EQUIPMENT REFERENCE (Office Floor - Block F) : Ground Floor - 2 QTY, 1st Floor - 2 QTY, 2nd Floor - 2 QTY, 3rd Floor - 2 QTY, 4th Floor - 2 QTY, 5th Floor - 2 QTY, 6th Floor - 2 QTY, 7th Floor - 2 QTY

EQUIPMENT REFERENCE (Office Floor - Block E) : Ground Floor - 2 QTY, 1st Floor - 2 QTY, 2nd Floor - 2 QTY, 3rd Floor - 2 QTY, 4th Floor - 2 QTY, 5th Floor - 2 QTY, 6th Floor - 2 QTY, 7th Floor - 2 QTY



LEGEND	
	TEMPERATURE & HUMIDITY SENSOR
	TEMPERATURE, HUMIDITY & CO2 SENSOR
	TEMPERATURE SENSOR
	DIFFERENTIAL PRESSURE SENSOR
	DIFFERENTIAL PRESSURE SWITCH
	STATIC PRESSURE SENSOR
	CARBON DIOXIDE DETECTOR
	CARBON MONOXIDE DETECTOR
	FLOW METER
	FLOW SENSOR
	FLOW SWITCH
	TANK LEVEL SENSOR
	MOTORIZED DAMPER
	MOTORIZED SMOKE DAMPER
	MOTORIZED SMOKE / FIRE DAMPER
	BTU METER
	ENERGY METER
	SPACE / ROOM THERMOSTAT
	MOTORIZED BUTTERFLY VALVE
	MOTORIZED 2-WAY VALVE (PCV TYPE)
	MOTORIZED 3-WAY VALVE
	VARIABLE FREQUENCY DRIVER

CABLE LEGEND	
TYPE A:	ETHERNET LAN CABLE (CAT6)
TYPE B:	BACNET MSTP CABLE
TYPE C:	MODBUS RS-485 CABLE
TYPE D:	FIELD CABLE
TYPE E:	KNX COMMUNICATION CABLE
TYPE F:	LONBUS CABLE

NOTES	
*	PRE-EXISTING FIELD DEVICES / POINTS
**	NEW FIELD DEVICES / POINTS BY SIEMENS
#	REPLACEMENT OF EXISTING FIELD DEVICES

00	ISSUED FOR APPROVAL	KAR	SH	21.12.2004
REV	DESCRIPTION	DRW RV	CHK RV	DATE

**ESCO**

**SIEMENS**

**SIEMENS INDUSTRIAL LLC**  
 SMART INFRASTRUCTURE  
 REGIONAL SOLUTION & SERVICES

PO BOX 110000  
 DALLAS, TEXAS

TEL.: 972.4.144.0000  
 FAX: 972.4.144.0000

**CLIENT**

**DEZ** Dubai Inspection  
Engineering  
Construction & Allied JSC

PROJECT TITLE
Supply,Installation& commissioning for BMS Controller at DSO HQ























LOCATION	Phase-1
	(Left Tower Right Tower Mid

Tower, Basement Level)
DRAWING TITLE

Recirculating Air Handling Unit (Typical)	
DRAWING NO	SCALE
SMNDWG/OP01751/03	N . T . S.

EQUIPMENT REFERENCE: AHU-BU-02, AHU-L1, AHU-L2, AHU-G4, AHU-R1, AHU-K1, AHU-D1

[illegible]

LEGEND	
	TEMPERATURE & HUMIDITY SENSOR
	TEMPERATURE, HUMIDITY & CO2 SENSOR
	TEMPERATURE SENSOR
	DIFFERENTIAL PRESSURE SENSOR
	DIFFERENTIAL PRESSURE SWITCH
	STATIC PRESSURE SENSOR
	CARBON DIOXIDE DETECTOR
	CARBON MONOXIDE DETECTOR
	FLOW METER
	FLOW SENSOR
	FLOW SWITCH
	TANK LEVEL SENSOR
	MOTORIZED DAMPER
	MOTORIZED SMOKE DAMPER
	MOTORIZED SMOKE / FIRE DAMPER
	BTU METER
	ENERGY METER
	SPACE / ROOM THERMOSTAT
	MOTORIZED BUTTERFLY VALVE
	MOTORIZED 2-WAY VALVE (RCV TYPE)
	MOTORIZED 3-WAY VALVE
	VARIABLE FREQUENCY DRIVER

CABLE LEGEND	
ETHERNET	ETHERNET
TYPE A:	ETHERNET LAN CABLE (CAT6)
ETHERNET LAN CABLE (CAT6) 1000BASE-T 1000BASE-T	
TYPE B:	BACNET MSTP CABLE
BACNET MSTP CABLE 1000BASE-T 1000BASE-T	
TYPE C:	MODBUS RS-485 CABLE
MODBUS RS-485 CABLE 1000BASE-T 1000BASE-T	
FIELD CABLE	FIELD CABLE
TYPE D:	FIELD CABLE
FIELD CABLE 1000BASE-T 1000BASE-T	
TYPE E:	KNX COMMUNICATION CABLE
KNX COMMUNICATION CABLE 1000BASE-T 1000BASE-T	
TYPE F:	LONBUS CABLE
LONBUS CABLE 1000BASE-T 1000BASE-T	

