

**REQUEST FOR INFORMATION (RFI)**

<b>PROJECT :</b>	BKK2	<b>R.F.I. NO. :</b>	523213-01-RFI-ME-0006
<b>TO :</b>	CTA	<b>ATTENTION :</b>	CTA
<b>SUBMITTED DATE</b>	12-Jan-26	<b>NEED REPLY BY DATE :</b>	19-Jan-26
<b>SUBMISSION OF :</b> <input checked="" type="checkbox"/> Q&A <input checked="" type="checkbox"/> Drawing <input type="checkbox"/> Document <input type="checkbox"/> Others (as specified below)			
<b>SUBJECT :</b> Request for Confirmation - Cooling Coil amount and type for PAHU 1st & Roof FL			
<b>Total Page (s) :</b> 3 <b>(Including this page)</b>			
<b>FUNCTION :</b> <input type="checkbox"/> Structural (ST) <input type="checkbox"/> Electrical & Communication (EL) <input checked="" type="checkbox"/> Mechanical (ME) <input type="checkbox"/> Vertical Transport (VT) <input type="checkbox"/> Architectural (AR) <input type="checkbox"/> Fire Protection (FI) <input type="checkbox"/> Hydraulic & Sanitary (HY) <input type="checkbox"/> Other (O)			

**(1) CONTRACTOR REQUEST FOR INFORMATION :**

With reference to DWG No. 523213-02-DRG-ME-0114, the detailed drawing indicates 2 cooling coils, whereas DWG No. 523213-02-DRG-ME-0204 shows 3 cooling coils.

1) Kindly confirm the correct quantity of cooling coils to be considered.

2) Kindly confirm whether DX-Coil 2 and 3 are DX coils (refrigerant type) or cooling coils (chilled water type).

'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 : Please Comfirm Cooling Coil amount and type for PAHU 1st & Roof FL

From : GAA Group

By :

Mr. Itsarate Trachuengtong/  
Project Manager

Date : 12-Jan-26

Reviewed By : Commtech Asia (Thailand)

Name / Position Bundit, S /

Mechanical Project Manager  
09 Feb 2026

**(3) ATTN : AURECON**

For Approval  See Note  Please Clarify

Note : Please see equipment schedule.

From : Commtech Asia (Thailand)

By :

Name / Position ( )

Date :

Reviewed By : AURECON

Name / Position ( )

09/02/2026

**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 taken by the contractor does not relieve the contractor of his contractual obligations nor of his responsibilities of ensuring the work is carried out in accordance with the contract documents. Any amendment does not constitute an order or authority for a price variation to the contract.

**(4) ATTN : STT GDC**

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

Note :

From : AURECON

By :

