

1.0 Bill of Quantities: Preliminaries					
Item Number	Description	Quantity	Unit	Rate € (Excluding VAT)	Total € (Excluding VAT)
PREAMBLE					
1.01	The price of all zero rated items, or items where the price has been left blank or ticked off are deemed to be included in other items of these Bills. All unit prices and item amounts given in these Bills are inclusive of all levies, duties, charges, fees and similar costs, but exclusive of Value Added Tax (VAT); otherwise they are all-inclusive and include inter alia materials, contractor's equipment, waste, profit, working in different stages / phases and at different levels and heights, working around existing services, any labour wage increments and other cost escalation occurring during the 'Time for Completion' or the 'Defects Notification Period', and including any extension of either, unless any extension is due to the Contracting Authority, in which case the Contractor shall be reimbursed on a pro-rata basis.	1	Lump Sum	included	included
HEALTH AND SAFETY					
1.02	Comply with the provisions of the Occupational Health and Safety Authority Act (Chapter 424 of the laws of Malta), together with LN 88 of 2018, and any regulations and relative Legal Notices made thereunder including provision of all Personal Protective Equipment and health and safety equipment in accordance with all Legal obligations, including laws, by-laws and legal notices in force for the entire duration of the contract.	1	Lump Sum	included	included
1.03	Provision for the submission of a Health & Safety Risk assessment report by a competent professional for the acceptance of the responsible Engineer. It shall be the Contractor's responsibility to adhere and comply with such report.	1	Lump Sum	included	included
1.04	Provision for the Engagement of a Qualified Occupational Health and Safety Competent Person, appointed in accordance with the Occupational Health and Safety Authority Act, (Chap. 424 of the Laws of Malta).The Health and Safety Competent Person shall be responsible for the Health and Safety of the works in progress.	1	Lump Sum	included	included
SITE REPRESENTATIVE/MANAGEMENT					
1.05	Provision for a competent authorised representative to be present on site during working hours for the programming, supervision, coordination and execution of any Works, including that of the sub-contractors, for the full duration of the works including the drawing up of records and daily reports etc. as deemed necessary.	1	Lump Sum	included	included
1.06	Provision for attendance to weekly and extraordinary site meetings as deemed necessary by the Employer / Engineer.	1	Lump Sum	included	included
1.07	Provision for a Quality Controller and certification of the installations by the Engineer.	1	Lump Sum	included	included

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	MEASUREMENT OF WORKS AND FEES				
1.08	Measure the work to ascertain the value of work properly executed; inform the Engineer before making any measurements and submit an interim application for verification and certification by the Engineer.	1	Lump Sum	included	included
1.09	Allow for Engineer's fees at the rate of two percent (2%) of the Contract Price for verification and certification of all the measured value of work.	1	Lump Sum	included	included
	INFORMATION SUBMITTED BY CONTRACTOR				
1.10	Allow for the preparation and submission on a timely basis contractor submittals as necessary and as per Engineer instructions and as per items required by the contract documents and specifically by the Technical specifications.	1	Lump Sum	included	included
1.11	Provision for the submittal of samples of all materials to be used in the course of the project to the responsible Engineer for approval prior to the commencement of such respective work.	1	Lump Sum	included	included
1.12	Preparation and submission of shop/working drawings for all MEP services on a timely basis as necessary and as per Engineer instructions and as per items required by the contract documents and specifically by the Technical specifications.	1	Lump Sum	included	included
1.13	Preparation and submission of As-Built/As-Fitted drawings in both hard copy and soft copy (.dwg) formats for all MEP services on a timely basis as necessary and as per Engineer instructions and as per items required by the contract documents and specifically by the Technical specifications.	1	Lump Sum	included	included
1.14	Upon Completion, submit to the Employer an organised handing over file and Operation & maintenance Manual, including any guarantees, warranties, Certifications, Test Results, as built drawings, Quality Assurance Plans etc. and all other information submitted during the execution of the Works. Include for an as-built comprehensive survey of the completed structure, Finishes and the restoration. Include for all floor plans, floor & ceiling levels, datum etc. Submit a digital copy to the Employer for their records	1	Lump Sum	included	included
	SITE FACILITIES AND GENERAL UP KEEP				
1.15	Provision of general site welfare facilities including portable toilets and their upkeeping, drinking water, first aid and any other requirements as specified by the OHSA.	1	Lump Sum	included	included
1.16	Provision for the general up-keep of site, including debris and waste generated from the activities related to the contract.	1	Lump Sum	included	included
	TEMPORARY SUPPLIES AND WORKS				
1.17	Provision for the temporary electrical supply including certification across all the site for the duration of the contract.	1	Lump Sum	included	included
1.18	Provision for the temporary water supply across all the site for the duration of the contract.	1	Lump Sum	included	included
1.19	Allow for all other temporary works, not already itemised, for the proper and safe execution of the Works, including their erection, maintenance, dismantling, modification and where required certification of the same throughout the entire course of the Works. Including, if an where required, for temporary works and measures deemed necessary to safeguard third-party property and for costs for protecting and / or supporting existing third party property adjacent to Site.	1	Lump Sum	included	included

