

**CONTRACT 494/15 - PANEL OF REPAIRS AND MAINTENANCE
BILL NO.20**

EAC
DATE: FEBRUARY 2014

Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
	<p><u>SCHEDULE No. 20</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p><u>Rates</u></p> <p>Rates shall include travel to and from site within a 30km. radius of the City Centre, Materials, Labour, Tools, Equipment, Contractors Overheads and Profit except where otherwise stated.</p> <p><u>Description</u></p> <p>Where "Replace" or "Replacing" appears in this document it shall be deemed to include taking up/out and carting away from site</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>uPVC pipes and fittings</u></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed</p> <p><u>uPVC pressure pipes and fittings</u></p> <p>Pipes for water supply shall be of the class stated</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p> <p>Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints</p> <p><u>Copper pipes</u></p> <p>Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard) class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fitting to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground</p> <p><u>Reducing fittings</u></p>				

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	<p>Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained.</p> <p>In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained</p> <p><u>Wire gratings</u></p> <p>Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings</p> <p><u>Septic tanks</u></p> <p>Description of septic tanks shall be deemed to include excavations, bedding and jointing, concrete base slab, jointing to drains and backfilling, compaction, etc all in accordance with manufacturer's instructions</p> <p><u>Exposed concrete surfaces</u></p> <p>Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster</p> <p><u>Excavations</u></p> <p>No claim for rock excavation will be entertained unless the contractor has timorously notified the Principal Agent thereof prior to backfilling</p> <p>"Soft rock" and "hard rock" shall be as defined in "Earthworks"</p> <p><u>Laying, backfilling, bedding, etc of pipes</u></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions</p> <p>Where no manufactures' instructions exist pipes shall be laid in accordance with clause 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage</p> <p>Pipe trenches etc shall be backfilled in accordance with clause 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes).</p> <p>Unless otherwise described bedding of rigid pipes shall be class B bedding</p> <p><u>Flush pans</u></p>				

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	Flush pans shall have straight or side outlets and "P" or "S" traps as necessary				
	<u>Stainless steel basins, sinks, wash troughs, urinals, etc</u>				
	Units shall have standard aprons an all exposed edges and tiling keys against walls where applicable				
	<u>Waste unions</u>				
	Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings				
	<u>CLEAR SEWER AND WASTE WATER BLOCKAGE</u>				
	<u>Locate blockage, clear sewer pipes by means of rodding distances between access chambers/junctions (referred to as "Pipe Length") not exceeding 10m and removing all obstructions, etc. leaving pipes open and free flowing including disposal of all materials causing blockage, excavations and backfilling where required.</u>				
20.1	<u>Pipe length not exceeding 10m Length</u>				
20.1.1	110mm diameter pipe not exceeding 10m	item	1	250.43	250.43
20.1.2	160mm diameter pipe not exceeding 10m	item	1	259.33	259.33
20.2	<u>Pipe length up to 20 m</u>				
20.2.1	110mm diameter pipe, exceeding 10m but not exceeding 20m	item	1	264.89	264.89
20.2.2	160mm diameter pipe, exceeding 10m but not exceeding 20m	item	1	272.69	272.69
	<u>Locate blockage, clear waste pipes by means of rodding distances between access eyes/open end (referred to as "Pipe Length") not exceeding 2m and removing all obstructions, etc. leaving pipes open and free flowing including disposal of all materials causing blockage.</u>				
20.3	<u>Pipe length not exceeding 10m Length</u>				
20.3.1	Not exceeding 40mm diameter pipe, not exceeding 10m	item	1	395.12	395.12
20.3.2	Exceeding 40mm diameter pipe and not exceeding 75mm diameter pipe, not exceeding 10m	item	1	456.33	456.33
20.4	<u>Pipe length exceeding 5m not exceeding 10m</u>				
20.4.1	Not exceeding 40mm diameter pipe, exceeding 10m but not exceeding 20m	item	1	395.12	395.12
20.4.2	Exceeding 40mm diameter pipe and not exceeding 75mm diameter pipe, exceeding 10m but not exceeding 20m	item	1	456.33	456.33
20.5	<u>Sundries</u>				

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.5.1	Unblock 'P', 'S' or bottle trap not exceeding 40mm diameter	no	1	94.61	94.61
20.5.2	Unblock Gulley, WC pan, Trough urinal trap, etc. not exceeding 110mm diameter	no	1	116.87	116.87
	<u>CLEAR STORMWATER BLOCKAGE</u>			-	-
	<u>Clean catchpit, with internal dimensions not exceeding 900 x 500mm or 750mm diameter, by removing all silt, etc. leaving all internal surfaces and sump free from any dirt or debris including disposal of all removed material.</u>			-	-
20.6	<u>Catchpits not exceeding 2m deep</u>			-	-
20.6.1	Not exceeding 1,0m deep	item	1	367.29	367.29
20.6.2	Exceeding 1,0m and not exceeding 2m deep	item	1	439.64	439.64
20.7	<u>Catchpits exceeding 2m deep</u>			-	-
20.7.1	Exceeding 2,0m and not exceeding 3,0m deep	item	1	483.60	483.60
20.7.2	Exceeding 3,0m and not exceeding 4,0m deep	item	1	531.96	531.96
20.8	<u>Clean catchpit, with internal dimensions not exceeding 1050 x 750mm or 1000mm diameter, by removing all silt, etc. leaving all internal surfaces and sump free from any dirt or debris including disposal of all removed material.</u>			-	-
20.8.1	Not exceeding 1,0m deep	item	1	367.29	367.29
20.8.2	Exceeding 1,0m and not exceeding 2,0m deep	item	1	439.64	439.64
20.8.3	Exceeding 2,0m and not exceeding 3,0m deep	item	1	506.42	506.42
20.8.4	Exceeding 3,0m and not exceeding 4,0m deep	item	1	607.70	607.70
20.8.5	Exceeding 4,0m and not exceeding 5,0m deep	item	1	729.24	729.24
20.9	<u>Clean and pump sewer manholes, with internal dimensions not exceeding 1050 x 750mm or 1000mm diameter, by removing all silt, etc. leaving all internal surfaces and sump free from any dirt or debris including disposal of all removed material.</u>			-	-
20.9.1	Not exceeding 1,0m deep	item	1	459.11	459.11
20.9.2	Exceeding 1,0m and not exceeding 2,0m deep	item	1	549.54	549.54
20.9.3	Exceeding 2,0m and not exceeding 3,0m deep	item	1	633.02	633.02
20.9.4	Exceeding 3,0m and not exceeding 4,0m deep	item	1	759.62	759.62
20.9.5	Exceeding 4,0m and not exceeding 5,0m deep	item	1	911.55	911.55