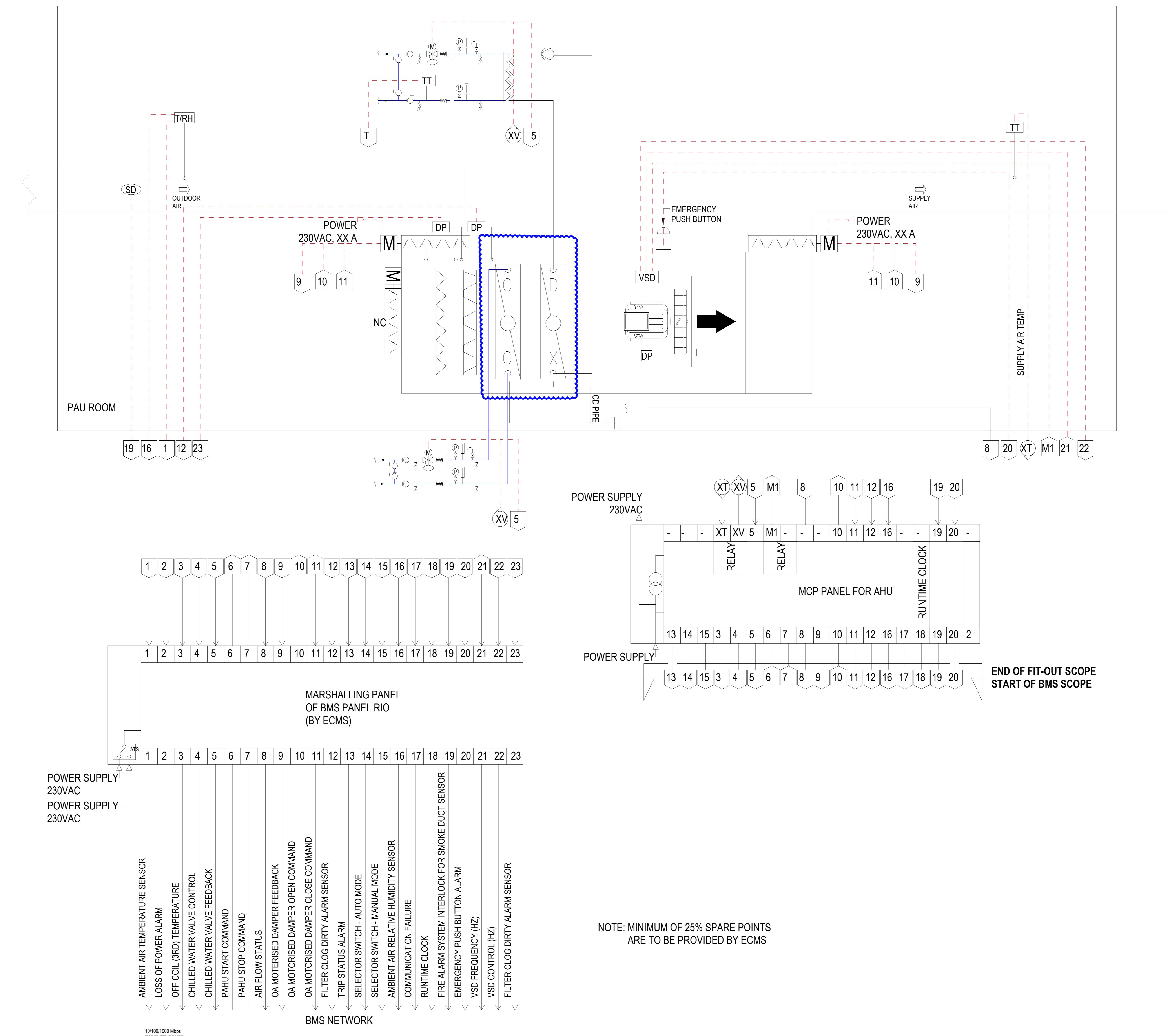