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Item Number	Description	Quantity	Unit	Rate € (Excluding VAT)	Total € (Excluding VAT)
	SITE SCAFFOLDING				
1.20	Provision of erection and dismantling of scaffolding as per health and safety regulations and as deemed necessary for the duration of the contract. Include for any modification of the same during the course of the Works. Provide, install and maintain edge protection devices, guardrails, toe boards, floor opening covers and all other requisite safety measures to keep the Site, the Works and site operatives safe. Rate to include for scaffolding to be designed by a competent engineer and to be checked, certified and Scaff tagged by competent persons before use.	1	Lump Sum	included	included
	STATUTORY PERMITS, FEES AND INSURANCES				
1.21	Provision for fees related to any statutory permits required for the successful completion of the project as may be necessary for the Contractor's operation on site.	1	Lump Sum	included	included
1.22	Provision for a cover all (CAR) insurance as required the laws of the Country in order to ensure that all the works and personnel working on site shall be adequately covered by insurance policy. The period of insurance shall include the execution period of the project with an extension to cover also the defects liability period. If the execution period is extended the insurances shall be extended accordingly.	1	Lump Sum	included	included
1.23	Comply with all statutory obligations; national and local law and regulations. Give the necessary notices to the relative Authorities and Utility Services Providers where necessary. Liaise and cooperate with them as necessary	1	Lump Sum	included	included
Total carried forward to Item 1.0 in Summary Page					included

2.0 Bill of Quantities: Air Conditioning System					
Item Number	Description	Tender Quantity	Unit	Rate € (Excluding VAT)	Total € (Excluding VAT)
	SYSTEM A - Basement, Ground, Elevated Gound and First Floor (façade left)				
	<i>Supply, install, test and commission the following:</i>				
2.01	49kW VRF outdoor unit [heating and cooling] running on R410a refrigerant. Rate shall also include haulage of unit.	1	No.		€ -
	<i>Supply, install, test and commission the following indoor units complete with wall mounted remote controllers.</i>				
	<i>Basement Floor</i>				
2.02	High-wall unit - 3.6 kW Nominal cooling capacity.	1	No.		€ -
2.03	4-Way Cassette Unit - 4.5 kW Nominal cooling capacity.	4	No.		€ -
2.04	Wall mounted LED display controller, as specified.	2	No.		€ -
	<i>Ground Floor</i>				
2.05	High-wall unit - 4.5 kW Nominal cooling capacity.	2	No.		€ -
2.06	Wall mounted LED display controller, as specified.	1	No.		€ -
	<i>Elevated Ground Floor</i>				
2.07	High-wall unit - 2.8 kW Nominal cooling capacity.	1	No.		€ -
2.08	High-wall unit - 4.5 kW Nominal cooling capacity.	1	No.		€ -
2.09	Wall mounted LED display controller, as specified.	2	No.		€ -
	<i>First Floor</i>				
2.10	High-wall unit - 2.8 kW Nominal cooling capacity.	1	No.		€ -
2.11	High-wall unit - 4.5 kW Nominal cooling capacity.	2	No.		€ -
2.12	Wall mounted LED display controller, as specified.	3	No.		€ -
Total carried forward to next page					€ -

2.0 Bill of Quantities: Air Conditioning System					
Item Number	Description	Quantity	Unit	Rate € (Excluding VAT)	Total € (Excluding VAT)
Total brought forward from previous page					€ -
	<i>Supply, deliver to site, install and test for leakages (pressure testing with nitrogen gas), the following pipework. Pipework lengths shall include any necessary fittings, supporting U-channel brackets and pipe rings, insulation complete with polysolene cladding offering UV protection (for exterior pipework only) , type and colour to be approved in writing by the engineer. Detail of material and type of proposed supporting brackets shall be supplied with the offer. Drain pipes shall be installed to the nearest drain gulley. Installation shall only commence after approval in writing of the type of supports to be used. Brackets and supports shall be galvanised and spacing shall be as suggested by the pipe manufacturer:</i>				
2.13	Insulated twin main refrigerant copper pipe work suitable for R410a applications complete with ref net factory supplied joints - for the new additional 2 in number indoor units	20	m		€ -
	<i>Supply, deliver to site, install, test and commission uPVC condensate drains. Drain pipes from indoor units to discharge points as indicated including any necessary chasing. Pipes to be lagged.</i>				
2.14	Additional uPVC condensate drain pipework for 2 in number indoor units	25	m		€ -
	<i>Supply and install the following:</i>				
2.15	Control and power cabling suitably laid in conduit to/from controllers and to/from indoor and outdoor units and for copper at roof level and inside the shafts, together with cabling from isolators provided by others and equipment.	1	Lump Sum		€ -
Total carried forward to next page					€ -

