

BILL OF QUANTITIES - MECHANICAL HVAC					
Item No	Description	Unit	Quantity	Per Unit Rate	Amount
	BILL NO. 1				
	PRELIMINARY ITEMS				
	Allow for all preliminary and general items for this project, but excluding items priced elsewhere in these Bills (These amounts will be paid <i>pro rata</i> to the rest of the amounts claimed by the contractor, relative to the tender amount)				
1.	CONTRACTUAL REQUIREMENTS				
	Tenderers to allow for compliance with all the conditions of contract (Refer to main contract)	Item	Sum		
2.	JOINT TRADES				
	Tenderers to allow for all costs which may be required in order to co-ordinate and liaise with the other Trade Contractors, especially with the electrical contractor	Item	Sum		
3.	SUPERVISOR				
	Tenderers to allow for a full time working supervisor during the duration of the contract, who shall have the delegated authority to receive instructions and make decisions regarding this contract	Item	Sum		
4.	SITE ESTABLISHMENT				
	Tenderers to allow for all costs which may be required in order to place the necessary facilities on site for safe storage and orderly management purposes for the duration of the contract	Item	Sum		
5.	REMOVAL OF WASTE				
	Tenderers to allow for all costs associated with cleaning the site of all rubbish and waste caused by this contract	Item	Sum		
6	GENERAL ITEMS				
	Any additional items that the Tenderer deems necessary for the successful and total completion of the portion of the work required for this Bill. Specify:				
(a)	Transport	Item	Sum		
(b)	Compliance with Health and Safety Requirements	Item	Sum		
(c)	Design Development	Item	Sum		
(e)	Contingency (15%)	Item	Sum		
TOTAL FOR BILL NO.1: Preliminaries (Carried forward to Summary)					

BILL OF QUANTITIES - MECHANICAL HVAC					
Item No	Description	Unit	Quantity	Per Unit Rate	Amount
	BILL NO. 2				
	AIR CONDITIONING INSTALLATION				
	For the complete delivery, installation, testing, commissioning and handing over of the following Mitsubishi DX Airconditioning systems.				
	DX Installation				
1.	DX Outdoor Units				
1,1	For the supply and delivery to site of the following Mitsubishi outdoor units:				
	SUZ-KA71VA-DA	No	2		R0,00
	PUHZ-P125YHA	No	4		R0,00
1,2	For the complete installation, including all piping, hangers, brackets and electrical connection electrical connections of the following outdoor units:				
	SUZ-KA71VA-DA	No	2		R0,00
	PUHZ-P125YHA	No	4		R0,00
1,3	Allow for the complete rigging and hoisting of the following outdoor units:				
	SUZ-KA71VA-DA	No	2		R0,00
	PUHZ-P125YHA	No	4		R0,00
1,4	Supply and install wired mesh <u>hail screens</u> as specified, including all fasteners and fixtures for the following outdoor units:				
	SUZ-KA71VA-DA	No	2		R0,00
	PUHZ-P125YHA	No	4		R0,00
1,5	For the supply and installation of failure protection switchboard systems as specified for the following outdoor units.				
	SUZ-KA71VA-DA	No	2		R0,00
	PUHZ-P125YHA	No	4		R0,00
2	Indoor Units				
2,1	For the supply and delivery to site of the following Mitsubishi DX indoor units:				
	PLA-RP71EA-DA	No	2		R0,00
	PEAD-RP125JAQ	No	4		R0,00
2,2	For the complete installation, including all piping, hangers, Condensate Pumps, brackets and electrical connection electrical connections balancing testing and commissioning of the following DX indoor units:				
	PLA-RP71EA-DA	No	2		R0,00
	PEAD-RP125JAQ	No	4		R0,00
3.	REFRIGERANT PIPING				
3,1	For the supply, delivery to site, installation and connection of the following insulated refrigeration piping, measured in pairs (liquid pipe size / gas pipe size), including supports, sockets and bends: installed on cable trays				
	Liquid Piping 9.52mm	m	42		R0,00
	Gas Piping 15.88mm	m	42		R0,00
4.	DRAIN PIPING				
4,1	For the supply, delivery to site, installation following uPVC class 6 condensate drain piping, installed on galvanized wired mesh light duty cable tray including all tees and elbows:				
	PLA-RP71EA-DA	No	2		R 0,00
	PEAD-RP125JAQ	No	4		R 0,00
	Amount carried forward				

