


PALACE - (B+G+1+PH)		Bill No. 31	AIR CONDITIONING INSTALLATIONS		
		BILL OF QUANTITIES			
ITEM REF.	ITEM DESCRIPTION	QUANTITY	UNIT	UNIT RATE (QR)	TOTAL PRICE (QR)
	<p style="text-align: center;"><u>Bill No. 31</u></p> <p style="text-align: center;"><u>AIR CONDITIONING INSTALLATIONS</u></p> <p>Mitsubishi Electric - Wall Mounted (R32-Made In Thailand), Ducted Split (R410A- Made In Thailand) & Packaged Unit (R407C-Made In Malaysia)</p> <p><u>PENTHOUSE</u></p> <p>Split unit inverter Ducted Type with 15KW Maximum cooling Capacity (Device Code: PEY-P45JA, & Capacity = 4.26)</p> <p>Split unit inverter Ducted Type with 8.9KW Maximum cooling Capacity (Device Code: PEY-P24JA, & Capacity = 2.53)</p> <p>Package Unit Roof Top Type with 24KW Maximum cooling capacity-R407C (Device Code: PRC-C200MEA & Capacity = 6.8)</p> <p><u>FIRST FLOOR</u></p> <p>Split unit Hi Wall Type with 3.5KW Maximum Cooling Capacity-R32 (Device Code: MS-GS18VF & Capacity = 1.5)</p> <p>Split unit inverter Ducted Type with 10.7KW Maximum cooling Capacity (Device Code: PEY-P36JA, & Capacity = 3)</p> <p>Split unit inverter Ducted Type with 17.6KW Maximum cooling Capacity (Device Code: PEY-P60JA & Capacity = 5)</p> <p>Split unit inverter Ducted Type with 15KW Maximum cooling Capacity (Device Code: PEY-P45JA, & Capacity = 4.26)</p> <p>Split unit inverter Ducted Type with 8.9KW Maximum cooling Capacity (Device Code: PEY-P24JA, & Capacity = 2.53)</p> <p>Package Unit Roof Top Type with 48KW Maximum cooling capacity-R407C (Device Code: PRC-C400MEA & Capacity = 13.65)</p> <p>Package Unit Roof Top Type with 24KW Maximum cooling capacity-R407C (Device Code: PRC-C200MEA & Capacity = 6.8)</p>				
1		1	No.	27850	27850.00
2		1	No.	16500	16500.00
3		2	No	44200	88400.00
1		3	Nos.	3200	9600.00
2		2	Nos.	19500	39000.00
3		2	No.	33000	66000.00
4		3	Nos.	27850	83550.00
5		2	Nos.	16500	33000.00
6		8	Nos.	75075	600600.00
7		1	No	37400	37400.00

