

CHILLED WATER PUMPS

Item		Alternative Offered.
System	CHILLED WATER	
Quantity	2	
Make	KSB	
Model No.	ETA 80-250	
Flow rate	20.8 l/s	
Head	20m	
NPSH Pump	2.3m	
Efficiency	76%	
Nominal Speed	1450	
Motor Make	WEG	
Motor Rating	9.2 kW	
Power Required	5.4 kW	
Electrical Supply	400V 3 phase 50 Hz	
Shaft Seal	Mechanical	
Bearings/Lubrication	Ball/Oil	
Casing	Cast Iron	
Impellor	Bronze	
Shaft	Chrome Steel	
Shaft Protection Sleeve	316 S/ Steel	
Coupling	Type Spacer	
Base plate Material	Hot Dip Galvanised	
Drip Tray	304 S/ Steel	
Estimated Mass	311 kg	

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COOLING COIL

Item		Alternative Offered.
Make	Heating Centre	
Model No.	4-CWC-33 x 3050 x 6r x 10f x 44c	
Quantity	2	
Type	Serpentine	
Total Cooling Capacity	205.3 kW	
Sensible Cooling Capacity	130.9 kW	
Supply Air Quantity	6.510 m ³ /s	
On-Coil	26.7°C db/19.4 °C wb	
Off-Coil	9.9 °C db /9.5 °C wb	
Inlet Water Temperature	6 °C	
Outlet Water Temperature	11 °C	
Water Temp. Difference	5 °C	
Water Quantity	9.79 kg/s	
Water Pressure Drop	39.5 kPa	
Coil Height	838.2 mm (33")	
Coil Length	3050 mm	
Coil Velocity	2.55 m/s	
Air Pressure Drop	213.8 Pa	
Rows	6 Rows	
Fins	10 fins per inch	
Circuits	44.0	
Casing Material	Stainless Steel	
Fins Material	Aluminium Fins	
Tube Material	Copper Tube	
Drain Pan	304 Stainless Steel	

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CONDENSER WATER PUMPS

Item		Alternative Offered.
System	CONDENSER WATER	
Quantity	2	
Make	KSB	
Model No.	ETA 100-250	
Flow rate	28.8 l/s	
Head	20 m	
NPSH Pump	3.4 m	
Efficiency	79 %	
Nominal Speed	1450 r.p.m.	
Motor Make	WEG	
Motor Rating	9.2 kW	
Power Required	6.8 kW	
Electrical Supply	400V 3 phase 50 Hz	
Shaft Seal	Mechanical	
Bearings/Lubrication	Ball/Oil	
Casing	Cast Iron	
Impellor	Bronze	
Shaft	Chrome Steel	
Shaft Protection Sleeve	316 S/ Steel	
Coupling	Tyre Spacer	
Base plate Material	Hot Dip Galvanised	
Drip Tray	Not Required	
Estimated Mass	320 kg	

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COOLING TOWERS

Item		Alternative Offered.
Ref.		
Make / Model No.	EVAPCO	
Location	ROOF	
Quantity	2	
Heat Rejection	471.29 kW	
Flow Rate	20.05 l/s	
Warm Water temperature	35.0 °C	
Cold Water temperature	29.5 °C	
Wet Bulb Temperature	26.5 °C	
Fill Material	PVC	
Nozzle Type	Poly Prop Evap jet	
Nozzle Pressure	30 kPa	
Fan Motor	7.5 kW	
Fan Type	Axial	
Fan Motor Protection	IP56	
Fan Support Structure	Stainless Steel	
Access Ladder	Galvanised Steel Access Ladder c/w Safety Hoops	
Operating Weight	2358 kg	
Length	2963	
Width	2530	
Height	4130	

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AXIAL FLOW FAN SCHEDULE

REF	Specified	Alternative Offered
SERVICE	Airconditioning Supply Air Fan	
LOCATION	Plantroom	
QUANTITY	2	
MAKE	Donkin	
Fan Type	Guide Vane Axial	
MODEL No.	1000.D.1/1	
Impellor Type	Broad Axial	
AIRFLOW	6.51 m ³ /s	
STATIC PRESSURE	800 Pa	
PITCH	9°	
SPEED	1440 rpm	
MOTOR POWER	7.5 kW	
Full Load Current	14.5 A	
EFFICIENCY	76%	
MOTOR SPEED	1440 rpm	
ELECTRICAL SUPPLY VOLTAGE	400 Volts 3 phase 50 Hz	
SOUND PRESSURE LEVEL	94 dB	