NOTES	
*	PRE-EXISTING FIELD DEVICES / POINTS
**	NEW FIELD DEVICES / POINTS BY SIEMENS
#	REPLACEMENT OF EXISTING FIELD DEVICES

00	ISSUED FOR APPROVAL	KAR	SH	21.12.2008
REV.	DESCRIPTION	DRW BY	CHK BY	DATE

**ESCO**

**SIEMENS**

**SIEMENS INDUSTRIAL LLC**  
 SMART INFRASTRUCTURE  
 REGIONAL SOLUTION & SERVICES

PO BOX 150888  
 DALLAS, TX 75215-0888

Tel.: + 972 4 248 0000  
 Fax: + 972 4 248 0000

**CLIENT**

**DEZ** Dubai Insurance  
 General Insurance  
 General Insurance Co. Ltd.

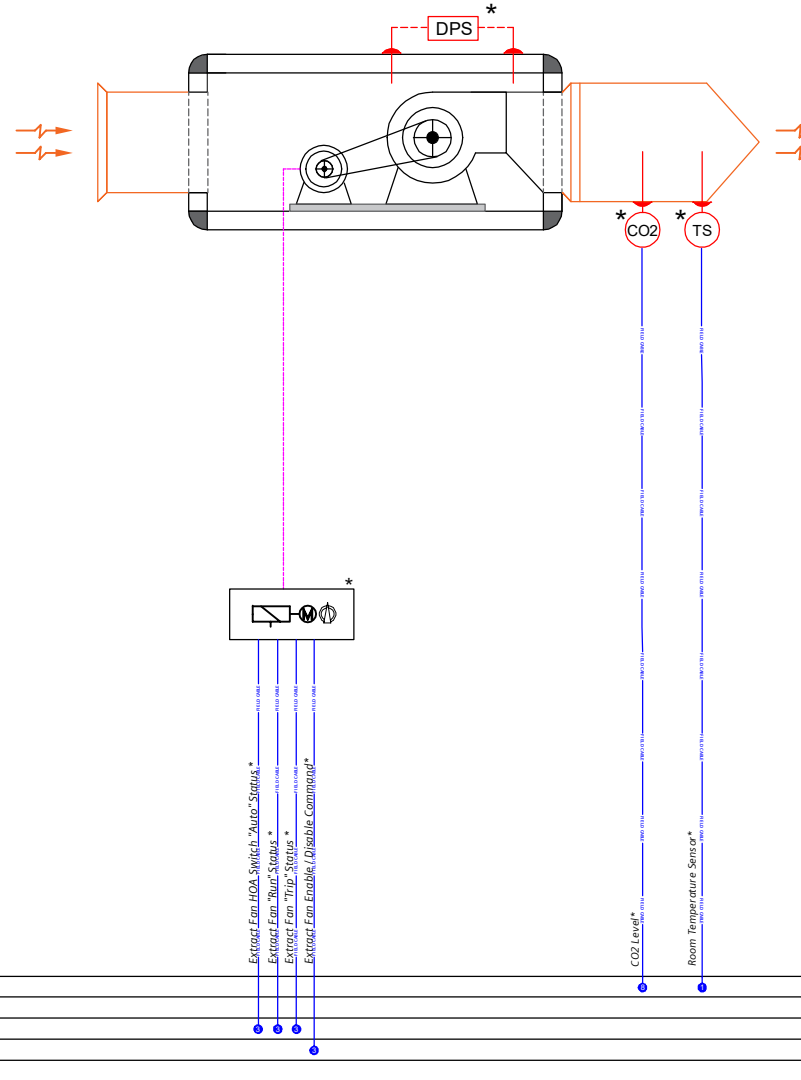
PROJECT TITLE	Supply,Installation& commissioning for BMS Controller at DSO HQ
---------------	-----------------------------------------------------------------------

LOCATION
Phase-1 (Left Tower, Right Tower, Mid Tower, Basement Level)

<b>DRAWING TITLE</b>	
Air Handling Unit (Typical)	
<b>DRAWING NO</b>	<b>SCALE</b>
SMN/DWG/OP01751/04	N. T. S.