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
	<u>Clean pipes by means of rodding distances between access chambers/catchpits (referred to as "Pipe Length") not exceeding 30m and removing all silt, etc. leaving all internal surfaces free from any dirt or debris including disposal of all removed material.</u>			-	
20.10.	<u>Pipe length not exceeding 15m length</u>			-	
20.10.1	Not exceeding 225mm nominal diameter	item	1	367.29	367.29
20.10.2	Exceeding 225mm and not exceeding 300mm nominal diameter	item	1	439.64	439.64
20.10.3	Exceeding 300mm and not exceeding 450mm nominal diameter	item	1	506.42	506.42
20.11	<u>Pipe length exceeding 30m Length</u>			-	
20.11.1	Not exceeding 225mm nominal diameter	Item	1	550.94	550.94
20.11.2	Exceeding 225mm and not exceeding 300mm nominal diameter	Item	1	659.45	659.45
20.11.3	Exceeding 300mm and not exceeding 450mm nominal diameter	Item	1	759.62	759.62
	<u>Clean channel drains by removing all silt, etc. leaving all surfaces free from any dirt or debris including lifting and rebedding covers where required and disposal of all removed material.</u>			-	
20.12	<u>Channels not exceeding 500mm deep</u>			-	
20.12.1	Width not exceeding 250mm	m	1	38.58	38.58
20.12.2	Width exceeding 250mm and not exceeding 500mm	m	1	45.01	45.01
20.12.3	Width exceeding 500mm and not exceeding 750mm	m	1	54.01	54.01
20.12.4	Width exceeding 750mm and not exceeding 1000mm	m	1	67.51	67.51
	<u>CLEAR GUTTER BLOCKAGE / DEBRIS</u>			-	
	<u>Clean out gutters by removing all silt, etc. including rodding where necessary, leaving all surfaces free from any dirt or debris including lifting and refixing grille covers where required and disposal of all removed material.</u>			-	
20.13	<u>Gutters not exceeding 3m above base level</u>			-	
20.13.1	Eaves or box gutter not exceeding 200mm wide	m	1	12.24	12.24
20.13.2	Eaves or box gutter exceeding 200mm wide and not exceeding 500mm wide	m	1	15.03	15.03
20.14	<u>Gutters exceeding 3m above base level not exceeding 6m above base level</u>			-	
20.14.1	Eaves or box gutter not exceeding 200mm wide	m	1	17.53	17.53

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.14.2	Eaves or box gutter exceeding 200mm wide and not exceeding 500mm wide	m	1	19.14	19.14
20.15	<u>Sundries</u>			-	-
20.15.1	Rainwater downpipe not exceeding 175mm x 100mm or 150mm diameter including bends, elbows, etc.	m	1	19.14	19.14
20.15.2	Full - Bore outlets not exceeding 150mm diameter	no	1	61.22	61.22
	<u>REPLACE DAMAGED UNDERGROUND SEWER PIPE AND FITTINGS</u>			-	-
	<u>Locate, excavate for and replace damage to uPVC drain pipe and / or fittings in landscaped areas including backfilling, compacting, etc. and leave in good working order.</u>			-	-
20.16	<u>Laid in excavations not exceeding 1m deep</u>			-	-
20.16.1	110mm Ø pipe	m	1	212.35	212.35
20.16.2	160mm Ø pipe	m	1	286.94	286.94
20.17	<u>Laid in excavations exceeding 1m and not exceeding 2m deep</u>			-	-
20.17.1	110mm Ø pipe	m	1	244.20	244.20
20.17.2	160mm Ø pipe	m	1	329.98	329.98
20.18	<u>uPVC fittings</u>			-	-
20.18.1	110mm Access lid	no	1	42.29	42.29
20.18.2	110mm Gulley grate	no	1	42.29	42.29
20.18.3	110mm Plain bend	no	1	66.22	66.22
20.18.4	110mm Access bend	no	1	72.85	72.85
20.18.5	110mm Plain junction	no	1	72.85	72.85
20.18.6	110mm Access junction	no	1	72.85	72.85
20.18.7	110mm Rodding eye	no	1	72.85	72.85
20.18.8	110mm Gulley head and grate	no	1	80.14	80.14
20.18.9	110mm Gulley 'P' trap	no	1	88.14	88.14
20.18.10	160mm Access lid	no	1	46.75	46.75
20.18.11	160mm Plain bend	no	1	76.16	76.16
20.18.12	160mm Access bend	no	1	83.78	83.78
20.18.13	160mm Plain junction	no	1	83.78	83.78

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.18.14	160mm Access junction and cover	no	1	83.78	83.78
				-	
20.18.15	160mm Rodding eye	no	1	83.78	83.78
				-	
20.18.16	160 x 110mm Taper pipe	no	1	85.92	85.92
				-	
	<u>Locate, excavate for and replace damage to Vitrified Clay drain pipe and / or fittings in landscaped areas including backfilling, compacting, etc. and leave in good working order.</u>			-	
				-	
20.19	<u>Laid in excavations not exceeding 1m deep</u>			-	
				-	
20.19.1	100mm Ø pipe	m	1	114.76	114.76
				-	
20.19.2	150mm Ø pipe	m	1	131.98	131.98
				-	
20.20.	<u>Laid in excavations exceeding 1m and not exceeding 2m deep</u>			-	
				-	
20.20.1	100mm Ø pipe	m	1	134.92	134.92
				-	
20.20.2	150mm Ø pipe	m	1	155.15	155.15
				-	
20.21.	<u>Vitrified clay fittings</u>			-	
				-	
20.21.1	100mm Access lid	no	1	61.22	61.22
				-	
20.21.2	100mm Gully grate	no	1	61.22	61.22
				-	
20.21.3	100mm Access bend	no	1	72.85	72.85
				-	
20.21.4	100mm Access junction	no	1	80.14	80.14
				-	
20.21.5	100mm Rodding eye	no	1	80.14	80.14
				-	
20.21.6	150 x 100mm taper pipe	no	1	119.70	119.70
				-	
20.21.7	100mm Gully head and grate	no	1	251.52	251.52
				-	
20.21.8	100mm Gully 'P' or 'S' trap	no	1	251.52	251.52
				-	
	<u>Sundries (For storm water drainage ONLY)</u>			-	
				-	
20.21.9	15MPa/20mm Unreinforced concrete encasing to 110mm horizontal or vertical pipe including any necessary formwork.	m	1	57.88	57.88
				-	
20.21.10	Take out, set aside concrete block or brick paving and reinstate paving including sand bedding on completion of repair works .	m²	1	83.48	83.48
				-	
20.21.11	Break up and remove concrete surface not exceeding 100mm thick and reinstate including finishers to match existing on completion of repair works.	m²	1	261.56	261.56
				-	
20.21.12	Break up and remove tarmac asphalt surface and reinstate to match existing on completion of repair works.	m²	1	261.56	261.56
				-	

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.21.13	Replace damaged concrete / brick gulley surround including making good existing finishers.	no	1	422.94	422.94
20.21.14	Break up and remove concrete manhole top slab including cast iron frame and cover, replace with 125mm thick precast concrete adaptor slab to suit manhole size complete with 560mm Ø opening and Heavy duty concrete lid.	no	1	1 842.02	1 842.02
	<u>REPLACE DAMAGED GRATINGS, MANHOLE COVERS, ETC.</u>			-	-
20.22.	<u>Carefully break out from concrete existing damaged frame and grating or manhole cover, replace with new including making good all existing finishers and leave in good working order.</u>			-	-
20.22.1	560mm Diameter 125mm thick precast concrete removable cover	no	1	951.62	951.62
20.23.2	450 x 450mm x 28,5kg Type 14B cast iron single seal manhole cover and frame.	no	1	951.62	951.62
20.23.3	450 x 600mm x 68kg Type 9D cast iron single seal manhole cover and frame.	no	1	1 496.99	1 496.99
20.23.4	530 x 530mm x 67kg Type 12 cast iron single seal manhole cover and frame.	no	1	1 968.79	1 968.79
20.23.5	450 x 600mm x 72kg Type 8A cast iron double seal manhole cover and frame.	no	1	2 337.30	2 337.30
	<u>Polymer lockable concrete manhole covers - Solid Circular Manhole Covers</u>			-	-
20.23.7	705mm dia Type 1A solid circular manhole cover and frame for sewer manhole, including bedding locks measured elsewhere	no	1	4 098.41	4 098.41
20.23.8	605mm dia Type 2A solid circular manhole cover and frame in Heavy traffic, including bedding locks measured elsewhere	no	1	2 522.84	2 522.84
20.23.9	605mm dia Type 4A solid circular manhole cover and frame in Pavements, including bedding locks measured elsewhere	no	1	1 447.00	1 447.00
20.23.10	540mm dia Telkom 500 solid circular manhole cover and frame in Pavements, including bedding locks measured elsewhere	no	1	1 181.78	1 181.78
	<u>Polymer lockable concrete manhole covers - Drainage Circular Manhole Covers</u>			-	-
20.23.11	705mm dia Type 1B Drainage Circular Manhole cover and frame for Drainage, including bedding locks measured elsewhere	no	1	3 683.04	3 683.04
20.23.12	605mm dia Type 2B Drainage Circular Manhole cover and frame in Pavements, including bedding locks measured elsewhere			2 490.58	-
	<u>Polymer Valve Chambers / Belltobies</u>			-	-

