



**SAPS - DUNDONALD**

**FOR  
SOUTH AFRICAN POLICE  
SERVICES**

## **TENDER BILL OF QUANTITIES**

**DOCUMENT: 2 of 2**  
REVISION 2

**CONTRACT NO:3703 FE & FS**

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**TENDER DOCUMENT FOR THE SUPPLY, INSTALLATION,  
TESTING AND COMMISSIONING OF THE FIRE EQUIPMENT  
& FIRE SIGNAGE BUILDING SERVICES**

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**CLOSING DATE: TBC,**

**JUNE 2024**

**FOR EMAIL TO [info@n.co.za](mailto:info@n.co.za) CONSULTING ENGINEER**

ADDENDUM

*Page 1 - ADDENDUM - MECHANICAL*

1. TENDER DRAWINGS
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SAPS - DUNDONALD

FIRE EQUIPMENT & FIRE SIGNAGE INSTALLATION	
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<b>2. SUMMARY</b>			
SAPS - DUNDONALD			
FIRE EQUIPMENT & FIRE SIGNAGE INSTALLATION			
<b>SUMMARY OF SCHEDULE OF QUANTITIES:</b>			
<b>ITEM NO</b>	<b>DESCRIPTION</b>		<b>VALUE</b>
1	SCHEDULE NO MR: ITEM RATES AS FOR BILLED ITEMS	R	RATES
2	SCHEDULE NO MP: PRELIMINARY & GENERAL	R	
3	SCHEDULE NO: WS-01,	R	
4	SCHEDULE NO: FE-01 SAPS: DUN DONALD	R	
5	SCHEDULE NO: FS-03, SAPS: DUN DONALD,	R	
1	TOTAL OF SHEDULE OF QUANTITIES		
2	ADD 15% VAT		
3	CARRIED TO CALCULATON OF TENDER SUM		
<p>SIGNATURE.....</p> <p>NAME .....</p> <p>SIGNED ON BEHALF OF TENDERER .....</p> <p>REVISION 1</p> <p>DATE .....</p>			

Page 3 - ADDENDUM-MECHANICAL

### 3. BILL OF QUANTITIES

SAPS - DUNDONALD

SCHEDULE NO: MR  
ITEM RATES

FIRE EQUIPMENT & FIRE SIGNAGE INSTALLATION

#### SCHEDULE OF QUANTITIES

**NB**

TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN **BLACK** & IT REMAINS THE RESPONSIBILITY OF THE TENDERER TO VERIFY AND CHECK ALL FORMULAS TO ENSURE VALUES ARE CALCULATED CORRECTLY

#### SCHEDULE NO MR: ITEM RATES AS FOR BILLED ITEMS

	UNITS	QUANTITY	RATE
Non Scheduled Bill, Provisional Sum & Tenant Requirement Item Rates			
<b>1 LABOUR COST</b>			
Rates for non scheduled items are to be applied to the hours worked and are to include for the cost of labour, all levies, bonuses and leave pay.			
<u>Erection Team</u>			
Office Hours	Hour	1	
After Hours (Weekdays & Saturdays)	Hour	1	
After Hours (Sundays & Public Holidays)	Hour	1	
<u>Fabrication team</u>			
Office Hours	Hour	1	
After Hours (Weekdays & Saturdays)	Hour	1	
After Hours (Sundays & Public Holidays)	Hour	1	
<u>Commissioning Team</u>			
Office Hours	Hour	1	
After Hours (Weekdays & Saturdays)	Hour	1	
After Hours (Sundays & Public Holidays)	Hour	1	
<u>Engineer</u>			
REVISION 1	Hour	1	
After Hours (Weekdays & Saturdays)	Hour	1	
After Hours (Sundays & Public Holidays)	Hour	1	
<u>Draughts Person</u>			
Office Hours	Hour	1	
After Hours (Weekdays & Saturdays)	Hour	1	
After Hours (Sundays & Public Holidays)	Hour	1	
<b>2 EQUIPMENT AND MATERIAL COST</b>			
The cost of all equipment and materials shall remain fixed.	Fixed		
<b>3 TRANSPORT AND DELIVERY</b>			
Distance of Return Trip to site	Km		
Vehicle up to 1 ton	/km	1	
Vehicle up to 2 ton	/km	1	
Vehicle up to 5 ton	/km	1	
Vehicle up to 10 ton	/km	1	
Vehicle up to 20 ton	/km	1	
<b>4 MARK-UP ON COST</b>			
(Overhead & Profit)			

## FIRE EQUIPMENT &amp; FIRE SIGNAGE INSTALLATION

## SCHEDULE OF QUANTITIES

**NB** TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK & IT REMAINS THE RESPONSIBILITY OF THE TENDERER TO VERIFY AND CHECK ALL FORMULAS TO ENSURE VALUES ARE CALCULATED CORRECTLY

## SCHEDULE NO MP: PRELIMINARY &amp; GENERAL

ITEM NO	DESCRIPTION	QTY	FIXED COST	VALUE COST	TIME COST
	PRELIMINARY & GENERAL (Applicable to all sections of the work)				
1	<b>Scheduled Charge and Value</b> The subcontract to be entered into between the Principal Contractor and the nominated/selected Sub-contractor shall conform to and incorporate the JBCC Nominated/Selected Sub-contract Agreement Applicable to The Contract Data&Preliminaries Supplied at time of tender.				
2	<b>Preliminary and General Conditions</b> Preliminary and General condition of the main contract are not included in the specification document and shall form part of this subcontract.  If the tenderer wishes to place value to any of the clause detailed in the preliminaries he/she should do so hereunder.				
2.01	Management				
	Guarantees & Insurance				
2.02	Payment Guarantee				
	Variable Construction Guarantee				
	Performance Guarantee				
2.03	Occupational Health & Safety				
2.04	Engineering & Shop Drawings				
2.05	Equipment Submissions				
2.06	Site Establishment				
2.07	Travelling, Out of Town Allowances & Accommodation				
2.08	Local Labour				
2.09	Installation Labour				
2.10	Plant, Rigging & Crane Hire				
2.11	Transport & Deliveries				
2.12	Access Equipment (Scaffolding or Boom Lift) Reach @ 4m				
2.13	Commissioning, Testing & Balancing				
2.14	Commission Reports				
2.15	Spares, Equipment Labels and Block Plans				
2.16	As-built Drawings				
2.17	Training ( 1 x Session per tenant)				
	Preparation of Operating and Maintenance Manuals				
2.18	REVISION 1				
	Soft Copies (4 off) USB Drives only)				
2.19	<b>12 Months Guarantee and Annual Maintenance</b> To include 1 x Annual inspection of entire system - See Section 4, Item 18)				
2.20	Any additional items of Preliminary nature that the tenderer may wish to add to comply with the requirements and/or Bill of Quantity.(To be listed hereunder by the Tenderer)				
<b>TOTAL SCHEDULE NO: MP - CARRIED TO SUMMARY</b>					

## FIRE EQUIPMENT &amp; FIRE SIGNAGE INSTALLATION

## SCHEDULE OF QUANTITIES

**NB** TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN **BLACK** & IT REMAINS THE RESPONSIBILITY OF THE TENDERER TO VERIFY AND CONFORM THAT ALL FORMULAS TO ENSURE VALUES ARE CALCULATED CORRECTLY

## SCHEDULE NO: WS-01,

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
<b>1</b>	<b>WATER SUPPLY PUMPS</b>			
<b>1.1</b>	<b>HYDRANT PUMPSET;- (ASIB APPROVED)</b> Electrical driven fire pump rated at <b>1500 l/min @ 550kPa</b> Jockey pump rated at <b>90 l/min @ 650kPa</b>	1		
<b>1.2</b>	<b>ELECTRICAL PUMPSET ANNUAL SERVICE;-</b> Allow for annual service of pumpset and associated electrical equipment as specifications.	1		
<b>2</b>	<b>WATER SUPPLY TANKS</b>			
<b>2.1</b>	<b>SQUARE SECTIONAL STEEL FIRE &amp; DOMESTIC TANK (VIDEX or similar ASIB approved) 4(L) x 5(W) x 4(H)</b> Total <u>Effective</u> Capacity of <b>78m³ (FIRE)</b> Effective Capacity of <b>52m³ (DOMESTIC)</b> Inclusive of all the following: - Tank Infill Connections (4 off) (1x80mm, 3x50mm) - Tank Infill Valve Assembly & Piping: (2off) (1x80mm, 1x50mm) - Tank Drain & Overflow Connections: (2off 80mm) - Tank Drain & Overflow Piping: (2off 100mm) - Pump Test Return Pipe Connection: (1off 100mm) - Pump Cooling Pipe Connection: (N/A) - Water Level Indicators (2off) - Access Ladders & Hatches (1off) Square sectional panels only	1		
<b>3</b>	<b>PUMP HOUSE PIPE WORK</b>			
<b>3.1</b>	<b>HYDRANT &amp; DOMESTIC PUMP &amp; TANKS - ASIB APPROVED</b> Vortex Inhibitor: (2 off) (1x100mm & 1x150mm) Pump Suction Pipework (Include as per drawing) Flanged Butterfly Isolating Valves - geared operations Flanged Flexible Connection Delivery Piping (Include as per drawing) REVISION 1 Delivery Non-return valve - stainless steel disc (N/A) Pump Test Return Piping (Include piping into pumproom) Pump Test Direct Reading Flow Meter Pump Cooling Piping (N/A) Pipework support brackets (Include as per drawing) 3-tier Autostart arrangement Diesel Tanks with vent piping (N/A) Control Panels with wiring GSM dialler module link to panels	SUM		

## FIRE EQUIPMENT &amp; FIRE SIGNAGE INSTALLATION

## SCHEDULE OF QUANTITIES

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## SCHEDULE NO: WS-01,

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
	Extraction fan with wiring Valve & Pipe labels (Normally open/closed, directional arrows, etc.)			
<b>4</b>	<b>PAINTING</b>			
4.1	<b>PUMP HOUSE PIPE WORK</b> To be painted with one coat primer, and 2 finish coats gloss enamel - Enamel oil based or approved equivalent Signal Red - Suction, cooling & delivery piping Blue - Enamel oil based (Infill, Council Bypass, domestic water) Labels - incl. directional arrows, Bypass, Suction, Supply, etc.	SUM		
<b>5</b>	<b>ENGINEERING ALLOWANCE</b> To be used at the discretion of the engineer and to be deducted in whole or part as required	SUM	25,000.00	R 25,000.00
<b>6</b>	<b>PUMP ROOM COUNCIL BYPASS FITTINGS</b>			
6.1	<b>BUTTERFLY VALVE - PN16 Gear Box Operated</b> - Woodlands or similar Ø80mm C.I. BODY FBE Coated c/w stainless steel Disc	2		
6.2	<b>BUTTERFLY VALVE - PN16 Gear Box Operated</b> - Woodlands or similar Ø50mm C.I. BODY FBE Coated c/w stainless steel Disc	4		
6.3	<b>CHECK VALVE - Double door PN16</b> - Woodlands or similar Ø50mm C.I. BODY FBE Coated c/w stainless steel Disc	2		
6.4	<b>CHECK VALVE - Double door PN16</b> - Woodlands or similar Ø80mm C.I. BODY FBE Coated c/w stainless steel Disc	1		
6.5	Ø100mm Medium grade Galv. steel piping to SANS 62-1 or SANS 62-2	18		
6.6	Ø80mm Medium grade Galv. steel piping to SANS 62-1 or SANS 62-2	15		
6.7	Ø50mm Medium grade Galv. steel piping to SANS 62-1 or SANS 62-2	40		
<b>7</b>	<b>UNDERGROUND STEEL PIPE CONECTION - As per Typical Detail C</b>			
7.1	ø32mm GMS Connection piece c/w double denzo wrapping	3		
7.2	ø50mm GMS Connection piece c/w double denzo wrapping	4		
7.3	ø80mm GMS Connection piece c/w double denzo wrapping	2		
7.4	ø100mm GMS Connection piece c/w double denzo wrapping	2		
<b>8</b>	<b>UNDERGROUND STEEL PIPE CONECTION - As per Typical Detail D</b>			
8.1	ø100mm GMS Connection piece c/w double denzo wrapping	2		
<b>TOTAL SCHEDULE NO:WS - 01 - CARRIED TO SUMMARY</b>				

SAPS - DUNDONALD

SCHEDULE NO: FE-01  
SAPS: DUN DONALD

## FIRE EQUIPMENT &amp; FIRE SIGNAGE INSTALLATION

## SCHEDULE OF QUANTITIES

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## SCHEDULE NO: FE-01 SAPS: DUN DONALD

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
1	FIRE EQUIPMENT - Woodlands Fire or approved equivalent			
1.1	FIRE HYDRANT - 80x65mm <b>CAST IRON-Tamperproof</b> double lug c/w GMS standpipe, chained dust cover; & FBE coating (Woodlands or similar)	2		
1.2	FOUR WAY CROSS KEY STEEL - Woodlands or similar 12mm, 16mm, 19mm, & 21mm	1		
1.3	65mm MALE INSTANTANEOUS ADPATOR & PRESSURE GAUGE - Woodlands or similar c/w 2500kPA pressure gauge and ball valve	1		
1.4	FIRE HOSE REEL - 30 meter hose c/w mounting bracket, stop cock, hose guide & <u>light alloy</u> nozzle as per detail	7		
1.5	FIRE HOSE REEL STEEL H-FRAME FLOOR MOUNTING BRACKET as per detail on drawings c/w fixing material	0		
1.6	HOSE REEL PRESSURE GAUGE KIT - 100mm Gauge c/w stop cock	2		
1.7	WALL MOUNTED STEEL HOSE REEL CABINET - for 30 meter fire hose reel c/w mounting bracket	2		
1.8	FIRE HOSE REEL PRESSURE GAUGE - c/w mounting adaptor and fixing material	2		
1.9	FIRE EXTINGUISHER - 4,5kg Dry Chemical Powder c/w varnished backing board as per detail	20		
1.10	FIRE EXTINGUISHER - 9,0kg Dry Chemical Powder c/w varnished backing board as per detail	4		
1.11	STEEL CABINET- 4,5kg Fire Extinguisher c/w wall bracket and fixing material	4		
1.12	STEEL CABINET- 9,0kg Fire Extinguisher c/w wall bracket and fixing material	4		
1.13	FIRE EXTINGUISHER - 5,0kg CO <sub>2</sub> c/w varnished backing board as per detail	4		
1.14	REVISION 1 c/w varnished backing board as per detail	2		
1.15	PVC COVER: - 4,5kg DCP Fire Extinguisher UV Resistant	2		
1.16	PVC COVER: - 5,0kg CO <sub>2</sub> UV Resistant	4		
1.17	PVC COVER: - 9,0kg DCP Fire Extinguisher UV Resistant	1		
1.18	PVC COVER: - Hose Reel Cover UV Resistant	2		



