

Tender for the design, supply, installation, testing and commissioning of an Air Conditioning System (inclusive of an Air Ventilation System) at a Boutique Hotel, Triq San Duminku, Victoria, Gozo		
<i>Bill no.</i>	<i>Bill Description</i>	<i>Sub-Total amount excluding VAT and all other charges applicable (Euro)</i>
Summary of Bills		
1	Air Conditioning System Installation	
2	Mechanical Ventilation System Installation	
Total Amount excl. of VAT (Euro)		€

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<i>Item</i>	<i>Description</i>	<i>Qty</i>	<i>Unit</i>	<i>Rate per Item excl. VAT including supply, delivery, installation and all other charges as applicable (Euro)</i>	<i>Sub-Total excl. VAT including supply, delivery, installation and all other charges as applicable (Euro)</i>
	Bill no. 1: Air Conditioning System				
	Refrigerant use shall have a low to medium green house warming potential and a zero Ozone Depletion Potential (ODP), All units shall be silent, with internal units having a sound pressure level within the room of up to 35 decibels so as to ensure a silent environment and a peaceful rest to the guests. The system shall be centrally controlled through an easy user interface with direct access to indoor unit main functions via web interface (and preferably touch screen). The system should facilitate energy saving through the monitoring of energy consumption on a daily and monthly basis, facilitate the detection of energy wastages, facilitate remote refrigerant containment check preventing and enable interlocking air conditioning operation with other equipment within the hotel. Integration with fire system is required to ensure safety in the eventuality of a fire within the premises, and the stopping of the system to minimize risk of fire-spread. The system should enable automatic switching of air condition whenever room is unoccupied after a defined period. The system should also automatically send e-mail alerts to report malfunctions.				
	VRF 1 - Guest Rooms				
	Supply, install and connect the following air conditioning equipment including all fittings, brackets, and accessories. Rate shall include delivery of equipment to the site and lifting of equipment to roof level with necessary crane/s				
1.01	38.0 kW [Nominal Cooling Capacity] VRF Outdoor Unit heating and cooling designated as VRF 1, installed at roof level as specified complete with rubber isolation mountings	1	No.		
	Supply, install and connect the following air conditioning equipment including all fittings, brackets, and accessories				
1.02	Main twin copper pipe work complete with thermal insulation, installed above soffit and in service shaft with pipe ring support brackets, and at roof level on cable tray as specified	30	m		
1.03	Branch twin copper pipe work complete with thermal insulation, installed above soffit, including pipe ring support fittings as specified	55	m		
	Supply, install and connect the following air conditioning indoor units and wired controllers including all fittings, brackets, and accessories as specified				
Subtotal Carried Forward (Euro)					