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20.23.13	145mm dia x 320 mm deep Type 3A Valve Chamber and cover complete in heavy traffic, including bedding	no	1	- 663.79	663.79
20.23.13	140mm dia x 230 mm deep Type 3B Valve Chamber and cover complete in heavy traffic, including bedding	no	1	- 548.91	548.91
	<u>Polymer Rectangular Hydrant Box lockable locks for vandalism</u>			- - -	
20.23.14	405 x 320 Type 5 Hydrant cover and frame complete in pavements, including bedding locks measured elsewhere	no	1	- 838.02	838.02
20.23.15	580 x 270 Type 5A "City of Joburg" Hydrant cover and frame complete in pavements, including bedding locks measured elsewhere	no	1	- 569.30	569.30
	<u>Polymer Rectangular Gulley Grating and Frame</u>			- - -	
20.23.16	400 x 575 mm Type T8 Gulley Grate and Frame complete for roads, including bedding locks measured elsewhere	no	1	- 1 654.16	1 654.16
20.23.17	400 x 450mm Three Slot Gulley Grate and Frame complete for roads, including bedding locks measured elsewhere	no	1	- 1 860.62	1 860.62
	<u>Polymer Square and Rectangular Manhole Covers</u>			- - -	
20.23.18	305 x 305mm Type 300SQ Square Manhole Cover and frame for walkways, including bedding, locks measured elsewhere.	no	1	- 958.56	958.56
20.23.19	450 x 450mm Type 450sq M Square Manhole Cover and frame Medium Duty, including bedding, locks measured elsewhere.	no	1	- 1 138.50	1 138.50
20.23.20	450 x 450mm Type 450sq 10 ton Square Manhole Cover and frame Heavy Duty, including bedding, locks measured elsewhere.	no	1	- 2 469.38	2 469.38
20.23.21	610 x 610mm Type 610sq Square Manhole Cover only without frame, including bedding, locks measured elsewhere.	no	1	- 1 014.77	1 014.77
20.23.22	660 x 660mm Type 9A Square Manhole Cover with Frame light Duty, including bedding, locks measured elsewhere.	no	1	- 1 433.92	1 433.92
20.23.23	660 x 660mm Type 9B Square Manhole Cover with Frame Medium Duty, including bedding, locks measured elsewhere.	no	1	- 1 643.49	1 643.49
20.23.24	450 x 600mm Type 450x600HD Rectangular Manhole Cover with Frame Heavy Duty, including bedding, locks measured elsewhere.	no	1	- 2 529.18	2 529.18
20.23.25	670 x 525mm Type 9D SRectangular Manhole Cover with Frame Medium Duty, including bedding, locks measured elsewhere.	no	1	- 1 365.73	1 365.73
				-	

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20.23.26	930 x 930mm Type 900sq Square Manhole Cover with Frame light Duty, including bedding, locks measured elsewhere.	no	1	2 356.25	2 356.25
20.23.27	990 x 990mm Type 900HD Square Manhole Cover with Frame Heavy Duty, including bedding, locks measured elsewhere	no	1	8 677.28	8 677.28
	<u>CONSTRUCTED NEW INSPECTION CHAMBER</u>			-	-
20.24	<u>Excavate in earth or pickable material for, and build inspection chamber with 150mm thick 15MPa/20mm concrete bottom extending 100mm all round manhole perimeter, with one brick sides of 14MPa bricks in class I mortar, the internal faces of brickwork rendered in one coat cement plaster steel trowelled smooth and covered with a 150mm thick 25MPa/20mm concrete top of walls to finish flush with surface of ground and finished on exposed faces with 25mm thick untinted granolithic with all salient angles rounded and rebated on the inner edges for manhole cover and frame (elsewhere measured); the bottom to be benched up in 15MPa/20mm concrete finished smooth including backfilling and compacting to external walls as required.</u>			-	-
20.24.1	Inspection chamber 450 x 600mm and not exceeding 750mm deep internally.	no	1	4 460.67	4 460.67
20.24.2	Inspection chamber 900 x 600mm and exceeding 750mm and not exceeding 1000mm deep internally.	no	1	5 964.27	5 964.27
20.24.3	Inspection chamber 900 x 600mm and exceeding 1000mm and not exceeding 1250mm deep internally.	no	1	7 467.86	7 467.86
20.24.4	Inspection chamber 900 x 900mm and exceeding 1250mm and not exceeding 1500mm deep internally.	no	1	8 970.41	8 970.41
20.25	<u>Excavate in earth or pickable material for, and build inspection chamber with 200mm thick 15MPa/20mm cast in situ concrete bottom extending 100mm all round manhole perimeter, with precast concrete circular shaft sections jointed and sealed with Denso Sealostrip, covered with a precast concrete top rebated on the inner edges for manhole cover and frame (elsewhere measured) finishing flush with surface of ground; the bottom to be benched up in 15MPa/20mm concrete finished smooth including backfilling and compacting to external shaft walls as required.</u>			-	-
20.25.1	Inspection chamber 750mm diameter and not exceeding 750mm deep internally	no	1	4 460.67	4 460.67
20.25.2	Inspection chamber 750mm diameter and exceeding 750 and not exceeding 1000mm deep internally	no	1	5 964.27	5 964.27
20.25.3	Inspection chamber 750mm diameter and exceeding 1000mm and not exceeding 1250mm deep internally	no	1	7 467.86	7 467.86