SAPS - DUNDONALD

SCHEDULE NO: FE-01  
SAPS: DUN DONALD

FIRE EQUIPMENT & FIRE SIGNAGE INSTALLATION

SCHEDULE OF QUANTITIES

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SCHEDULE NO: FE-01 SAPS: DUN DONALD

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
1.19	FIRE BLANKET - 1,2m x 1,2m c/w varnished backing board as per detail	3		
1.20	Fire Department Twin Fire Hydrant & booster connection (Standpipes only, as per Detail A)	1		
2	FIRE WATER RETICULATION PIPING & FITTINGS			
2.1	FIRE WATER SUPPLY MAINS Ø150mm Medium grade black steel piping to SANS 62-1 or SANS 62-2	5		
2.2	FIRE WATER SUPPLY MAINS Ø100mm Medium grade black steel piping to SANS 62-1 or SANS 62-2	10		
2.3	FIRE WATER SUPPLY MAINS Ø50mm Medium grade black steel piping to SANS 62-1 or SANS 62-2	5		
2.4	FIRE WATER SUPPLY Ø40mm Medium grade black steel piping to SANS 62-1 or SANS 62-2	25		
2.5	FIRE WATER SUPPLY Ø32mm Medium grade black steel piping to SANS 62-1 or SANS 62-2	40		
2.6	FIRE WATER SUPPLY Ø25mm Medium grade black steel piping to SANS 62-1 or SANS 62-2	65		
2.7	BUTTERFLY VALVE - PN16 Gear Box Operated - Woodlands or similar Ø100mm C.I. BODY FBE Coated c/w stainless steel Disc	2		
2.8	CHECK VALVE - Double door PN16 - Woodlands or similar Ø100mm C.I. BODY FBE Coated c/w stainless steel Disc	1		
2.9	100mm PRESSURE GAUGE - 0-1600kPA - 1/2" Bottom	1		
3	PIPE PAINTING			
3.1	EXTERNAL PIPE WORK To be painted with one coat primer, and 2 finish coats - SIGNAL RED (refer to detail specification)	SUM		
3.2	INTERNAL PIPE WORK To be painted with one coat primer, and 2 finish coats - SIGNAL RED (refer to detail specification)	SUM		
TOTAL SCHEDULE NO:FE-01SAPS:DUN DONALD CARRIED TO SUMMARY				

Page 9 - ADDENDUM - MECHANICAL

SAPS - DUNDONALD

SCHEDULE NO: FS-03

SAPS: DUN DONALD

## FIRE &amp; ESCAPE SIGNAGE INSTALLATION

## SCHEDULE OF QUANTITIES

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## SCHEDULE NO: FS-03, SAPS: DUN DONALD,

- **D/S** - Double Sided
- **S/S** - Single Sided
- **BP** - Backing Plate
- **VS** - Vertical Sign
- **HS** - Horizontal Sign
- **PL** - Photo Luminescent
- **CD** - ChromaDek
- **S** - Suspended
- **WM** - Wall Mounted
- **CM** - Rack/Column Mounted
- **PM** - Pole Mounted
- **PANO** - Panoramic Sign
- **LED** - LED Illuminated Sign c/w battery backup

ITEM NO	DESCRIPTION	PRINT	SIZE	FRAMED	TYPE	QTY	RATE	AMOUNT
<b>1</b>	<b>DIRECTIONAL ESCAPE SIGNS</b>							
1.1	E1 (Right)	S/S	190	YES	PL-WM-HS	2		
1.2	E2 (Left)	S/S	190	YES	PL-WM-HS	2		
1.3	E1/E2	D/S	190	YES	PL-S-HS	6		
1.4	E3 (Down)	D/S	190	YES	PL-S-HS	12		
1.5	E3 (Down)	S/S	190	YES	PL-WM-HS	2		
1.6	E2	S/S	190	-	LED-WM-HS	2		
1.7	E1	S/S	190	-	LED-WM-HS	2		
1.8	E6	S/S	190	-	LED-WM-HS	8		
1.9	E14	S/S	190	YES	PL-WM-HS	0		
1.10	E16	S/S	190	YES	PL-WM-HS	0		
1.11	E17	S/S	190	YES	PL-WM-HS	0		
<b>2</b>	<b>FIRE EQUIPMENT SIGNS</b>							
2.1	F1	S/S	190	YES	PL-WM-HS	0		
2.2	F1/F2	D/S	190	YES	PL-S-VS	0		
2.3	F4	S/S	190	YES	PL-WM-HS	8		
2.4	F4	S/S	190	YES	CD-WM-HS	8		
2.5	F5	S/S	190	YES	PL-S-HS	2		
2.6	F6	S/S	190	YES	PL-S-HS	2		
2.7	F5/F6	D/S	190	YES	PL-S-HS	6		
2.8	F13	S/S	190	YES	PL-WM-HS	14		
2.9	F13	S/S	190	YES	CD-WM-HS	3		
2.10	F14	S/S	190	YES	PL-WM-HS	1		
2.12	F15 - External	S/S	290	NO	CD-WM-HS	0		
2.13	F15 - External	S/S	290	NO	CD-WM-HS "V" Type	1		
2.14	REVISION 1	S/S	290	NO	CD-PM-PANO	2		
2.15	F45 - Internal	S/S	290	YES	PL-WM-HS	1		
2.16	F45 - External	S/S	290	NO	CD-WM-HS	6		
<b>3.</b>	<b>EXTERNAL SITE SIGNAGE (Including Installation cost)</b>							
3.1	F49(FB8)/FB1 (Fire Pump Connection)				CD - PM	1		
3.2	F32/FB1 (Sprinkler Stop Valve)				CD-WM	0		
3.3	GA26 (Emergency Assembly Point)				CD-PM	3		
3.4	GA26/GA2				CD-WM-VS	3		
<b>4.</b>	<b>INSTALLATION COST</b>							
4.1	190mm Sign					80		
4.2	290mm Sign					10		
<b>TOTAL SCHEDULE NO:FS-03 - SAPS: DUN DONALD - CARRIED TO SUMMARY</b>								



**SAPS-DUNDONALD**

**FOR  
SOUTH AFRICAN POLICE  
SERVICES**

## **TENDER BILL OF QUANTITIES**

**DOCUMENT: 2 of 2  
REVISION 2**

**CONTRACT NO:3703 HVAC**

**TENDER DOCUMENT FOR THE SUPPLY, INSTALLATION,  
TESTING AND COMMISSIONING OF THE HVAC  
ENGINEERING WORKS BUILDING SERVICES**

**JULY 2024**

**ADDENDUM**

**Page 11 ADDENDUM-MECHANICAL**

## AIR CONDITIONING AND VENTILATION INSTALLATION



### 3. BILL OF QUANTITIES

SAPS-DUNDONALD

SCHEDULE NO: MR  
ITEM RATES

AIR CONDITIONING AND VENTILATION INSTALLATION

#### SCHEDULE OF QUANTITIES

**NB**

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#### SCHEDULE NO MR: ITEM RATES AS FOR BILLED ITEMS

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After Hours (Weekdays & Saturdays)	Hour	1	
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After Hours (Weekdays & Saturdays)	Hour	1	
After Hours (Sundays & Public Holidays)	Hour	1	
<u>Commissioning Team</u>			
Office Hours	Hour	1	
After Hours (Weekdays & Saturdays)	Hour	1	
After Hours (Sundays & Public Holidays)	Hour	1	
<u>REVISION 1</u>			
Office Hours	Hour	1	
After Hours (Weekdays & Saturdays)	Hour	1	
After Hours (Sundays & Public Holidays)	Hour	1	
<u>Draughts Person</u>			
Office Hours	Hour	1	
After Hours (Weekdays & Saturdays)	Hour	1	
After Hours (Sundays & Public Holidays)	Hour	1	
<b>2 EQUIPMENT AND MATERIAL COST</b>			
The cost of all equipment and materials shall remain fixed.	Fixed		
Distance of Return Trip to site	Km		
Vehicle up to 1 ton	/km	1	
Vehicle up to 2 ton	/km	1	
Vehicle up to 5 ton	/km	1	
Vehicle up to 10 ton	/km	1	
Vehicle up to 20 ton	/km	1	
<b>4 MARK-UP ON COST</b>			
(Overhead & Profit)			

## AIR CONDITIONING AND VENTILATION INSTALLATION

## SCHEDULE OF QUANTITIES

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ITEM NO	DESCRIPTION	QTY	FIXED COST	VALUE COST	TIME COST
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1	<b>Scheduled Charge and Value</b> The subcontract to be entered into between the Principal Contractor and the nominated/selected Sub-contractor shall conform to and incorporate the JBCC Nominated/Selected Sub-contract Agreement Applicable to The Contract Data&Preliminaries Supplied at time of tender.				
2	<b>Preliminary and General Conditions</b> Preliminary and General condition of the main contract are not included in the specification document and shall form part of this subcontract.  If the tenderer wishes to place value to any of the clause detailed in the preliminaries he/she should do so hereunder.				
2.01	Management				
	Guarantees & Insurance				
2.02	Payment Guarantee				
	Variable Construction Guarantee				
	Performance Guarantee				
2.03	Occupational Health & Safety				
2.04	Engineering & Shop Drawings				
2.05	Equipment Submissions				
2.06	Site Establishment				
2.07	Travelling, Out of Town Allowances & Accommodation				
2.08	Local Labour				
2.09	Installation Labour				
2.10	Plant, Rigging & Crane Hire				
2.11	Transport & Deliveries				
2.12	Access Equipment (Scaffolding or Boom Lift) Reach height @ 4m				
2.13	Commissioning, Testing & Balancing				
2.14	Commission Reports				
2.15	Spares, Equipment Labels and Block Plans				
2.16	As-built Drawings				
2.17	Training (1 x Session)				
2.18	Dedicated onsite Technician for open day (allow for 3-days)				
	Preparation of Operating and Maintenance Manuals				
2.19	Hard Copies (4 off)	4			
	Soft Copies (4 off) USB Drives only	4			
2.20	<b>12 Months Guarantee and Maintenance (from date of PC)</b> Maintenance to include (12 x Minor Services & 1 x Major Service)				
2.21	Any additional items of Preliminary nature that the tenderer may wish to add to comply with the requirements and/or Bill of Quantity.(To be listed hereunder by the Tenderer)				
<b>TOTAL SCHEDULE NO: MP - CARRIED TO SUMMARY</b>					

## AIR CONDITIONING AND VENTILATION INSTALLATION

## SCHEDULE OF QUANTITIES

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## SCHEDULE NO: 01, AC UNITS, DUNDONALD

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
<b>1</b>	<b>AIR-CONDITIONING UNITS</b>			
<b>1.01</b>	<b>AC-01: (Wall Mounted)</b>			
	Alliance Inverter R410 FOUSI18/B / FOUSI18X/B or Similar Approved	1		
1.01.1	Total -/Sensible Cooling:5.1kW/-kW			
	Heating/Airflow:5.2kW/230L/s			
	Power (Outdoor):220-240V/1PH/50Hz - 2.8kW/13.5A			
1.01.2	Controller: Wireless remote with wall mounted bracket	Sum		
1.01.3	Bracket (Indoor/Outdoor)	Sum		
1.01.4	Refrigeration piping (Liquid/Gas) c/w refrigerant	Sum		
1.01.5	Perforated tray for (exposed areas) refrigeration piping	Sum		
1.01.6	Wire basket for (concealed) refrigeration piping	Sum		
1.01.7	PVC Condensate piping, including condensate pump	Sum		
1.01.8	Galvanised Trunking for external exposed refrigerant piping	Sum		
1.01.9	Electrical wiring between outdoor & indoor	Sum		
1.01.10	Final electrical connection to isolator provided by others	Sum		
<b>1.02</b>	<b>AC-02, AC-03: (Wall Mounted)</b>			
	Alliance Inverter R410 FOUSI09/B / FOUSI09X/B or Similar Approved	2		
1.02.1	Total -/Sensible Cooling:2.7kW/-kW			
	Heating/Airflow:2.71kW/143L/s			
	Power (Outdoor):220-240V/1PH/50Hz - 2.2kW/10.5A			
1.02.2	Controller: Wireless remote with wall mounted bracket	Sum		
1.02.3	Bracket (Indoor/Outdoor)	Sum		
1.02.4	Refrigeration piping (Liquid/Gas) c/w refrigerant	Sum		
1.02.5	Perforated tray for (exposed areas) refrigeration piping	Sum		
1.02.6	Wire basket for (concealed) refrigeration piping	Sum		
1.02.7	PVC Condensate piping, including condensate pump	2		
1.02.8	Galvanised Trunking for external exposed refrigerant piping	Sum		
1.02.9	Electrical wiring between outdoor & indoor	Sum		
1.02.10	Final electrical connection to isolator provided by others	Sum		
<b>1.03</b>	<b>AC-04: (Wall Mounted)</b>			
	Alliance Inverter R410 FOUSI12/FOUSI12X or Similar Approved	1		
1.03.1	Total -/Sensible Cooling:3.42kW/-kW			
	Heating/Airflow:3.6kW/153L/s			
	Power (Outdoor):220-240V/1PH/50Hz - 2.2kW/10.5A			
1.03.2	Controller: Wireless remote with wall mounted bracket	Sum		
1.03.3	Bracket (Indoor/Outdoor)	Sum		
1.03.4	Refrigeration piping (Liquid/Gas) c/w refrigerant	Sum		
1.03.5	Perforated tray for (exposed areas) refrigeration piping	Sum		
1.03.6	Wire basket for (concealed) refrigeration piping	Sum		



SAPS-DUNDONALD

SCHEDULE NO: 01

AC UNITS

DUNDONALD

## AIR CONDITIONING AND VENTILATION INSTALLATION

## SCHEDULE OF QUANTITIES

**NB** TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK & IT REMAINS THE RESPONSIBILITY OF THE TENDERER TO VERIFY AND CONFORM THAT ALL FORMULAS TO ENSURE VALUES ARE CALCULATED CORRECTLY

