STTelemedia Global Data Centres | aurecon | cta COMMTECH ASIA | Gaa Group Company Limited

REQUEST FOR INFORMATION (RFI)

PROJECT :	BKK2	**R.F.I. NO. :**	523213-01-RFI-ME-0001
TO :	CTA	**ATTENTION :**	CTA
SUBMITTED DATE	16-Jan-26	**NEED REPLY BY DATE :**	23-Jan-26

SUBMISSION OF : ■ Q&A ☐ Drawing ■ Document ☐ Others *(as specified below)*

SUBJECT : **Request for Confirmation - FCU Fan Type**

Total Page (s) : **3** **(Including this page)**

FUNCTION :
☐ Structural (ST) ☐ Electrical & Communication (EL) ■ Mechanical (ME) ☐ Vertical Transport (VT)
☐ Achitectural (AR) ☐ Fire Protection (FI) ☐ Hydraulic & Sanitary (HY) ☐ Other (O)

(1) CONTRACTOR REQUEST FOR INFORMATION :

According to the specification, the FCU fan type is specified as a double inlet forward-curved centrifugal fan. However, in the Air Handling and Fan Coil Units Schedule, the FCU fan type is indicated as an EC fan.

Please kindly confirm whether the correct FCU fan type is an EC fan or a double inlet forward-curved centrifugal fan.

NOTE : It would be an additional cost some for items.

Requested by : _____ *Engineering Manager*

Reviewed by : _____ *Project Manager*

(2) ATTN : Commtech Asia (Thailand)

☐ For Approval ☐ See Note ■ Please Clarify

Note : Aurecon to confirm the specification of the FCU fan type.

From : GAA Group
By :
Name / Position Mr. Itsarate Trachuengtong/ Project Manager
Date : 16-Jan-26

Reviewed By : Commtech Asia (Thailand)
Name / Position Finlay Coady Sr. Project Manager
Date : 22nd January 2026

(3) ATTN : AURECON

☐ For Approval ■ See Note ☐ Please Clarify

Note : AUR:
1. FCUs shall be EC fans

From : Commtech Asia (Thailand)
By :
Name / Position ( )
Date :

Reviewed By : AURECON
Name / Position (Kritchalat Onratn)
Date : 09/02/2026

(4) ATTN : STT GDC

☐ Clarification only ☐ Not Approved
☐ Approved for proceeding work
☐ Approved with comments, proceeding work in cpmpliance with comments
☐ Approved with comments, not for proceeding work and need to re-submit

Note :

From : AURECON
By :
Name / Position ( )
Date :

Reviewed By : STT GDC
Name / Position
Date :

CONTRACTOR DOCUMENT REVIEW
☐ ACCEPTED
☐ REJECTED
☒ MAKE CORRECTIONS NOTED & PROCEED
☐ REVISE AND RESUBMIT

Aurecon Consulting (Thailand) Co., Ltd.
By Kritchalat Onratn
Date issued 09/02/2026
Project No 523213
Date received

This review is only for general conformation with the design concept of the project and general compliance with the information given in the contract documents, Any action shown is subject to the requirements of the contract document.
This review does not relieve the Contractor of his contractual obligations nor of his responsibilities of ensuring the work is complete accurate & correct.
Any amendment does not constitute an order or authority for a price variation to the contract

CC : ■ STT GDC ■ AURECON ■ Commtech Asia (Thailand) ■ GAA ☐ OTHERS.....

11.3.2 Cooling Coil

Cooling coils shall be counter flow circuited, constructed of seamless hard copper tube with mechanically bonded aluminium fins. The coils shall be selected for the duty specified at least 4 rows or up. Coil fins shall be between 400 and 560 fins per metre (10-14 FPI). The air face velocity shall not exceed 2.25 m/s (450 FPM). The water pressure drop across the coil shall not be more than 25 kPa (3.6PSI). Pressure parts of coil shall be constructed and tested under water of a pressure of not less than 1,035 kPa (150 psig). The water velocity shall not exceed 1.5 m/s. Coil headers shall be seamless copper tube. Coil header shall have a manual air vent and drain pipe discharging into the condensate drain pan.

11.3.3 Motor

Motor shall be of DC brushless weather proof type, 230 V/1PH/50 Hz and speed control. Winding insulation shall be class B, IP 54. The revolution per minute of motor shall be 1,450 rpm.