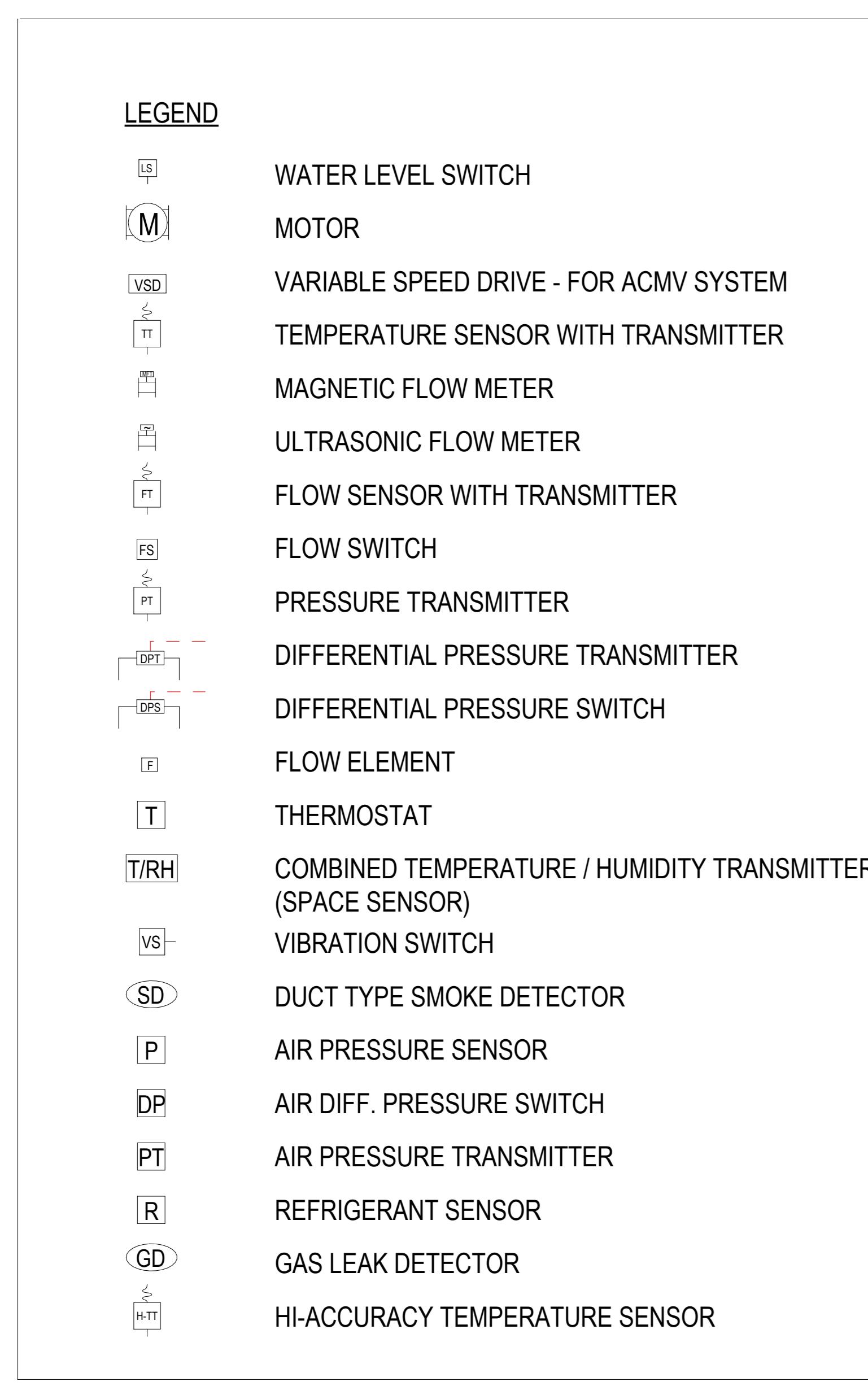
Name / Position ( )