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RA AXIAL FLOW FAN SCHEDULE

REF	Specified	Alternative Offered
SERVICE	Airconditioning Return Air Fan	
LOCATION	Plantroom	
QUANTITY	2	
MAKE	Donkin	
Fan Type	Guide Vane Axial	
MODEL No.	1000.D.1/1	
Impellor Type	Broad Axial	
AIRFLOW	6.51 m ³ /s	
STATIC PRESSURE	800 Pa	
PITCH	9°	
SPEED	1440 rpm	
MOTOR POWER	7.5 kW	
Full Load Current	14.5 A	
EFFICIENCY	76%	
MOTOR SPEED	1440 rpm	
ELECTRICAL SUPPLY VOLTAGE	400 Volts 3 phase 50 Hz	
SOUND PRESSURE LEVEL	94 dB	

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Project:	TRANSNET				
Page 1	PRELIMINARY & GENERAL				
ITEM NO	ITEM	UNIT	QTY	RATE	AMOUNT
	P&G Costs (incl. all performance Bond Costs, Insurances, Legal fees)	LOT			
	Site Establishment Costs	LOT			
	Management Costs	LOT			
	Supervision Costs	LOT			
	Administration Costs	LOT			
	Allow for all costs to meet Statutory Regulations	LOT			
	Safety Officer	LOT			
	Builders Work Drawings	LOT			
	Workshop Drawings	LOT			
	Final Drawings (Incl. framed wiring diagrams)	LOT			
	Operating & maintenance manuals (4 copies)	LOT			
	Transportation and Delivery Costs	LOT			
	Craneage and Lifting	LOT			
	Erection Costs	LOT			
	Scaffold	LOT			
	Painting	LOT			
	Commissioning (to include Air balancing, Water Balance, Electrical Installation, Control Installation and BMS System)	LOT			
	Staff Training	LOT	1		
	TOTAL FOR PAGE 1 (TO BE CARRIED FORWARD TO SUMMARY PAGE)				

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Project:	TRANSNET				
Page 2	CAPITAL EQUIPMENT				
ITEM NO	ITEM	UNIT	QTY	RATE	AMOUNT
1	Cooling Coil CU x AL 4 CWC-33 x 3050 x 6r x 10f – 44c		2		
2	Chilled water pumps KSB ETA 80-250		2		
3	New condenser water pump's KSB ETA 100-250		2		
4	Evapco Cooling Tower AFT 4-612A		2		
5	Supply Air Fans Donkin Model 1000.D.1/1 Guide vane axial		2		
6	Return Air Fans Donkin Model 1000.D.1/1 Guide vane axial		2		
7	Donkin Pod Type Silencer		4		
8	Springs		16		
9	Drip trays and drains for the pumps		2		
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TOTAL FOR PAGE 2 (TO BE CARRIED FORWARD TO SUMMARY PAGE)					



Project:	TRANSNET				
Page 3	CHILLED WATER PIPEWORK				
ITEM NO	ITEM	UNIT	QTY	RATE	AMOUNT
	125 Ø Pipe	m	48		
	125 Ø 90° Bends		15		
	125 Ø 45° Bends		4		
	125 Ø Tees		2		
	125 Ø x 80 Ø Reducers		2		
	125 Ø x 100 Ø Reducers		2		
	125 Ø Flanges Table E		36		
	125 Ø Flexible Connections		4		
	125 Ø Butterfly Valves		8		
	125 Ø N.R.V		2		
	125 Ø Strainer		2		
	50 Ø Sockets		3		
	15 Ø Sockets		6		
	15 Ø Ball Valves		6		
	15 Ø Plugs		6		
	Brackets & Clamps	LOT			
	Pressure Gauges, Syphon tubes and Gauge Cocks		6		
	Thermometers and Wells		2		
	Airvents		4		
	TOTAL FOR PAGE 3 (TO BE CARRIED FORWARD TO SUMMARY PAGE)				