## SCHEDULE NO: 01, AC UNITS, DUNDONALD

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
1.03.7	PVC Condensate piping, including condensate pump	Sum		
1.03.8	Galvanised Trunking for external exposed refrigerant piping	Sum		
1.03.9	Electrical wiring between outdoor & indoor	Sum		
1.03.10	Final electrical connection to isolator provided by others	Sum		
<b>1.04</b>	<b>AC-05 &amp; AC-06: (Wall Mounted)</b>			
	Alliance Inverter R410 FOUSI18/B / FOUSI18X/B or Similar Approved			
	Total -/Sensible Cooling:5.1kW/-kW	2		
1.04.1	Heating/Airflow:5.2kW/230L/s			
	Power (Outdoor):220-240V/1PH/50Hz - 2.8kW/13.5A			
1.04.2	Controller: Wireless remote with wall mounted bracket	Sum		
1.04.3	Bracket (Indoor/Outdoor-cantilever)	Sum		
1.04.4	Copper Refrigeration piping (Liquid/Gas) c/w refrigerant, armaflex insulation & UV protection where exposed (25m allowance)	SUM		
1.04.5	Perforated tray for (exposed areas) refrigeration piping	20		
1.04.6	Wire basket for (concealed) refrigeration piping	25		
1.04.7	PVC Condensate piping	Sum		
1.04.8	Galvanised Trunking for external exposed refrigerant piping	Sum		
1.04.9	Electrical wiring between outdoor & indoor	Sum		
1.04.10	Final electrical connection to isolator provided by others	Sum		
1.04.11	Stainless Steel Condensate Drip Tray	2		
1.04.12	Condensate pump: Economini 8l/H Rotary Diaphragm Pump c/w trunking kit.	4		
	<b>Lead-Lag Controls:</b>			
1.04.13	Units to be set on timer to automatically switch between lead and lag units on a three day interval.	Sum		
<b>1.05</b>	<b>AC-07: (Wall Mounted)</b>			
	Alliance Inverter R410 FOUSI12/FOUSI12X or Similar Approved			
	Total -/Sensible Cooling:3.42kW/-kW	1		
1.05.1	Heating/Airflow:3.6kW/153L/s			
	Power (Outdoor):220-240V/1PH/50Hz - 2.2kW/10.5A			
1.05.2	Controller: Wireless remote with wall mounted bracket	Sum		
1.05.3	Bracket (Indoor/Outdoor)	Sum		
1.05.4	Refrigeration piping (Liquid/Gas) c/w refrigerant	Sum		
1.05.5	Perforated tray for (exposed areas) refrigeration piping	Sum		
1.05.6	Wire basket for (concealed) refrigeration piping	Sum		
1.05.7	PVC Condensate piping, including condensate pump	Sum		
1.05.8	Galvanised Trunking for external exposed refrigerant piping	Sum		
1.05.9	Electrical wiring between outdoor & indoor	Sum		
1.05.10	Final electrical connection to isolator provided by others	Sum		
<b>1.06</b>	<b>AC-08: (Cassette)</b>			
	Alliance Inverter R410 FOUCI60/A / FOUCI60X/A or Similar Approved			
	Total -/Sensible Cooling:16.11kW/-kW	1		
1.06.1	Heating/Airflow:15.53kW/603L/s			

## AIR CONDITIONING AND VENTILATION INSTALLATION

## SCHEDULE OF QUANTITIES

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## SCHEDULE NO: 01, AC UNITS, DUNDONALD

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
1.06.2	Power (Outdoor):380-415V/3PH/50Hz - 7.6kW/14.0A	Sum		
1.06.3	Controller: Wireless remote with wall mounted bracket	Sum		
1.06.4	Bracket (Indoor/Outdoor)	Sum		
1.06.5	Refrigeration piping (Liquid/Gas) c/w refrigerant	Sum		
1.06.6	Perforated tray for (exposed areas) refrigeration piping	Sum		
1.06.7	Wire basket for (concealed) refrigeration piping	Sum		
1.06.8	PVC Condensate piping	Sum		
1.06.9	Galvanised Trunking for external exposed refrigerant piping	Sum		
1.06.10	Electrical wiring between outdoor & indoor	Sum		
1.06.11	Final electrical connection to isolator provided by others	Sum		
<b>1.07</b>	<b>AC-09 - AC-13: (Wall Mounted)</b>			
	Alliance Inverter R410 FOU5I09/B / FOU5I09X/B or Similar Approved	5		
1.07.1	Total -/Sensible Cooling:2.7kW/-kW			
	Heating/Airflow:2.71kW/143L/s			
	Power (Outdoor):220-240V/1PH/50Hz - 2.2kW/10.5A			
1.07.2	Controller: Wireless remote with wall mounted bracket	Sum		
1.07.3	Bracket (Indoor/Outdoor)	Sum		
1.07.4	Refrigeration piping (Liquid/Gas) c/w refrigerant	Sum		
1.07.5	Perforated tray for (exposed areas) refrigeration piping	Sum		
1.07.6	Wire basket for (concealed) refrigeration piping	Sum		
1.07.7	PVC Condensate piping, including condensate pump	5		
1.07.8	Galvanised Trunking for external exposed refrigerant piping	Sum		
1.07.9	Electrical wiring between outdoor & indoor	Sum		
1.07.10	Final electrical connection to isolator provided by others	Sum		
<b>1.08</b>	<b>AC-14: (Wall Mounted)</b>			
	Alliance Inverter R410 FOU5I12/FOU5I12X or Similar Approved	1		
1.08.1	Total -/Sensible Cooling:3.42kW/-kW			
	Heating/Airflow:3.6kW/153L/s			
	Power (Outdoor):220-240V/1PH/50Hz - 2.2kW/10.5A			
1.08.2	Controller: Wireless remote with wall mounted bracket	Sum		
1.08.3	Bracket (Indoor/Outdoor)	Sum		
1.08.4	Refrigeration piping (Liquid/Gas) c/w refrigerant	Sum		
1.08.5	Perforated tray for (exposed areas) refrigeration piping	Sum		
1.08.6	Wire basket for (concealed) refrigeration piping	Sum		
1.08.7	PVC Condensate piping, including condensate pump	Sum		
1.08.8	Galvanised Trunking for external exposed refrigerant piping	Sum		
1.08.9	Electrical wiring between outdoor & indoor	Sum		
1.08.10	Final electrical connection to isolator provided by others	Sum		
<b>1.09</b>	<b>AC-15 - AC-20: (Wall Mounted)</b>			
	Alliance Inverter R410 FOU5I09/B / FOU5I09X/B or Similar Approved	6		
1.09.1	Total -/Sensible Cooling:2.7kW/-kW			
	Heating/Airflow:2.71kW/143L/s			

## AIR CONDITIONING AND VENTILATION INSTALLATION

## SCHEDULE OF QUANTITIES

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## SCHEDULE NO: 01, AC UNITS, DUNDONALD

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
1.09.2	Power (Outdoor):220-240V/1PH/50Hz - 2.2kW/10.5A	Sum		
1.09.3	Controller: Wireless remote with wall mounted bracket	Sum		
1.09.4	Bracket (Indoor/Outdoor)	Sum		
1.09.5	Refrigeration piping (Liquid/Gas) c/w refrigerant	Sum		
1.09.6	Perforated tray for (exposed areas) refrigeration piping	Sum		
1.09.7	Wire basket for (concealed) refrigeration piping	Sum		
1.09.8	PVC Condensate piping, including condensate pump	6		
1.09.9	Galvanised Trunking for external exposed refrigerant piping	Sum		
1.09.10	Electrical wiring between outdoor & indoor	Sum		
1.09.11	Final electrical connection to isolator provided by others	Sum		
<b>1.10</b>	<b>AC-21 - AC-32: (Wall Mounted)</b>			
	Alliance Inverter R410 FOU5I09/B / FOU5I09X/B or Similar Approved	12		
1.10.1	Total -/Sensible Cooling:2.7kW/-kW			
	Heating/Airflow:2.71kW/143L/s			
	Power (Outdoor):220-240V/1PH/50Hz - 2.2kW/10.5A			
1.10.2	Controller: Wireless remote with wall mounted bracket	Sum		
1.10.3	Bracket (Indoor/Outdoor)	Sum		
1.10.4	Refrigeration piping (Liquid/Gas) c/w refrigerant	Sum		
1.10.5	Perforated tray for (exposed areas) refrigeration piping	Sum		
1.10.6	Wire basket for (concealed) refrigeration piping	Sum		
1.10.7	PVC Condensate piping, including condensate pump	12		
1.10.8	Galvanised Trunking for external exposed refrigerant piping	Sum		
1.10.9	Electrical wiring between outdoor & indoor	Sum		
1.10.10	Final electrical connection to isolator provided by others	Sum		
<b>1.11</b>	<b>AC-33 &amp; AC-33a: (Wall Mounted)</b>			
	Alliance Inverter R410 FOU5I18/B / FOU5I18X/B or Similar Approved	2		
1.11.1	Total -/Sensible Cooling:5.1kW/-kW			
	Heating/Airflow:5.2kW/230L/s			
	Power (Outdoor):220-240V/1PH/50Hz - 2.8kW/13.5A			
1.11.2	Controller: Wireless remote with wall mounted bracket	Sum		
1.11.3	Bracket (Indoor/Outdoor-cantilever)	Sum		
1.11.4	Copper Refrigeration piping (Liquid/Gas) c/w refrigerant, armaxflex insulation & UV protection where exposed (25m allowance)	SUM		
1.11.5	Perforated tray for (exposed areas) refrigeration piping	20		
1.11.6	Wire basket for (concealed) refrigeration piping	25		
1.11.7	PVC Condensate piping	Sum		
1.11.8	Galvanised Trunking for external exposed refrigerant piping	Sum		
1.11.9	Electrical wiring between outdoor & indoor	Sum		
1.11.10	Final electrical connection to isolator provided by others	Sum		
1.11.11	Stainless Steel Condensate Drip Tray	2		
1.11.12	Condensate pump: Economini 8l/H Rotary Diaphragm Pump c/w trunking kit.	4		
	Lead-Lag Controls:			

## AIR CONDITIONING AND VENTILATION INSTALLATION

## SCHEDULE OF QUANTITIES

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## SCHEDULE NO: 01, AC UNITS, DUNDONALD

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
1.11.1	Units to be set on timer to automatically switch between lead and lag units on a three day interval.	Sum		
<b>1.12</b>	<b>AC-34, AC-35: (Wall Mounted)</b>			
	Alliance Inverter R410 FOU5I09/B / FOU5I09X/B or Similar Approved	2		
	Total -/Sensible Cooling:2.7kW/-kW			
1.12.1	Heating/Airflow:2.71kW/143L/s			
	Power (Outdoor):220-240V/1PH/50Hz - 2.2kW/10.5A			
1.12.2	Controller: Wireless remote with wall mounted bracket	Sum		
1.12.3	Bracket (Indoor/Outdoor)	Sum		
1.12.4	Refrigeration piping (Liquid/Gas) c/w refrigerant	Sum		
1.12.5	Perforated tray for (exposed areas) refrigeration piping	Sum		
1.12.6	Wire basket for (concealed) refrigeration piping	Sum		
1.12.7	PVC Condensate piping, including condensate pump	2		
1.12.8	Galvanised Trunking for external exposed refrigerant piping	Sum		
1.12.9	Electrical wiring between outdoor & indoor	Sum		
1.12.10	Final electrical connection to isolator provided by others	Sum		
<b>1.13</b>	<b>AC-36: (Wall Mounted)</b>			
	Alliance Inverter R410 FOU5I12/FOU5I12X or Similar Approved	1		
	Total -/Sensible Cooling:3.42kW/-kW			
1.13.1	Heating/Airflow:3.6kW/153L/s			
	Power (Outdoor):220-240V/1PH/50Hz - 2.2kW/10.5A			
1.13.2	Controller: Wireless remote with wall mounted bracket	Sum		
1.13.3	Bracket (Indoor/Outdoor)	Sum		
1.13.4	Refrigeration piping (Liquid/Gas) c/w refrigerant	Sum		
1.13.5	Perforated tray for (exposed areas) refrigeration piping	Sum		
1.13.6	Wire basket for (concealed) refrigeration piping	Sum		
1.13.7	PVC Condensate piping, including condensate pump	Sum		
1.13.8	Galvanised Trunking for external exposed refrigerant piping	Sum		
1.13.9	Electrical wiring between outdoor & indoor	Sum		
1.13.10	Final electrical connection to isolator provided by others	Sum		
<b>1.14</b>	<b>AC-38: (Cassette)</b>			
	Alliance Inverter R410 FOU5I36/1/B / FOU5I36X/1/B or Similar Approved	1		
	Total -/Sensible Cooling:16.11kW/-kW			
1.14.1	Heating/Airflow:16.99kW/547L/s			
	Power (Outdoor):220-240V/1PH/50Hz - 5.0kW/22.5A			
1.14.2	Controller: Wireless remote with wall mounted bracket	Sum		
1.14.3	Bracket (Indoor/Outdoor)	Sum		
1.14.4	Refrigeration piping (Liquid/Gas) c/w refrigerant	Sum		
1.14.5	Perforated tray for (exposed areas) refrigeration piping	Sum		
1.14.6	Wire basket for (concealed) refrigeration piping	Sum		
1.14.7	PVC Condensate piping	Sum		
1.14.8	Galvanised Trunking for external exposed refrigerant piping	Sum		
1.14.9	Electrical wiring between outdoor & indoor	Sum		

SAPS-DUNDONALD

SCHEDULE NO: 01

AIR CONDITIONING AND VENTILATION INSTALLATION

AC UNITS  
DUNDONALD

SCHEDULE OF QUANTITIES

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SCHEDULE NO: 01, AC UNITS, DUNDONALD

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
1.14.1	Final electrical connection to isolator provided by others	Sum		
1.15	<b>ENGINEERING ALLOWANCE</b> To be used at the discretion of the engineer and to be deducted in whole or part as required	SUM	50,000.00	R 50,000.00
1.16	<b>D-UNIT 1: (Dehumidifier)</b> GMC Aircon GMCDH-26 or Similar Approved	3		
1.16.1	Total -/Sensible Cooling:10.55kW/8.96kW			
	Heating/Airflow:11.13kW/509L/s Power (Outdoor):240V/1PH/50Hz - 0.45kW			
1.15	<b>MID-WALL AC: Multi Function Board</b> For External Contact for occupancy sensor control input	40		
TOTAL SCHEDULE NO:01 - AC UNITS - CARRIED TO SUMMARY				

## AIR CONDITIONING AND VENTILATION INSTALLATION

## SCHEDULE OF QUANTITIES

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## SCHEDULE NO: 02, FANS, DUNDONALD

