

**REQUEST FOR INFORMATION (RFI)**

<b>PROJECT :</b>	BKK2	<b>R.F.I. NO. :</b>	523213-01-RFI-ME-0007
<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 - PAHU Supply Air Conflict 1st FL			
<b>Total Page (s) :</b> 2 <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-0204, in the Pre-cooled Air Handling Units schedule (TH-BKK2-02-01-PAHU-001), the supply air is listed as 930 L/s.

However, in DWG No. 523213-02-DRG-ME-1001 summary, the supply air is conflicting. Could you please confirm the correct supply air for this unit?

'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 correct supply air rate.

From : GAA Group  
 By :   
 Name / Position : Mr. Itsarate Trachuengtong/  
 Project Manager  
 Date : 12-Jan-26

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

**(3) ATTN : AURECON**

For Approval  See Note  Please Clarify

Note : AUR:  
 Please see the material approved document for the PAHU.

From : Commtech Asia (Thailand)  
 By :  
 Name / Position ( )  
 Date :  
 Reviewed By : AURECON  
 Name / Position ( Kritchalat Onrathn )  
 Date : 09/02/2026

**(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 :

**CONTRACTOR DOCUMENT REVIEW**

<input type="checkbox"/> ACCEPTED
<input type="checkbox"/> REJECTED
<input checked="" type="checkbox"/> MAKE CORRECTIONS NOTED & PROCEED
<input type="checkbox"/> REVISE AND RESUBMIT

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

This review is only for general conformance 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 documents.  
 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

PRE-COOLED AIR HANDLING UNITS SCHEDULE													
UNIT NO.	TH-BKK2-02-01-PAHU-001			TH-BKK2-02-07-PAHU-003			TH-BKK2-02-07-PAHU-004			TH-BKK2-02-07-PAHU-005			
AREA SERVED	SET (S)	LEVEL 1			ROOF			ROOF			ROOF		
QUANTITY		HH,DOUBLE SKIN						HH,DOUBLE SKIN					
PAU TYPE		CLOUD COIL	DX COIL 1	DX COIL 2	CLOUD COIL	DX COIL 1	DX COIL 2	CLOUD COIL	DX COIL 1	DX COIL 2	CLOUD COIL	DX COIL 1	DX COIL 2
UNIT POWER CONSUMPTION	KW	7.7			19.3			19.3			19.3		
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	18/21.1	40/53.7	23/42.1	18/21.1	40/53.7	23/42.1	18/21.1	40/53.7	23/42.1	18/21.1
	LEAVING AIR TEMP. °CDB/CWB	23/42.1	18/21.1	12/41.3	23/42.1	18/21.1	12/41.3	23/42.1	18/21.1	12/41.3	23/42.1	18/21.1	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	0mm	40			50			50			50		
CHW COIL	CONNECTION SIZE	0mm	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	2W-P	2W-O/F	2W-P	2W-O/F	2W-P	2W-O/F	2W-P	2W-O/F
BLOWER	EXTERNAL ST. PR.	Pa	500		600		600		600		600		
	APPROX.	kW	1.5		4.0		4.0		4.0		4.0		
	STARTER TYPE	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		
AIR FILTER	TYPE	PF-2MF-3			PF-2MF-3		PF-2MF-3		PF-2MF-3		PF-2MF-3		
	MANOMETER SET (S)	2			2		2		2		2		
	DIFFERENTIAL PRESSURE SWITCH FOR FILTER CLOG ALARM SET (S)	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			
FACE VELOCITY		1.8 m/s			1.8 m/s			1.8 m/s			1.8 m/s		
PHASE	PHASE I	TH-BKK2-02-01-MCP-026			PHASE II	TH-BKK2-02-07-MCP-(001.002.003)		PHASE III	TH-BKK2-02-07-MCP-004		PHASE IV	TH-BKK2-02-07-MCP-005	
ELECTRICAL PANEL BOARD NO.													
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 = VERTICAL MOUNTED, VERTICAL DISCHARGE  
V-H = VERTICAL MOUNTED, HORIZONTAL DISCHARGE  
H-V = HORIZONTAL MOUNTED, VERTICAL DISCHARGE  
H-H = 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		18.0/2.0	18.0/2.0	18.0/2.0
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> 0.0KW		0.0176	0.0176	0.0176
CONDENSER FOULING FACTOR (Based on ARI 550/590) m <sup>2</sup> 0.0KW		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) kWREF / 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 INFORMATION ONLY)				
REQUIRED PERFORMANCES		UNIT DATA (EACH)		