**CARPARK EXTRACT FAN  
B1-8,9,10**

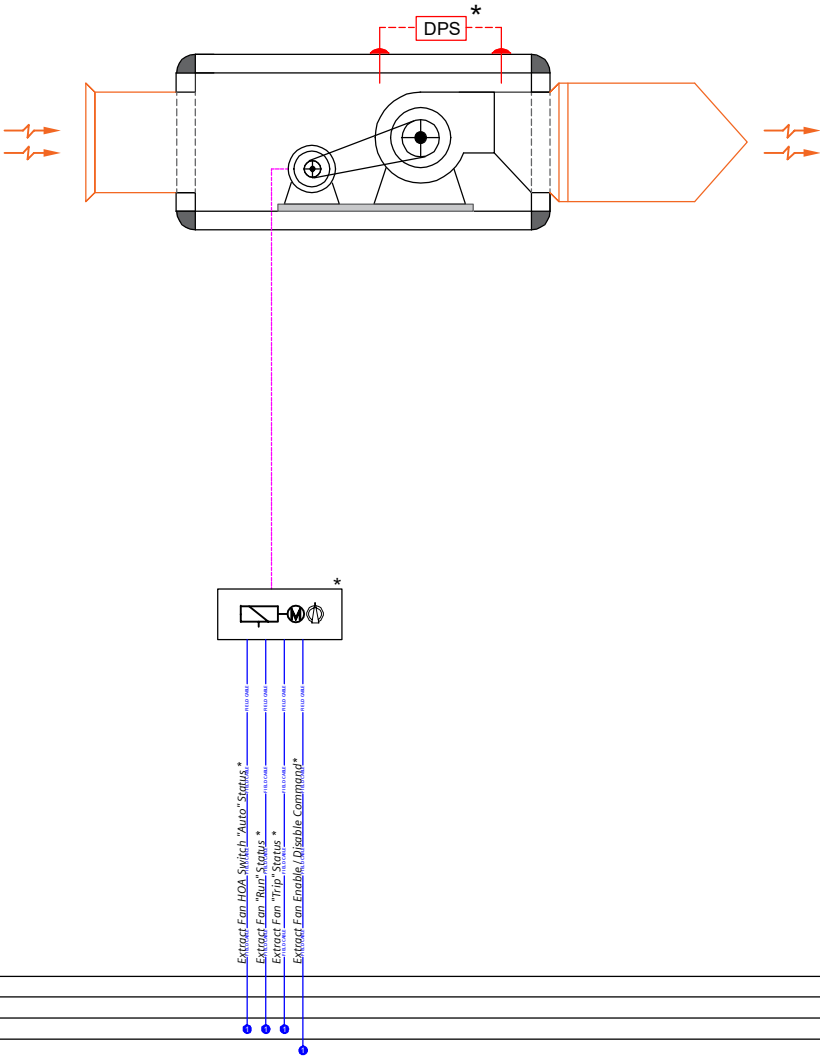
Equip Ref Location:  
Basement Level - 2 Set of 3 Pumps



DRAWING NO	SCALE
SMND/WG/OP01751/07	N . T . S.