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
<b>2</b>	<b>FANS</b>			
2.01	<b>FF1</b>			
2.01.1	<b>Model:</b> AMS Axial Flow Fan, AP0312AA10/0.8 or Similar Approved Duty: 1040 l/s @ 230 Pa	1		
2.01.2	Extras: 2.0 Dia Podded Sound Attenuators & Pleated Filter Bank	2		
2.01.3	Controller: 7-day timer & motor protection mounted in separate (IP65 rating) enclosure @ fan	Sum		
2.01.4	Ducting & Supports: As per Drawing	Sum		
2.02	<b>FF2</b>			
2.02.1	<b>Model:</b> AMS Axial Flow Fan, AP0312AA5/0.4 or Similar Approved Duty: 725 l/s @ 230 Pa	1		
2.02.2	Extras: 2.0 Dia Podded Sound Attenuators & Pleated Filter Bank	2		
2.02.3	Controller: 7-day timer & motor protection mounted in separate (IP65 rating) enclosure @ fan	Sum		
2.02.4	Ducting & Supports: As per Drawing	Sum		
2.04	<b>FW1</b>			
2.04.1	<b>Model:</b> Expelair Wall Fan, WX6 or Similar Approved Duty: 76 l/s @ - Pa	25		
2.04.2	Extras: Burglar Bar & Wall Sleeve	25		
2.04.3	Controller: 7-day timer & motor protection mounted in separate (IP65 rating) enclosure @ fan	25		
2.05	<b>EF3</b>			
2.05.1	<b>Model:</b> AMS Axial Flow Fan, AP0402AA5/0.6 or Similar Approved Duty: 1500 l/s @ 130 Pa	1		
2.05.2	Extras: 2.0 Dia Podded Sound Attenuators	2		
2.05.3	Controller: Interlinked to start/stop via canopy mounted controller & motor protection mounted in separate (IP65 rating) enclosure @ fan	Sum		
2.05.4	Ducting & Supports: As per Drawing	Sum		
2.06	<b>FF3</b>			
2.06.1	<b>Model:</b> AMS Axial Flow Fan, AP0402AA5/0.6 or Similar Approved Duty: 1250 l/s @ 230 Pa	1		
2.06.2	Extras: 2.0 Dia Podded Sound Attenuators & Pleated Filter Bank	2		
2.06.3	Controller: Interlinked to start/stop via canopy mounted controller & motor protection mounted in separate (IP65 rating) enclosure @ fan	Sum		
2.06.4	Ducting & Supports: As per Drawing	Sum		
2.07	<b>CAN01</b>			
	AMMS Cyclovent or Similar Approved Boxed Type 304 S/S Canopy			

SAPS-DUNDONALD		SCHEDULE NO: 02		
AIR CONDITIONING AND VENTILATION INSTALLATION		FANS DUNDONALD		
SCHEDULE OF QUANTITIES				
<u>NB</u> TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN <b>BLACK</b> & IT REMAINS THE RESPONSIBILTY OF THE TENDERER TO VERIFY AND CONFORM THAT ALL FORMULAS TO ENSURE VALUES ARE CALCULATED CORRECTLY				
SCHEDULE NO: 02, FANS, DUNDONALD				
ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
	Extras: S/S spigot covers, 2 x moisture proof fluorescent light fittings Size: 2500x1200x600(H) - close off piece to protrude 100mm into ceiling	1		
TOTAL SCHEDULE NO:02 - FANS - CARRIED TO SUMMARY				

SAPS-DUNDONALD

SCHEDULE NO: 03

## AIR CONDITIONING AND VENTILATION INSTALLATION

AIR TERMINALS  
DUNDONALD

## SCHEDULE OF QUANTITIES

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## SCHEDULE NO: 03, AIR TERMINALS, DUNDONALD

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
5	<b>AIR TERMINALS</b>			
5.01	<b>D4</b> Rickard 600 x 600mm (Ø200 Spigot) CCD - Square Ceiling Diffuser Extras: Installation T-Ring Finish: Epoxy Powder Coated - Matt White	5		
5.02	<b>SV01</b> TROX Z-LVS Ø160mm (Ø159mm Spigot) Steel Supply Disc Valve Extras: G1-Installation subframe Finish: Baked Enamel White	50		
5.03	<b>TAG01</b> TROX 250 x 250mm Fixed Curved Blade Transfer Air Grille REVISION 1 Finish: Epoxy Powder Coated - Pure White (RAL9010)	15		
5.04	<b>DG 01</b> Europair 400 x 400mm Non-Vision "V" Blade Door Grille (DG) Extras: Punched & Counter Sunk Finish: Epoxy Powder Coated GREY (RAL TBC)	40		
5.05	<b>DV01</b> TROX Ø200mm (Ø150mm Spigot) Steel Extract Disc Valve Extras: Finish: Baked Enamel White	15		
5.06	<b>FAG04</b> TROX 600 x 600mm Fixed Curved Blade Supply Air Grille Extras: Plenum & Spigot Finish: Epoxy Powder Coated - White	5		
TOTAL SCHEDULE NO:03 - AIR TERMINALS - CARRIED TO SUMMARY				



SAPS-DUNDONALD

SCHEDULE NO: 04

LOUVRES

DUNDONALD

## AIR CONDITIONING AND VENTILATION INSTALLATION

## SCHEDULE OF QUANTITIES

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## SCHEDULE NO: 04, LOUVRES, DUNDONALD

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
6	LOUVRES			
6.01	<u>WL01</u> TROX 1200 x 500mm Fixed Blade Weather Louvre Extras: c/w Burglar Bars, Galvanised Wire Mesh, Wall Sleeve Finish: Powder Coated - RAL TBC	1		
6.02	<u>WL02</u> TROX 850 x 500mm Fixed Blade Weather Louvre Extras: c/w Burglar Bars, Galvanised Wire Mesh, Wall Sleeve Finish: Powder Coated - RAL TBC	1		
6.03	<u>WL03</u> TROX 400 x 400mm Fixed Blade Weather Louvre Extras: c/w Burglar Bars, Galvanised Wire Mesh, Wall Sleeve Finish: Powder Coated - RAL TBC	4		
6.04	<u>WL04</u> TROX 600 x 1500mm AWK Weather Louvre Extras: c/w Burglar Bars, Wall Sleeve Finish: Epoxy Powder Coated - RAL TBC	4		
TOTAL SCHEDULE NO:04 - LOUVRES - CARRIED TO SUMMARY				

SAPS-DUNDONALD

SCHEDULE NO: 05

AIR CONDITIONING AND VENTILATION INSTALLATION

DAMPERS  
DUNDONALD

## SCHEDULE OF QUANTITIES

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## SCHEDULE NO: 05, DAMPERS, DUNDONALD

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
7	<b>DAMPERS</b>			
7.01	<b>FD1</b> Trox 400 x 400mm 400L Fire Damper Extras: 72°C - Fusible Link ( <b>SABS Certified 2Hr Fire Rated</b> )	1		
7.02	<b>BD01</b> Europair ø350 Butterfly Balancing Damper Extras: None	1		
7.03	<b>BD02</b> Europair ø400 Butterfly Balancing Damper Extras: None	1		
TOTAL SCHEDULE NO:05 - DAMPERS - CARRIED TO SUMMARY				



**SAPS - DUNDONALD**

**FOR  
SOUTH AFRICAN POLICE  
SERVICES**

## **TENDER BILL OF QUANTITIES**

**DOCUMENT: 1 of 1**  
REVISION 2

**CONTRACT NO:3703 WS**

**TENDER DOCUMENT FOR THE SUPPLY, INSTALLATION,  
TESTING AND COMMISSIONING OF THE DOMESTIC WATER  
& INTERNAL DRAINAGE BUILDING SERVICES**

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**CLOSING DATE: TBC,  
12:00, VIA EMAIL TO INGPLAN CONSULTING ENGINEERS**

**JULY 2024**

ADDENDUM

*Page 27 - ADDENDUM - MECHANICAL*

## 1. TENDER DRAWINGS

**SAPS - DUNDONALD**

## DOMESTIC WATER & DRAINAGE INSTALLATION

[illegible]

<b>2. SUMMARY</b>			
SAPS - DUNDONALD			
DOMESTIC WATER & DRAINAGE INSTALLATION			
<b>SUMMARY OF SCHEDULE OF QUANTITIES:</b>			
ITEM NO	DESCRIPTION		VALUE
1	SCHEDULE NO MR: ITEM RATES AS FOR BILLED ITEMS	R	RATES
2	SCHEDULE NO MP: PRELIMINARY & GENERAL	R	
3	SCHEDULE NO: 01-GENERAL,	R	
4	SCHEDULE NO: 02 DOMESTIC INTERNAL WATER	R	
5	SCHEDULE NO: 03 PLANT ROOM WATER SUPPLIES	R	
6	SCHEDULE NO: 04 HOT WATER GENERATION	R	
7	SCHEDULE NO: 05 SANITARY INTERNAL DRAINAGE	R	
8	SCHEDULE NO: 06 SANITARYWARE FITTINGS	R	
9	TOTAL OF SHEDULE OF QUANTITIES		
10	ADD 15% VAT		
11	CARRIED TO CALCULATON OF TENDER SUM		
SIGNATURE.....  NAME .....  SIGNED ON BEHALF OF TENDERER .....  DATE .....			

### 3. BILL OF QUANTITIES

SAPS - DUNDONALD

SCHEDULE NO: MR  
ITEM RATES

#### DOMESTIC WATER & DRAINAGE INSTALLATION

#### SCHEDULE OF QUANTITIES

**NB**

TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK & IT REMAINS THE RESPONSIBILITY OF THE TENDERER TO VERIFY AND CHECK ALL FORMULAS TO ENSURE VALUES ARE CALCULATED CORRECTLY

#### SCHEDULE NO MR: ITEM RATES AS FOR BILLED ITEMS

	UNITS	QUANTITY	RATE
Non Scheduled Bill, Provisional Sum & Tenant Requirement Item Rates			
<b>1 LABOUR COST</b>			
Rates for non scheduled items are to be applied to the hours worked and are to include for the cost of labour, all levies, bonuses and leave pay.			
<u>Erection Team</u>			
Office Hours	Hour	1	
After Hours (Weekdays & Saturdays)	Hour	1	
After Hours (Sundays & Public Holidays)	Hour	1	
<u>Fabrication team</u>			
Office Hours	Hour	1	
After Hours (Weekdays & Saturdays)	Hour	1	
After Hours (Sundays & Public Holidays)	Hour	1	
<u>Commissioning Team</u>			
Office Hours	Hour	1	
After Hours (Weekdays & Saturdays)	Hour	1	
After Hours (Sundays & Public Holidays)	Hour	1	
<u>Engineer</u>			
REVISION 1	Hour	1	
After Hours (Weekdays & Saturdays)	Hour	1	
After Hours (Sundays & Public Holidays)	Hour	1	
<u>Draughts Person</u>			
Office Hours	Hour	1	
After Hours (Weekdays & Saturdays)	Hour	1	
After Hours (Sundays & Public Holidays)	Hour	1	
<b>2 EQUIPMENT AND MATERIAL COST</b>			
The cost of all equipment and materials shall remain fixed.	Fixed		
<b>3 TRANSPORT AND DELIVERY</b>			
Distance of Return Trip to site	Km		
Vehicle up to 1 ton	/km	1	
Vehicle up to 2 ton	/km	1	
Vehicle up to 5 ton	/km	1	
Vehicle up to 10 ton	/km	1	
Vehicle up to 20 ton	/km	1	
<b>4 MARK-UP ON COST</b>			
(Overhead & Profit)			

SAPS - DUNDONALD

SCHEDULE NO: MP

DOMESTIC WATER & DRAINAGE INSTALLATION

SCHEDULE OF QUANTITIES

NBTENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK & IT REMAINS THE RESPONSIBILITY OF THE TENDERER TO VERIFY AND CHECK ALL FORMULAS TO ENSURE VALUES ARE CALCULATED CORRECTLY

SCHEDULE NO MP: PRELIMINARY & GENERAL

ITEM NO	DESCRIPTION	QTY	FIXED COST	VALUE COST	TIME COST
	PRELIMINARY & GENERAL (Applicable to all sections of the work)				
1	<b>Scheduled Charge and Value</b> The subcontract to be entered into between the Principal Contractor and the nominated/selected Sub-contractor shall conform to and incorporate the JBCC Nominated/Selected Sub-contract Agreement Applicable to The Contract Data&Preliminaries Supplied at time of tender.				
2	<b>Preliminary and General Conditions</b> Preliminary and General condition of the main contract are not included in the specification document and shall form part of this subcontract.  If the tenderer wishes to place value to any of the clause detailed in the preliminaries he/she should do so hereunder.				
2.01	Management				
2.02	Guarantees & Insurance				
	Payment Guarantee				
	Variable Construction Guarantee				
	Performance Guarantee				
2.03	Occupational Health & Safety				
2.04	Engineering & Shop Drawings				
2.05	Equipment Submissions				
2.06	Site Establishment				
2.07	Travelling, Out of Town Allowances & Accommodation				
2.08	Local Labour				
2.09	Installation Labour				
2.10	Plant, Rigging & Crane Hire				
2.11	Transport & Deliveries				
2.12	Access Equipment (Scaffolding or Boom Lift) Reach @ 6m				
2.13	Commissioning, Testing & Balancing				
2.14	Commission Reports				
2.15	Spares, Equipment Labels and Block Plans				
2.16	As-built Drawings (By Consultant)				
2.17	Training ( 1 x Session per tenant)				
2.18	Preparation of Operating and Maintenance Manuals	4			
	Soft Copies (4 off) USB Drives only)	4			
2.19	<b>12 Months</b> Guarantee and Annual Maintenance  To include 1 x Annual inspection of entire system				
2.20	Any additional items of Preliminary nature that the tenderer may wish to add to comply with the requirements and/or Bill of Quantity.(To be listed hereunder by the Tenderer)				
TOTAL SCHEDULE NO: MP - CARRIED TO SUMMARY					

SAPS - DUNDONALD

SCHEDULE NO: 01  
GENERAL

## DOMESTIC WATER &amp; DRAINAGE INSTALLATION

## SCHEDULE OF QUANTITIES

**NB** TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK & IT REMAINS THE RESPONSIBILITY OF THE TENDERER TO VERIFY AND CONFORM THAT ALL FORMULAS TO ENSURE VALUES ARE CALCULATED CORRECTLY

## SCHEDULE NO: 01-GENERAL,

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
1	QUALITY CONTROL AND TESTING It is a strict condition of this plumbing contract that the contractors and inspections on an ongoing basis			
1.1	Appointment of an approved independent quality control officer	SUM		
1.2	Disinfection of hot and cold water lines (in terms of SABS1200L Section 7)	SUM		
1.3	Allow for the following microbiological water sample testing of the following: HPC, TC, FC, HC & Legionella	SUM		
1.4	Abbreviated SANS241:2015 Water Analysis Testing	4		
TOTAL SCHEDULE NO:01 - GENERAL - CARRIED TO SUMMARY				