Date :

Reviewed By : STT GDC

Name / Position

Date :



## **DEDICATED PRE-COOL OUTDOOR AIR HANDLING UNIT**

N7

**NOTE: MINIMUM OF 25% SPARE POINTS  
ARE TO BE PROVIDED BY ECMS**

PRE-COOLED AIR HANDLING UNITS SCHEDULE													
UNIT NO.	TH-BKK2-02-01-PAHU-001			TH-BKK2-02-07-PAHU-(001-003)			TH-BKK2-02-07-PAHU-004			TH-BKK2-02-07-PAHU-005			
AREA SERVED	LEVEL 1	ROOF											
QUANTITY	SET (S)	HU DOUBLE SKIN											
PAU TYPE		COOLING COIL	DX COIL 1	DX COIL 2	COOLING COIL	DX COIL 1	DX COIL 2	COOLING COIL	DX COIL 1	DX COIL 2	COOLING COIL	DX COIL 1	DX COIL 2
UNIT POWER CONSUMPTION	KW	1.7	1.7	1.7	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93	1.93
COIL COND.	DX COMPRESSOR TYPE	-	FIXED	INVERTER	-	FIXED	INVERTER	-	FIXED	INVERTER	-	FIXED	INVERTER
	COMPRESSOR MIN.C.O.P	-	6.7	5.6	-	6.7	5.6	-	6.7	5.6	-	6.7	5.6
	COMPRESSOR POWER KW	-	2.9	3.3	-	7.2	8.1	-	7.2	8.1	-	7.2	8.1
	NO OF ROWS	9	4	5	9	4	5	9	4	5	9	4	5
	TOTAL CAPACITY KW	51.2	19.5	18.3	126.7	48.3	45.2	126.7	48.3	45.2	126.7	48.3	45.2
	SENSIBLE CAPACITY KW	19.1	5.8	6.5	41.2	14.4	16.0	47.2	14.4	16.0	47.2	14.4	16.0
	CHW FLOW RATE L/s	1.53	0.76	0.73	3.79	1.92	1.80	3.79	1.92	1.80	3.79	1.92	1.80
	ENT. AIR TEMP °CDB/CWB	40/53.7	23/42.1	18/21.8	40/53.7	23/42.1	18/21.8	40/53.7	23/42.1	18/21.8	40/53.7	23/42.1	18/21.8
	LEAVING AIR TEMP. °CDB/CWB	23/42.1	18/21.8	12/41.3	23/42.1	18/21.8	12/41.3	23/42.1	18/21.8	12/41.3	23/42.1	18/21.8	12/41.3
	ENT. WATER TEMP °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
	LEAV.WATER TEMP° C	26.0	-	-	26.0	-	-	26.0	-	-	26.0	-	-
SUPPLY AIR	L/s	930			2300			2300			2300		
OUTDOOR AIR	L/s	930			2300			2300			2300		
DRAIN PIPE SIZE	Ømm	40			50			50			50		
CHW COIL	CONNECTION SIZE	Ømm	50	50	80	80	80	80	80	80	80	80	80
	TYPE OF CONTROL VALVE	2W-P	2W-O/F	2W-P	2W-O/F								
BLOWER	EXTERNAL ST. PR.	Pa	500		600		600		600		600		600
	APPROX.	kW	1.5		4.0		4.0		4.0		4.0		4.0
	STARTER TYPE	EC Fan			EC Fan		EC Fan		EC Fan		EC Fan		EC Fan
	V / PH / Hz	400/3/50			400/3/50		400/3/50		400/3/50		400/3/50		400/3/50
AIR FILTER	TYPE	PF-2MF-3			PF-2MF-3		PF-2MF-3		PF-2MF-3		PF-2MF-3		PF-2MF-3
	MANOMETER SET (S)	2			2		2		2		2		2
	DIFFERENTIAL PRESSURE SWITCH FOR FILTER CLOG ALARM SET (S)	2			2		2		2		2		2
CDU TYPES	UNIT INTEGRATED - WATER COOLED UNIT (WCU). FIXED COMP REJECTS TO CHW CIRCUIT. INVERTER COMP REJECTS TO CHW CIRCUIT	UNIT INTEGRATED - WATER COOLED UNIT (WCU). FIXED COMP REJECTS TO CHW CIRCUIT. INVERTER COMP REJECTS TO CHW CIRCUIT	UNIT INTEGRATED - WATER COOLED UNIT (WCU). FIXED COMP REJECTS TO CHW CIRCUIT. INVERTER COMP REJECTS TO CHW CIRCUIT	UNIT INTEGRATED - WATER COOLED UNIT (WCU). FIXED COMP REJECTS TO CHW CIRCUIT. INVERTER COMP REJECTS TO CHW CIRCUIT	UNIT INTEGRATED - WATER COOLED UNIT (WCU). FIXED COMP REJECTS TO CHW CIRCUIT. INVERTER COMP REJECTS TO CHW CIRCUIT	UNIT INTEGRATED - WATER COOLED UNIT (WCU). FIXED COMP REJECTS TO CHW CIRCUIT. INVERTER COMP REJECTS TO CHW CIRCUIT	UNIT INTEGRATED - WATER COOLED UNIT (WCU). FIXED COMP REJECTS TO CHW CIRCUIT. INVERTER COMP REJECTS TO CHW CIRCUIT	UNIT INTEGRATED - WATER COOLED UNIT (WCU). FIXED COMP REJECTS TO CHW CIRCUIT. INVERTER COMP REJECTS TO CHW CIRCUIT	UNIT INTEGRATED - WATER COOLED UNIT (WCU). FIXED COMP REJECTS TO CHW CIRCUIT. INVERTER COMP REJECTS TO CHW CIRCUIT	UNIT INTEGRATED - WATER COOLED UNIT (WCU). FIXED COMP REJECTS TO CHW CIRCUIT. INVERTER COMP REJECTS TO CHW CIRCUIT	UNIT INTEGRATED - WATER COOLED UNIT (WCU). FIXED COMP REJECTS TO CHW CIRCUIT. INVERTER COMP REJECTS TO CHW CIRCUIT	UNIT INTEGRATED - WATER COOLED UNIT (WCU). FIXED COMP REJECTS TO CHW CIRCUIT. INVERTER COMP REJECTS TO CHW CIRCUIT	
FACE VELOCITY	1.8 m/s			1.8 m/s									
PHASE	PHASE I			PHASE II			PHASE III			PHASE IV			PHASE IV
ELECTRICAL PANEL BOARD NO.	TH-BKK2-02-01-MCP-026			TH-BKK2-02-07-MCP-(001-003)			TH-BKK2-02-07-MCP-004			TH-BKK2-02-07-MCP-005			TH-BKK2-02-07-MCP-005
SERVE BY TES													