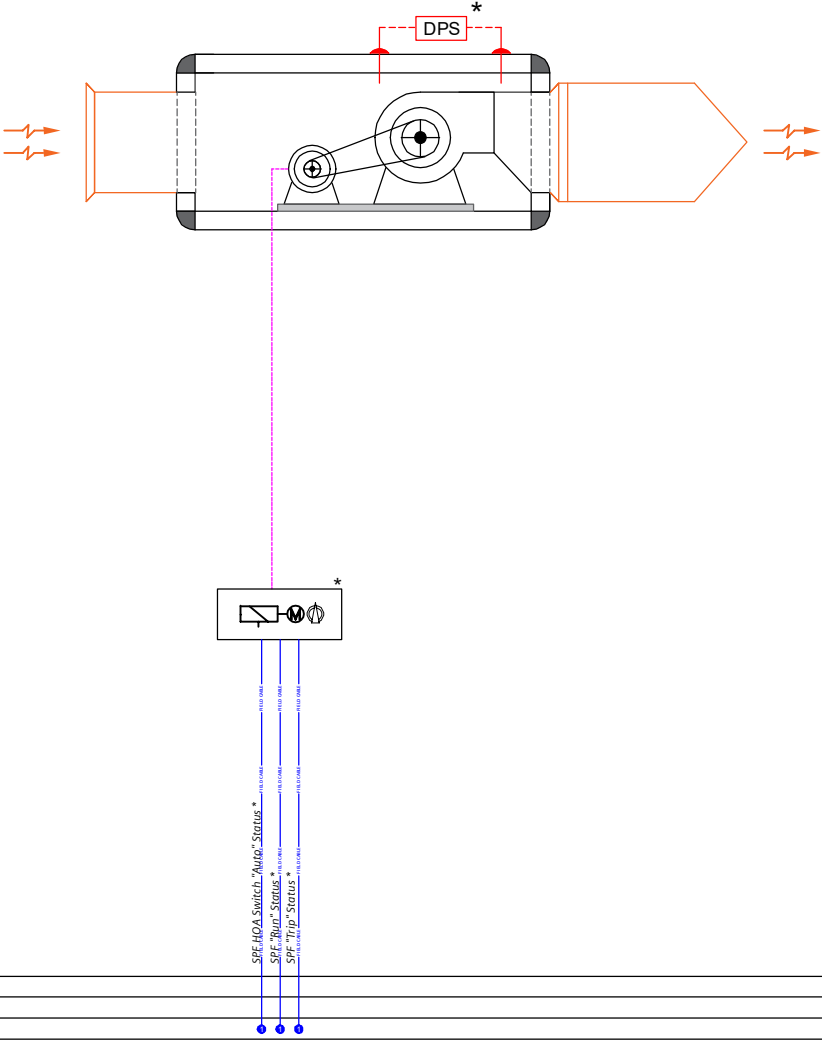
GARBAGE EXTRACT FAN  
EXE-1

Equip Ref Location:  
Left Tower Roof - Zone 1 - 1 Qty  
Right Tower Roof - Zone 2 - 1 Qty



STAIR PRESSURIZATION FAN

Equip Ref Location:  
Mid Tower Roof - Zone 3 - 2 Qty



LEGEND	
TH	TEMPERATURE & HUMIDITY SENSOR
THC	TEMPERATURE, HUMIDITY & CO2 SENSOR
TS	TEMPERATURE SENSOR
DP	DIFFERENTIAL PRESSURE SENSOR
DPS	DIFFERENTIAL PRESSURE SWITCH
PS	STATIC PRESSURE SENSOR
CO2	CARBON DIOXIDE DETECTOR
CO	CARBON MONOXIDE DETECTOR
FM	FLOW METER
FS	FLOW SENSOR
FLS	FLOW SWITCH
TL	TANK LEVEL SENSOR
MD	MOTORIZED DAMPER
MSD	MOTORIZED SMOKE DAMPER
MSFD	MOTORIZED SMOKE / FIRE DAMPER
BTU	BTU METER
ENERGY	ENERGY METER
SPACE	SPACE / ROOM THERMOSTAT
MOTORIZED BUTTERFLY VALVE	MOTORIZED BUTTERFLY VALVE
MOTORIZED 2-WAY VALVE (RCV TYPE)	MOTORIZED 2-WAY VALVE (RCV TYPE)
MOTORIZED 3-WAY VALVE	MOTORIZED 3-WAY VALVE
VARIABLE FREQUENCY DRIVER	VARIABLE FREQUENCY DRIVER

CABLE LEGEND	
TYPE A :	ETHERNET LAN CABLE (CAT6)
TYPE B :	BACNET MSTP CABLE
TYPE C :	MODBUS RS-485 CABLE
TYPE D :	FIELD CABLE
TYPE E :	KNX COMMUNICATION CABLE
TYPE F :	LONBUS CABLE

NOTES	
*	PRE-EXISTING FIELD DEVICES / POINTS
**	NEW FIELD DEVICES / POINTS BY SIEMENS
#	REPLACEMENT OF EXISTING FIELD DEVICES