11.3.4 Fans

Fan shall be double width, double inlet forward curve centrifugal type. Fans shall be mounted on a rigid shaft in self-aligning bearing. Fan wheel and scroll shall be made of fire retardant plastic or galvanized steel sheet. Fan shall be statically and dynamically balanced by the manufacturer. The capacity of supply air fan is according to the equipment schedule and the sound pressure level of fan from the nearest outlet shall not exceed 40 dBA (RE 2 x 10-5 Pa, AMCA 301-76), for high speed operation, measured at 1.5 m (5 feet) from the outlet. If the sound pressure level measured is higher than the specified level, the contractor shall provide additional sound absorber to reduce the sound pressure level. The fan shall be connected to the air duct by flange and insulated flexible duct connection. Bearing shall be of the self-aligning ball or roller type. Load ratings of ball and roller bearings shall be based on an average bearing life of not less than 100,000 hours.

11.3.5 Filters

Synthetic fibre panel filter (PF-1) shall be provided for ceiling concealed unit. Air filter shall have a minimum thickness of 9 mm. (3/8 inch) and shall have the efficiency of not less than 65% arrestance measured by ASHRAE method.

11.3.6 Drain Pans

The condensate drain pan which is fully provided under the entire cooling coil and valves shall be fabricated from a minimum 1.2 mm. thick enamel coated galvanised steel sheet. The pan shall have upstanding edges and shall be high enough to avoid condensate overflow. The underside shall be insulated with waterproof closed cell self-extinguishing foam of not less than 13mm (0.5inch) thick. Each condensate drain pan shall be arranged with sloping bottom and not less than 32 mm drain connection to waste. Provide water trap to suit the fan pressure but in any case, not less than 30mm of water gauge.

11.4 Control System

Temperature controller shall be of microprocessor or electronic type. The controller shall have the following features:

-Integral temperature sensor
-Control room temperature at set point through operation of chilled water control valve
-Indicate temperature set point via digital display
-Allow user adjustment of temperature set point between fixed limits
-Hi-medium-low and off fan speed switch
-Allow for remote set point and fan speed adjustment

11.5 Installation

Install fan-coil units as indicated and in accordance with manufacturer's installation instructions.
Locate fan-coil units as indicated, coordinate with other trades to assure correct recess size for recessed units. Provide each chilled water coil unit, water supply, and return connection, strainer, automatic temperature ON/OFF valve, valves as shown on drawings. Install electrical devices furnished by