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20.25.4	Inspection chamber 750mm diameter and exceeding 1250mm and not exceeding 1500mm deep internally	no	1	8 970.41	8 970.41
				-	
20.25.5	Inspection chamber 750mm diameter and exceeding 2000mm and not exceeding 3000mm deep internally with the lower 1,5m depth increased to 1250mm diameter and 150mm precast concrete reducer slab over enlarged bottom portion.	no	1	10 807.12	10 807.12
				-	
	PRE-FABRICATED TOILETS			-	
				-	
20.26	<u>Supply and Install Water Bourne Prefabricated Concrete Toilet - ROCLA or equivalent</u>			-	
				-	
20.26.1	Precision-cast Latrine top structure Panel toilet system, made up of 30MPa concrete. Consisting of 1 x Concrete Roof Panel, 2 x Side Panels, 1 x Rear wall panel, 1 x Floor Slab. Including 1 x Stainless Steel door with lockable spring loaded latch, 1 x porcelain toilet pan, plastic toilet seat and flap, and 1 x Econo Cistern. Assembled on site	no	1	7 153.25	7 153.25
				-	
20.26.2	One piece, precast concrete toilet structure with water pipe above the cistern. Including Stainless Steel door with lockable spring loaded latch, 1 x porcelain toilet pan, plastic toilet seat and flap, and 1 x Econo Cistern. Including delivery to site using a Crane Truck	no	1	6 538.88	6 538.88
				-	
	REPLACE DAMAGED SANITARY FITTINGS			-	
				-	
	<u>Carefully take out and remove damaged sanitary fitting, replace with new including effecting all existing brackets, couplings, connections and re-fixing existing taps, valves, etc. making good existing finishers as necessary and leave in good working order.</u>			-	
				-	
20.27	<u>Precast Concrete Wash Troughs</u>			-	
				-	
20.27.1	700mm x 530mm x 340mm deep Including Concrete Pedestal height: 870mm	no	1	768.53	768.53
				-	
20.27.2	1050mm x 650mm x 340mm deep Including Concrete Pedestals height: 870mm.	no	1	1 165.31	1 165.31
				-	
20.28	<u>Econo pans - Low cost "Housing" Flats, Old Age Homes, Hostels, RDP etc</u>			-	
				-	
20.28.1	Standard Mode - S Trap WC Pan	no	1	651.11	651.11
				-	
20.28.2	Standard Mode - P Trap WC Pan	no	1	651.11	651.11
				-	
20.28.3	Replace WC Light duty double flap plastic seat	no	1	91.82	91.82
				-	
20.28.4	Replace WC Heavy duty double flap plastic seat	no	1	287.93	287.93
				-	
				-	
				-	

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.29	<u>Econo / Plastic cisterns</u>			-	
				-	
				-	
20.29.1	9 litre Elf Toilet Plastic cistern complete with lid, fitments, flushing mechanism and flush pipe.	no	1	350.60	350.60
				-	
20.29.2	9 litre Elf Superior Plastic cistern complete with lid, fitments, flushing mechanism and flush pipe. With dual flush button	no	1	450.77	450.77
				-	
20.30.	<u>Shower bases and doors</u>			-	
				-	
				-	
20.30.1	Salina Bath/Shower Screen - F7203 or equivalent 900mm (L) X 1450 (H)	no	1	1 903.23	1 903.23
				-	
20.30.2	Salina Bath/Shower Screen - F7203 or equivalent 1300mm (L) X 1300 (H)	no	1	2 626.68	2 626.68
				-	
20.30.3	ST Marco G801 or equivalent Shower enclosure 885mm X 885mm (L) X 1850mm (H) (Base measured elsewhere)	no	1	2 392.95	2 392.95
				-	
20.30.4	Semi Frameless Square Shower 6011 or equivalent Shower enclosure 885mm X 885mm (L) X 1850mm (H) (Base measured elsewhere)	no	1	3 839.85	3 839.85
				-	
20.30.5	Pentagonal Frameless Shower 7010 or equivalent 975mm X 975mm (L) X 1850mm (H) (Base measured elsewhere)	no	1	6 299.58	6 299.58
				-	
20.30.6	Ceramic Shower Tray 1000 (L) x 1000 (W)	no	1	2 392.95	2 392.95
				-	
20.30.7	PVC Shower Tray 1000 (L) x 1000 (W)	no	1	1 452.47	1 452.47
				-	
20.31.	<u>Stainless Steel</u>			-	
				-	
				-	
20.31.1	Wash hand basin approximately 450 x 350mm wide	no	1	584.33	584.33
				-	
20.31.2	Sink and drainer 900 x 530mm wide with one bowl	no	1	1 202.04	1 202.04
				-	
20.31.3	Sink and drainer 1200 x 530mm wide with one bowl	no	1	1 435.77	1 435.77
				-	
20.31.4	Sink and drainer 1350 x 530mm wide with one bowl	no	1	1 722.92	1 722.92
				-	
20.31.5	Sink and drainer 1575 x 530mm wide with two bowls	no	1	2 067.51	2 067.51
				-	
20.31.6	Sink and drainer 1800 x 530mm wide with two bowls	no	1	2 481.01	2 481.01
				-	
20.31.7	525 x 530mm Laundry tub with one bowl	no	1	1 435.77	1 435.77
				-	
20.31.8	1050 x 530mm Laundry tub with two bowls	no	1	1 722.92	1 722.92
				-	
20.31.9	Combination curved back trough urinal 1350mm high with standard integral automatic flushing tray, drip cock and hinged domical grating not exceeding 1200mm long.	no	1	3 241.06	3 241.06
				-	
20.31.10	Combination curved back trough urinal 1350mm high with standard integral automatic flushing tray, drip cock and hinged domical grating exceeding 1200mm and not exceeding 1800mm long.	no	1	3 241.06	3 241.06

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20.32.	<u>Vitreous China Sanitaryware - "Vaal" or equally approved</u>			-	
				-	
20.32.1	450 x 300mm (approximately) Cloakroom basin	no	1	534.24	534.24
				-	
20.32.2	Universal basin pedestal	no	1	407.36	407.36
				-	
20.32.3	550 x 400mm (approximately) wash hand basin	no	1	618.83	618.83
				-	
20.32.4	600 x 400mm (approximately) Oval / Round vanity basin	no	1	732.33	732.33
				-	
20.32.5	Low level WC open rim washdown pan	no	1	2 165.90	2 165.90
				-	
20.32.6	Semi-close coupled WC open rim washdown pan	no	1	2 165.90	2 165.90
				-	
20.32.7	Close coupled WC open rim washdown pan	no	1	2 165.90	2 165.90
				-	
20.32.8	Wall hung WC open rim pan (flushing valve elsewhere)	no	1	1 262.14	1 262.14
				-	
20.32.9	9 litre cistern complete with lid and fitments (flush pipe elsewhere)	no	1	641.57	641.57
				-	
20.32.10	9 litre cistern complete with lid, top dual push button and fitments (flush pipe elsewhere)	no	1	673.92	673.92
				-	
20.32.11	9 litre cistern complete with lid, dual flush handle and fitments (flush pipe elsewhere)	no	1	641.57	641.57
				-	
20.32.12	Wall hung bowl urinal, overall size 420 x 320 x 280mm (approximately) with 38mm c.p. Domical grating and top inlet spreader (flushing valve elsewhere)	no	1	3 241.06	3 241.06
				-	
20.32.13	Wall hung bowl urinal, overall size 600 x 390 x 390mm (approximately) with 38mm c.p. Domical grating and top inlet spreader (flushing valve elsewhere)	no	1	3 241.06	3 241.06
				-	
20.32.14	510 x 400mm "Sola Medical 510" white hospital basin Code 706200 including 32mm diameter chromium plated standing overflow tube Code 8630Z0, bolted to wall	no	1	934.92	934.92
				-	
20.32.15	510 x 405mm "Hibiscus 844820" white wash hand basin with two tap holes including integrated overflow and chainstay hole, bolted to wall	no	1	500.85	500.85
				-	
20.32.16	595 x 455mm "Cameo" white drop-in vanity basin Code 0006 with two tap holes including integrated overflow and chainstay hole, and silicone sealant all round	no	1	1 001.70	1 001.70
				-	
20.32.17	Low-level white closet for paraplegics comprising "Protea(7502)" pan with "Masterbilt" double flap plastic seat and 9litre Code710631 cistern with purpose made chromed side flush handle	no	1	9 527.28	9 527.28
				-	
20.32.18	"Daisy" white vitreous china WC semi-close coupled pan (code 774717) with matching 9litre cistern (code 710034) and white double flap plastic seat	no	1	2 132.51	2 132.51
				-	