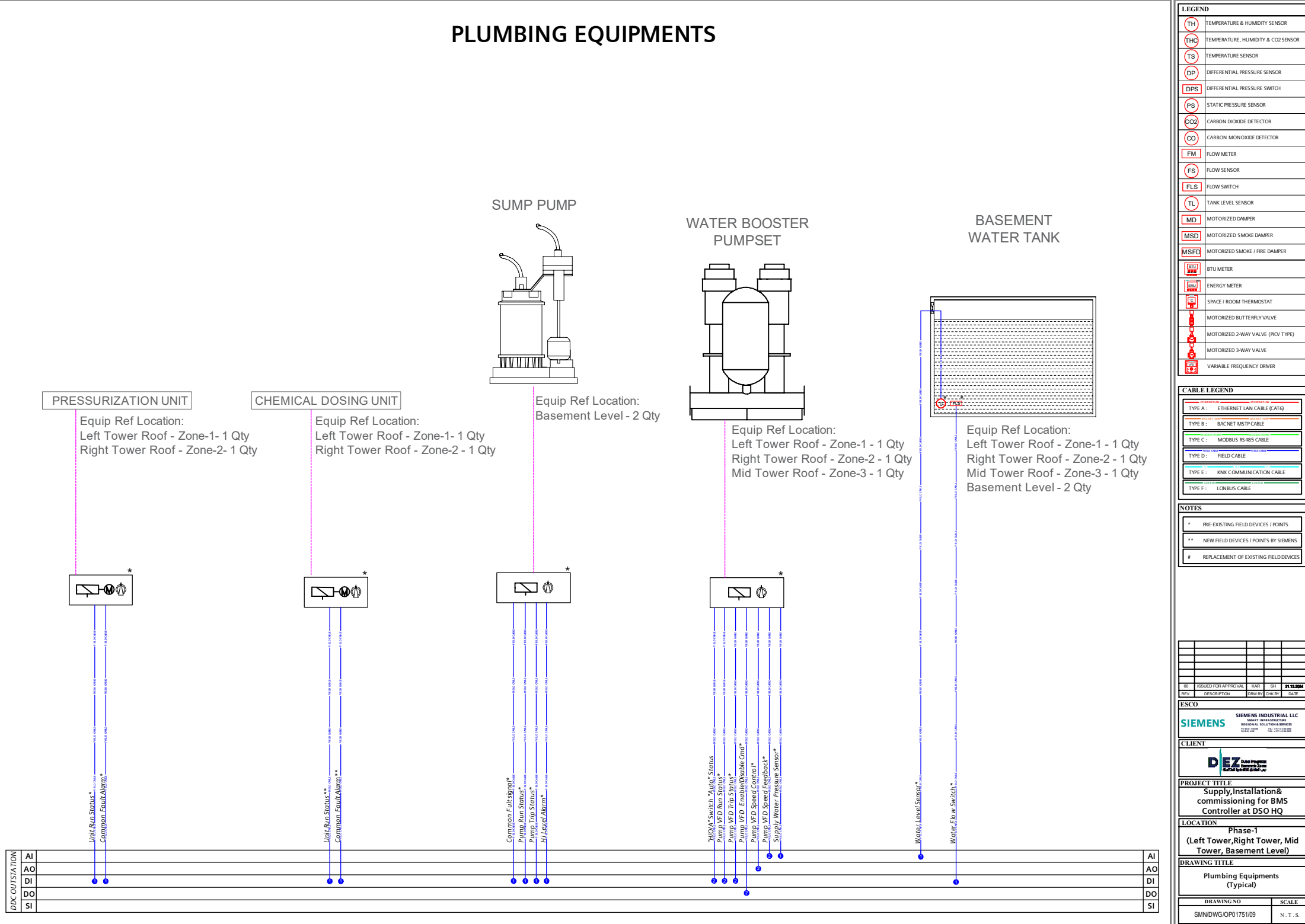









PLUMBING EQUIPMENTS



LEGEND	
	TEMPERATURE & HUMIDITY SENSOR
	TEMPERATURE, HUMIDITY & CO2 SENSOR
	TEMPERATURE SENSOR
	DIFFERENTIAL PRESSURE SENSOR
	DIFFERENTIAL PRESSURE SWITCH
	STATIC PRESSURE SENSOR
	CARBON DIOXIDE DETECTOR
	CARBON MONOXIDE DETECTOR
	FLOW METER
	FLOW SENSOR
	FLOW SWITCH
	TANK LEVEL SENSOR
	MOTORIZED DAMPER
	MOTORIZED SMOKE DAMPER
	MOTORIZED SMOKE / FIRE DAMPER
	BTU METER
	ENERGY METER
	SPACE / ROOM THERMOSTAT
	MOTORIZED BUTTERFLY VALVE
	MOTORIZED 2-WAY VALVE (RCV TYPE)
	MOTORIZED 3-WAY VALVE
	VARIABLE FREQUENCY DRIVER

CABLE LEGEND	
TYPE A:	ETHERNET LAN CABLE (CAT6)
TYPE B:	BACNET MSTP CABLE
TYPE C:	MODBUS RS-485 CABLE
TYPE D:	FIELD CABLE
TYPE E:	KNX COMMUNICATION CABLE
TYPE F:	LONBUS CABLE

NOTES	
*	PRE-EXISTING FIELD DEVICES / POINTS
**	NEW FIELD DEVICES / POINTS BY SIEMENS
#	REPLACEMENT OF EXISTING FIELD DEVICES

ISSUED FOR APPROVAL	FOR	SH	21.10.2024
REV	DESCRIPTION	CHG BY	DATE

ESCO	SIEMENS INDUSTRIAL LLC
SMART INFRASTRUCTURE	REGIONAL SOLUTION SERVICES
22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	

CLIENT	DEZ
DEZ	Public Program
DEZ	Public Program
DEZ	Public Program

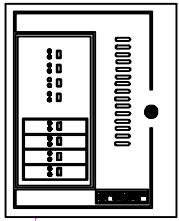
PROJECT TITLE	Supply, Installation & Commissioning for BMS Controller at DSO HQ
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LOCATION	Phase-1 (Left Tower, Right Tower, Mid Tower, Basement Level)
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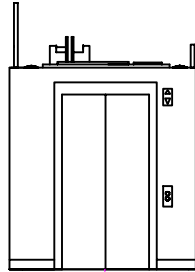
DRAWING TITLE	Plumbing Equipments (Typical)
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DRAWING NO	SMN/DWG/OP01751/09
SCALE	N. T. S.