AIR HANDLING UNITS AND FANCOIL UNITS SCHEDULE

UNIT NO.		TH-BKK2-02-02-FCU-001,002 (1Duty,1St.By)	TH-BKK2-02-02-FCU-003,004 (1Duty,1St.By)	TH-BKK2-02-02-FCU-005,006 (1Duty,1St.By)	TH-BKK2-02-02-FCU-007,008 (1Duty,1St.By)	TH-BKK2-02-02-FCU-009,010 (1Duty,1St.By)	TH-BKK2-02-02-FCU-011,012 (1Duty,1St.By)	TH-BKK2-02-03-FCU-001,002 (1Duty,1St.By)	TH-BKK2-02-03-FCU-003,004 (1Duty,1St.By)	TH-BKK2-02-03-FCU-005,006 (1Duty,1St.By)	TH-BKK2-02-03-FCU-007,008 (1Duty,1St.By)	TH-BKK2-02-03-FCU-009,010 (1Duty,1St.By)	TH-BKK2-02-03-FCU-011,012 (1Duty,1St.By)	TH-BKK2-02-03-FCU-013,014 (1Duty,1St.By)	TH-BKK2-02-03-FCU-015,016 (1Duty,1St.By)	TH-BKK2-02-04-FCU-001,002 (1Duty,1St.By)	TH-BKK2-02-04-FCU-003,004 (1Duty,1St.By)	TH-BKK2-02-04-FCU-005,006 (1Duty,1St.By)	TH-BKK2-02-04-FCU-007,008 (1Duty,1St.By)	TH-BKK2-02-04-FCU-009,010 (1Duty,1St.By)	TH-BKK2-02-04-FCU-011,012 (1Duty,1St.By)	TH-BKK2-02-04-FCU-013,014 (1Duty,1St.By)	TH-BKK2-02-04-FCU-015,016 (1Duty,1St.By)
AREA SERVED		**ELV B**	**BATTERY B1**	**BATTERY A1**	**ELV A**	**BATTERY B2**	**BATTERY A2**	**ELV B**	**BATTERY B3**	**BATTERY B2**	**BATTERY B1**	**ELV A**	**BATTERY A3**	**BATTERY A2**	**BATTERY A1**	**ELV B**	**BATTERY B3**	**BATTERY B2**	**BATTERY B1**	**ELV A**	**BATTERY A3**	**BATTERY A2**	**BATTERY A1**
QUANTITY	SET (S)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
AHU. TYPE		HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D
DESIGN ROOM CONDITION	°CDB/ % RH	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-
UNIT DATA (EACH) TOTAL CAPACITY	kW	7.5	5.3	5.3	7.5	4.6	4.6	7.8	4.7	4.7	4.7	7.8	4.7	4.7	5.2	7.8	4.7	4.7	4.7	7.8	4.7	4.7	5.2
SENSIBLE CAPACITY	kW	7.4	5.2	5.2	7.4	4.5	4.5	7.7	4.6	4.6	4.6	7.7	4.5	4.5	5.1	7.7	4.6	4.6	4.6	7.7	4.5	4.5	5.1
SUPPLY AIR	L/s	1047	742	742	1047	629	629	1195	676	676	676	1195	692	692	782	1195	676	676	676	1195	692	692	782
OUTDOOR AIR	L/s	25	20	20	10	20	10	10	20	20	20	10	20	20	20	10	20	20	20	10	20	20	20
DRAIN PIPE SIZE	Ø mm	25	20	20	25	20	20	25	20	20	20	25	20	20	20	25	20	20	20	25	20	20	20
COOLING COIL COND. ENT. WATER TEMPT	°C	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
COOLING COIL COND. LEAV. WATER TEMPT	°C	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
COOLING COIL COND. ENT. AIR TEMPT	°CDB/°CWB	27.5/22.9	27.6/23.1	27.6/23.1	27.6/23.0	27.6/23.0	27.5/22.9	27.5/23.3	27.6/23.2	27.6/23.2	27.6/23.2	27.5/23.3	27.7/23.4	27.7/23.4	27.7/23.5	27.5/23.3	27.6/23.2	27.6/23.2	27.6/23.2	27.5/23.3	27.7/23.4	27.7/23.4	27.7/23.5