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20.32.19	"Daisy" white vitreous china "Junior" 1040 WC outlet washdown pan (code 751300) and matching 6litre cistern (code 712034) complete with lid and fitments, and junior seat	no	1	1 948.86	1 948.86
20.32.20	Lavatera top inlet bowl wall urinal with spreader (Fushing valve elsewhere)	no	1	3 208.46	3 208.46
20.32.21	Built in Bath with Handles 1700 x 700 including overflow pipe (Brickwork and tiling measured elsewhere)	no	1	1 669.50	1 669.50
20.32.22	Built in Bath with Handles 1800 x 750 including overflow pipe (Brickwork and tiling measured elsewhere)	no	1	2 971.71	2 971.71
20.33	<u>Sundries</u>			-	-
20.33.1	Replace sink or wash hand basin stainless steel bracket including re-fixing sink or basin, connection, etc.	no	1	259.33	259.33
20.33.2	Re-fix existing wash hand basin to wall	no	1	122.43	122.43
20.33.3	Replace wash hand basin semi concealed cast iron bracket including re-fixing basin, connections, etc.	no	1	73.46	73.46
20.33.4	Re-fix existing high or low level wc cistern to wall	no	1	122.43	122.43
20.33.5	Replace WC double flap wooden seat	no	1	306.08	306.08
20.33.6	Replace PVC flush pipe rubber pan connector	no	1	73.46	73.46
20.33.7	Replace low level cistern PVC flush pipe, rubber pan connector and seals	no	1	122.43	122.43
20.33.8	Replace high level cistern PVC flush pipe, rubber pan connector and seals	no	1	94.61	94.61
20.33.9	Replace semi-close coupled cistern PVC flush pipe bend, rubber pan connector and seals	no	1	327.22	327.22
20.33.10	Replace high level flush chain	no	1	106.85	106.85
20.33.11	Replace matching cistern lid	no	1	309.97	309.97
20.33.12	Replace cistern float arm including ball and set water level	no	1	122.43	122.43
20.33.13	Replace cistern bottom inlet pedestal type float valve and ball, connect supply and set water level	no	1	233.73	233.73
20.33.14	Replace flushing valve mechanism complete with rubber washers, etc.	no	1	283.82	283.82
20.33.15	Replace Syphonic flushing valve unit complete with rubber washers, etc.	no	1	283.82	283.82
20.33.16	Attend to and service / fix faulty cistern including replacing all washers, seals, adjusting flushing mechanism, etc. and leave in good working order.	no	1	194.78	194.78

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20.33.17	Replace cistern float valve and ball, connect supply and adjust water level	no	1	160.27	160.27
	<u>REPLACE DAMAGED WASTE UNIONS, ETC.</u>			-	-
	<u>Carefully take out and remove damaged item, replace with new including backnut, plug and chain; and making good existing finishers as necessary.</u>			-	-
20.34				-	-
20.34.1	32mm Chromium plated bath overflow union	no	1	106.85	106.85
20.34.2	32mm Chromium plated basin waste union	no	1	106.85	106.85
20.34.3	40mm chromium plated shower waste and grating	no	1	198.11	198.11
20.34.4	40mm Chromium plated bath or sink waste union	no	1	106.85	106.85
20.35	<u>Sundries</u>			-	-
20.35.1	Replace CP shower grating	no	1	37.17	37.17
20.35.2	Replace plug and chain	no	1	29.07	29.07
20.35.3	Replace CP anti-theft plug and spindle	no	1	246.93	246.93
20.35.4	Attend to, fix leaking waste union and tighten backnut	no	1	27.27	27.27
	<u>REPLACE DAMAGED TRAPS, ETC.</u>			-	-
	<u>Carefully take out and remove damaged item, replace with new including washers, flanges, capnuts, pipe clips, etc. and making good existing finishers as necessary.</u>			-	-
	<u>TRAPS</u>			-	-
20.36	<u>uPVC</u>			-	-
20.36.1	32mm "P" or "S" trap	no	1	122.43	122.43
20.36.2	32mm Bottle trap	no	1	261.56	261.56
20.36.3	40mm "P" or "S" trap	no	1	140.24	140.24
20.36.4	40mm Bottle trap	no	1	292.72	292.72
20.37	<u>Flexi-Rubber</u>			-	-
20.37.1	40mm "P" or "S" trap	no	1	94.05	94.05
20.37.2	40 x 300mm sink combination for double bowl "P" trap	no	1	116.87	116.87
20.38	<u>Brass</u>			-	-
20.38.1	40mm Shower or bath trap	no	1	306.69	306.69
				-	-
				-	-

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20.39	<u>Chromium plated - "Cobra Watertech" or equally approved</u>			-	
				-	
20.39.1	32mm "345/40CP" bottle traps	no	1	730.13	730.13
				-	
	32mm CP extension piece with sliding wall flange	no	1	53.42	53.42
				-	
20.40.	<u>Sundries</u>			-	
				-	
20.40.1	Attend to and repair leaking joint to exposed trap	no	1	27.27	27.27
				-	
20.40.2	Attend to and repair leaking joint to concealed or flush trap	no	1	27.27	27.27
				-	
	<u>REPLACE DAMAGED TAPS, VALVES, ETC.</u>			-	
				-	
	<u>Carefully take out and remove damaged item, replace with new including handle styles to match existing, washers, flanges, capnuts, couplers, etc. and making good existing finishers as necessary.</u>			-	
				-	
20.41	<u>Brass</u>			-	
				-	
20.41.1	15mm Bibtap "Code 100 - 15"	no	1	350.82	350.82
				-	
20.41.1a	15mm Hose Bibtap "Code 108 - 15"	no	1	365.12	365.12
				-	
20.41.1b	15mm Hose Bibtap "Code 209/1 - 13 x 3/4"	no	1	228.90	228.90
				-	
20.41.2	20mm Hose Bibtap "Code 108 - 20"	no	1	491.51	491.51
				-	
20.41.3	20mm Hose bibtap with lockshield and loose key "Code 108LK-20" Removable key	no	1	720.57	720.57
				-	
20.41.3a	15mm Hose bibtap with lockshield and loose key "Code 108LK-15" Removable key	no	1	557.51	557.51
				-	
20.41.4	20mm stoptap "Code 121-20"	no	1	374.50	374.50
				-	
20.41.4a	15mm stoptap "Code 121-15"	no	1	282.23	282.23
				-	
20.41.5	20mm stoptap with lockshield and loose key "Code 121LK-20"	no	1	585.84	585.84
				-	
20.41.5a	15mm stoptap with lockshield and loose key "Code 121LK-15"	no	1	471.38	471.38
				-	
	<u>Cobra or equivalent Red Steel - Heavy Duty Gate valve</u>			-	
				-	
20.41.6	25mm Fullway gate valve "Code 1001/125-25"	no	1	449.92	449.92
				-	
20.41.7	32mm Fullway gate valve "Code 1001/125-32"	no	1	677.98	677.98
				-	
20.41.8	40mm Fullway gate valve "Code 1001/125-40"	no	1	819.45	819.45
				-	
20.41.9	50mm Fullway gate valve "Code 1001/125-50"	no	1	1 152.04	1 152.04
				-	
20.41.10	100mm Fullway gate valve "Code 1001/125-100"	no	1	2 872.10	2 872.10
				-	
20.41.11	15mm Fullway heavy duty gate valve "Code 1001/125-15"	no	1	334.22	334.22