Project:	TRANSNET				
Page 4	CONDENSER WATER PIPEWORK				
ITEM NO	ITEM	UNIT	QTY	RATE	AMOUNT
	125 Ø Pipework	m	60		
	125 Ø 90° Bends		36		
	125 Ø 45° Bends		8		
	125 x 100 Ø Reducers		6		
	125 x 80 Ø Reducers		2		
	125 Ø Flanges Table E		68		
	125 Ø Flexible connections		6		
	125 Ø Butterfly Valves		13		
	125 Ø N.R.V		2		
	125 Ø Strainer		2		
	50 Ø Weld Sockets		4		
	15 Ø Weld Sockets		20		
	15 Ø Ball Valves		6		
	15 Ø Plugs		6		
	Purpose made brackets on roof	LOT			
	Brackets	LOT			
	Hot dipped galvanizing for all pipework fittings and brackets	LOT			
	Pressure Gauges, Syphon tubes and Gauge Cocks		8		
	Thermometers and Wells		2		
	TOTAL FOR PAGE 4 (TO BE CARRIED FORWARD TO SUMMARY PAGE)				



Project:	TRANSNET				
Page 5	MCW., OVERFLOW AND DRAINS				
ITEM NO	ITEM	UNIT	QTY	RATE	AMOUNT
	54 Ø Copper Pipe	m	50		
	54 Ø Couplings		8		
	54 Ø Tees		6		
	54 Ø Bends		20		
	54 Ø Unions		4		
	54 Ø S/S Ball Valves		4		
	54 Ø M.I x W Connectors		10		
	Brackets for pipework	LOT			
	Automatic water treatment system		1		
	Chemicals for first year		1		
	Chemicals for chilled water system		1		
	Monthly services		12		
	Dosing pot, ball valves				
	Tundish and piping		1		
	Drains from centrifugal pumps	LOT			
	22mm Copper		24		
	22mm Tees		6		
	22mm Bonds		18		
	22mm M1 x CW Connectors		6		
	22mm Pipe Brackets		20		
	Stainless steel sink Model: FRANKE CVN 611 Taps and waste		1		
	MCW Supply to sink		1		
	Waste to outside		1		
	TOTAL FOR PAGE 5 (TO BE CARRIED FORWARD TO SUMMARY PAGE)				

Project:	TRANSNET				
Page 6	CHILLED WATER PIPEWORK INSULATION				
ITEM NO	ITEM	UNIT	QTY	RATE	AMOUNT
	125 Ø Pipework	M	48		
	125 Ø Bends		15		
	125 Ø Tees		2		
	125 Ø Flanges		42		
	125 Ø Flanges		50		
	125 x 100 Ø Reducers		12		
	125 Ø Valves		6		
	125 Ø Strainers		2		
	Repair existing insulation	LOT	1		
	Repair all damaged cladding	LOT	1		
	Pipework Identification	LOT	1		
	TOTAL FOR PAGE 6 (TO BE CARRIED FORWARD TO SUMMARY PAGE)				

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Project:	TRANSNET				
Page 7	ELECTRICS				
ITEM NO	ITEM	UNIT	QTY	RATE	AMOUNT
	Remove redundant cables		1		
	Power supply to chillers		1		
	Power supply to CW pumps Incl. all necessary switchgear, cables, cable tray and isolators etc.		2		
	Power supply to condenser pumps Incl. all necessary switchgear, cables, cable tray and isolators etc.		2		
	Power supply to cooling towers Incl. all necessary switchgear, cables, cable tray and isolators etc.		2		
	Power Supply to water treatment plant Incl. all necessary switchgear, cables, cable tray and isolators etc.		1		
	Power supply to supply and return fans Incl. all necessary switchgear, cables, cable tray and isolators etc.		4		
	Variable speed drives for supply air fan		2		
	Variable speed drives for return air fan		2		
	Variable speed drive for two cooling tower fans 15kW		2		
	Main electrical control panel including new section, all necessary switch gear and wiring to conform to specifications.		1		
	All new electrical control wiring. (Incl. cables to averaging sensors	LOT	1		
	Power supplies to all diffusers		1		
	All necessary controls, wiring etc for the BMS system	LOT	1		
	Power supply to all fire dampers		1		
	TOTAL FOR PAGE 7 (TO BE CARRIED FORWARD TO SUMMARY PAGE)				