2.0 Bill of Quantities: Air Conditioning System					
Item Number	Description	Quantity	Unit	Rate € (Excluding VAT)	Total € (Excluding VAT)
Total brought forward from previous page					€ -
	SYSTEM B - Elevated Ground and First Floor (Back side)				
	<i>Supply, install, test and commission the following:</i>				
2.16	46kW VRF outdoor unit [heating and cooling] running on R410a refrigerant. Rate shall also include haulage of unit.	1	No.		€ -
	<i>Supply, install, test and commission the following indoor units complete with wall mounted remote controllers.</i>				
	<i>Elevated Ground Floor</i>				
2.17	Ceiling Suspended Unit - 11.2 kW Nominal cooling capacity.	2	No.		€ -
2.18	High-wall unit - 2.8 kW Nominal cooling capacity.	1	No.		€ -
2.19	High-wall unit - 4.5 kW Nominal cooling capacity.	1	No.		€ -
2.20	Wall mounted LED display controller, as specified.	4	No.		€ -
	<i>First Floor</i>				
2.21	High-wall unit - 3.6 kW Nominal cooling capacity.	1	No.		€ -
2.22	High-wall unit - 4.5 kW Nominal cooling capacity.	3	No.		€ -
2.23	Wall mounted LED display controller, as specified.	4	No.		€ -
Total carried forward to next page					€ -

2.0 Bill of Quantities: Air Conditioning System					
Item Number	Description	Quantity	Unit	Rate € (Excluding VAT)	Total € (Excluding VAT)
Total brought forward from previous page					€ -
	<i>Supply and install the following:</i>				
2.24	Control and power cabling suitably laid in conduit to/from controllers and to/from indoor and outdoor units and for copper at roof level and inside the shafts, together with cabling from isolators provided by others and equipment.	1	Lump Sum		€ -
Provisional items - Existing copper pipework and drains to be retained					
	<i>Supply, deliver to site, install and test for leakages (pressure testing with nitrogen gas), the following pipework. Pipework lengths shall include any necessary fittings, supporting U-channel brackets and pipe rings, insulation complete with plysolene cladding offering UV protection (for exterior pipework only) , type and colour to be approved in writing by the engineer. Detail of material and type of proposed supporting brackets shall be supplied with the offer. Drain pipes shall be installed to the nearest drain gully. Installation shall only commence after approval in writing of the type of supports to be used. Brackets and supports shall be galvanised and spacing shall be as suggested by the pipe manufacturer:</i>				
2.25	Insulated twin main refrigerant copper pipe work suitable for R410a applications complete with ref net factory supplied joints.	30	m		€ -
	<i>Supply, deliver to site, install, test and commission uPVC condensate drains. Drain pipes from indoor units to discharge points as indicated including any necessary chasing. Pipes to be lagged.</i>				
2.26	uPVC condensate drain pipework.	20	m		€ -
Total carried forward to next page					€ -

2.0 Bill of Quantities: Air Conditioning System					
Item Number	Description	Quantity	Unit	Rate € (Excluding VAT)	Total € (Excluding VAT)
Total brought forward from previous page					€ -
	SYSTEM C - Elevated Ground and First Floor (right side)				
	<i>Supply, install, test and commission the following:</i>				
2.27	38kW VRF outdoor unit [heating and cooling] running on R410a refrigerant. Rate shall also include haulage of unit.	1	No.		€ -
	<i>Supply, install, test and commission the following indoor units complete with wall mounted remote controllers.</i>				
	<i>Elevated Ground Floor</i>				
2.28	High-wall unit - 4.5 kW Nominal cooling capacity.	2	No.		€ -
2.29	High-wall unit - 5.6 kW Nominal cooling capacity.	1	No.		€ -
2.30	Wall mounted LED display controller, as specified.	3	No.		€ -
	<i>First Floor</i>				
2.31	High-wall unit - 2.8kW Nominal cooling capacity.	2	No.		€ -
2.32	High-wall unit - 3.6 kW Nominal cooling capacity.	2	No.		€ -
2.33	High-wall unit - 4.5 kW Nominal cooling capacity.	1	No.		€ -
2.34	High-wall unit - 5.6 kW Nominal cooling capacity.	1	No.		€ -
2.35	Wall mounted LED display controller, as specified.	6	No.		€ -
Total carried forward to next page					€ -