## ELECTRICAL EQUIPMENTS

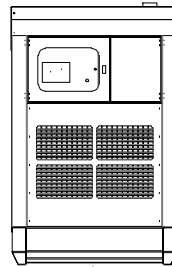


Equip Ref Location:  
Mid Tower Roof - Zone 3 - 1 Qty



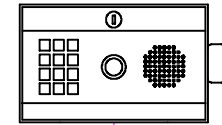
Equip Ref Location:  
Mid Tower Roof - Zone 3 - 1 Qty  
Left Tower - 8th Level - 1 Qty  
Right Tower - 8th Level - 1 Qty

## GENERATOR



Equip Ref Location:  
Left Tower - 1st Level - 1 Qty  
Right Tower - 1st Level - 1 Qty

## DB MAIN



Equip Ref Location:  
Left Tower - 1st Level - 4 Qty  
Right Tower - 1st Level - 4 Qty

LEGEND	
	TEMPERATURE & HUMIDITY SENSOR
	TEMPERATURE, HUMIDITY & CO2 SENSOR
	TEMPERATURE SENSOR
	DIFFERENTIAL PRESSURE SENSOR
	DIFFERENTIAL PRESSURE SWITCH
	STATIC PRESSURE SENSOR
	CARBON DIOXIDE DETECTOR
	CARBON MONOXIDE DETECTOR
	FLOW METER
	FLOW SENSOR
	FLOW SWITCH
	TANK LEVEL SENSOR
	MOTORIZED DAMPER
	MOTORIZED SMOKE DAMPER
	MOTORIZED SMOKE / FIRE DAMPER
	BTU METER
	ENERGY METER
	SPACE / ROOM THERMOSTAT
	MOTORIZED BUTTERFLY VALVE
	MOTORIZED 2-WAY VALVE (RCV TYPE)
	MOTORIZED 3-WAY VALVE
	VARIABLE FREQUENCY DRIVER

### CABLE LEGEND

The diagram illustrates six types of communication cables, each with a unique color-coded label and associated protocols:

- TYPE A:** ETHERNET LAN CABLE (CAT6) - Red label with "ETHERNET" on either side.
- TYPE B:** BACNET MSTP CABLE - Orange label with "BACNET" on either side.
- TYPE C:** MODBUS RS-485 CABLE - Green label with "MODBUS" on either side.
- TYPE D:** FIELD CABLE - Blue label with "FIELD CABLE" on either side.
- TYPE E:** KNX COMMUNICATION CABLE - Cyan label with "KNX" on either side.
- TYPE F:** LONBUS CABLE - Purple label with "LONBUS" on either side.