DUNDONALD		SCHEDULE NO: 02		
DOMESTIC WATER & DRAINAGE INSTALLATION		DOMESTIC INTERNAL WATER		
SCHEDULE OF QUANTITIES				
<b>NB</b> TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN <b>BLACK</b> & IT REMAINS THE RESPONSIBILITY OF THE TENDERER TO VERIFY AND CONFORM THAT ALL FORMULAS TO ENSURE VALUES ARE CALCULATED CORRECTLY				
SCHEDULE NO: 02 DOMESTIC INTERNAL WATER				
ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
	For the complete supply, delivery and installation of supply piping including all valves, fittings, hangers, supports, expansion elbows, pipe sleeves chasing into walls and necessary accessories as specified and required by the manufacturer. Rates to include sleeving where piping penetrates concrete slabs, walls and where piping is buried within concrete walls.			
1	Geberit Mepla-PEX/AL/HDPE (multi-layer piping SANS 21003)			
1.1	Ø20mm (PEX/AL/HDPE Ø20mm x 2.25mm)	627		
1.2	Ø26mm (PEX/AL/HDPE Ø26mm x 3mm)	256		
1.3	Ø32mm (PEX/AL/HDPE Ø32mm x 3mm)	79		
1.4	Ø40mm (PEX/AL/HDPE Ø40mm x 3.5mm)	38		
1.5	Ø50mm (PEX/AL/HDPE Ø50mm x 4mm)	7		
2	Geberit Mepla-PEX/AL/HDPE Pipe Fittings (multi-layer piping SANS 21003)			
2.1	Ø20-20mm Elbow	334		
2.2	Ø26-26mm Elbow	213		
2.3	Ø32-32mm Elbow	28		
2.4	Ø40-40mm Elbow	23		
2.5	Ø50-50mm Elbow	21		
2.6	Ø26-20mm Reducer	89		
2.7	Ø32-20mm Reducer	7		
2.8	Ø32-26mm Reducer	22		
2.9	Ø40-26mm Reducer	2		
2.10	Ø40-32mm Reducer	3		
2.11	Ø50-32mm Reducer	2		
2.12	Ø50-40mm Reducer	2		
2.13	Ø20-20-20mm T-Piece	63		
2.14	Ø26-20-20mm T-Piece	54		
2.15	Ø26-26-20mm T-Piece	40		
2.16	Ø26-26-26mm T-Piece	48		
2.17	Ø32-20-26mm T-Piece	21		
2.18	Ø32-26-26mm T-Piece	13		
2.19	Ø32-32-20mm T-Piece	9		
2.20	Ø32-32-32mm T-Piece	6		
2.21	Ø40-32-26mm T-Piece	13		
2.22	Ø40-40-26mm T-Piece	2		
2.23	Ø40-40-32mm T-Piece	2		
2.24	Ø40-40-40mm T-Piece	2		

DUNDONALD

SCHEDULE NO: 02  
DOMESTIC INTERNAL WATER

DOMESTIC WATER & DRAINAGE INSTALLATION

SCHEDULE OF QUANTITIES

NB TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK & IT REMAINS THE RESPONSIBILITY OF THE TENDERER TO VERIFY AND CONFORM THAT ALL FORMULAS TO ENSURE VALUES ARE CALCULATED CORRECTLY

SCHEDULE NO: 02 DOMESTIC INTERNAL WATER

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
2.25	Ø50-50-40mm T-Piece	2		
2.26	Ø50-50-50mm T-Piece	2		
2.27	Ø20-15mm Wall Plate Elbow short	136		
2.28	Ø26-20mm Wall Plate Elbow short	37		
3	Supply and Install Copper piping (conform to SANS 460, copper class 2)			
3.1	Ø15mm	55		
3.2	Ø22mm	76		
4	Supply and install Capillary fittings (conform to SANS 1067),			
4.1	Ø15mm Fittings	64		
4.2	Ø22mm Fittings	99		
5	Mepla Valves including pipe fitting connections to MEPLA piping			
5.1	20mm diameter Geberit Mepla Ball Valve	9		
5.2	26mm diameter Geberit Mepla Ball Valve	15		
5.3	32mm diameter Geberit Mepla Ball Valve	15		
5.4	40mm diameter Geberit Mepla Ball Valve	6		
6	Y-strainers including pipe fitting connections to HDPE piping			
6.1	Ø20mm	2		
6.2	Ø25mm	3		
6.3	Ø40mm	2		
7	Temperature Balancing / Flow Control Valves			
	Complete temperature gauge, indentification lug, temperature scale, locking screw, including brass straight coupler compression type connections to HDPE piping. TA Hydronics TA Therm or other approved.			
7.1	20mm diameter	1		
8	Thermostatic mixing valves			
	Including built-in non-return valves and including brass straight coupler compression type connections to Mepla piping Danfoss TVM-H or other approved.Including Mepla Connections			
8.1	20mm diameter	4		
9	Supply and install (41x41)mm Unistrut channel			
	(Cabstrut or other approved) as special brackets and supports for the pipework to the building roof and wall structure,complete with necessary fittings and accessories as per manufacturer's recommendation.	4		
10	Pressure Regulating Valve @400kPa including pipe fitting connections to MEPLA piping			
10.1	25mm diameter PRV	3		
10.2	32mm diameter PRV	2		
10.3	40mm diameter PRV	2		
10.4	50mm diameter PRV	1		
11	Water Meter including pipe fitting connections to MEPLA piping			
11.1	25mm diameter SENSUS 420 Water Meter or similar approved	3		

DUNDONALD

SCHEDULE NO: 02  
DOMESTIC INTERNAL WATER

DOMESTIC WATER & DRAINAGE INSTALLATION

SCHEDULE OF QUANTITIES

**NB** TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN **BLACK** & IT REMAINS THE RESPONSIBILITY OF THE TENDERER TO VERIFY AND CONFORM THAT ALL FORMULAS TO ENSURE VALUES ARE CALCULATED CORRECTLY

SCHEDULE NO: 02 DOMESTIC INTERNAL WATER

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
11.2	32mm diameter SENSUS 420 Water Meter or similar approved	6		
11.3	40mm diameter SENSUS 420 Water Meter or similar approved	3		
11.4	50mm diameter HELIX H4000 WOLTMANN Water Meter or similar approved	3		
12	<b>Non Return Valve including pipe fitting connections to MEPLA piping</b>			
12.1	25mm diameter Non Return Valve	3		
12.2	32mm diameter Non Return Valve	6		
12.3	40mm diameter Non Return Valve	3		
12.3	50mm diameter Non Return Valve	2		
13	<b>PAINTING &amp; LABELLING</b>			
13.1	Allow for painting and labelling of piping as specified to SANS 10140. The surfaces shall be cleaned, primed, undercoated and finished in high quality gloss paint. The length of the band shall be same as the final pipe diameter, but not less than 100 mm. Where three strips are required per band, each strip shall be one third of the final pipe diameter but not less than 35 mm. Where 150mm lengths alone are colour painted, the 50mm band shall be centrally placed on the 150 mm length. The direction of flow shall be indicated with a (25 x 100)mm long black arrow at intervals of approximately 4 m and at valves and junctions. Flow lines shall be marked with an F and return lines with an R at each arrow	SUM		
TOTAL SCHEDULE NO:02DOMESTICINTERNAL WATER CARRIED TO SUMMARY				

DUNDONALD

SCHEDULE NO: 03

PLANT ROOM WATER SUPPLIES

## DOMESTIC WATER &amp; DRAINAGE INSTALLATION

## SCHEDULE OF QUANTITIES

**NB** TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN **BLACK** & IT REMAINS THE RESPONSIBILITY OF THE TENDERER TO VERIFY AND CONFORM THAT ALL FORMULAS TO ENSURE VALUES ARE CALCULATED CORRECTLY

## SCHEDULE NO: 03 PLANT ROOM WATER SUPPLIES

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
	For the complete supply, delivery and installation of the cold water supply manifold & piping from tanks to below ground connections within building footprint, pumps & piping to and from tanks, cold water mains connection and piping to tanks and building - all inside the plant room. Incoming civil mains by others.			
<b>1</b>	<b>Domestic Water booster pumps</b>			
1.1	Domestic booster pump - Wilo/Grundfoss, Duty/Standby dual pumps set with auto switch over to deliver 250l/min @60m. VSD control, dry run protection.	1		
1.2	Cables - 4x1.5mm <sup>2</sup> PVC PVC SWA PVC ECC copper cable (FROM ISOLATOR TO PUMPS)	40		
1.3	dia 25mm Galvanised Conduit saddled/fixed to cable tray or building structure.	30		
1.4	dia 25mm Flexible Conduit saddled/fixed to cable tray or building structure.	8		
1.5	dia 50mm Galvanised round box.	6		
<b>2</b>	<b>Galvanized Piping (conform to SANS 62-1 &amp; 62-2 , Steel pipes – Part 1 )</b>			
2.1	dia 50 mm	52		
2.2	dia 80 mm	32		
2.3	dia 100 mm	16		
<b>3</b>	<b>Galvanized Piping (conform to SANS 62-1 &amp; 62-2 , Steel pipes – Part 1 )</b>			
3.1	dia 50mm T-piece	3		
3.2	dia 80mm T-piece	2		
3.3	dia 100mm T-piece	1		
3.4	dia 80mm x 50mm Reducing T-piece	0		
3.5	dia 100mm x 80mm Reducing T-piece	1		
3.6	dia 100mm x 80mm Reducing T-piece	0		
3.7	dia 50mm Elbow or bend	20		
3.8	dia 80mm Elbow or bend	6		
3.9	dia 100mm Elbow or bend	6		
3.10	dia 50mm Hexagon nipple	38		
3.11	dia 80mm Hexagon nipple	16		
3.12	dia 100mm Hexagon nipple	12		
3.13	dia 100mm Hexagon nipple	0		
3.14	dia 50mm Socket union	0		
3.15	dia 80mm Socket union	0		
3.16	dia 50mm Table D 8 hole threaded flange adaptor inc bolts, nuts, flat wa	14		

DUNDONALD

SCHEDULE NO: 03  
PLANT ROOM WATER SUPPLIES

DOMESTIC WATER & DRAINAGE INSTALLATION

SCHEDULE OF QUANTITIES

NB TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK & IT REMAINS THE RESPONSIBILITY OF THE TENDERER TO VERIFY AND CONFORM THAT ALL FORMULAS TO ENSURE VALUES ARE CALCULATED CORRECTLY

SCHEDULE NO: 03 PLANT ROOM WATER SUPPLIES

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
3.17	dia 80mm Table D 8 hole threaded flange adaptor inc bolts, nuts, flat wa	6		
3.18	dia 100mm Table D 8 hole threaded flange adaptor inc bolts, nuts, flat w	4		
3.19	dia 100mm Blank flange Table D 8 hole inc bolts, nuts, flat washers and r	1		
4	Table D Flanged Gate Valves			
4.1	dia 80mm Flanged gate valve	3		
4.2	dia 100mm Flanged gate valve	3		
4.3	dia 50mm Threaded brass gate valve	6		
5	Flanged Y-strainers threaded			
5.1	dia 50mm	2		
5.2	dia 80mm	1		
5.3	dia 100mm	1		
6	Non-return valves threaded			
6.1	dia 50mm	2		
6.2	dia 80mm	2		
6.3	dia 100mm	1		
7	Pressure Reducing Valve threaded			
	Pressure reducing valve with pressure gauge @400kPa, including pipe fitting connections to galvanized piping			
7.1	Ø50mm diameter	1		
8	Water Meter			
	Water meter (Elster Kent) including pipe fitting connections to galvanized piping			
8.1	Ø32mm diameter	1		
8.2	Ø50mm diameter	2		
9	Supply and install (41x41)mm Unistrut channel			
	Supply, deliver and install wall and floor mounted pipe supports complete with galvanised cantilever brackets (41x41)mm Unistrut channel with (45x135)mm welded baseplate, 300mm long, plastic end cap, pipe split clamp brackets 100mm long threaded rod and nuts M10, 2 x anchors and fasteners for fixing into walls and floor.	SUM		
10	Denso Wrapping			
	Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with 10% overlaps. Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including mastic, tape, "Layflat" sheeting, securing of the same, etc. Prices for wrapping of pipes shall include for all work as described to couplings in length.	SUM		
11	Borehole & Water Purification			

DUNDONALD

SCHEDULE NO: 03  
PLANT ROOM WATER SUPPLIES

DOMESTIC WATER & DRAINAGE INSTALLATION

SCHEDULE OF QUANTITIES

NB

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SCHEDULE NO: 03 PLANT ROOM WATER SUPPLIES

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
11.1	JOJO 5,5kl water tank c/w fittings and infill valve control via paddle float level control	1		
11.2	Borehole Pump and Controls PC Allowance	SUM	150,000.00 R	150,000.00
11.3	Water Purification Plant PC Allowance	SUM	500,000.00 R	500,000.00
12	Additional Equipment			
12.1	Pressure gauge c/w isolating valve (800kPa)	4		
13	PAINTING & LABELLING			
13.1	Allow for painting and labelling of piping as specified to SANS 10140. The surfaces shall be cleaned, primed, undercoated and finished in high quality gloss paint. The length of the band shall be same as the final pipe diameter, but not less than 100 mm. Where three strips are required per band, each strip shall be one third of the final pipe diameter but not less than 35 mm. Where 150mm lengths alone are colour painted, the 50mm band shall be centrally placed on the 150 mm length. The direction of flow shall be indicated with a (25 x 100)mm long black arrow at intervals of approximately 4 m and at valves and junctions. Flow lines shall be marked with an F and return lines with an R at each arrow	SUM		
TOTAL SCHEDULE NO:03PLANT ROOMWATER SUPPLIES CARRIED TO SUMMARY				

DUNDONALD

SCHEDULE NO: 04  
HOT WATER GENERATION

DOMESTIC WATER & DRAINAGE INSTALLATION

SCHEDULE OF QUANTITIES

NB TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK & IT REMAINS THE RESPONSIBILITY OF THE TENDERER TO VERIFY AND CONFORM THAT ALL FORMULAS TO ENSURE VALUES ARE CALCULATED CORRECTLY

SCHEDULE NO: 04 HOT WATER GENERATION

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
	For the complete supply, delivery and installation of the hot water generating and circulating system, piping from the hot water vessels to the heat pumps.			
1	Integrated Heat Pump Water Heater			
1.1	Kwikot HP-300-V intergrated heat pump or similar product with 5 year warranty c/w all necesarry safety valves and pipe fittings.	1		
1.2	Kwikot HP-200-V intergrated heat pump or similar product with 5 year warranty c/w all necesarry safety valves and pipe fittings.	1		
1.3	Kwikot HP-250-V intergrated heat pump or similar product with 5 year warranty c/w all necesarry safety valves and pipe fittings.	RATE		
2	Electric Water Heaters			
2.1	Kwikot Superline 400 Dual 100 Litres SANS 151, renewable energy ready Geyser or similar c/w Kwikot installation kit (HP-KIT 400/600) and all necessary fitting, pipes, insulation, safety valve, geyser blancket & SANS compliant geyser tray, & drain piping or similar approved	1		
2.2	Kwikot Superline 400 Dual 200 Litres SANS 151, renewable energy ready Geyser or similar c/w Kwikot installation kit (HP-KIT 400/600) and all necessary fitting, pipes, insulation, safety valve, geyser blancket & SANS compliant geyser tray, & drain piping or similar approved	5		
2.3	Kwikot Superline 400 Dual 250 Litres SANS 151, renewable energy ready Geyser or similar c/w Kwikot installation kit (HP-KIT 400/600) and all necessary fitting, pipes, insulation, safety valve, geyser blancket & SANS compliant geyser tray, & drain piping or similar approved	1		
2.4	Kwikot Prisma Classiqie FPRX-10-UB (Under Bain) point of use water heater or similar approved, c/w Counter surface push through mixer, stop cock and spout connectors.	2		
2.5	Kwikot Prisma Classiqie FPRX-15-UB (Under Bain) point of use water heater or similar approved, c/w Counter surface push through mixer, stop cock and spout connectors.	1		
2.6	Kwikot Prisma Classiqie FPRX-15-OB (Under Bain) point of use water heater or similar approved, c/w Over counter push through mixer, stop cock and spout connectors.	1		
3	Heat Pumps - Water Heaters			