2.0 Bill of Quantities: Air Conditioning System					
Item Number	Description	Quantity	Unit	Rate € (Excluding VAT)	Total € (Excluding VAT)
Total brought forward from previous page					€ -
	<i>Supply and install the following:</i>				
2.36	Control and power cabling suitably laid in conduit to/from controllers and to/from indoor and outdoor units and for copper at roof level and inside the shafts, together with cabling from isolators provided by others and equipment.	1	Lump Sum		€ -
Provisional items - Existing copper pipework and drains to be retained					
	<i>Supply, deliver to site, install and test for leakages (pressure testing with nitrogen gas), the following pipework. Pipework lengths shall include any necessary fittings, supporting U-channel brackets and pipe rings, insulation complete with polysolene cladding offering UV protection (for exterior pipework only) , type and colour to be approved in writing by the engineer. Detail of material and type of proposed supporting brackets shall be supplied with the offer. Drain pipes shall be installed to the nearest drain gully. Installation shall only commence after approval in writing of the type of supports to be used. Brackets and supports shall be galvanised and spacing shall be as suggested by the pipe manufacturer:</i>				
2.37	Insulated twin main refrigerant copper pipe work suitable for R410a applications complete with ref net factory supplied joints.	30	m		€ -
	<i>Supply, deliver to site, install, test and commission uPVC condensate drains. Drain pipes from indoor units to discharge points as indicated including any necessary chasing. Pipes to be lagged.</i>				
2.38	uPVC condensate drain pipework.	25	m		€ -
Total carried forward to item 2.0 in Summary Page					€ -

2.0 Bill of Quantities: Air Conditioning System					
Item Number	Description	Quantity	Unit	Rate € (Excluding VAT)	Total € (Excluding VAT)
Total carried forward from previous page					€ -
	GENERAL				
	VRF Outdoor Units Support Framework				
	Supply, deliver to site and install the following:				
2.39	Outdoor units heavy duty support system including free standing modular frameworks supplied with fully adjustable leg assemblies and UV stabilised polypropylene feet with anti-vibration rubber mats. Quote for all outdoor units	1	Lump Sum		€ -
	Central Controller				
	Supply, install, test and commission:				
2.40	Central controller for the entire AC system including web based control and monitoring software complete with all interconnecting control cables for a complete installation.	1	No.		€ -
	Electrical Works				
2.41	Wiring including any necessary conduit, fittings, etc. between the power supply point and the indoor / outdoor unit. Quote lump sum for all units.	1	Lump Sum		€ -
	Civil Works				
2.42	This item includes drilling of holes through walls, floors and ceilings, chasing if and when required, sealing and making good of all unused openings and penetrations made during erection of system, and support of equipment including the installation of RSJ's if required. Contractor is expected to allow for a contingency sum for such works.	1	Lump Sum		€ -
Total carried forward to item 2.0 in Summary Page					€ -

2.0 Bill of Quantities: Air Conditioning System					
Item Number	Description	Quantity	Unit	Rate € (Excluding VAT)	Total € (Excluding VAT)
Total carried forward from previous page					€ -
	Training				
2.43	Provide training on the operation and maintenance of all plant and systems.	1	Lump Sum		€ -
	Drawings				
2.44	Supply technical documentation and as fitted drawings in the form of 3 sets of prints and one soft copy in ACAD format	1	Lump Sum		€ -
	Testing and Commissioning				
2.45	Test and Commission the entire system.	1	Lump Sum		€ -
	De-Commisioning of existing 3 in number VRF systems				
2.46	De-commisioning of outdoor units including collection of gas in tanks	3	No		€ -
2.47	De-commisioning of indoor units including collection of gas in tanks and carting away to location determined by client	28	No		€ -
2.48	Cleaning of exisiting pipework	1	Lump Sum		€ -
2.49	New insulation for existing copper pipes at roof level and shafts	90	m		€ -
	Haulage				
2.50	Haulage of existing outdoor units to location determined by client	3	No		€ -
Total carried forward to item 2.0 in Summary Page					€ -

SUMMARY PAGE

Item Number	Description	Quantity	Unit	Rate € (Excluding VAT)	Total € (Excluding VAT)
1.0	Total for Preliminaries	1	No.	Included	Included
2.0	Total for Air Conditioning System	1	No.	€ -	€ -
Total for all works excluding VAT					€ -
18% VAT					€ -
Total for all works including VAT					€ -

For and on behalf of:

Address:

Signature of Tenderer:

Name of Tenderer:

Occupation: Director

VAT Registration number:

Tel and Fax No.:

e-mail:

Date:

DAILY RATES

Rates quoted are to include total cost of labour inclusive of VAT and any other charges as applicable.

Item	Daily Rate for the service of:	Rate in EUR
1	Unskilled labourer	
2	Skilled labourer	
3	Supervisor	
4	Technician/ Electrician	
5	Engineer	
6	Other category - Project Manager	