COOLING COIL COND. LEAVING AIR TEMP.	°CDB/°CWB	21.6/21.1	21.8/21.4	21.8/21.4	21.7/21.3	21.7/21.2	21.6/21.2	22.2/21.8	22.0/21.6	22.0/21.6	22.0/21.6	22.2/21.8	22.3/21.9	22.3/21.9	22.4/22.0	22.2/21.8	22.0/21.6	22.0/21.6	22.0/21.6	22.2/21.8	22.3/21.9	22.3/21.9	22.4/22.0
CHILLED WATER PIPE FLOW RATE	L/s	0.22	0.16	0.16	0.22	0.14	0.14	0.23	0.14	0.14	0.14	0.23	0.14	0.14	0.16	0.23	0.14	0.14	0.14	0.23	0.14	0.14	0.16
CHILLED WATER PIPE PIPE SIZE	Ø mm	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
CHILLED WATER PIPE TYPE OF CONTROL VALVE		2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P
BLOWER EXTERNAL ST. PR.	Pa	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
BLOWER APPROX.	kW	0.30	0.22	0.22	0.30	0.18	0.18	0.35	0.20	0.20	0.20	0.35	0.20	0.20	0.23	0.35	0.20	0.20	0.20	0.35	0.20	0.20	0.23
BLOWER STARTER TYPE		EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN
BLOWER V / PH / Hz		400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
AIR FILTER TYPE		PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5
AIR FILTER MANOMETER	SET (S)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
AIR FILTER DIFFERENTIAL PRESSURE SWITCH FOR FILTER CLOG ALARM	SET (S)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
PHASE		Phase I	Phase I	Phase I	Phase I	Phase I	Phase I	Phase II	Phase II	Phase II	Phase II	Phase II	Phase II	Phase II	Phase III	Phase II	Phase II	Phase II	Phase II	Phase II	Phase II	Phase II	Phase III
ELECTRICAL PANEL BOARD NO.		TH-BKK02-02-02-MCP-005 TH-BKK02-02-02-MCP-006	TH-BKK02-02-02-MCP-007 TH-BKK02-02-02-MCP-008	TH-BKK02-02-02-MCP-009 TH-BKK02-02-02-MCP-010	TH-BKK02-02-02-MCP-011 TH-BKK02-02-02-MCP-012	TH-BKK02-02-02-MCP-013 TH-BKK02-02-02-MCP-014	TH-BKK02-02-02-MCP-015 TH-BKK02-02-02-MCP-016	TH-BKK02-02-03-MCP-006 TH-BKK02-02-03-MCP-007	TH-BKK02-02-03-MCP-008 TH-BKK02-02-03-MCP-009	TH-BKK02-02-03-MCP-010 TH-BKK02-02-03-MCP-011	TH-BKK02-02-03-MCP-012 TH-BKK02-02-03-MCP-013	TH-BKK02-02-03-MCP-014 TH-BKK02-02-03-MCP-015	TH-BKK02-02-03-MCP-016 TH-BKK02-02-03-MCP-017	TH-BKK02-02-03-MCP-018 TH-BKK02-02-03-MCP-019	TH-BKK02-02-03-MCP-020 TH-BKK02-02-03-MCP-021	TH-BKK02-02-04-MCP-006 TH-BKK02-02-04-MCP-007	TH-BKK02-02-04-MCP-008 TH-BKK02-02-04-MCP-009	TH-BKK02-02-04-MCP-010 TH-BKK02-02-04-MCP-011	TH-BKK02-02-04-MCP-012 TH-BKK02-02-04-MCP-013	TH-BKK02-02-04-MCP-014 TH-BKK02-02-04-MCP-015	TH-BKK02-02-04-MCP-016 TH-BKK02-02-04-MCP-017	TH-BKK02-02-04-MCP-018 TH-BKK02-02-04-MCP-019	TH-BKK02-02-04-MCP-020 TH-BKK02-02-04-MCP-021