## NOTES

*	PRE-EXISTING FIELD DEVICES / POINTS
**	NEW FIELD DEVICES / POINTS BY SIEMENS
#	REPLACEMENT OF EXISTING FIELD DEVICES

00	ISSUED FOR APPROVAL	KAR	SH	21.12.2004	
REV.	DESCRIPTION	DRW BY	CHK BY	DATE	

**ESCO**

**SIEMENS**

**SIEMENS INDUSTRIAL LLC**  
 SMART INFRASTRUCTURE  
 REGIONAL SOLUTION & SERVICES

PO BOX 110000 TEL: + 971 4 344 0000  
 DUBAI, UAE FAX: + 971 4 344 0000

**DEZ** Deutscher Export  
Zentrum

PROJECT TITLE	Supply,Installation& commissioning for BMS Controller at DSO HQ
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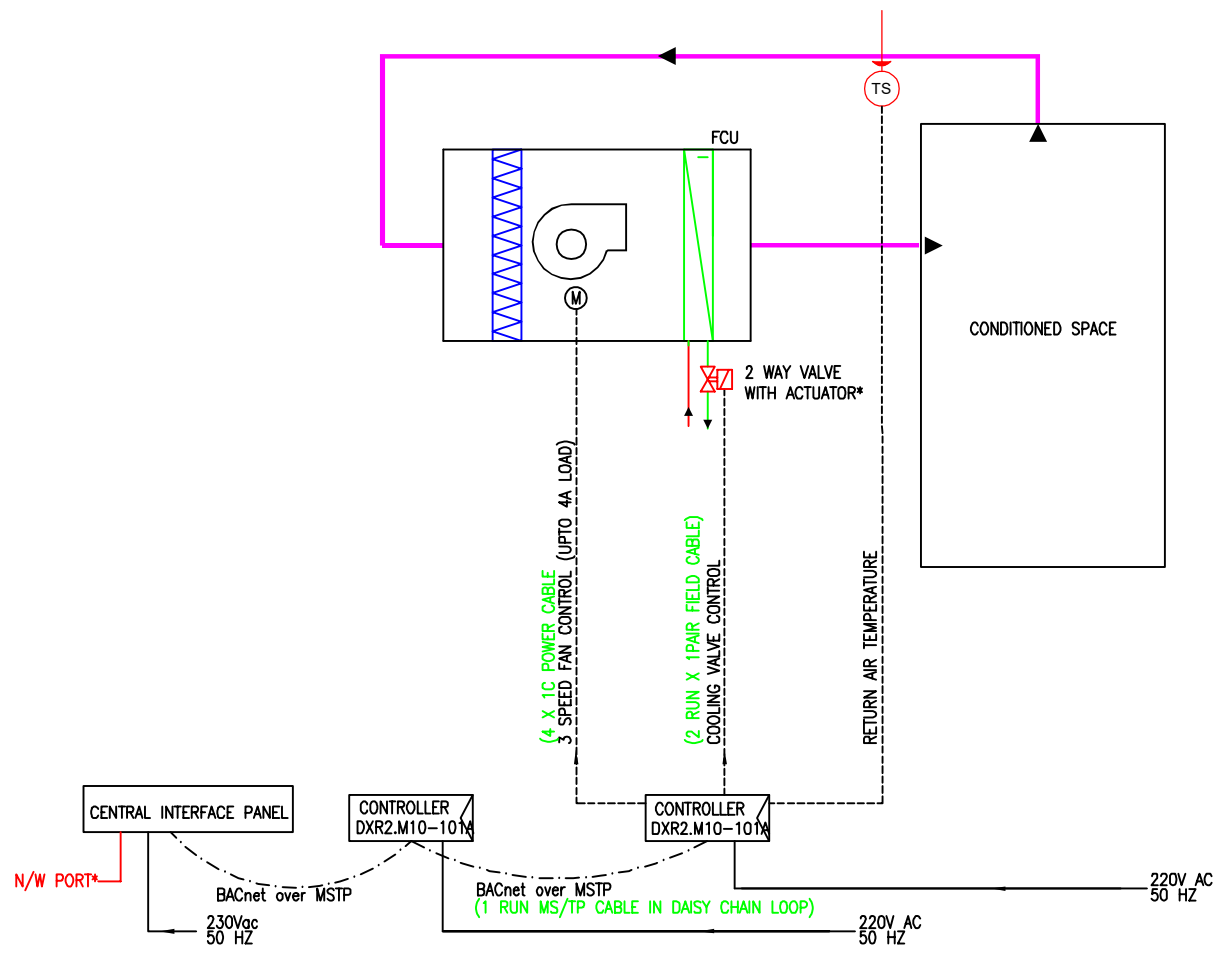
LOCATION
Phase-1 (Left Tower, Right Tower, Mid Tower, Basement Level)

<p>Electrical Equipments (Typical)</p>
--------------------------------------------

DRAWING NO	SCALE
SMN/DWG/OP01751/10	N.T.S.

[illegible]

FAN COIL UNIT



LEGEND	
TH	TEMPERATURE & HUMIDITY SENSOR
THC	TEMPERATURE, HUMIDITY & CO2 SENSOR
TS	TEMPERATURE SENSOR
DP	DIFFERENTIAL PRESSURE SENSOR
DPS	DIFFERENTIAL PRESSURE SWITCH
PS	STATIC PRESSURE SENSOR
CO2	CARBON DIOXIDE DETECTOR
CO	CARBON MONOXIDE DETECTOR
FM	FLOW METER
FS	FLOW SENSOR
FLS	FLOW SWITCH
TL	TANK LEVEL SENSOR
MD	MOTORIZED DAMPER
MSD	MOTORIZED SMOKE DAMPER
MSFD	MOTORIZED SMOKE / FIRE DAMPER
BTU	BTU METER
ENERGY	ENERGY METER
SPACE	SPACE / ROOM THERMOSTAT
MOTORIZED BUTTERFLY VALVE	MOTORIZED BUTTERFLY VALVE
MOTORIZED 2-WAY VALVE (RCV TYPE)	MOTORIZED 2-WAY VALVE (RCV TYPE)
MOTORIZED 3-WAY VALVE	MOTORIZED 3-WAY VALVE
VARIABLE FREQUENCY DRIVER	VARIABLE FREQUENCY DRIVER

CABLE LEGEND	
TYPE A :	ETHERNET LAN CABLE (CAT6)
TYPE B :	BACNET MSTP CABLE
TYPE C :	MODBUS RS-485 CABLE
TYPE D :	FIELD CABLE
TYPE E :	KNX COMMUNICATION CABLE
TYPE F :	LONBUS CABLE

NOTES	
*	PRE-EXISTING FIELD DEVICES / POINTS
**	NEW FIELD DEVICES / POINTS BY SIEMENS
#	REPLACEMENT OF EXISTING FIELD DEVICES

NO	ISSUED FOR APPROVAL	KAR	SH	21.10.2024
REV	DESCRIPTION	DRW BY	CHK BY	DATE

ESCO	
SIEMENS INDUSTRIAL LLC	
SMART INFRASTRUCTURE	
REGIONAL SOLUTION SERVICES	
22, REV. 1.02/01	
7/20 - 11/11/2024	

CLIENT	
DEZ	
Public Program	
Smart Infrastructure	
Regional Solution Services	
Smart Infrastructure	