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1.04	4.5 kW [Nominal Cooling Capacity] concealed type Indoor Unit - c/w phenolic ducting, flexible duct connectors, plenum boxes, supply and return grilles as per drawing, brackets, and fittings. Colour and finish of grilles shall be determined by the client at a later stage	5	No.		
1.05	5.6 kW [Nominal Cooling Capacity] concealed type Indoor Unit - c/w phenolic ducting, flexible duct connectors, plenum boxes, supply and return grilles as per drawing, brackets, and fittings. Colour and finish of grilles shall be determined by the client at a later stage	2	No.		
1.06	Wired wall mounted remote controller for the above indoor units including installation of PVC conduit in chase and above soffit, and cabling as required	7	No.		
	Supply, install and connect the following air conditioning equipment including all fittings, brackets, and accessories				
1.07	20 mm diameter PVC drains pipe work complete with thermal insulation, installed above soffit, including pipe ring support fittings	30	m		
1.08	25 mm diameter PVC drains pipe work complete with thermal insulation, installed above soffit, including pipe ring support fittings	1	m		
	VRF 2 - Common Areas				
	Supply, install and connect the following air conditioning equipment including all fittings, brackets, and accessories. Rate shall include delivery of equipment to the site and lifting of equipment to roof level with necessary crane/s				
1.09	20.0 kW [Nominal Cooling Capacity] VRF Outdoor Unit heating and cooling designated as VRF 2, installed at roof level as specified complete with rubber isolation mountings	1	No.		
	Supply, install and connect the following air conditioning equipment including all fittings, brackets, and accessories.				
1.1	Main twin copper pipe work complete with thermal insulation, installed above soffit and in service shaft with pipe ring support brackets, and at roof level on cable tray as specified	35	m		
1.11	Branch twin copper pipe work complete with thermal insulation, installed above soffit, including pipe ring support fittings as specified	15	m		
	Supply, install and connect the following air conditioning indoor units and wired controllers including all fittings, brackets, and accessories as specified				
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1.12	5.6 kW [Nominal Cooling Capacity] 4 - Way Cassette Type Indoor Unit - 900 x 900 mm	1	No.		
1.13	7.1 kW [Nominal Cooling Capacity] 4 - Way Cassette Type Indoor Unit - 900 x 900 mm	1	No.		
1.14	7.1 kW [Nominal Cooling Capacity] - Hi Wall Type Indoor Unit	1	No.		
1.15	Wired wall mounted remote controller for the above indoor units including installation of PVC conduit in chase and above soffit, and cabling as required	3	No.		
	Supply, install and connect the following air conditioning equipment including all fittings, brackets, and accessories				
1.16	20 mm diameter PVC drains pipe work complete with thermal insulation, installed above soffit, including pipe ring support fittings	25	m		
	Supply, install and connect the following air conditioning equipment including all fittings, brackets, and accessories.				
1.17	Centralized wall mounted controller for VRF 1 and VRF 2 including PVC conduit in chase and cabling as required	1	No.		
	ELECTRICAL WORKS				
1.18	Item includes any electrical connections and cabling between indoor and outdoor units, and connection of power supply to double pole switch/s and isolating switch/s	1	L.S		
	CABLE MANAGEMENT				
	Supply and install the following;				
1.19	200 mm galvanized steel cable tray installed at roof level supported on U channel brackets at 1.5 m span and concrete slabs	20	m		
1.20	200 mm galvanized cable tray cover	20	m		
	TESTING AND COMMISSIONING				
1.21	Supply of 'As Fitted' Installation Drawings - three sets of copies	1	L.S		
1.22	Testing and Commissioning of the entire system	1	L.S		
Total Amount excl. VAT for Bill no. 1 (Euro)					