AIR HANDLING UNITS AND FANCOIL UNITS SCHEDULE

UNIT NO.		TH-BKK2-02-05-FCU-001,002 (1Duty,1St.By)	TH-BKK2-02-05-FCU-003,004 (1Duty,1St.By)	TH-BKK2-02-05-FCU-005,006 (1Duty,1St.By)	TH-BKK2-02-05-FCU-007,008 (1Duty,1St.By)	TH-BKK2-02-05-FCU-009,010 (1Duty,1St.By)	TH-BKK2-02-05-FCU-011,012 (1Duty,1St.By)	TH-BKK2-02-05-FCU-013,014 (1Duty,1St.By)	TH-BKK2-02-05-FCU-015,016 (1Duty,1St.By)	TH-BKK2-02-05-FCU-017,018 (1Duty,1St.By)	TH-BKK2-02-05-FCU-019,020 (1Duty,1St.By)	TH-BKK2-02-06-FCU-001,002 (1Duty,1St.By)	TH-BKK2-02-06-FCU-003,004 (1Duty,1St.By)	TH-BKK2-02-06-FCU-005,006 (1Duty,1St.By)	TH-BKK2-02-06-FCU-007,008 (1Duty,1St.By)	TH-BKK2-02-06-FCU-009,010 (1Duty,1St.By)	TH-BKK2-02-06-FCU-011,012 (1Duty,1St.By)	TH-BKK2-02-06-FCU-013,014 (1Duty,1St.By)	TH-BKK2-02-06-FCU-015,016 (1Duty,1St.By)	TH-BKK2-02-06-FCU-017,018 (1Duty,1St.By)
AREA SERVED		**ELV B**	**BATTERY A2**	**BATTERY A1**	**ELV A**	**BATTERY B2**	**BATTERY B1**	**BATTERY C2**	**BATTERY C1**	**BATTERY D2**	**BATTERY D1**	**ELV B**	**BATTERY S1**	**BATTERY S2**	**BATTERY S3**	**DB LOAD BANK**	**ELV A**	**BATT N1**	**BATT N2**	**BATT N3**
QUANTITY	SET (S)	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
AHU. TYPE		HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D	HH-D
DESIGN ROOM CONDITION	°CDB/ % RH	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-	27.0±2/-
UNIT DATA (EACH) TOTAL CAPACITY	kW	7.7	5.8	5.8	7.7	5.6	5.6	5.6	5.6	5.6	5.6	7.7	7.5	7.5	7.5	7.5	7.7	7.5	7.5	7.5
SENSIBLE CAPACITY	kW	7.5	5.6	5.6	7.5	5.5	5.5	5.5	5.5	5.5	5.5	7.5	7.3	7.4	7.4	7.4	7.5	7.4	7.3	7.4
SUPPLY AIR	L/s	1067	1093	1093	1067	1060	1060	1060	1060	1060	1060	1067	1392	1397	1404	1397	1067	1397	1392	1404
OUTDOOR AIR	L/s	10	20	20	10	20	20	20	20	20	20	10	20	20	20	20	10	20	20	20
DRAIN PIPE SIZE	Ø mm	25	20	20	25	20	20	20	20	20	20	25	25	25	25	25	25	25	25	25
COOLING COIL COND. ENT. WATER TEMPT	°C	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
COOLING COIL COND. LEAV. WATER TEMPT	°C	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
COOLING COIL COND. ENT. AIR TEMPT	°CDB/°CWB	27.5/22.9	26.7/23.3	26.7/23.3	27.5/22.9	26.7/23.3	26.7/23.3	26.7/23.3	26.7/23.3	26.7/23.3	26.7/23.3	27.5/22.9	26.5/23.1	26.6/231	26.6/23.1	26.6/23.1	27.5/22.9	26.6/23.1	26.5/23.1	26.6/23.1
COOLING COIL COND. LEAVING AIR TEMP.	°CDB/°CWB	21.6/21.2	22.4/22.1	22.4/22.1	21.6/21.2	22.4/22.1	22.4/22.1	22.4/22.1	22.4/22.1	22.4/22.1	22.4/22.1	21.6/21.2	22.2/21.8	22.2/21.8	22.2/21.9	22.2/21.8	21.6/21.2	22.2/21.8	22.2/21.8	22.2/21.9
CHILLED WATER PIPE FLOW RATE	L/s	0.23	0.17	0.17	0.23	0.17	0.17	0.17	0.17	0.17	0.17	0.23	0.22	0.22	0.23	0.22	0.23	0.22	0.22	0.23
CHILLED WATER PIPE PIPE SIZE	Ø mm	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
CHILLED WATER PIPE TYPE OF CONTROL VALVE		2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P	2W-P
BLOWER EXTERNAL ST. PR.	Pa	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
BLOWER APPROX.	kW	0.31	0.32	0.32	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
BLOWER STARTER TYPE		EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN	EC FAN
BLOWER V / PH / Hz		400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
AIR FILTER TYPE		PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5	PF-5
AIR FILTER MANOMETER	SET (S)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
AIR FILTER DIFFERENTIAL PRESSURE SWITCH FOR FILTER CLOG ALARM	SET (S)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
PHASE		Phase III	Phase III	Phase III	Phase III	Phase III	Phase III	Phase III	Phase III	Phase III	Phase III	Phase I	Phase I	Phase I	Phase I	Phase I	Phase I	Phase I	Phase I	Phase I
ELECTRICAL PANEL BOARD NO.		TH-BKK02-02-05-MCP-007 TH-BKK02-02-05-MCP-008	TH-BKK02-02-05-MCP-009 TH-BKK02-02-05-MCP-010	TH-BKK02-02-05-MCP-011 TH-BKK02-02-05-MCP-012	TH-BKK02-02-05-MCP-013 TH-BKK02-02-05-MCP-014	TH-BKK02-02-05-MCP-015 TH-BKK02-02-05-MCP-016	TH-BKK02-02-05-MCP-017 TH-BKK02-02-05-MCP-018	TH-BKK02-02-05-MCP-019 TH-BKK02-02-05-MCP-020	TH-BKK02-02-05-MCP-021 TH-BKK02-02-05-MCP-022	TH-BKK02-02-05-MCP-023 TH-BKK02-02-05-MCP-024	TH-BKK02-02-05-MCP-025 TH-BKK02-02-05-MCP-026	TH-BKK02-02-06-MCP-009 TH-BKK02-02-06-MCP-010	TH-BKK02-02-06-MCP-011 TH-BKK02-02-06-MCP-012	TH-BKK02-02-06-MCP-013 TH-BKK02-02-06-MCP-014	TH-BKK02-02-06-MCP-015 TH-BKK02-02-06-MCP-016	TH-BKK02-02-06-MCP-017 TH-BKK02-02-06-MCP-018	TH-BKK02-02-06-MCP-019 TH-BKK02-02-06-MCP-020	TH-BKK02-02-06-MCP-021 TH-BKK02-02-06-MCP-022	TH-BKK02-02-06-MCP-023 TH-BKK02-02-06-MCP-024	TH-BKK02-02-06-MCP-025 TH-BKK02-02-06-MCP-026