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20.41.12	20mm Fullway heavy duty gate valve "Code 1001/125-20"	no	1	382.53	382.53
	<u>Cobra or equivalent Brass Check Valve</u>			-	-
20.41.13	15mm Brass Check valve "Code 1022-15"	no	1	168.15	168.15
20.41.14	20mm Brass Check valve "Code 1022-20"	no	1	170.80	170.80
20.41.15	25mm Brass Check valve "Code 1022-25"	no	1	240.56	240.56
20.41.16	32mm Brass Check valve "Code 1022-32"	no	1	338.43	338.43
20.41.17	40mm Brass Check valve "Code 1022-40"	no	1	444.81	444.81
	<u>Cobra or equivalent - Brass Spring Check Valve</u>			-	-
20.41.18	15mm Brass Spring Check valve "Code 1025-15"	no	1	210.19	210.19
20.41.19	20mm Brass Spring Check valve "Code 1025-20"	no	1	236.38	236.38
20.41.20	25mm Brass Spring Check valve "Code 1025-25"	no	1	413.49	413.49
20.41.21	40mm Brass Spring Check valve "Code 1025-40"	no	1	735.46	735.46
20.41.22	50mm Brass Spring Check valve "Code 1025-50"	no	1	1 186.93	1 186.93
	<u>Cobra or equivalent - Ball Valves</u>			-	-
20.41.23	15mm Ball valve "Code 1030-15"	no	1	128.42	128.42
20.41.24	20mm Ball valve "Code 1080-20"	no	1	377.03	377.03
20.42.	<u>Chromium plated - Heavy pattern SABS 226 - 1987 - Class 1</u>			-	-
	<u>"Cobra Watertech" or equally approved</u>			-	-
20.42.1	Stella 15mm Raised nose pillartap - 3314SB including flexi pipe	no	1	414.68	414.68
20.42.2	Stella 20mm Raised nose pillartap - 3314ST including flexi pipe	no	1	446.56	446.56
20.42.3	Stella 15mm Bibtap star - 108-15	no	1	306.76	306.76
20.42.4	Stella 20mm Bibtap star - 108-20	no	1	494.80	494.80
20.42.5	Stella Basin mixer pillartap with aerator - 3392SB including flexi pipe	no	1	1 739.99	1 739.99
20.42.6	Stella Sink mixer pillartap with aerator - 3396SB, including flexi pipe	no	1	1 413.95	1 413.95
20.42.7	Stella Sink mixer Bibtap with aerator - 3366/041/10SB	no	1	1 240.19	1 240.19
20.42.7a	Stella Bath mixer Bibtap with aerator - 3351SB-15-HQ with shower hose	no	1	2 112.25	2 112.25

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20.42.7b	Stella Shower Set with shower head P-63-2SB and two 15mm undertile stop taps - 3328SB026/065	no	1	1 349.96	1 349.96
20.42.8	15mm undertile stoptap star - 128-15	no	1	490.70	490.70
20.42.9	20mm undertile stoptap star - 128-20	no	1	800.53	800.53
20.42.10.	21mm Medical bibtap - 500-21B Pillar Tap(Elbow action) Flexi pipes	no	1	1 802.98	1 802.98
20.42.10a	21mm Medical bibtap - 500-21B BIB Tap(Elbow action)	no	1	1 802.98	1 802.98
20.42.11	21mm Medical pillartap - 503-21B / 503-21R Basin (Elbow action) with flexi pipe	no	1	1 419.78	1 419.78
20.42.11a	21mm Medical pillartap - 505-21B / 505-21R Basin with Aerator (Elbow action) with flexi pipe	no	1	1 419.30	1 419.30
20.42.12	21mm Medical wall bib mixer - 511-21 (Elbow action) with flexi pipe	no	1	4 820.85	4 820.85
20.42.13	21mm Medical pillar mixer - 515-21 Pillar for Sink or Basin (Elbow action) with flexi pipe	no	1	4 102.74	4 102.74
20.42.14	21mm Medical wall mounted - 515/055-21 BIB for sink or basin (Elbow action)	no	1	4 102.74	4 102.74
20.42.14a	21mm Medical wall type mixer with hand shower - 518-21 BIB for bath (Elbow action)	no	1	6 310.04	6 310.04
20.42.15	15mm "Code KM2.100" metering pillartap	no	1	2 323.63	2 323.63
20.42.16	15mm "Code KM2.302" demand stoptap	no	1	1 101.43	1 101.43
20.42.17	15mm "Code KM2.102" metering pillartap	no	1	1 152.67	1 152.67
20.42.18	15mm "Code KM2.301" metering stoptap	no	1	1 863.47	1 863.47
20.42.19	15mm "Code KM6.000" metering uranial valve	no	1	1 693.10	1 693.10
20.42.19a	15mm "Code KM1.00" metering valve for basins	no	1	2 048.96	2 048.96
20.42.20.	15mm Extension piece 75mm long	no	1	43.96	43.96
20.42.21	20mm Extension piece 75mm long	no	1	53.42	53.42
20.42.22	15mm Extension piece with sliding wall flange	no	1	43.96	43.96
20.42.23	20mm Extension piece with sliding wall flange	no	1	53.42	53.42
20.42.24	15mm angle regulating valve	no	1	618.83	618.83
20.42.25	15mm angle regulating valve with 350mm long tube and capnut	no	1	673.37	673.37
20.42.26	Vandalproof Shower head "Code KP2.6" CP15mm	no	1	1 256.28	1 256.28

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20.42.26a	Typhoon Shower Head "Code KP2.51" C/P 15mm including shower arm 300mm x 90 degree projection with wall flange and 85mm Ø	no	1	768.86	768.86
20.42.26b	Prestex Shower Head "Code P-065" C/P including shower arm 300mm x 90 degree projection with wall flange and 85mm Ø	no	1	370.96	370.96
20.42.27	Shower CP Head "Code P-070CP" 150mm dia with Overhead shower arm 300mm x 90 degree projection with wall flange and 85mm Ø	no	1	724.01	724.01
20.42.28	Shower arm with wall flange 15mm C/P "Code P-026" 68mm throw	no	1	200.34	200.34
20.42.28a	Shower arm with wall flange 15mm C/P "Code P-027" 158mm throw	no	1	142.91	142.91
20.42.28b	Tubular Shower arm with wall flange 15mm C/P "Code P-023TU-250" 250mm throw	no	1	406.60	406.60
20.42.28c	Tubular Shower arm with wall flange 15mm C/P "Code P-023TU-400" 400mm throw	no	1	480.57	480.57
20.42.29	20mm Plain bath spout with round wall flange	no	1	618.83	618.83
20.42.30	20mm Plain square pattern bath spout with round wall flange	no	1	618.83	618.83
20.42.31	20mm Pillar type plain bath spout with 230mm throw	no	1	651.35	651.35
20.42.32	20mm "Flushmaster Junior" (FJ2.000) exposed type toilet flush valve CP with integral ball-o-stop valve and wallplate	no	1	2 317.18	2 317.18
20.42.32a	20mm "Toilet Flushvalve" (FJ2.100) exposed type toilet flush valve CP, back entry installations, pan connector, wall flange, with integral vacuum breaker	no	1	3 146.90	3 146.90
20.42.33	20mm "Flushmaster Junior" (FJ4.001) concealed type toilet flush valve BC with integral ball-o-stop valve and captive linkage	no	1	1 724.86	1 724.86
20.42.37	20mm "Flushmaster Junior" (FJ6.000) exposed type urinal flush valve CP with integral ball-o-stop valve and wallplate	no	1	1 852.24	1 852.24
20.42.38	32mm "Standard Flushmaster" (FM1.000) exposed type toilet flush valve CP with integral vacuum breaker, non-return valve, ball-o-stop, wallplate and activation lever	no	1	4 490.47	4 490.47
20.42.39	32mm "Standard Flushmaster" (FM1.100) exposed type toilet flush valve CP with integral vacuum breaker, non-return valve, ball-o-stop, wallplate, activation lever, flush pipe and rubber pan connector	no	1	4 642.77	4 642.77
20.42.40	32mm "Standard Flushmaster" (FM2.000) exposed type toilet back entry flush valve CP with integral vacuum breaker, non-return valve, ball-o-stop and wallplate	no	1	2 506.69	2 506.69
20.42.41	Push button assembly CP with pushrod for concealed flush valves	no	1	220.99	220.99