Project:	TRANSNET				
Page 8	ELECTRONIC CONTROLS				
ITEM NO	ITEM	UNIT	QTY	RATE	AMOUNT
	Chillers				
	Upgrade chiller controller		1		
	Electronic programmable controller		1		
	Pipe temperature controller		1		
	Flow switches		4		
	Airhandling Unit				
	Electronic programmable controller		2		
	Averaging room sensor		10		
	Air pressure switch		1		
	Overheat Stat		1		
	Return Air Sensor		1		
	Cooling Towers				
	Electronic programmable controller		1		
	Pipe temperature sensor		1		
	Bypass valve		1		
	Variable speed drive		1		
	Supply Air Fans				
	Variable speed drives		2		
	Pressure Sensors		2		
	Air Flow Switches		2		
	Return air bypass damper and actuator		2		
	Smoke sensor		12		
	Return Air Fans				
	Variable speed drives		2		
	Pressure Sensors		2		
	Air Flow Switches		2		
	TOTAL FOR PAGE 8 (TO BE CARRIED FORWARD TO SUMMARY PAGE)				

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Project:	TRANSNET				
Page 9	BUILDING MANAGEMENT SYSTEM				
ITEM NO	ITEM	UNIT	QTY	RATE	AMOUNT
	Pentium Core-Duo computer, 17" LCD touch screen, keyboard, mouse and ADSL modem etc. and all necessary hardware and software to run the BMS system as specified.		1		
	All BMS software, computer graphics and necessary interface.		1		
	Connection of all the air-conditioning plant and associated equipment in the building to the BMS and all calibrations and settings of this equipment on the BMS	LOT	1		
	TOTAL FOR PAGE 9 (TO BE CARRIED FORWARD TO SUMMARY PAGE)				

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Project:	TRANSNET				
Page 10	DUCTING – GROUND FLOOR				
ITEM NO	ITEM	UNIT	QTY	RATE	AMOUNT
	TROX ceiling diffusers Masters 200 ø c/w 0.5kW Reheater		17		
	Slaves 200 ø c/w 0.5kW Reheater		17		
	Power Supplies		34		
	Thermostats		17		
	Plenum Boxes Lineo		34		
	Circular Ducting 200 ø	m	34		
	Spigots		34		
	Flexible Duct 200ø	m	34		
	600 x 300 RAEC Grilles		34		
	Fire Dampers 760 x 380		2		
	Blank off existing Spigots		10		
	Repair External Duct Insulation	LOT			
	TOTAL FOR PAGE 10 (TO BE CARRIED FORWARD TO SUMMARY PAGE)				

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Project:	TRANSNET				
Page 11	DUCTING – FIRST FLOOR				
ITEM NO	ITEM	UNIT	QTY	RATE	AMOUNT
	TROX ceiling diffusers				
	Masters				
	350 Ø c/w 1.5kW Reheater		3		
	300 Ø c/w 1.0kW Reheater		5		
	250 Ø c/w 0.75kW Reheater		3		
	200 Ø c/w 0.5kW Reheater		1		
	Slaves				
	350 Ø c/w 1.5kW Reheater		3		
	300 Ø c/w 1.0kW Reheater		4		
	250 Ø c/w 0.75kW Reheater		2		
	200 Ø c/w 0.5kW Reheater		0		
	Plenum Boxes Internally Lined				
	350 Ø		6		
	300 Ø		9		
	250 Ø		5		
	200 Ø		1		
	Power Supplies		21		
	Thermostats		12		
	Spigots		21		
	Circular Ducting				
	350 Ø	M	18		
	300 Ø	M	27		
	250 Ø	M	15		
	200 Ø	M	3		
	Flexible Duct				
	350 Ø	M	12		
	300 Ø	M	18		
	250 Ø	M	10		
	200 Ø	M	2		
	Blank off existing Spigots		10		
	RAEC Grilles 600 x 300		21		
	Repair external duct insulation		1		
	TOTAL FOR PAGE 11 (TO BE CARRIED FORWARD TO SUMMARY PAGE)				