AIR HANDLING UNITS AND FANCOIL UNITS SCHEDULE

UNIT NO.			TH-BKK2-02-06-AHU-001 TO 004 (4 Duty)
AREA SERVED			**CHILLER PLANT**
QUANTITY		SET (S)	4
AHU. TYPE			HH-D
DESIGN ROOM CONDITION		°CDB/ % RH	30.0±2
UNIT DATA (EACH)	TOTAL CAPACITY	kW	46.44
	SENSIBLE CAPACITY	kW	46.1
	SUPPLY AIR	L/s	3750
	OUTDOOR AIR	L/s	200
	DRAIN PIPE SIZE	Ø mm	
COOLING COIL COND.	ENT. WATER TEMPT	°C	18.0
	LEAV. WATER TEMPT	°C	26.0
	ENT. AIR TEMPT	°CDB/°CWB	30.0/22.2
	LEAVING AIR TEMP.	°CDB/°CWB	19.8/19.2
CHILLED WATER PIPE	FLOW RATE	L/s	1.39
	PIPE SIZE	Ø mm	40
	TYPE OF CONTROL VALVE		2W-P
BLOWER	EXTERNAL ST. PR.	Pa	150
	APPROX.	kW	1.51
	STARTER TYPE		EC FAN
	V / PH / Hz		400/3/50
AIR FILTER	TYPE		PF-5
	MANOMETER	SET (S)	1
	DIFFERENTIAL PRESSURE SWITCH FOR FILTER CLOG ALARM	SET (S)	1
PHASE			Phase I
ELECTRICAL PANEL BOARD NO.			TH-BKK02-02-06-MCP-027 TH-BKK02-02-06-MCP-028 TH-BKK02-02-06-MCP-029 TH-BKK02-02-06-MCP-030

ABBREVIATION

AHU - CHILLED WATER COIL AIR HANDLING UNIT

FCU - CHILLED WATER COIL FANCOIL UNIT

NOTES :
1. MAX. SUPPLY AIR TEMPERATURE SHALL BE THE CONDITION OF SUPPLY AIR WHICH IS MEASURED AT AIR TERMINAL OR AIR OUTLET. THE CONTRACTOR SHALL COMPENSATE THE HEAT GENERATED FROM FAN'S MOTOR TO ACHIEVE THAT DESIRED SUPPLY AIR TEMPERATURE.
2. COOLING COIL FACE VELOCITY SHALL NOT EXCEED 2.5 m/s. AHU FAN OUTLET VELOCITY SHALL NOT EXCEEDING 12 m/s.
3. WATER PRESSURE DROP OF COOLING COIL SHALL NOT EXCEED 45 kPa
4. EXTERNAL STATIC PRESSURE OF BLOWER SHOWN IN SCHEDULE SHALL BE THE SUM OF ALL SYSTEM COMPONENT PRESSURE LOSSES EXCEPT COOLING COIL AND CASING OF AHU OR FCU.
5. TYPE OF AHU & FCU

5.1 FOR AHU :
- V V- x = VERTICAL MOUNTED, VERTICAL DISCHARGE
- V H- x = VERTICAL MOUNTED, HORIZONTAL DISCHARGE
- H V- x = HORIZONTAL MOUNTED, VERTICAL DISCHARGE
- H H- x = HORIZONTAL MOUNTED, HORIZONTAL DISCHARGE

<u>X</u>
- S = SINGLE SKIN TYPE
- D = DOUBLE SKIN TYPE

5.2 FOR FCU
- FC = FLOOR MOUNTED, CONCEALED TYPE
- FE = FLOOR MOUNTED, EXPOSED TYPE
- CE = CEILING MOUNTED, EXPOSED TYPE
- CP = CEILING MOUNTED, CONCEALED TYPE W/ RETURN BOX
- CC = CEILING MOUNTED, CONCEALED TYPE
- CCS = CEILING MOUNTED, CASSETTE TYPE
- WE = WALL MOUNTED, EXPOSED TYPE

6. TYPE OF CONTROL VALVE (PIBCV-PRESSURE INDEPENDENT BALANCING CONTROL VALVE)
- 2W-O/F = 2-WAY MOTORIZED VALVE ; ON-OFF TYPE
- 2W-P = 2-WAY MOTORIZED VALVE ; PROPORTIONAL TYPE