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20.42.42	Straight bowl type urinal flush pipe and spreader	no	1	508.39	508.39
20.42.43	Offset bowl type urinal flush pipe and spreader	no	1	508.39	508.39
20.42.44	22mm CP Straight urinal flush pipe with rubber pipe connector	no	1	260.06	260.06
20.42.45	22mm CP Bent urinal flush pipe with rubber pipe connector	no	1	273.29	273.29
20.42.46	25mm CP Straight toilet flush pipe with rubber pipe connector and seat buffer	no	1	297.48	297.48
20.42.47	25mm CP Bent toilet flush pipe with rubber pipe connector and seat buffer	no	1	331.04	331.04
20.42.48	38mm CP Straight toilet flush pipe with rubber pipe connector and seat buffer	no	1	383.72	383.72
20.42.49	38mm CP Bent toilet flush pipe with rubber pipe connector and seat buffer	no	1	432.41	432.41
	<u>Sundries</u>			-	-
20.42.50	Replace tap or stoptap handle to suit base unit not exceeding 20mm including capnut or screw fixing and hot or cold indicator cap where required	no	1	272.18	272.18
20.42.51	Replace gate valve handwheel not exceeding 100mm diameter including capnut or screw fixing	no	1	1 843.95	1 843.95
20.42.52	Replace 15 x 350mm long flexi tube CP	no	1	107.40	107.40
20.42.53	Replace 15mm standard Headpart RB	no	1	131.19	131.19
20.42.54	Replace 15mm standard Headpart RB and spindle cover CP	no	1	224.33	224.33
20.42.55	Replace 20mm standard Headpart RB	no	1	148.32	148.32
20.42.56	Replace 20mm standard Headpart RB and spindle cover CP	no	1	274.21	274.21
20.42.57	Replace 15mm leaking tap or stoptap washer	no	1	12.24	12.24
20.42.58	Replace 15mm leaking tap or stoptap washer including spindle gland packing	no	1	21.20	21.20
20.42.59	Replace 20mm leaking tap or stoptap washer	no	1	12.24	12.24
20.42.60	Replace 20mm leaking tap or stoptap washer including spindle gland packing	no	1	24.94	24.94
20.42.61	Repair leaking joint to urinal flushpipe or spreader	no	1	83.48	83.48
20.42.62	Replace leaking or damaged rubber flushpipe connector	no	1	122.43	122.43
20.42.63	Replace leaking or damaged compression rubber flushpipe connector	no	1	122.43	122.43
				-	-

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.42.64	Service and clean out "Flushmaster Junior Flushvalve" unit using standard washer kit including adjusting water flow and leave in good working order (replacement parts elsewhere)	no	1	207.57	207.57
				-	
20.42.65	Service and clean out "Standard Flushmaster Flushvalve" unit using standard washer kit and handle seal including adjusting water flow and leave in good working order (replacement parts elsewhere)	no	1	250.43	250.43
				-	
20.42.66	Replace faulty or damaged "Flushmaster Junior Flushvalve" parts			-	
				-	
20.42.66a	a) Piston assembly	no	1	114.68	114.68
				-	
20.42.66b	b) Pushbutton assembly	no	1	221.22	221.22
				-	
20.42.66c	c) Flushvalve cover	no	1	121.32	121.32
				-	
20.42.66d	d) Wall flange	no	1	96.09	96.09
				-	
20.42.66e	e) Captive linkage	no	1	361.85	361.85
				-	
20.42.67	Replace faulty or damaged "Standard Flushmaster Flushvalve" parts			-	
20.42.67a	a) Piston assembly	no	1	114.68	114.68
				-	
20.42.67b	b) Plunger assembly	no	1	221.22	221.22
				-	
20.42.67c	c) Control stop assembly	no	1	221.22	221.22
				-	
20.42.67d	d) Top cover assembly	no	1	121.32	121.32
				-	
20.42.67e	e) Headpart	no	1	121.32	121.32
				-	
20.42.67f	f) Handle and nut assembly	no	1	121.32	121.32
				-	
20.42.67g	g) Extended activation leaver for disable installation conversion, 224mm in length 10mm diameter rod	no	1	361.85	361.85
				-	
	<u>REPLACE DAMAGED SOIL, SEWER, WASTE, VENT PIPE AND FITTINGS</u>			-	
				-	
	PVC-U SOIL, SEWERAGE			-	
				-	
20.43	<u>Supply and install PVC-U class 51 - 100kPa Normal duty pipes, alteration, bedding and backfill measured elsewhere</u>			-	
				-	
20.43.1	110mm Pipes	m	1	80.78	80.78
				-	
20.43.2	160mm Pipes	m	1	112.65	112.65
				-	
20.43.3	200mm Pipes	m	1	173.49	173.49
				-	
	<u>Supply and install PVC-U class 34 - 300kPa Normal duty pipes, alteration, bedding and backfill measured elsewhere</u>			-	

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.43.4	110mm Pipes	m	1	100.08	100.08
20.43.5	160mm Pipes	m	1	171.11	171.11
20.43.6	200mm Pipes	m	1	269.22	269.22
	<u>Extra over uPVC pipes for fittings</u>			-	
20.43.7	110mm Bend	no	1	101.40	101.40
20.43.8	110mm Access Bend	no	1	165.93	165.93
20.43.9	110mm Rodding eye	no	1	214.39	214.39
20.43.10	110 x 45deg mm Rodding eye lid	no	1	38.27	38.27
20.43.11	160mm Rodding eye inspection lid	no	1	69.13	69.13
20.43.12	110 x 45deg RIB junction	no	1	124.64	124.64
20.43.13	110 x 90deg RIB junction	no	1	189.62	189.62
20.43.14	160 x 110 x 45deg RIB S/R/Junction	no	1	244.12	244.12
20.43.15	110mm dia single socket	no	1	43.99	43.99
20.43.16	160mm dia single socket	no	1	76.44	76.44
20.43.17	110mm dia end cap	no	1	43.99	43.99
20.43.18	160mm dia end cap	no	1	139.05	139.05
20.44	WASTE AND VENT PIPES STACKING - Freeflo			-	
	<u>Carefully take out and remove damaged section to uPVC waste pipe and / or fittings, replace with new including holderbats, pipe clips, etc. as necessary and leave in good working order.</u>			-	
20.44.1	40mm Ø pipe	m	1	48.60	48.60
20.44.2	50mm Ø pipe	m	1	53.46	53.46
20.44.3	75mm Ø pipe	m	1	73.99	73.99
20.44.4	110mm Ø pipe	m	1	125.45	125.45
20.44.5	160mm Ø pipe	m	1	207.63	207.63
	<u>uPVC waste fittings</u>			-	
20.44.6	40mm Access lid	no	1	19.66	19.66
20.44.7	40mm Single socket	no	1	44.03	44.03
20.44.8	40mm Bend	no	1	44.03	44.03