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 FANS 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 EXCEED 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  
  
X  
S = SINGLE SKIN TYPE  
D = DOUBLE SKIN TYPE

6. TYPE OF CONTROL VALVE (PIBV=PRESSURE INDEPENDENT BALANCING CONTROL VALVE)  
2W-O/F = 2-WAY MOTORIZED VALVE : ON-OFF TYPE  
2W-P = 2-WAY MOTORIZED VALVE : PROPORTIONAL TYPE  
3W-O/F = 3-WAY MOTORIZED VALVE : ON-OFF TYPE  
7. TYPE OF AIR FILTERS  
7.1 TYPE "PF-1" PRE FILTER, PANEL FILTER, POLYESTER SYNTHETIC FIBER, 9mm.  
7.2 TYPE "PF-2" PRE FILTER, PANEL FILTER, POLYESTER SYNTHETIC FIBER, 50mm. EU2 RATING OR MERV 4  
7.3 TYPE "PF-3" PRE FILTER, PANEL FILTER, GLASS FIBER, 50mm. EU3 RATING OR MERV 5  
7.4 TYPE "PF-4" PRE FILTER, EXTENDED SURFACE PLEATED TYPE PANEL FILTER, GLASS FIBER, 100mm. EU4 RATING OR MERV 6-8  
7.5 TYPE "PF-5" PRE FILTER, EXTENDED SURFACE PLEATED TYPE PANEL FILTER, GLASS FIBER, 100mm. EU5 RATING OR MERV 8-10  
7.6 TYPE "MF-1" MEDIUM FILTER, EXTENDED SURFACE POCKET TYPE MEDIUM FILTER, GLASS FIBER, EU6 RATING OR MERV 10-13  
7.7 TYPE "MF-2" MEDIUM FILTER, EXTENDED SURFACE POCKET TYPE MEDIUM FILTER, GLASS FIBER, 50mm, EU7 RATING OR MERV 13-14  
7.8 TYPE "MF-3" MEDIUM FILTER, EXTENDED SURFACE PLEATED TYPE MEDIUM FILTER, GLASS FIBER EU8 RATING OR MERV 13-14