7. TYPE OF AIR FILTERS
- 7 TYPE "PF-1" PRE FILTER, PANEL FILTER, POLYESTER SYNTHETIC FIBER, 9mm.
- 7 TYPE "PF-2" PRE FILTER, PANEL FILTER, POLYESTER SYNTHETIC FIBER, 50mm. EU2 RATING OR MERV 4
- 7 TYPE "PF-3" PRE FILTER, PANEL FILTER, GLASS FIBER, 50mm. EU 3 RATING OR MERV 5
- 7 TYPE "PF-4" PRE FILTER, EXTENED SURFACE PLEATED TYPE PANEL FILTER, GLASS FIBER, 100mm. EU4 RATING OR MERV 6-8
- 8 TYPE "PF-5" PRE FILTER, EXTENED SURFACE PLEATED TYPE PANEL FILTER, GLASS FIBER, 100mm. EU5 RATING OR MERV 8-10
- 8 TYPE "MF-1" MEDIUM FILTER, EXTENDED SURFACE POCKET TYPE MEDIUM FILTER, GLASS FIBER, EU6 RATING OR MERV 10-13
- 8 TYPE "MF-2" MEDIUM FILTER, EXTENDED SURFACE POCKET TYPE MEDIUM FILTER, GLASS FIBER, 550mm., EU7 RATING OR MERV 13-14
- 8 TYPE "MF-3" MEDIUM FILTER, EXTENDED SURFACE PLEATED TYPE MEDIUM FILTER, GLASS FIBER EU7 RATING OR MERV 13-14

* FOR ALL AHU IN TR ROOM TO BE ACTIVATE WHEN TEMPERATURE IS OVER THAN 32°C (THIS TEMPERATURE CAN BE ADJUST ON SITE)

COMPUTER ROOM FAN WALL UNIT (BY LLE CONTRACTOR - FOR INFORMATION ONLY)

No.	AREA SERVED	QTY.	AIR SIDE – CHW COOLING COIL (COOLING ONLY) NET SENSIBLE (kW)	AIR ENTERING TEMP. (°C DB)	AIR ENTERING TEMP. (RH%)	AIR LEAVING TEMP. (°C DB)	AIR LEAVING TEMP. (RH%)	WATER SIDE CHW ENTERING TEMP. (°C)	CHW LEAVING TEMP. (°C)	CHW FLOW RATE (l/s)	FAN SECTION SUPPLY AIR QUANTITY (m3/s)	EXT. STATIC PRESSURE (Pa)	TOTAL INPUT POWER (kW)	POWER SUPPLY (V/ø/Hz)	PHASING	SERVE BY	REMARKS
TH-BKK2-02-02-FWU-(001-010)	02-02-006 DATA HALL A	10 (8 duty,2 st.by)	256.0	36	28.3	24	56.4	18	26	7.6	17.8	100	12.8	400/3/50	Phase I	TH-BKK2-02-02-CHBT-001 to 006	REFER TO LLE FWU EQUIPMENT DATA SHEET FOR A COMPLETE INFORMATION OF MISCELLANEOUS ITEMS
TH-BKK2-02-02-FWU-(011-020)	02-02-017 DATA HALL C	10 (8 duty,2 st.by)	256.0	36	28.3	24	56.4	18	26	7.6	17.8	100	12.8	400/3/50	Phase I		
TH-BKK2-02-03-FWU-(001-010)	02-03-006 DATA HALL A	10 (8 duty,2 st.by)	256.0	36	28.3	24	56.4	18	26	7.6	17.8	100	12.8	400/3/50	Phase II	TH-BKK2-02-02-CHBT-001 to 006	REFER TO LLE FWU EQUIPMENT DATA SHEET FOR A COMPLETE INFORMATION OF MISCELLANEOUS ITEMS
TH-BKK2-02-03-FWU-(011-020)	02-03-010 DATA HALL B	10 (8 duty,2 st.by)	256.0	36	28.3	24	56.4	18	26	7.6	17.8	100	12.8	400/3/50	Phase II		
TH-BKK2-02-03-FWU-(021-030)	02-03-015 DATA HALL C	10 (8 duty,2 st.by)	256.0	36	28.3	24	56.4	18	26	7.6	17.8	100	12.8	400/3/50	Phase II		
TH-BKK2-02-04-FWU-(001-010)	02-04-006 DATA HALL A	10 (8 duty,2 st.by)	256.0	36	28.3	24	56.4	18	26	7.6	17.8	100	12.8	400/3/50	Phase III	TH-BKK2-02-02-CHBT-001 to 006	REFER TO LLE FWU EQUIPMENT DATA SHEET FOR A COMPLETE INFORMATION OF MISCELLANEOUS ITEMS
TH-BKK2-02-04-FWU-(011-020)	02-04-010 DATA HALL B	10 (8 duty,2 st.by)	256.0	36	28.3	24	56.4	18	26	7.6	17.8	100	12.8	400/3/50	Phase III		
TH-BKK2-02-04-FWU-(021-030)	02-04-015 DATA HALL C	10 (8 duty,2 st.by)	256.0	36	28.3	24	56.4	18	26	7.6	17.8	100	12.8	400/3/50	Phase III		
TH-BKK2-02-05-FWU-(001-009)	02-05-006 DATA HALL A	9 (7 duty,2 st.by)	256.0	36	28.3	24	56.4	18	26	7.6	17.8	100	12.8	400/3/50	Phase IV	TH-BKK2-02-02-CHBT-001 to 006	REFER TO LLE FWU EQUIPMENT DATA SHEET FOR A COMPLETE INFORMATION OF MISCELLANEOUS ITEMS
TH-BKK2-02-05-FWU-(010-018)	02-05-022 DATA HALL B	9 (7 duty,2 st.by)	256.0	36	28.3	24	56.4	18	26	7.6	17.8	100	12.8	400/3/50	Phase IV		