Project:	TRANSNET				
Page 13	DUCTING – SECOND FLOOR				
ITEM NO	ITEM	UNIT	QTY	RATE	AMOUNT
	TROX ceiling diffusers				
	Masters				
	350 Ø c/w 1.5kW Reheater		2		
	300 Ø c/w 1.0kW Reheater		5		
	250 Ø c/w 0.75kW Reheater		5		
	200 Ø c/w 0.5kW Reheater		3		
	Slaves				
	350 Ø c/w 1.5kW Reheater		1		
	300 Ø c/w 1.0kW Reheater		4		
	250 Ø c/w 0.75kW Reheater		3		
	Plenum Boxes Internally Lined				
	350 Ø		3		
	300 Ø		9		
	250 Ø		8		
	200 Ø		3		
	Power Supplies		24		
	Thermostats		15		
	Spigots		24		
	Circular Ducting				
	350 Ø	M	9		
	300 Ø	M	27		
	250 Ø	M	24		
	200 Ø	M	9		
	Flexible Duct				
	350 Ø	M	6		
	300 Ø	M	18		
	250 Ø	M	16		
	200 Ø	M	6		
	Blank off existing Spigots		10		
	RAEC Grilles 600 x 300		24		
	Repair external duct unsulation		1		
	TOTAL FOR PAGE 13 (TO BE CARRIED FORWARD TO SUMMARY PAGE)				

Project:	TRANSNET				
Page 15	DUCTING – THIRD FLOOR				
ITEM NO	ITEM	UNIT	QTY	RATE	AMOUNT
	TROX ceiling diffusers				
	Masters				
	350 Ø c/w 1.5kW Reheater		3		
	300 Ø c/w 1.0kW Reheater		4		
	250 Ø c/w 0.75kW Reheater		5		
	200 Ø c/w 0.5kW Reheater		1		
	Slaves				
	350 Ø c/w 1.5kW Reheater		2		
	300 Ø c/w 1.0kW Reheater		4		
	250 Ø c/w 0.75kW Reheater		1		
	200 Ø c/w 0.5kW Reheater		1		
	Plenum Boxes Internally Lined				
	350 Ø		5		
	300 Ø		8		
	250 Ø		6		
	200 Ø		2		
	Power Supplies		21		
	Thermostats		12		
	Spigots		21		
	Circular Ducting				
	350 Ø	M	15		
	300 Ø	M	24		
	250 Ø	M	18		
	200 Ø	M	6		
	Flexible Duct				
	350 Ø	M	10		
	300 Ø	M	16		
	250 Ø	M	12		
	200 Ø	M	4		
	Blank off existing Spigots		10		
	RAEC Grilles 600 x 300		21		
	Repair external duct insulation		1		
	TOTAL FOR PAGE 15 (TO BE CARRIED FORWARD TO SUMMARY PAGE)				

Project:	TRANSNET				
Page 17	DUCTING – FOURTH FLOOR				
ITEM NO	ITEM	UNIT	QTY	RATE	AMOUNT
	TROX ceiling diffusers				
	Masters				
	350 Ø c/w 1.5kW Reheater		0		
	300 Ø c/w 1.0kW Reheater		7		
	250 Ø c/w 0.75kW Reheater		8		
	200 Ø c/w 0.5kW Reheater		3		
	Slaves				
	350 Ø c/w 1.5kW Reheater		0		
	300 Ø c/w 1.0kW Reheater		6		
	250 Ø c/w 0.75kW Reheater		2		
	200 Ø c/w 0.5kW Reheater		0		
	Plenum Boxes Internally Lined				
	350 Ø		0		
	300 Ø		13		
	250 Ø		10		
	200 Ø		3		
	Power Supplies		26		
	Thermostats		18		
	Spigots		26		
	Circular Ducting				
	300 Ø	M	39		
	250 Ø	M	30		
	200 Ø	M	9		
	Flexible Duct				
	300 Ø	M	26		
	250 Ø	M	20		
	200 Ø	M	6		
	Blank off existing Spigots		10		
	RAEC Grilles 600 x 300		26		
	Repair external duct insulation		1		
	TOTAL FOR PAGE 17				
	(TO BE CARRIED FORWARD TO SUMMARY PAGE)				

Project:	TRANSNET				
Page 18	DUCTING – FOURTH FLOOR CONT.				
ITEM NO	ITEM	UNIT	QTY	RATE	AMOUNT
	Fire Dampers				
	900 x 605		2		
	305 x 380		1		
	400 x 500		1		
	760 x 380		2		
	Static Pressure Dampers				
	360 x 380		1		
	485 x 380		1		
	510 x 380		1		
	305 x 380		1		
	Balancing Dampers				
	360 x 380		1		
	485 x 380		1		
	510 x 380		1		
	305 x 380		1		
	Access panels 300 x 300		2		
	Return air grilles with hinged core 900 x 605mm		2		
	TOTAL FOR PAGE 18 (TO BE CARRIED FORWARD TO SUMMARY PAGE)				