Item No	Description	Unit	Quantity	Per Unit Rate	Amount
	Amount brought forward				
4,2	For the supply, delivery to site, installation and connection of the following equipment for condensate drains:				
	Connection to drain socket with 'p-traps'	No	12		R 0,00
	2m Lengths of Insulation for each unit	No	6		R 0,00
5	TRUNKING:				
5,1	For the supply, delivery to site and complete installation of <u>galvanized wired mesh light duty cable trays</u>, including hangers and brackets:				
	Cable Trays	m	45		R 0,00
	Bends	No	12		R 0,00
	Tees	No	2		R 0,00
5,2	For the supply, delivery to site and complete installation of <u>galvanized sheet metal trunking</u>,etched and primed for painting. including hangers and brackets:				
	Trunking	m	45		R 0,00
	Bend	No	12		R 0,00
	Tees	No	2		R 0,00
6	For the Supply, Delivery to Site and Complete Installation and Connection of all Control Wiring installed on light duty cable trays:				
	PLA-RP71EA-DA / SUZ-KA71VA-DA	No	2		R0,00
	PEAD-RP125JAQ / PUHZ-P125YHA	No	4		R0,00
7	For the , Delivery to Site, Installation and Connection of the following Remote Controllers				
	Simple Wired Touch Controller	Sum	6		R 0,00
8	For the Complete Pressure Testing, Purging and Charging with refrigerant of the following DX Systems:				
	PLA-RP71EA-DA / SUZ-KA71VA-DA	No	2		R0,00
	PEAD-RP125JAQ / PUHZ-P125YHA	No	4		R0,00
9	For the complete balancing, testing and commissioning the following DX systems:				
	PLA-RP71EA-DA / SUZ-KA71VA-DA	No	2		R0,00
	PEAD-RP125JAQ / PUHZ-P125YHA	No	4		R0,00
TOTAL FOR BILL NO.2: Air Conditioning Installation (Carried forward to Summary)					R 0,00

BILL OF QUANTITIES - MECHANICAL HVAC					
Item No	Description	Unit	Quantity	Per Unit Rate	Amount
	BILL NO. 3				
	DUCTING				
	For the complete supply, delivery, installation, testing, commissioning and handing over of the following in terms of the air-conditioning specification				
1	For the supply, delivery to site, complete installation, commissioning and balancing of the following insulated ducting, complete with all brackets, mountings connections and fasteners.				
	* All exposed ductwork to be internally insulated and powder coated to architects specification				
	ROUND SPIRAL DUCTING				
	150ø	m	9		R 0,00
	200ø	m	37		R 0,00
	250ø	m	15		R 0,00
	315ø	m	20		R 0,00
	RETANGULAR FLANGED DUCTING				
	250x200	m	9		R 0,00
	250x250	m	3		R 0,00
	300x300	m	21		R 0,00
	400x300	m	9		R 0,00
	FRESH AIR/EXTRACTION AIR DUCT FITTINGS				
	Round Bend				
	150ø-150ø	No	2		R 0,00
	200ø-200ø	No	17		R 0,00
	250ø-250ø	No	2		R 0,00
	315ø-315ø	No	3		R 0,00
	Rectangular Bend				
	250x200-250x200	No	1		R 0,00
	300x300-300x300	No	4		R 0,00
	Round Galvanised Spigot				
	200ø-200ø	No	27		R 0,00
	250ø-250ø	No	7		R 0,00
	Round Transition Piece				
	315ø-150ø	No	1		R 0,00
	Rectangular Transition Piece				
	200x200-350x350	No	3		R 0,00
	300x300-250x200	No	3		R 0,00
	300x300-250x250	No	1		R 0,00
	400x300-300x300	No	4		R 0,00
	Rectangular To Round Transition Piece				
	350x350-200ø	No	1		R 0,00
	400x300-315ø	No	3		R 0,00
	Stop End				
	250x200	No	3		R 0,00
	250x250	No	1		R 0,00
	Plenum Box				
	850x250-400x300	No	4		R 0,00
	DUCT ACCESSORIES SCHEDULE				
	HAND LOCKABLE DAMPER				
	ø150	No	4		R 0,00
	ø200	No	18		R 0,00
	ø250	No	6		R 0,00
	AIR GRILLE				
	600x600 Return Air Grilles - Ø200 Spigot	No	8		R 0,00
	FRESH AIR DISC VALVE				
	Ø200 (Ø200 SPIGOT)	No	1		R 0,00
	Ø250 (Ø250 SPIGOT)	No	1		R 0,00
	CONSTANT VOLUME ROUND SWIRL DIFFUSERS				
	600x600 (Ø200 SPIGOT)	No	1		R 0,00
	WEATHER LOUVRE WITH VERMIN SCREEN				
	200x200	No	1		R 0,00
	400x300	No	4		R 0,00