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	<u>AIR CONDITIONING INSTALLATIONS</u>				
	<u>GROUND FLOOR</u>				
1	Split unit inverter Ducted Type with 5.4KW Maximum cooling Capacity (Device Code: PEY-P18JA, & Capacity = 1.53)	4	Nos.	9945	39780.00
2	Split unit inverter Ducted Type with 8.9KW Maximum cooling Capacity (Device Code: PEY-P24JA, & Capacity = 2.53)	3	Nos.	16445	49335.00
3	Split unit Hi Wall Type with 5.2KW Maximum Cooling Capacity-R32 (Device Code: MS-GS18VF & Capacity = 1.5)	2	Nos.	3200	6400.00
4	Split unit inverter Ducted Type with 17.6KW Maximum cooling Capacity (Device Code: PEY-P60JA & Capacity = 5)	1	Nos.	33000	33000.00
5	Split unit inverter Ducted Type with 15KW Maximum cooling Capacity (Device Code: PEY-P45JA, & Capacity = 4.26)	9	Nos.	27850	250650.00
6	Split unit inverter Ducted Type with 10.7KW Maximum cooling Capacity (Device Code: PEY-P36JA, & Capacity = 3)	3	Nos.	19500	58500.00
9	Package Unit Roof Top Type with 70KW Maximum cooling capacity-R407C (Device Code: PRC-C600MEA & Capacity = 20)	1	No	110000	110000.00
	<u>BASEMENT FLOOR</u>				
1	Split unit inverter Ducted Type with 5.4KW Maximum cooling Capacity (Device Code: PEY-P18JA, & Capacity = 1.53)	6	Nos.	9945	59670.00
2	Split unit inverter Ducted Type with 8.9KW Maximum cooling Capacity (Device Code: PEY-P24JA, & Capacity = 2.53)	4	Nos.	16445	65780.00
3	Split unit Hi Wall Type with 9.5KW Maximum Cooling Capacity-R32 (Device Code: MS-GS36VF & Capacity = 3)	2	Nos.	6500	13000.00
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	<u>AIR CONDITIONING INSTALLATIONS</u>				
4	Split unit Hi Wall Type with 5.2KW Maximum Cooling Capacity-R32 (Device Code: MS-GS18VF & Capacity = 1.5)	10	Nos.	3200	32000.00
5	Package Unit Roof Top Type with 48KW Maximum cooling capacity-R407C (Device Code: PRC-C400MEA & Capacity = 13.65)	2	Nos.	75075	150150.00
	<u>SERVICE BUILDING</u>				
1	Split unit Hi Wall Type with 5.2KW Maximum Cooling Capacity-R32 (Device Code: MS-GS18VF & Capacity = 1.5)	6	Nos.	3200	19200.00
2	Split unit Hi Wall Type with 6.7KW Maximum Cooling Capacity-R32 (Device Code: MS-GS24VF & Capacity = 2)	6	Nos.	4500	27000.00
	Optional <u>SWIMMING POOL AREA</u>				
	Design Supply and Installation of Air Conditioning Unit at swimming pool area	221.3	m2		250000
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	SCOPE OF WORK				
1	Supply and Installation of Mitsubishi Electric Packaged Unit, Ductable & Split Unit as per Manufacture recommendation.				INCL.
2	Supply and Installation of Thermostats.				INCL.
3	Supply and Installation of Thermostat Wiring From Indoor To outdoor and To The Thermostat Location.				INCL.
4	Supply and Installation of standards Galvanized GI ductwork for Supply/Return air as per SMACNA and QCS 2014 Standards.				INCL. INCL.
5	All internal Air condition Ducts shall be insulated with 12mm thickness and aluminium foil faced Polyolefin insulation.				INCL. INCL.
6	Supply and Installation of Air outlets as per project requirement and as manufactured from HAWA or approved equal.				INCL. INCL.
7	Supply and installation wire between indoor and outdoor (Made in Turkey or India).				INCL.
8	Supply and Installation of PVC to the nearest drain point on rooftop as per requirement.				INCL.
9	Supply and installation LAWTON copper pipe (Made in UK) Or INDIGO copper pipe (Made in India).				INCL.
10	Termination of electrical wiring from the disconnect switch not more than one meter from the Air conditioning units.				INCL. INCL.
11	Supply and installation of shielded communication cable as per site requirement.				INCL.
12	Testing and Commissioning of complete units.				INCL.
	To Collection				2166365.00
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	AIR CONDITIONING INSTALLATIONS CONTRACTOR'S ADJUSTMENT Contractor shall insert in this section ADDITIONAL or ADJUSTMENTS on items/quantities related to the above; as required by the specifications/drawings and other tender documents, or as requirements by the Authorities, relevant Standards and Codes, and such other items that are necessary for the Contractor to complete the build up of the lump sum tender price for this bill/section of the complete scope of works. Contractor to list those items here with quantities and its corresponding all inclusive rates/cost as applicable.				
A	AIR BALANCING			INCL	INCL
B	DESIGN DRAWINGS+ AS-BUILT DRAWINGS			15000	15000
C	LINK THE ACs TO FIRE PANEL OR FIRE MODULE			40000	40000
D	PARKING EXHAUST FANS + TOILET +KITCHEN EXHAUST FANS AS PER SCHEDULE ON DRAWING			75000	75000
	To Collection			QR	130000.00
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	Bill No. 31 COLLECTION Page 1 to 4				2296365.00
					
	Carried To Summary			QR	2296365.00