DUNDONALD

SCHEDULE NO: 04  
HOT WATER GENERATION

DOMESTIC WATER & DRAINAGE INSTALLATION

SCHEDULE OF QUANTITIES

NB

TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK & IT REMAINS THE RESPONSIBLTY OF THE TENDERER TO VERIFY AND CONFORM THAT ALL FORMULAS TO ENSURE VALUES ARE CALCULATED CORRECTLY

SCHEDULE NO: 04 HOT WATER GENERATION

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
3.1	For the supply of 5.1kW Alliance ALLWH50R410 air cooled recirculating heat pump type water heater, heating reservoir water to a temperature of between 55 - 60°C, with minimum ambient temperature of -7°C, including controls, automatic defrost cycle, connection to main control panel,with maximum noise level of 55dB(A), fittings, copper pipework, insulation, cladding, bends,tees, circulation pumps (duty & standby) and necessary accessories as specified for interconnecting to standard 200L electric water heater. Include wall mounting brackets (Alliance, Airco or similar)	5		
3.2	For the supply of 7.4kW Alliance ALLWH72R410 air cooled recirculating heat pump type water heater, heating reservoir water to a temperature of between 55 - 60°C, with minimum ambient temperature of -7°C, including controls, automatic defrost cycle, connection to main control panel,with maximum noise level of 55dB(A), fittings, copper pipework, insulation, cladding, bends,tees, circulation pumps (duty & standby) and necessary accessories as specified for interconnecting to standard 200L electric water heater. Including wall mounting brackets (Alliance, Airco or similar)	1		
4	Table D Flanged Gate Valves			
4.1	dia 80mm Flanged gate valve	3		
4.2	dia 100mm Flanged gate valve	3		
4.3	dia 50mm Threaded brass gate valve	6		
5	Flanged Y-strainers threaded			
5.1	dia 50mm	2		
5.2	dia 80mm	1		
5.3	dia 100mm	1		
6	Non-return valves threaded			
6.1	dia 50mm	2		
6.2	dia 80mm	2		
6.3	dia 100mm	1		
7	Pressure Reducing Valve threaded			
7.1	Pressure reducing valve with pressure gauge @400kPa, including pipe fitting connections to galvanized piping Ø50mm diameter	1		
8	Water Meter			
8.1	Water meter (Elster Kent) including pipe fitting connections to galvanized piping Ø32mm diameter	1		
8.2	Ø50mm diameter	2		
9	Supply and install (41x41)mm Unistrut channel			



DUNDONALD

SCHEDULE NO: 04  
HOT WATER GENERATION

DOMESTIC WATER & DRAINAGE INSTALLATION

SCHEDULE OF QUANTITIES

NB TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK & IT REMAINS THE RESPONSIBLTY OF THE TENDERER TO VERIFY AND CONFORM THAT ALL FORMULAS TO ENSURE VALUES ARE CALCULATED CORRECTLY

SCHEDULE NO: 04 HOT WATER GENERATION

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
	Supply, deliver and install wall and floor mounted pipe supports complete with galvanised cantilever brackets (41x41)mm Unistrut channel with (45x135)mm welded baseplate, 300mm long, plastic end cap, pipe split clamp brackets 100mm long threaded rod and nuts M10, 2 x anchors and fasteners for fixing into walls and floor.	SUM		
10	Denso Wrapping			
	Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with 10% overlaps. Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including mastic, tape, "Layflat" sheeting, securing of the same, etc. Prices for wrapping of pipes shall include for all work as described to couplings in length.	SUM		
11	Electrical Supply			
	Power supply with isolator to be provided by others. Allowance is only for connection from isolator to heat pump and water circulators.			
11.1	Cables - 4x1.5mm² PVC PVC SWA PVC ECC copper cable. (FROM ISOLATOR TO HEAT PUMP)	150		
11.2	Cables - 4x1.5mm² PVC PVC SWA PVC ECC copper cable (FROM ISOLATOR TO PUMPS)	80		
11.3	Control cabling	100		
11.4	dia 25mm Galvanised Conduit saddled/fixed to cable tray or building structure.	100		
11.5	dia 25mm Flexible Conduit saddled/fixed to cable tray or building structure.	20		
12	K-Flex Lagging			
	For the complete supply, delivery and installation of K-Flex Lagging insulation around hot water piping.			
12.1	dia 20-22mm	150		
12.2	dia 26-28mm	120		
TOTAL SCHEDULE NO:04HOT WATERGENERATION CARRIED TO SUMMARY				

DUNDONALD

SCHEDULE NO: 05

SANITARY INTERNAL DRAINAGE

## DOMESTIC WATER &amp; DRAINAGE INSTALLATION

## SCHEDULE OF QUANTITIES

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## SCHEDULE NO: 05 SANITARY INTERNAL DRAINAGE

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
	<p><b>High density polyethylene (HDPE) pipes and fittings</b> Pipes shall be type VI and of the class specified with Geberit. Unless specifically otherwise stated, descriptions of pipes and fittings shall be deemed to include electrofusion jointed.</p> <p><b>Densyl petrolatum anti-corrosion tape as manufactured by Denso SA (Pty) Ltd</b> Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with 10% overlaps.</p> <p>Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including mastic, tape, "Layflat" sheeting, securing of the same, etc.</p> <p>Prices for wrapping of pipes shall include for all work as described to couplings in length.</p> <p><b>Laying, backfilling, bedding, etc. of pipes</b> Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled.</p> <p>Where no manufacturer's instruction exist, pipe shall be laid in accordance with Clause 5.1 and 5.2 of each of the following: SANS 1200L: Medium pressure pipe lines SANS 1200LD: Sewers SANS 1200LE: Storm water drainage</p> <p>Pipe trenches, etc. shall be backfilled in accordance with Clause 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB: Earthworks (Pipe Trenches).</p> <p>Pipes shall be bedded in accordance with Clause 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200LB: Bedding (Pipes)</p> <p>Unless otherwise described, bedding of rigid pipes shall be Class B bedding.</p> <p><b>General</b> Descriptions of overflow where measured in number, shall be deemed to include joints to cisterns and splay cut ends.</p> <p>Descriptions of pipes laid and including trenches and of inspection chambers, catchpits, etc.</p>			

DUNDONALD

SCHEDULE NO: 05

SANITARY INTERNAL DRAINAG

## DOMESTIC WATER &amp; DRAINAGE INSTALLATION

## SCHEDULE OF QUANTITIES

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## SCHEDULE NO: 05 SANITARY INTERNAL DRAINAGE

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
	shall be deemed to include excavation, bedding, backfilling, compaction to minimum of 93% Mod AASHTO density and disposal of surplus material on site.			
<b>1</b>	<b>Supply and Install Geberit HDPE,</b>			
	Supply and Install Geberit HDPE, including all necessary butt welds or electrowelds, brackets and supports.			
1.1	Ø32mm	0		
1.2	Ø40mm	0		
1.3	Ø50mm	117		
1.4	Ø63mm (Below Ground/slab sewer drainage depth 1m not exceeding 2m. (Excavations and backfilling taken elsewhere.)	22		
1.5	Ø110mm	116		
1.6	Ø110mm (Below Ground sewer drainage depth 1m not exceeding 2m. (Excavations and backfilling taken elsewhere.)	13		
1.7	Ø110mm (Below Ground To Include Excavations Bedding Blanket and Class B Backfill Compaction 96% MOD AASTHO.) (Surplus Materials Transported To A Laydown On Site As Indicated.)	10		
1.8	Note excvations depth 1m not exceeding 2m.			
1.9	Ø160mm (Below Ground To Include Excavations Bedding Blanket and Class B Backfill Compaction 96% MOD AASTHO.) (Surplus Materials Transported To A Laydown On Site As Indicated.)	0		
1.10	Note excvations depth 1m not exceeding 2m.			
1.11	Ø110mmPvc Sleeve (Building A.)	0		
1.12	Ø160mm U Pvc Sleeve (Building A.)	0		
1.13	Ø200mm U Pvc Sleeve (Building A.)	0		
1.14	Excavation soft rock	2		
1.15	Excavation hard rock	1		
1.16	Maintain dry trench	1		
<b>2</b>	<b>Supply and Install Geberit HDPE Pipe Fittings</b>			
2.1	Ø32 Elbow	0		
2.2	Ø40 Elbow	0		
2.3	Ø32-50mm Elbow	0		
2.4	Ø40-50mm Elbow	0		
2.5	Ø50-75mm Elbow	0		
2.6	Ø50-50mm Elbow	0		
2.7	Ø75-75mm Elbow	0		
2.8	Ø50-50mm Elbow	59		
2.9	Ø75-75mm Elbow	0		
2.10	Ø110-110mm Elbow (To form gully traps including WC Top bend to pan connector.)	2		
2.11	Ø110-110mm Elbow (Include 1 x 56MM threaded connector with weld on screw cap for bend access taken elsewhere.)	23		
2.12	Ø75 Access pipe 90° with round service opening	0		
2.13	Ø110 Access pipe 90° with round service opening	0		
2.14	Ø75 Threaded connector with screw cap for bend access (Stub Stack without one way vent valve.)	0		
2.15	Ø110 Threaded connector with screw cap for bend (Rodding Eyes.)	0		

DUNDONALD

SCHEDULE NO: 05  
SANITARY INTERNAL DRAINAGE

DOMESTIC WATER & DRAINAGE INSTALLATION

SCHEDULE OF QUANTITIES

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SCHEDULE NO: 05 SANITARY INTERNAL DRAINAGE

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
2.16	Ø32-32mm Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	0		
2.17	Ø40-40mm Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	0		
2.18	Ø50-50mm Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	0		
2.19	Ø75-75mm Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	0		
2.20	Ø75-50mm Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	0		
2.21	Ø110 Access pipe 90° with round service opening	2		
2.22	Ø50-50mm Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	148		
2.23	Ø110mm Multi step SSN coupling	2		
2.24	Ø50-50-50mm Branch 45°	14		
2.25	Ø160mm (Below Ground To Include Excavations Bedding Blanket and Class B Backfill Compaction 96% MOD AASTHO.) (Surplus Materials Transported To A Laydown On Site As Indicated.) Note excvations depth 1m not exceeding 2m.	0		
2.26	Ø110mmPvc Sleeve (Building A.)	RATE		
2.27	Ø160mm U Pvc Sleeve (Building A.)	RATE		
2.28	Ø200mm U Pvc Sleeve (Building A.)	RATE		
2.29	Ø110-110mm Elbow (To form gully traps.)	RATE		
2.30	Ø110-110mm Elbow (Include 1 x 56MM threaded connector with weld on screw cap for bend access taken elsewhere.)	RATE		
2.31	Ø75 Access pipe 90° with round service opening	RATE		
2.32	Ø110 Access pipe 90° with round service opening	RATE		
2.33	Ø75 Threaded connector with screw cap for bend access (Stub Stack wi	RATE		
2.34	Ø110 Threaded connector with screw cap for bend (Rodding Eyes.)	RATE		
2.35	Ø32-32mm Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	RATE		
2.36	Ø40-40mm Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	RATE		
2.37	Ø50-50mm Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	RATE		
2.38	Ø75-75mm Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	RATE		
2.39	Ø75-50mm Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	RATE		
2.40	Ø110-110mm Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	RATE		
2.41	Ø50-50-50mm Branch 45°	RATE		
2.42	Ø75-75-50mm Branch 45°	RATE		
2.43	Ø110-110-50mm Branch 45°	RATE		
2.44	Ø160mm (Below Ground To Include Excavations Bedding Blanket and Class B Backfill Compaction 96% MOD AASTHO.) (Surplus Materials Transported To A Laydown On Site As Indicated.) Note excvations depth 1m not exceeding 2m.	5		

DUNDONALD

SCHEDULE NO: 05

SANITARY INTERNAL DRAINAGE

DOMESTIC WATER & DRAINAGE INSTALLATION

SCHEDULE OF QUANTITIES

NB

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SCHEDULE NO: 05 SANITARY INTERNAL DRAINAGE

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
2.45	Ø63-50mm Elbow	3		
2.46	Ø110-110-110mm Branch 45°	6		
2.47	Ø50mm Weld-on cap	24		
2.48	Ø50mm - 50mm Rubber collar connection for traps	10		
2.49	Ø110mm - Toilet pan connector	25		
2.50	Ø50-40mm adapter to Male Thread	20		
2.51	Ø110mm Open Air Vent Cowl.	2		
2.52	Ø110mm Open Air Vent Flashing Galvanized Iron	2		
2.53	Ø50mm Multi step SSN coupling	1		
2.54	Ø110mm HDPE to Cast Iron adaptor	0		
2.55	Ø50-50mm adapter to Male Thread	20		
2.56	Ø63-50mm Reducer	3		
2.57	Ø110-50-110mm Branch 45°	3		
2.58	Ø63-63mm Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	47		
2.59	Ø63-50mm Bend with large leg (Allowance for 2 x 45° bends at base of riser pipes.)	3		
2.60	Ø63-63-50mm Branch 45°	1		
2.61	Ø63-50mm Elbow	3		
3	Supply and Install Geberit Electroweld couplings			
3.1	Ø32 mm Electroweld coupling	6		
3.2	Ø40 mm Electroweld coupling	0		
3.3	Ø50 mm Electroweld coupling	40		
3.4	Ø63 mm Electroweld coupling	5		
3.5	Ø110 mm Electroweld coupling	3		
4	Supply and Install Geberit expansion sockets			
4.1	dia110mm with ring seal	2		
5	BURIED SEWER DRAINAGE			
5.1	(Within Building Foot Print Terminate 1 Meter From Building. Sewer Drain By Civil Contractor.) Extra over for selected earth filling from excavations in filling around pipes in ground to depth of 300mm above pipes, for supplying and carting on imported filling to the approval of the Engineer not exceeding 2000mm deep.	69		
5.2	Extra over for excavation in soft material for pipe trenches, chambers, etc less than 2000mm deep	14		
5.3	Extra over for carting away to dumping on site to be located by the contractor less than 2000mm deep	6		
5.4	Connections to Civil Infrastructure	43		
6	PLUMBING FIXTURES			
6.1	Undercounter Internal Grease Trap.			