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Project: TRANSNET					
Page 19 DUCTING - AC PLANTROOM					
ITEM NO	ITEM	UNIT	QTY	RATE	AMOUNT
	Fire Dampers				
	1000 x 800		3		
	1000 x 1000		1		
	External Weather Louvres c/w WMS				
	3200 x 2500		1		
	Dump Damper				
	3200 x 2500		1		
	Return air bypass dampers				
	1000 x 1000		2		
	TROX Doors		3		
	TOTAL FOR PAGE 19 (TO BE CARRIED FORWARD TO SUMMARY PAGE)				

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Project:	TRANSNET				
Page 20	STRIP OUT REDUNDANT EQUIPMENT				
ITEM NO	ITEM	UNIT	QTY	RATE	AMOUNT
	Strip out redundant equipment		1		
	Cooling Tower		1		
	Pumps		2		
	Pipework		1		
	Existing 2 nd fix ducting and grilles	LOT			
	Pneumatic Control System		1		
	TOTAL FOR PAGE 20 (TO BE CARRIED FORWARD TO SUMMARY PAGE)				

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Project:	TRANSNET				
Page 21	BUILDERS WORK				
ITEM NO	ITEM	UNIT	QTY	RATE	AMOUNT
	New single door frame and hardware		1		
	Paint doors 2 coats undercoat 2 Coats enamel		lot		
	New concrete bases for pumps		4		
	New inertia bases for pumps		4		
	Remove existing pump base		2		
	Repair Opening in wall for left by old cooling tower including old bases		1		
	Opening through external wall for condenser water pipes and make good		2		
	New concrete piers for cooling towers		lot		
	New concrete piers for condenser water pipework		4		
	Opening in wall for new MCW pipe to roof and the making good		1		
	Re paint main airhandling unit plantrooms walls with two coats high quality PVA		1		
	Paint plantroom floor in plantroom walls with epoxy paint		1		
	Full bore drain, coring of hole and pipework to nearest soil pipe		1		
	TOTAL FOR PAGE 21 (TO BE CARRIED FORWARD TO SUMMARY PAGE)				



Project:		TRANSNET			
Page 22		MAINTENANCE AND GUARANTEE			
ITEM NO	ITEM	UNIT	QTY	RATE	AMOUNT
1	Bi-Monthly service of all new and existing plant		5		
2	Annual major service of all new and existing plant		1		
3	Allowance for any breakdown calls	LOT			
4	Spare set of filters for all new equipment supplied	LOT			
TOTAL FOR PAGE 22 (TO BE CARRIED FORWARD TO SUMMARY PAGE)					

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Project: TRANSNET					
Page 23 GENERAL ITEMS					
ITEM NO	ITEM	UNIT	QTY	RATE	AMOUNT
	Fill & Vent		2		
	Pressure test		1		
	Flush system		2		
	Centrifugal pumps anti-vibration mounts		24		
	Test kit for binder fittings		1		
	Offload, rigging and installation of equipment		1		
	Teco pads		40		
	Hot dipped galvanizing of all pipework and brackets including transport and labour to load and offload and position		1		
	Inertia bases		6		
	Cleaning and flushing of towers (4off)		2		
	Cleaning of all pipework		2		
	Cleaning and touching up paintwork of all equipment		1		
	Automatic water treatment system		1		
	Water treatment service contract				
	Monthly Services		12		
	Years Chemicals		1		
TOTAL FOR PAGE 23 (TO BE CARRIED FORWARD TO SUMMARY PAGE)					

Project:		TRANSNET			
Page 24		CREDIT FOR REDUNDANT EQUIPMENT			
ITEM NO	ITEM	UNIT	QTY	RATE	AMOUNT
	Credit for all redundant equipment, pipework, coil etc. That are not to be refurbished on site and are to be scrapped.	LOT	1		
	This item includes all copper finned copper coil on existing air cooled condensing units.				
TOTAL FOR PAGE 24 (TO BE CARRIED FORWARD TO SUMMARY PAGE)					

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