* NOTE: -TO REFER TO LLE FWU FAT REPORT FOR UNIT ACTUAL PERFORMANCE INFORMATION SUCH AS COOLING AND AIR SUPPLY RATE.
-PROVIDED LOOSE BY THE LLE, FWU's SHALL BE FURNISHED AND INSTALLED WITH MERV 8 AIR FILTERS BY FIT-OUT CONTRACTOR.
-FWU's SHALL BE EQUIPPED WITH TEMPORARY AIR FILTERS DURING CONSTRUCTION & Cx ACTIVITIES AND BE REPLACED JUST BEFORE HANDOVER.

PRINT IN COLOUR

OWNER
STTelemedia Global Data Centres
STT GDC (THAILAND) CO., LTD.
944 Mitrtown Office Tower, 22nd-23rd Floor
Rama 4 Road, Wangmai, Pathumwan, Bangkok 10330

ENGINEERING
aurecon
www.aurecongroup.com
AURECON CONSULTING (THAILAND) CO., LTD.
89 AIA Capital Center Building, 21st Floor, Unit 2104-2107
Ratchadapisek Road, Dindaeng, Dindaeng, Bangkok 10400

STRUCTURAL REVIEWER
สมภพ เงาจินตรักษ์ วย. 1754

STRUCTURAL
วีรพจน์ ปิตุปกรณ์วุฒิ วย. 1488
ภัทรายุส ไวจรรยา สย. 9229
ณิชชา เต็กมารักษ์ ภย. 64414

SANITARY AND FIRE PROTECTION
ทัศนีย์ ผาติเวทย์ วส. 209
ศิรวิทธ์ เทพสุวรรณ สส. 438
กชกร มั่นคง ภส. 3502
ปักปั่น มีประดิษฐ์ ภส. 3907
รณกร วุทธานันท์ ภส. 4891
พงศ์รพี นิลวัชราภรณ์ ภส. 6968

ELECTRICAL AND COMMUNICATIONS
เอกรัฐ พรมั่นคงสุข วฟก. 1297
เกียรติศักดิ์ ทองอ่อน สฟก. 6447
ชุติกาญจน์ สินโสภา สฟก. 6875
เบญญา แดงประเสริฐ ภฟก. 52996

AIR CONDITIONING AND VENTILATION
สุชาติ ศิริทาวรจันทร์ วก. 848
เกลอ จงชัยกิจ สก. 4976
ชุติวัต ดีเมืองสอง สก. 5005

ARCHITECTURAL
StevenLeach Partners in creative solutions
STEVEN J. LEACH ARCHITECTS LIMITED
The Millennia Building, 18th Floor, Unit 1802-1803
62 Soi Langsuan, Lumphini, Pathum Wan, Bangkok 10330

ARCHITECT
ฐากูร สุวรรณสุขุม ว-สถ 603
เฉลิมชัย ประยูรโต ส-สถ 3222

REV	DATE	DESCRIPTION	APP
0	17/10/25	ISSUED FOR CONSTRUCTION	CW

SCALE NTS | SIZE A0 | CONSTRUCTION ISSUE – NOT FOR BMA SUBMISSION

DRAWN SP | DESIGNED KC | CHECKED SS | APPROVAL SS | DATE 17/10/25

PROJECT
TERRA NORTH
6 STOREY BUILDING
ซอยรามคำแหง 28 ถนนรามคำแหง
แขวง วงหมาก เขตบางกะปิ กรุงเทพมหานคร 10240

DRAWING TITLE
MECHANICAL SERVICES EQUIPMENT SCHEDULE SHEET 3

DRAWING NUMBER
523213 - 02 - DRG - ME-0203 REV 0

Plot Date: 18/11/2025 11:52:01 AM Office:
Filename: Autodesk Docs://A78121 - Project Terra South and North Building/523213-NOR-ME-MOD-00-001.rvt