\* SELECTION FOR 0.5 WCMH MAXIMUM FAN POWER RATING

CHILLERS SCHEDULE (BY LLE CONTRACTOR - FOR INFORMATION ONLY)				
REQUIRED PERFORMANCES		Unit Data Each	Unit Data Each	Unit Data Each
UNIT NO.	TH-BKK2-02-06-CH-01 to 03(Duty 2 St by 1) (Phase 1)	TH-BKK2-02-06-CH-04 (Phase 2)	TH-BKK2-02-06-CH-05 (Phase 3)	TH-BKK2-02-06-CH-06 (Phase 4)
QUANTITY	SET (S)	3	1	1
CHILLER ARRANGEMENT		Single Unit Multi-Stage Single Compressor	Single Unit Multi-Stage Single Compressor	Single Unit Multi-Stage Single Compressor
TYPE OF COMPRESSOR		Centrifugal with oil lubricant bearing or Oil Free Bearing	Centrifugal with oil lubricant bearing or Oil Free Bearing	Centrifugal with oil lubricant bearing or Oil Free Bearing
TYPE OF CONDENSER		Water Cooled	Water Cooled	Water Cooled
TYPE OF REFRIGERANT		R-1233zd(E) or R-514A or 1234ZE	R-1233zd(E) or R-514A or 1234ZE	R-1233zd(E) or R-514A or 1234ZE
COOLING CAPACITY kW(REFRIGERATION)		5627 kW Ref (1600 RT)	5627 kW Ref (1600 RT)	5627 kW Ref (1600 RT)
CHILLED WATER FLOW RATE L/s		170 L/s (1.67 gpm/ton)	170 L/s (1.67 gpm/ton)	170 L/s (1.67 gpm/ton)
CHILLED WATER TEMP. OUTIN °C		18.02/0	18.02/0	18.02/0
CONDENSER WATER FLOW RATE L/s		302	302	302
CONDENSER WATER TEMP. OUTIN °C		38.7/3.2 (extreme), 36.7/3.1.2 (Normal)	38.7/3.2 (extreme), 36.7/3.1.2 (Normal)	38.7/3.2 (extreme), 36.7/3.1.2 (Normal)
COOLER FOULING FACTOR (Based on ARI 550/590)	m <sup>2</sup> 0.8CW	0.0176	0.0176	0.0176
CONDENSER FOULING FACTOR (Based on ARI 550/590)	m <sup>2</sup> 0.8CW	0.044	0.044	0.044
MAX PRESSURE DROP FOR COOLER kPa		45 kPa(15 Ft Wg.)	45 kPa(15 Ft Wg.)	45 kPa(15 Ft Wg.)
MAX PRESSURE DROP FOR CONDENSER kPa		60 kPa(20 Ft Wg.)	60 kPa(20 Ft Wg.)	60 kPa(20 Ft Wg.)
COOLER WORKING PRESSURE kPa		1034 kPa(150 Psig.)	1034 kPa(150 Psig.)	1034 kPa(150 Psig.)
CONDENSER WORKING PRESSURE kPa		1034 kPa(150 Psig.)	1034 kPa(150 Psig.)	1034 kPa(150 Psig.)
NO. OF PASS OF COOLER		2 Pass	2 Pass	2 Pass
NO. OF PASS OF CONDENSER		2 Pass	2 Pass	2 Pass
EE.CONSUMPTION kW		640.0	640.0	640.0
COEFFICIENT OF PERFORMANCE (COP) kWREE / kWEE	100% Load	See LLE Chiller Equipment Data Sheet	See LLE Chiller Equipment Data Sheet	See LLE Chiller Equipment Data Sheet
TYPE OF COMPRESSOR MOTOR STARTER		VSD	VSD	VSD
ELECTRICAL SUPPLY V/PH/Hz		400/3/50	400/3/50	400/3/50
ELECTRICAL PANEL BOARD NO.	TH-BKK2-02-MSSB01 to 03	TH-BKK2-02-MSSB04	TH-BKK2-02-MSSB05	TH-BKK2-02-MSSB06
PHASING	Phase I	Phase II	Phase III	Phase IV
NOTE :	1. EACH CHILLER TO INCLUDE AUTOMATIC BALL FILTRATION SYSTEM 2. CHILLER PERFORMANCE BASED ON ZERO TOLERANCE (REFER AHR)			

COOLING TOWERS SCHEDULE (BY LLE CONTRACTOR - FOR				