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	Bill no. 2: Mechanical Ventilation System Installation				
	BASEMENT LEVEL				
	Supply, install and connect the following equipment including all fittings, brackets, and accessories. Rate shall include delivery of equipment to the site and lifting of the same equipment to the required level with crane/s				
2.01	In-Line Axial Fan (Fresh air supply system) - FA 1 - 1,300 m³/Hr at 150 Pa [Nominal Duty], installed above soffit c/w flexible duct connectors on inlet and outlet ports, isolation brackets, acoustic silencers to 40 dB at one meter, drains pipe work, and all necessary fittings, as specified	1	No.		
2.02	In-Line Axial Fan (Extraction system) Fire Rated at 60 Minutes, 300 Degrees Celsius - EXT 1 - 1,300 m³/Hr at 150 Pa [Nominal Normal Duty], 2,200 m³/Hr at 250 Pa [Nominal Fire Duty] installed above soffit c/w flexible duct connectors on inlet and outlet ports, isolation brackets, acoustic silencers to 40 dB at one meter, drains pipe work, and all necessary fittings, as specified	1	No.		
	Supply, install and connect the following equipment including all fittings, brackets, elbows, transformations, flexible ducting, and accessories for a complete functional system				
2.03	Galvanized steel ducting including brackets and fittings - 200x200mm	55	m		
2.04	Galvanized steel ducting including brackets and fittings - 250x200mm	15	m		
2.05	Galvanized steel ducting including brackets and fittings - 250x250mm	5	m		
2.06	Galvanized steel ducting including brackets and fittings - 300x250mm	20	m		
2.07	Galvanized steel ducting including brackets and fittings - 350x200mm	10	m		
2.08	Galvanized steel wire mesh for inlet and exhaust point - 300x250mm	2	No.		
	Supply, install and connect the following equipment and accessories as specified				
2.09	Single deflection supply grille c/w opposed blade damper - 150x150mm. Colour and finish of grilles shall be determined by the client at a later stage	7	No.		
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2.1	Single deflection supply grille c/w opposed blade damper - 200x200mm. Colour and finish of grilles shall be determined by the client at a later stage	8	No.		
2.11	Fixed blade return grille c/w opposed blade damper - 150x150mm. Colour and finish of grilles shall be determined by the client at a later stage	7	No.		
2.12	Fixed blade return grille c/w opposed blade damper - 200x200mm. Colour and finish of grilles shall be determined by the client at a later stage	8	No.		
2.13	Volume control damper - 200x200mm	3	No.		
2.14	Fire damper - 200x200mm	1	No.		
2.15	Fire damper - 250x250mm	1	No.		
2.16	Filter box c/w filter panels F7 classification - 300x250mm	1	No.		
2.17	Filter box c/w filter panels G5 classification - 300x250mm	1	No.		
	ELECTRICAL WORKS				
2.18	Item includes any electrical connections and cabling between FA 1 & EXT 1, and control panel, and connection of power supply to double pole switch/s and isolating switch/s	1	L.S		
2.19	Control panel for FA 1 & EXT 1 c/w 24Hr timer, off, manual, auto, and overload switches, run and trip indicators, and three speed setting [nominal duty = medium speed]. Control panel shall be connected with Fire Alarm Panel	1	L.S		
	Supply, install and connect the following equipment and accessories as specified				
2.2	In-Line Axial Fan (Extraction system) - EXT 2 - 120 m³/Hr at 100 Pa [Nominal Duty], installed above soffit c/w PVC ducting, extraction valve 100 mm diameter, flexible duct connectors on inlet and outlet ports, isolation brackets, maximum noise level - 30 dB at one meter, gravity louvers and mesh on exhaust point, and all necessary fittings, as specified	1	No.		
	MECHANICAL VENTILATION FOR EN-SUITES				
	Supply, install and connect the following equipment and accessories as specified				
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2.21	In-Line Axial Fan (Extraction system) - EXT 3, 4, & 5 - 140 m³/Hr at 50 Pa [Nominal Duty], installed above soffit c/w PVC ducting, extraction valve 100 mm diameter, flexible duct connectors on inlet and outlet ports, isolation brackets, maximum noise level - 30 dB at one meter, gravity louvers and mesh on exhaust point, and all necessary fittings, as specified	3	No.		
2.22	In-Line Axial Fan (Extraction system) - EXT 6 - 100 m³/Hr at 50 Pa [Nominal Duty], installed above soffit c/w PVC ducting, extraction valve 100 mm diameter, flexible duct connectors on inlet and outlet ports, isolation brackets, maximum noise level - 30 dB at one meter, gravity louvers and mesh on exhaust point, and all necessary fittings, as specified	1	No.		
2.22	In-Line Axial Fan (Extraction system) - EXT 7 & 8 - 150 m³/Hr at 50 Pa [Nominal Duty], installed above soffit c/w PVC ducting, extraction valve 100 mm diameter, flexible duct connectors on inlet and outlet ports, isolation brackets, maximum noise level - 30 dB at one meter, gravity louvers and mesh on exhaust point, and all necessary fittings, as specified	2	No.		
2.23	In-Line Axial Fan (Extraction system) - EXT 9 - 100 m³/Hr at 50 Pa [Nominal Duty], installed above soffit c/w PVC ducting, extraction valve 100 mm diameter, flexible duct connectors on inlet and outlet ports, isolation brackets, maximum noise level - 30 dB at one meter, gravity louvers and mesh on exhaust point, and all necessary fittings, as specified	1	No.		
	ELECTRICAL WORKS				
2.24	Item includes any electrical connections and cabling between extraction fan and control equipment	1	L.S		
	TESTING AND COMMISSIONING				
2.25	Supply of 'As Fitted' Installation Drawings - three sets of copies	1	L.S		
2.26	Testing and Commissioning of the entire system	1	L.S		
Total Amount excl. VAT for Bill no. 2 (Euro)					

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<i>Item</i>	<i>Description</i>	<i>Allocated Number of Hours</i>	<i>Hourly Rate - Normal Working Hours (incl. All expenses that may be applicable but excl. VAT)</i>	<i>Hourly Rate - After Normal Working Hours (incl. All expenses that may be applicable but excl. VAT)</i>
	Bill no. 3 : Day works Rates			
	The Contractor shall insert the appropriate rates which may be required for use on day works and that will apply up to the expiration of the defects liability period			
3.01	Electrical technician	40		
3.02	Assistant to electrical technician	40		
3.03	Plumber	40		
3.04	Assistant to plumber	40		
3.05	Electronics technician	8		
3.06	Assistant to electronics technician	8		
3.07	Unskilled labourer	40		