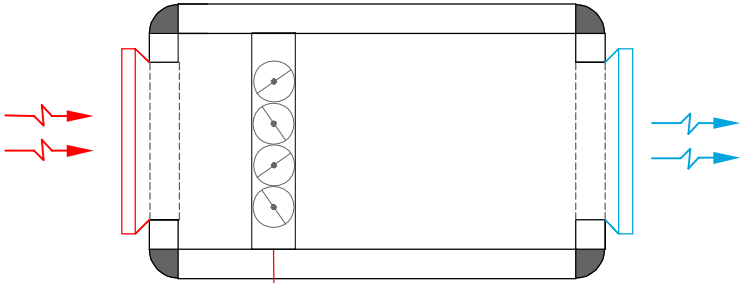
PROJECT TITLE	
Supply, Installation & commissioning for BMS Controller at DSO HQ	

LOCATION	
Phase -1& Phase -2	

DRAWING TITLE	
Fan Coil Unit (Typical)	

DRAWING NO	SCALE
SMN/DWG/OPD175/1/11	N. T. S.

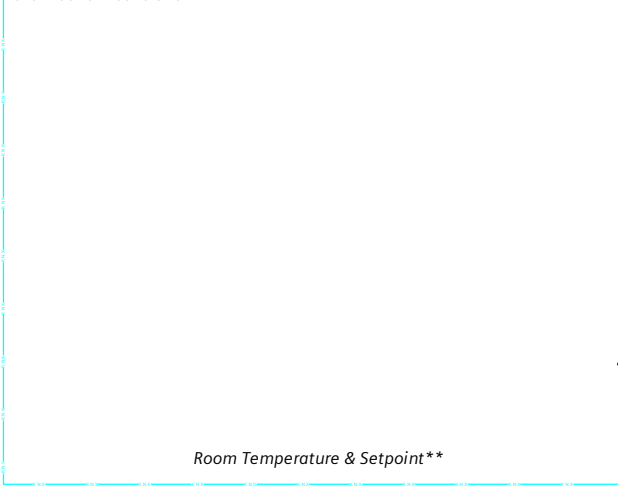
VARIABLE AIR VOLUME UNIT



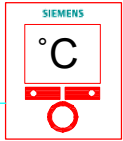
CONTROLLER  
DXR2.M10PL-102B

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Note: Damper Actuator & Air Flow Sensor  
are inbuilt in controller\*



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QMX3.P35H

LEGEND

TH	TEMPERATURE & HUMIDITY SENSOR
THC	TEMPERATURE, HUMIDITY & CO2 SENSOR
TS	TEMPERATURE SENSOR
DP	DIFFERENTIAL PRESSURE SENSOR
DPS	DIFFERENTIAL PRESSURE SWITCH
PS	STATIC PRESSURE SENSOR
CO2	CARBON DIOXIDE DETECTOR
CO	CARBON MONOXIDE DETECTOR
FM	FLOW METER
FS	FLOW SENSOR
FLS	FLOW SWITCH
TL	TANK LEVEL SENSOR
MD	MOTORIZED DAMPER
MSD	MOTORIZED SMOKE DAMPER
MSFD	MOTORIZED SMOKE / FIRE DAMPER
BTU	BTU METER
ENERGY	ENERGY METER
SPACE	SPACE / ROOM THERMOSTAT
MOTORIZED BUTTERFLY VALVE	MOTORIZED BUTTERFLY VALVE
MOTORIZED 2-WAY VALVE (RCV TYPE)	MOTORIZED 2-WAY VALVE (RCV TYPE)
MOTORIZED 3-WAY VALVE	MOTORIZED 3-WAY VALVE
VARIABLE FREQUENCY DRIVER	VARIABLE FREQUENCY DRIVER

CABLE LEGEND

TYPE A :	ETHERNET LAN CABLE (CAT6)
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NOTES

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**	NEW FIELD DEVICES / POINTS BY SIEMENS
#	REPLACEMENT OF EXISTING FIELD DEVICES

NO	ISSUED FOR APPROVAL	KAR	SH	21.10.2024
REV	DESCRIPTION	DRW BY	CHK BY	DATE

ESCO

SIEMENS	SIEMENS INDUSTRIAL LLC SMART INFRASTRUCTURE REGIONAL SOLUTION SERVICES 02 REV 12/2019 7/20 15711100000
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CLIENT



PROJECT TITLE

Supply, Installation & commissioning for BMS Controller at DSO HQ

LOCATION

Phase -1& Phase -2

DRAWING TITLE

Variable Air Volume Unit  
(Typical)

DRAWING NO	SCALE
SMN/DWG/OP0175/1/2	N. T. S.