

ITEM NO	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT
1	<b>SCHEDULE 1 :</b>					
	<b>PRELIMINARY &amp; GENERAL ITEMS</b>					
1,001	Site Establishment & Clearance	Item	1			
1,002	Preparation of Operating and Maintenance Manuals	Item	3			
1,003	As-built Drawings	Item	1			
1,004	12 Months Guarantee and Maintenance	Item	1			
1,005	Programming of the Work	Item	1			
1,006	Testing, Balancing, Commissioning and Inspections	Item	1			
1,007	Equipment Submissions	Item	1			
1,008	Contract Drawings (Shopdrawing)	Item	1			
1,009	Rigging and Crane Hire	Item	1			
1,010	Equipment Labels	Item	1			
1,011	Training of Operations and Maintenance Personnel	Item	1			
i	Any additional items of preliminary nature that the tenderer may wish to add to comply with requirements of the specification and/or (To be listed hereunder by the Tenderer)	Item	1			
	Contractor to be present at all site meeting at least on a two weekly basis and more frequently as buildings become ready/ available for installations.					
1,012	Safety File	Item	1			
	<b>CARRIED TO FINAL SUMMARY</b>		<b>R</b>			

ITEM NO	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT
	<b>SCHEDULE 2 :</b>					
	<b>EQUIPMENT, ACCESSORIES &amp; DUCTING</b>					
2	<b>NEW HVAC INSTALLATIONS: EQUIPMENT AND ACCESSORIES</b>					
	<b>Chillers</b>					
	<b>Air cooled scroll chillers</b>					
2,001	Supply and install AIR-COOLED SCROLL CHILLER - 250kW cooling. c/w Internal Primary Pumps (9.95 l/s at 100 kPa), Expansion tank Firmly support chiller units on a 150mm high plinth with support brackets and steel rods as per industry best practice. Water teperatures - 10.0 °C/15.0 °C, Power source (93,13kW) : 3PH,400V/50Hz. Ambient Temperature - 35 °C	No	2			
	<b>Chilled Water Air Handling Units (Close Control Units)</b>					
2,002	Supply and install CHILLED WATER AIR HANDLING UNITS - 250kW cooling (Selected at nominal conditions 22°C/ 32°C) for indoor Temp. 25°C/ 50% RH, 35°C Ambient, for c/w Evaporator coils (copper tube with aluminium fins), Pleated washable G4 filters, Wiring to externally mounted terminal boxes, Electronic Expansion Valves, Carel Microprocessor Controller, Full length stainless steel drip tray below coil. Firmly support units on a 150mm high plinth with support brackets and steel rods as per industry best practice. Power source: 3PH/400V/50Hz.	No	2			
	<b>Pumps</b>					
	Cold water supply pump c/w base mounted motor - 9.95l/s @ 200 kPa head, Variable Speed Drive, Connection to BMS Including mounting and connection to pipeline	No	2			
	<b>Accessories:</b>					
2,003	Drainage piping connections installed complete	No	2			
2,004	Electrical distribution board c/w breakers, contactors, etc for 2 chillers, 2 close control units & 1 x fresh air fan, wiring, isolators, overload protection, lightning protection, etc	No	1			
2,005	Water/ Flood Detection Systems in Floor Voids	No	1			
2,006	Open Floor stands (up to 600mm)	No	2			
2,007	BaCNet Ethernet/ IP Interface Card	No	2			
2,008	Spare Filter set	No	2			
2,009	Electric Heating	No	2			
2,010	Temperature Sensors/ Controllers	No	2			
2,011	Humidification c/w humidity sensors & controllers	No	2			
2,012	Ducted Fan Fresh Air Supply (90 l/s @ 150 Pa) c/w filter cowl, filters, 250 x 250 sheet metal ducting (6m long), external louvre, 150 x 150 grilles (4-off), all electrical wiring, isolators, overload protection, etc	No	1			
2,013	600 x 600 Floor Grilles - natural anodised aluminium	No	19			
2,014	Make-up water system c/w tank, pump, valves as per schematic	No	2			
2,015	Buffer tank, 3000l complete with insulation and cladding and all accessories	No	2			
	<b>CARRIED TO NEXT PAGE</b>					

ITEM NO	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT
	<b>SCHEDULE 2: CONT</b>					
	<b>BROUGHT FORWARD</b>					
	<b>Piping &amp; Fittings</b>					
2,014	DN80 (SCH20) Black steel main water piping (Flanged connection - 3m lengths) Including mounting to wall / roof and flange connection bolts and sealant	m	250			
2,015	DN80 main piping insulation (Glasswool min wall thickness 25mm) Including paint (light blue / orange), Cladding and fitment to related piping	m	250			
2,016	90deg bend flanged galvenised steel (SCH20) - DN80 Including mounting and flange connection bolts	No	80			
2,017	Tee piece flanged galvenised steel (SCH20) - DN80x80x80 Including mounting and flange connection bolts	No	35			
2,018	Y Strainer - Flanged: DN80	No	8			
2,019	Manual shut-off valve - DN80 flange connected (SCH20) Including mounting, insulation and connection to piping	No	36			
2,020	Two way motorised control valve - DN80x80 flange connected (SCH20) Including mounting, insulation, connection to piping and connection to BMS	No	2			
2,021	Non return check valve - DN80 flange connected (SCH20) Including mounting, insulation and connection to piping	No	8			
2,022	Temperature guage (SCH20) Including mounting, insulation, connection to piping	No	10			
2,023	Pressure guage (SCH20) Including mounting, insulation, connection to piping	No	18			
2,024	Air release valve - DN65 flange connected (SCH20) Including mounting, insulation, connection to piping	No	8			
2,025	Pete's plug Including connection to piping	No	20			
	<b>CARRIED TO FORM OF TENDER (EXCL. 15% VAT)</b>		<b>R</b>			

ITEM NO	DESCRIPTION	UNIT	QTY	SUPPLY	INSTALL	AMOUNT
Schedule No	SCHEDULE 3: FINAL SUMMARY					AMOUNT
	1 PRELIMINARY & GENERAL ITEMS	Item	Sum			
	2 NEW HVAC INSTALLATIONS: EQUIPMENT AND ACCESSORIES	Item	Sum			
	CARRIED TO FORM OF TENDER (EXCL. 15% VAT)		R			