DUNDONALD

SCHEDULE NO: 05

SANITARY INTERNAL DRAINAGE

## DOMESTIC WATER &amp; DRAINAGE INSTALLATION

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## SCHEDULE NO: 05 SANITARY INTERNAL DRAINAGE

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
	Supply deliver and install grease trap, of the ALLTRAP ENGINEERING series, AT 700 2L/s or other approved, in order to separate low viscosity mineral liquids (oil and fat) that are not soluble in water. The unit shall be manufactured from high-grade austenitic stainless steel, chemically de-scaled (acid pickled) in order to enhance the natural corrosion resistance. All surfaces shall be polished and have a smooth finish for easy cleaning, minimum dirt collection and high flow rates. The unit shall be equipped with a large solid strainer basket with bottom draining cutouts covered with the fine S/S mesh, easily removable cover and basket for cleaning with the discharge pipe fully accessible once the drain has been dismantled, built-in drain/suction valve. the unit is to be sealed water tight. The flow Rate is 2 l/sec. The unit dimensions are (W)x(H)x(D) = 700mmx400mmx450mm with horizontal Inlet & Outlet as 100mm diameter	1		
6.2	<b>External Oil Separator. Note: (External Chamber By Builder.)</b> Supply, deliver and install grease trap, of the ALLTRAP ENGINEERING series OILSEP 3, c/w all fittings The flow Rate is 3 l/sec. The material must be stainless steel 304. The unit dimensions are (W)x(H)x(D) = 1130mmx1050mmx1000mm with horizontal Inlet & Outlet as 100mm diameter	1		
6.3	HERBISH HBBW 200V Bin Wash Floor Drain 400mm x 400mm vert outlet 110mm	2		
6.4	HERBISH Green drain waterless trap 110mm	6		
6.5	110mm Stainless steel multi step SSN coupling	6		
6.6	110mm # 34 UG Pvc Pipe laid at a depth of 750mm not exceeding 1,5m depth	6		
6.7	110mm Plain bend 45°	2		
6.8	110mm Plain junction 45°	1		
6.9	110mm Stainless steel floor drain 180° vertical outlet & 1 x 50mm inlet including dry trap back flow aresstor	2		
6.10	HERBISH 110mm Stainless steel floor drain 180° vertical outlet nil inlet including dry trap back flow aresstor	2		
7	<b>Testing</b>			
	Provide all necessary apparatus, water, etc for and test the whole of soil drainage system to the satisfaction of the Engineer and Municipality, replace defective work free of charge and leave perfect.	SUM		

DUNDONALD		SCHEDULE NO: 05 SANITARY INTERNAL DRAINAG		
DOMESTIC WATER & DRAINAGE INSTALLATION				
SCHEDULE OF QUANTITIES				
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SCHEDULE NO: 05 SANITARY INTERNAL DRAINAGE				
ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
TOTAL SCHEDULE NO:05SANITARY INTERNAL DRAINAGE CARRIED TO SUMMARY				

DUNDONALD

SCHEDULE NO: 06  
SANITARYWARE FITTINGS

DOMESTIC WATER & DRAINAGE INSTALLATION

SCHEDULE OF QUANTITIES

NB

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SCHEDULE NO: 06 SANITARYWARE FITTINGS

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
	Supply, deliver, install the following sanitary fittings as per architectural sanitaryware schedule, complete with mixers, wastes and all necessary fittings, including clean and wash to satisfactory condition <b>BATHROOM SANITARYWARE - GENERAL AREAS. APPLICATION AREAS: A18, A17, A8, A9, A57 &amp; A56.</b>			
1	<b>WATER CLOSETS BLOCK A.</b>			
1.1	<b>ITEM S1 TOILET.</b> <b>SPECIFICATIONS:</b> White Viterous China Cobra Welcome Close Coupled toilet suite with top dual flush 3L & 6.L Box Rim. Including cistern & fittings, pan, seat & cover & pan connector. Cistern left side inlet only as per European standard. <b>ACCESSORIES:</b> Toilet seat & dual flush button as supplied with toilet			
1.1.1	Supply	15		
1.1.2	Install	15		
	<b>BATHROOM SANITARYWARE - GENERAL AREAS. APPLICATION AREAS: A19, A1 &amp; A64.</b>			
1.2	<b>ITEM S2: WC PARAPLEGIC TOILET.</b> <b>SPECIFICATIONS:</b> White Viterous China Lecico Atlas Paraplegic Close - Coupled toilet suite (Side Flush, Raised Height) with Stainless Steel grab Rails (Cistern Rail & Dog- leg Rail) Product Code: PARSETCCBORAIIBE. <b>ACCESSORIES:</b> Supply with MDF Toilet Seat (CHISEASTDOMDFUC)			
1.2.1	Supply	3		
1.2.2	Install	3		
	<b>BATHROOM SANITARYWARE - GENERAL AREAS. APPLICATION AREAS: A18, A17, A57 &amp; A56. BLOCK A.</b> <b>ITEM S3: SEMI RECESSED WASH BASIN.</b> <b>SPECIFICATIONS:</b> 510x500x160mm Vaal Azalea Semi Recessed Viterous China Basin with one taphole & intergrated overflow <b>ACCESSORIES:</b> Click type Basin Waste, slotted, with 62mm Ø flange & integral plug			
1.3.1	Supply	6		
1.3.2	Install	6		
	<b>BATHROOM SANITARYWARE - GENERAL AREAS. APPLICATION AREAS: A19, A1, A64, A8, A9, C4, D1 &amp; E4. BLOCK A.</b> <b>ITEM S4: WALL- HUNG BASIN.</b> <b>SPECIFICATIONS:</b> Cobra Shelter 495x430x190mm Wall Hung Viterous China Basin, with 1 x pre-punched tap hole in the centre of the basin. Overflow & expansion bolts included <b>ACCESSORIES:</b> Cobra Shelter Pedestal Semi 300. 270mm wide x 308mm high. Wall fixing set included.			
1.4				



DUNDONALD

SCHEDULE NO: 06  
SANITARYWARE FITTINGS

## DOMESTIC WATER &amp; DRAINAGE INSTALLATION

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## SCHEDULE NO: 06 SANITARYWARE FITTINGS

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
1.4.1	Click type Basin Waste, slotted, with 62mm Ø flange & integral plug, with 32 x 40 Chrome Bottle Trap	10		
1.4.2	Supply	10		
	Install			
	<b>BATHROOM SANITARYWARE - GENERAL AREAS. APPLICATION</b>			
	<b>AREAS: A23.</b>			
	<b>BLOCK A.</b>			
1.5	<b>ITEM S5: SMALL COUNTER TOP BASIN.</b>			
	<b>SPECIFICATIONS:</b> 450 x 350mm Vaal Weavewr Basin Midi rectangular countertop basin with 1 taphole & integrated overflow			
	<b>ACCESSORIES:</b> Click type Basin Waste, with 32 x 40 Chrome Bottle Trap			
1.5.1	Supply	1		
1.5.2	Install	1		
	<b>BATHROOM SANITARYWARE - GENERAL AREAS. APPLICATION</b>			
	<b>AREAS: A1, C4 &amp; D1.</b>			
	<b>BLOCK A.</b>			
1.6	<b>ITEM S6: BASIN MIXER.</b>			
	<b>SPECIFICATIONS:</b> Cobra Nile Standard Basin Mixer: SKU: FBN1D1N1-0GT0426			
1.6.1	Supply	5		
1.6.2	Install	5		
	<b>BATHROOM SANITARYWARE - GENERAL AREAS. APPLICATION</b>			
	<b>AREAS: A1, C4 &amp; D1.</b>			
	<b>BLOCK A.</b>			
1.7	<b>ITEM S7: METERING BASIN MIXER. (COLD Water Only.)</b>			
	<b>SPECIFICATIONS:</b> Cobra Pillar Metering Tap Non Hold Open, self closing, 1/2" BSP male iron connection end			
1.7.1	Supply	10		
1.7.2	Install	10		
	<b>BATHROOM SANITARYWARE - GENERAL AREAS. APPLICATION</b>			
	<b>AREAS: A19. &amp; A64.</b>			
	<b>BLOCK A.</b>			
1.8	<b>ITEM S8: PARAPLEGIC BASIN MIXER. (COLD Water Only.)</b>			
	<b>SPECIFICATIONS:</b> Cobra Medical Pillar Tap With Blue Indice. SKU: FEAPILEA-4FT01 with 32 x 40 Chrome Bottle Trap			
1.8.1	Supply	2		
1.8.2	Install	2		
	<b>BATHROOM SANITARYWARE - GENERAL AREAS. APPLICATION</b>			
	<b>AREAS: A8, A9, A1, D1 &amp; E4.</b>			
	<b>BLOCK A.</b>			
	<b>ITEM S9: URINAL.</b>			

DUNDONALD

SCHEDULE NO: 06  
SANITARYWARE FITTINGS

DOMESTIC WATER & DRAINAGE INSTALLATION

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SCHEDULE NO: 06 SANITARYWARE FITTINGS

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
1.9	<b>SPECIFICATIONS:</b> Lecico BS 50 Viterous China Urinal supplied with Flushmaster- Type top entry flushing mewchanism & spreader, such as Walcro 330UR, or similar <b>ACCESSORIES:</b> Chrome Waste Outlet, 40x40mm Chrome Bottle Trap & wall fixings			
1.9.1	Supply	4		
1.9.2	Install	4		
1.10	<b>BATHROOM SANITARYWARE - GENERAL AREAS. APPLICATION AREAS: A8,A9,A1,D1 &amp; E4. BLOCK A.</b>  <b>ITEM S10: SHOWERHEAD.</b> <b>SPECIFICATIONS:</b> Cobra Prestex single-function shower head, chrome <b>ACCESSORIES:</b> Cobra Shower Arm wirth wall flange, chrome plated. 110mm Throw			
1.10.1	Supply	5		
1.10.2	Install	5		
1.11	<b>ITEM S11: SHOWERWASTE.</b> <b>SPECIFICATIONS:</b> Lecico BS 50 Viterous China Urinal supplied with Flushmaster- Type top entry flushing mewchanism & spreader, such as Walcro 330UR, or similar <b>ACCESSORIES:</b> Chrome Waste Outlet, 40x40mm Chrome Bottle Trap & wall fixings			
1.11.1	Supply	4		
1.11.2	Install	4		
1.12	<b>BATHROOM SANITARYWARE - GENERAL AREAS. APPLICATION AREAS: A8,A9,A1 &amp; D1. BLOCK A.</b>  <b>ITEM S12: SHOWERMIXER.</b> <b>SPECIFICATIONS:</b> Cobra Nile Concealed Shower Mixer SKU: FSWM1CNI0GT0426 <b>ACCESSORIES:</b> Cobra Shower Arm wirth wall flange, chrome plated. 110mm Throw			
1.12.1	Supply	6		
1.12.2	Install	6		
1.13	<b>BATHROOM SANITARYWARE - GENERAL AREAS. APPLICATION AREAS: C4. LIVING AREAS.</b>  <b>ITEM S13: BATH.</b> <b>SPECIFICATIONS:</b> 1700 x 700mm Pressed Steel Built-In Bath, Including Handles. <b>ACCESSORIES:</b> Domed Pop Up Waste. 32mm Dia x Approximate,n1.9m long stainless steel shower curtain rod, with end brackets bolted to wall, with 40 x 40 Trap			
1.13.1	Supply	2		
1.13.2	Install	2		

DUNDONALD

SCHEDULE NO: 06  
SANITARYWARE FITTINGS

DOMESTIC WATER & DRAINAGE INSTALLATION

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SCHEDULE NO: 06 SANITARYWARE FITTINGS

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
	<div>BATHROOM SANITARYWARE - GENERAL AREAS. APPLICATION AREAS: C4. LIVING AREAS.</div> <div>ITEM S14: BATH MIXER.</div> <div>SPECIFICATIONS: Cobra Nile Wall Mounted Diverter Bath Mixer SKU: FBHEW2NI-OGTO426</div>			
1.14				
1.14.1	Supply	2		
1.14.2	Install	2		
	<div>BATHROOM SANITARYWARE - GENERAL AREAS. APPLICATION AREAS: C4. LIVING AREAS.</div> <div>ITEM S15: BATH SHOWER SET.</div> <div>SPECIFICATIONS: Grohe Vitalio Start 100 hand shower (27 946) Vitalio Universal wall shower holder, non-adjustable (27 958) shower hose Vitalio Flex Trend 1750mm 1.2 x 1/2 (28 742) GROHE Ecology 5.7 l/min flow limiter GROHE Dream Spray pattern GROHE Starlight chrome finish Speed Clean anti-lime system innerWater Guide for a longer life Shock Proof silicone ring prevents damages caused by shower falling suitable for instantaneous heater min. recommended pressure 1.0 Bar. Adjustable (27 958) shower hose Vitalio Flex Trend 1750mm 1/2 x 1/2 (28 742) GROHE Ecology 7.7 l/min flow limiter GROHE Dream Spray perfect spray pattern GROHE Starlight chrome finish Speed Clean anti-lime system inner. Water Guide for a longer life Shock Proof silicone ring prevents damages caused by shower falling suitable for instantaneous heater min recommended pressure 1.0bar</div>			
1.15				
1.15.1	Supply	2		
1.15.2	Install	2		
	<div>KITCHEN FITTINGS - GENERAL AREAS. APPLICATION AREAS: C5.</div> <div>SINKS BLOCK C.</div> <div>ITEM K1: 2-BOWL SINK.</div> <div>SPECIFICATIONS: Franke Quinline QLX 621-120, or similar approved, brushed stainless steel 1200 x 500mm end type double-bowl sink with drainer, inset- type, with 90mm waste. 25 Year Warranty Guarantee.</div> <div>ACCESSORIES: 90mm Basket strainer kitchen sink waste fittings, 2 x per sink, with 40mm Trap</div>			
1				
1.1				
1.1.1	Supply	2		
1.1.2	Install	2		
	<div>KITCHEN FITTINGS - GENERAL AREAS. APPLICATION AREAS: A6, A59, A47 BLOCK D: D1.OUT BDG E4.</div> <div>SINKS BLOCK A, D &amp; OUTBUILDINGS.</div>			
1				

DUNDONALD

SCHEDULE NO: 06  
SANITARYWARE FITTINGS

DOMESTIC WATER & DRAINAGE INSTALLATION

SCHEDULE OF QUANTITIES

NB TENDERERS MUST COMPLETE THE SCHEDULE OF QUANTITIES IN BLACK & IT REMAINS THE RESPONSIBILITY OF THE TENDERER TO VERIFY AND CONFORM THAT ALL FORMULAS TO ENSURE VALUES ARE CALCULATED CORRECTLY