	HEAT EXTRACTION CANOPY				
	450x450	No	1		R 0,00
	SOUND ATTENUATORS - PODDED TYPE				
	Ø200	No	2		R 0,00
	Ø315	No	6		R 0,00
	FILTER PANELS - G4 RATED WASHABLE FILTERS				
	200x200	No	1		R 0,00
	300x300	No	3		R 0,00
	FANS				
	MIXVENT SERIES COMPACT FAN Ø200 - 70 l/s - 250 Pa	No	1		R 0,00
	MIXVENT AMS WJ315 KIT FAN Ø308 - 150 l/s - 250 Pa	No	1		R 0,00
	MIXVENT AMS WJ315 KIT FAN Ø308 - 200 l/s - 250 Pa	No	2		R 0,00
	MIXVENT AMS WJ315 KIT FAN Ø308 - 250 l/s - 250 Pa	No	1		R 0,00
TOTAL FOR BILL NO.3: Ducting Ground Floor (Carried forward to Summary)					R 0,00

BILL OF QUANTITIES - MECHANICAL HVAC					
Item No	Description	Unit	Quantity	Per Unit Rate	Amount
	BILL NO. 4				
	GENERAL				
1	Preparation and issue of O and M Manuals	No	3		
2	Allowance for 12 month guarantee period	Item	1		
3	Allowance for 12 month maintenance and service period	Item	1		
4	Allow for training in the operation of all plants	Item	1		
5	For the coding and labeling of plants	Item	1		
6	Commissioning and testing	Item	1		
7	Preparation and issue of Workshop Drawings	No	3		
8	Preparation and issue of As-Built Drawings	No	3		
9	Builder's Work				
	To be completed by main building contractor				
TOTAL FOR BILL NO.4: General (Carried forward to Summary)					R 0,00

BILL OF QUANTITIES - FINAL SUMMARY

SUMMARY OF TENDER BILLS

ITEM	BILL DESCRIPTION	AMOUNT
1	BILL No. 1: PRELIMINARIES	R 0,00
2	BILL No. 2: AIR CONDITIONING	R 0,00
3	BILL No. 3: VENTILATION AND DUCTING	R 0,00
4	BILL No. 4: GENERAL	R 0,00
5	SUB TOTAL	R 0,00
6	Add 15% VAT	R 0,00
7	TOTAL FIXED AND FIRM PRICE	R 0,00

TENDER :

NAME :

ADDRESS :

TELEPHONE No :

DATE

SIGNATURE