SCHEDULE NO: 06 SANITARYWARE FITTINGS

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
1.2	ITEM K2: 1-BOWL SINK. SPECIFICATIONS: Franke Quinline QLX 611, 900 x 500mm or similar approved, brushed stainless steel end typesingle-bowl sink with drainer, inset- type, with 90mm waste. 25 Year Wrranty Gaurantee.			
	ACCESSORIES: 90mm Basket strainer kitchen sink waste fittings, 1 x per sink,with 40mm Trap			
1.2.1	Supply	6		
1.2.2	Install	6		
	KITCHEN FITTINGS - APPLICATION AREAS: BLOCK A. A5.			
1	SINKS BLOCK A.			
1.3	ITEM K3: 1-DRIP SINK. SPECIFICATIONS: 600 x 500 x 258mm stainless stee (1,2mm thick, typeb304-18/8) Drip Sink, with hinged grid, 40mm dia waste drain & 150mm splash, back.with 40mm Trap			
	ACCESSORIES: See Item K8 for tap specification. Taps to be mounted to allow for swing of grid. 40mm Unslotted waste with plug & chain.			
1.3.1	Supply	1		
1.3.2	Install	1		
	KITCHEN FITTINGS - APPLICATION AREAS: BLOCK A. A5.			
1	SINKS BLOCK A.			
1.4	ITEM K4: CLEANERS SINK. SPECIFICATIONS: 1500 x 650mm FRANKE model "S2", or similar approved, Catering Sink, double centre bowl, Manufactured from grade 304 stainless steel 1,2mm thick with a 150mm high splash back to the rear & 50 x 10mm turndown with a beaded edge on the remaining sides. Sink with pressed 500 x 500 x 230mm deep bowl with a 40mm waste outlet. The underside sprayed with a vermin bitumastic sound deadening & supported with a 30 x 30 x 3mm framework & galvanised mild steel backing sheet. Unit fixed 900mm high from the top of front apron to the finished floor level with anchor bolts (Bolts specified el;sewhere) & fixing legs.			
	ACCESSORIES: 40mm Unslotted waste with plug & chain.2 Per Sink.with 40mm Combination Trap			
1.4.1	Supply	1		
1.4.2	Install	1		
	KITCHEN FITTINGS - APPLICATION AREAS: BLOCK A. A59, A47, A6BLOCK C, C5, BLOCK D, D1 & E2. OUTBUILDINGS..			

DUNDONALD

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DOMESTIC WATER & DRAINAGE INSTALLATION

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SCHEDULE NO: 06 SANITARYWARE FITTINGS

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
1.5.	<div>ITEM K7: SINK TAP.</div> <div>SPECIFICATIONS: Stainless Steel Sink Mixer Deck Type with Swivel Spout, Franke Saturn Arc or similar approved</div>			
1.5.1	Supply	8		
1.5.2	Install	8		
	KITCHEN FITTINGS - APPLICATION AREAS: BLOCK A. A5.			
1.6.	<div>ITEM K8: WALL - TYPE SINK MIXER.</div> <div>SPECIFICATIONS: Wall Type Sink Mixer Deck with Swivel Spout Chrome, Cobra Star heavy pattern, or similar approved including extenders. Installed 50mm above cleaners sink splashback, centred above bowls,</div>			
1.6.1	Supply	1		
1.6.2	Install	1		
	KITCHEN FITTINGS - APPLICATION AREAS: BLOCK A. A36 BLOCK B. CELL BLOCK.			
1.7.	<div>ITEM K8: WALL - DRIP SINK TAPS.</div> <div>SPECIFICATIONS: Cobra Star Original 15mm Chrome Plated Extended Length Bib Tap Including Hot &amp; Cold indices &amp; Flange. The Original Star -Shaped Design. Two Taps per sink, one with Red &amp; one with blue indice 200mm apart, centred above bowl &amp; 75mm above sink splashback.</div>			
1.7.1	Supply	2		
1.7.2	Install	2		
	KITCHEN FITTINGS - APPLICATION AREAS: BLOCK A. A5.			
1.8.	<div>ITEM K9: WALL - TYPE SINK MIXER.</div> <div>SPECIFICATIONS: Wall Type Sink Mixer Deck with Swivel Spout Chrome, Cobra Star heavy pattern, or similar approved including extenders. Installed 50mm above cleaners sink splashback, centred above bowls,</div>			
1.8.1	Supply	1		
1.8.2	Install	1		
	KITCHEN FITTINGS - APPLICATION AREAS: BLOCK A. A59,A47 &A6.			
1.9	<div>ITEM K10: HYDROBOIL 10L.</div> <div>SPECIFICATIONS: 355 x 193 x 522mm ZIP Hydro Boil, or similar approved , Stainless Steel 10-Litre instant boiling water unit, with a two way tap, complete with twin-chamber technology. Unit to be installed in accordance with manufacturers installation instruction manual. Thermal thermal cut out to protect against over- boiling &amp; complications occurred during water supply interruption, with 40mm Trap</div>			
1.9.1	Supply	3		
1.9.2	Install	3		

DUNDONALD

**SCHEDULE NO: 06  
SANITARYWARE FITTINGS**
**DOMESTIC WATER & DRAINAGE INSTALLATION**
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**SCHEDULE NO: 06 SANITARYWARE FITTINGS**

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
	<b><u>BATHROOM SANITARYWARE- CELL BLOCK. APPLICATION</u></b> <b><u>AREAS: B3,B5,B6,B12 &amp; B11.</u></b> <b><u>BLOCK B.</u></b>			
1.10	<b><u>ITEM P1: TOILET.</u></b> <b><u>SPECIFICATION: TOILET FITTINGS: OVE Model OSPA1, or FRANKE Model 356185, or similar approved vandal - proof WC pan manufactured from 1.2mm grade 304 (18/10) stainless steel, fully welded &amp; polished to a No 4 satin finish, L=485mm, W-390mm, H= 435mm with circular flushing rim &amp; bowl. With Full Flow P-Trap, 38mm Ø supply Flush pipe: both of sufficient length to protrude through wall. (All connections to be outside). Required pipe lengths</u></b>  <b><u>to be determined on site. Integral 35mm wide fixing flange to bottom sides &amp; top of WC, 7 times bolted to wall &amp; floor, complete with expanded metal mesh for mechanical bond for plaster/ screed to the pan flange. Pan to be filled with concrete.</u></b>			
1.10.1	Supply	5		
1.10.2	Install	5		
	<b><u>BATHROOM SANITARYWARE - CELL BLOCK B. APPLICATION</u></b> <b><u>AREAS: B3,B5,B6,B12 &amp; B11..</u></b> <b><u>CELL BLOCK B.</u></b>			
1.11	<b><u>ITEM P2: FLUSHING MECHANISM.</u></b> <b><u>SPECIFICATIONS: FLUSHING MECHANISM: WALCRO No W-104C-SS or similar &amp; approved brass back entry non hold open Toilet Flush Valve with integral vacuum breaker &amp; modified push-rod connector, complete with 38mm flushpipe, bend &amp; pan connector. Prison type brass finished ECONOFLUSH as type KF3.404 is an approved alternative including elbow, straight pipe &amp; pan connector.</u></b>			
1.11.1	Supply	5		
1.11.2	Install	5		
	<b><u>BATHROOM SANITARYWARE - CELL BLOCK . APPLICATION</u></b> <b><u>AREAS: B3,B5,B6,B12 &amp; B13..</u></b> <b><u>CELL BLOCK B.</u></b>			
1.12	<b><u>ITEM P3: DRINKING FOUNTAIN.</u></b>			

DUNDONALD

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SANITARYWARE FITTINGS**
**DOMESTIC WATER & DRAINAGE INSTALLATION**
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**SCHEDULE NO: 06 SANITARYWARE FITTINGS**

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
1.12.1	<b>SPECIFICATIONS:</b> DRINKING FOUNTAIN/ WASH BASIN: OVE Model OSB1A/125 or similar & approved vandal proof hand wash basin manufactured from 102 mm, Grade 304 AISI (18/10) stainless steel: fully welded & polished to No 4 Satin Finish, size 340 x 350 x 125mm, including a fitted 15 mm timed push-button tap mounted at top mounted at top with 38mm CP brass waste outlet, built flush into brick wall & secured with steel lugs, with 32mm Trap	5		
1.12.2	Supply	5		
	Install			
1.12	<b>BATHROOM SANITARYWARE - CELL BLOCK . APPLICATION AREAS: B3 B5 &amp; B6. CELL BLOCK B.</b>			
	<b>ITEM P4: SHOWER FITTINGS.</b>			
	<b>SPECIFICATIONS:</b> Walcro metering Shower rose W-CIRS-V2 with 150NHS shower valve with extension & all accessories, or similar & approved Mounted min 2400mm above FFL. Connect 38mm Ø stainless steel or brass outlet to waste water system with the trap outside the Cell Block.			
1.12.1	Supply	3		
1.12.2	Install	3		
13	<b>KITCHEN FITTINGS - APPLICATION AREAS: BLOCK B. B2 CELL BLOCK KITCHEN.</b>			
	<b>ITEM P10: HYDROBOIL 10L.</b>			
	<b>SPECIFICATIONS:</b> 355 x 193 x 522mm ZIP Hydro Boil, or similar approved , Stainless Steel 10-Litre instant boiling water unit, with a two way tap, complete with twin-chamber technology. Unit to be installed in accordance with manufacturers installation instruction manual. Thermal thermal cut out to protect against over- boiling & complications occurred during water supply interruption, with 40mm Trap			
1.13.1	Supply	1		
1.13.2	Install	1		
14	<b>KITCHEN FITTINGS - APPLICATION AREAS: BLOCK A. A5. SINKS BLOCK A.</b>			
	<b>ITEM P15: POT SINK.</b>			
	<b>SPECIFICATIONS:</b> FRANKE S1P1, or similar approved LEFT HAND DBL BOWL Preparation/ Pot Combination, Sink 650 x 1850mm, grade 304 stainless steel 1,2mm thick with a 150mm high integral splash back to the back & 50 x 10mm turndown with a beaded edge on remaing sides. Sink with a pressed catering bowl			

DUNDONALD

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DOMESTIC WATER & DRAINAGE INSTALLATION

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SCHEDULE NO: 06 SANITARYWARE FITTINGS

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
	500 x 500 x 230mm deep & a pressed pot sink bowl 600 x 600 x 300mm deep both with 40mm waste outlets. underside sprayed with vermin proof bitumastic sound deadening & GMS backing sheet. <b>ACCESSORIES:</b> Unit fixed 900mm high from the top of the front apron to the finished floor level with stainless steel square legs (2 pairs) (code 352656) 40 x 40mm x 1,2mm thick square tubing, Waste outlet supplied with sink or similar approved, 2 x 40mm waste with plug & chain. Chrome plated bottle trap with 75mm deep seal & adjustable telescopic pipe 1. 1/2" female inlet & 50mm dia outlet, similar approved, like Cobra 365/50 for  50mm pipe. Taps: Fit 4 x (2 x per sink bowl 200mm apart) each pair to be centred above each bowl as per item P15.			
1.14.1	Supply	1		
1.14.2	Install	1		
	<b>KITCHEN FITTINGS - APPLICATION AREAS: BLOCK B-2 CELL BLOCK KITCHEN.</b>  <b>ITEM P16: WALL - POT SINK TAPS.</b> <b>SPECIFICATIONS:</b> Cobra Star Original 15mm Chrome Plated Extended Length Bib Tap Including Hot & Cold indices & Flange. The Original Star -Shaped Design. Two Taps per sink, one with Red & one with blue indice 200mm apart, centred above bowl & 75mm above sink splashback. <b>ACCESSORIES:</b> Extenders to be fitted if required.			
1.15.1	Supply	4		
1.15.2	Install	4		
	<b>YARD FITTINGS - APPLICATION AREAS: BLOCK B7 &amp; BLOCK D CELL BLOCK KITCHEN YARD.</b>  <b>ITEM G1: DOUBLE WASHTROUGH</b> <b>SPECIFICATIONS:</b> 1065mm wide x 320mm high 600mm deep double bowl pre-cast concrete wash trough cast from min, 30MPA concrete. Installed on 2 x standard concrete leg supports. Top of trough to be 900mm AFFFL. <b>ACCESSORIES:</b> 2 x waste 40mm or sized to suit trough, with plug & chain. Taps - see Item G4 below. with 2 x 40mm Traps			
1.16.1	Supply	4		
1.16.2	Install	4		
	<b>YARD FITTINGS - APPLICATION AREAS: BLOCK B7 &amp; BLOCK D CELL BLOCK KITCHEN YARD.</b>  <b>ITEM G2: SINGLE WASHTROUGH</b> <b>SPECIFICATIONS:</b> 1065mm wide x 320mm high 600mm deep single bowl pre-cast concrete wash trough cast			
17.				



DUNDONALD

SCHEDULE NO: 06  
SANITARYWARE FITTINGS

DOMESTIC WATER & DRAINAGE INSTALLATION

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SCHEDULE NO: 06 SANITARYWARE FITTINGS

ITEM NO	DESCRIPTION	QTY	RATE	AMOUNT
	from min, 30MPA concrete. Installed on 2 x standard concrete leg supports.Top of trough to be 900mm AFFFL. <b>ACCESSORIES: 1 x waste 40mm or sized to suit trough, with plug &amp; chain. Taps - see Item G3 &amp; G4.. with 40mm Trap</b>			
1.17.1	Supply	3		
1.17.2	Install	3		
	<b><u>KITCHEN FITTINGS - APPLICATION AREAS: BLOCK B-10 CELL</u></b> <b><u>BLOCK KITCHEN YARD WASH TROUGH.</u></b> <b><u>BLOCK B, D WASH BAY.</u></b>			
15.	<b><u>ITEM G3: WASH TROUGH TAPS.</u></b> <b>SPECIFICATION:</b> Bib tap, Heavy Pattern low resistance type, threaded. Including 3/4" hose union, <b>wingnut</b> wingnut & lining for 1/2" hose. Two taps (Hot & Cold) per bowl centred & installed 200mm apart, 150mm above trough. <b>NOTE:</b> One tap per bowl at Bachelorsw units (cold vwater only) Two taps per bowl at Cell Block Kitchen Yard Trough's, where hot & cold water is provided, where one of the cold- waqter taps to be as per item G4, Trough's, where hot & cold water is provided, where one of the cold- waqter taps to be as per item G4, <b>ACCESSORIES:</b> Extenders to be fitted if required.			
1.15.1	Supply	8		
1.15.2	Install	8		
TOTAL SCHEDULE NO:06SANITARYWARE FITTINGS CARRIED TO SUMMARY				