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT	
20.44.9	40mm Access bend	no	1	46.16		46.16
				-		
20.44.10	40mm Junction	no	1	44.03		44.03
				-		
20.44.11	40mm Access junction	no	1	46.16		46.16
				-		
20.44.12	40mm Adaptor	no	1	44.03		44.03
				-		
20.44.13	40mm Reducing socket	no	1	44.03		44.03
				-		
20.44.14	40mm Air vent cowl	no	1	40.57		40.57
				-		
20.44.15	50mm Access lid	no	1	21.63		21.63
				-		
20.44.16	50mm Single socket	no	1	48.44		48.44
				-		
20.44.16	50mm Bend	no	1	48.44		48.44
				-		
20.44.17	50mm Access bend	no	1	50.78		50.78
				-		
20.44.18	50mm Junction	no	1	48.44		48.44
				-		
20.44.19	50mm Access junction	no	1	50.78		50.78
				-		
20.44.20	50mm Adaptor	no	1	48.44		48.44
				-		
20.44.21	50mm Reducing socket	no	1	48.44		48.44
				-		
20.44.22	50mm Air vent cowl	no	1	44.76		44.76
				-		
20.44.23	50mm One-Way vent valve	no	1	48.44		48.44
				-		
20.44.24	50mm Two-Way vent valve	no	1	50.78		50.78
				-		
20.44.25	75mm Access lid	no	1	23.78		23.78
				-		
20.44.26	75mm Single socket	no	1	53.28		53.28
				-		
20.44.27	75mm Bend	no	1	53.28		53.28
				-		
20.44.28	75mm Access bend	no	1	55.85		55.85
				-		
20.44.29	75mm Junction	no	1	53.28		53.28
				-		
20.44.30	75mm Access junction	no	1	55.85		55.85
				-		
20.44.31	75mm Reducing junction	no	1	55.85		55.85
				-		
20.44.32	75mm Access reducing junction	no	1	55.85		55.85
				-		
20.44.33	75mm Air vent cowl	no	1	49.24		49.24
				-		
20.44.34	75mm One-Way vent valve	no	1	53.28		53.28
				-		
20.44.35	75mm Two-Way vent valve	no	1	55.85		55.85
				-		
20.44.36	110mm Access lid	no	1	26.17		26.17

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.44.37	110mm Single socket	no	1	58.61	58.61
20.44.38	110mm Double socket	no	1	61.27	61.27
20.44.39	110mm Bend	no	1	58.58	58.58
20.44.40	110mm Access bend	no	1	61.44	61.44
20.44.41	110mm Access bend with vent horn	no	1	64.23	64.23
20.44.42	110mm Single junction	no	1	58.61	58.61
20.44.43	110mm Access single junction	no	1	61.44	61.44
20.44.44	110mm Reducing junction	no	1	61.44	61.44
20.44.45	110mm Access reducing junction	no	1	61.44	61.44
20.44.46	110mm Double junction	no	1	61.44	61.44
20.44.47	110mm Access double junction	no	1	64.23	64.23
20.44.48	110mm Double reducing junction	no	1	64.23	64.23
20.44.49	110mm Access double reducing junction	no	1	64.23	64.23
20.44.50	110mm Pan collar	no	1	58.61	58.61
20.44.51	110mm Bent pan collar	no	1	61.44	61.44
20.44.52	110mm Access bent pan collar	no	1	64.23	64.23
20.44.53	110 x 50mm Eccentric reducer	no	1	147.09	147.09
20.44.54	110mm Air vent cowl	no	1	54.16	54.16
20.44.55	110mm One-Way vent valve	no	1	61.44	61.44
20.44.56	110mm Two-Way vent valve	no	1	61.44	61.44
20.44.57	50mm Alluminium Holderbat	no	1	23.86	23.86
20.44.58	75mm Alluminium Holderbat	no	1	40.19	40.19
20.44.59	110mm Alluminium Holderbat	no	1	43.11	43.11
20.45	<u>Carefully take out and remove damaged section to Plain Ended Cast Iron pipe and / or fittings, replace with new including SSN couplings, holderbats, pipe clips, etc. as necessary and leave in good working order.</u>			-	-
20.45.1	50mm ø pipe	m	1	273.86	273.86
20.45.2	75mm ø pipe	m	1	301.24	301.24
20.45.3	100mm ø pipe	m	1	331.37	331.37

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.46.	<u>Cast Iron fittings</u>			-	
				-	
				-	
20.46.1	50mm End cap	no	1	198.31	198.31
				-	
20.46.2	50mm Bend	no	1	311.71	311.71
				-	
20.46.3	50mm Junction	no	1	319.51	319.51
				-	
20.46.4	75mm End cap	no	1	218.15	218.15
				-	
20.46.5	75mm Access lid	no	1	218.15	218.15
				-	
20.46.6	75 x 50mm Eccentric reducer	no	1	344.07	344.07
				-	
20.46.7	75mm Bend	no	1	327.49	327.49
				-	
20.46.8	75mm Junction	no	1	335.68	335.68
				-	
20.46.9	75mm Access Junction	no	1	344.07	344.07
				-	
20.46.10	75mm Access reducing junction	no	1	352.68	352.68
				-	
20.46.11	75mm Urinal 'P' trap	no	1	352.68	352.68
				-	
20.46.12	100mm End cap	no	1	308.92	308.92
				-	
20.46.13	100mm Access lid	no	1	308.92	308.92
				-	
20.46.14	100 x 50mm Eccentric reducer	no	1	635.21	635.21
				-	
20.46.15	100 x 75mm Eccentric reducer	no	1	635.21	635.21
				-	
20.46.16	100mm Bend	no	1	619.72	619.72
				-	
20.46.17	100mm Access bend	no	1	635.21	635.21
				-	
20.46.18	100mm Junction	no	1	651.09	651.09
				-	
20.46.19	100mm Access Junction	no	1	667.37	667.37
				-	
20.46.20	100mm Double junction	no	1	684.05	684.05
				-	
20.46.21	100mm Access double junction	no	1	701.16	701.16
				-	
20.46.22	100mm Reducing junction	no	1	684.05	684.05
				-	
20.46.23	100mm Access reducing junction	no	1	701.16	701.16
				-	
20.46.24	100mm Combined junction / bend	no	1	701.16	701.16
				-	
20.46.25	100mm Double combined junction / bend	no	1	718.69	718.69
				-	
20.46.26	100mm Iron to earthenware connector	no	1	635.21	635.21
				-	
20.46.27	100mm ABC cleaning eye and cover	no	1	701.16	701.16
				-	

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.47.	<u>Carefully take out and remove damaged section to medium duty Spigot and Socket Cast Iron pipe and / or fittings, replace with new including holderbats, pipe clips, etc. as necessary and leave in good working order.</u>			-	
20.47.1	100mm Ø pipe	m	1	331.37	331.37
20.48.	<u>Medium duty Spigot and Socket Cast Iron fittings</u>			-	
20.48.1	100mm Access lid	no	1	308.92	308.92
20.48.2	100mm Inspection pipe	no	1	667.37	667.37
20.48.3	100mm Socket	no	1	619.72	619.72
20.48.4	100 x 50mm Taper pipe	no	1	339.65	339.65
20.48.5	100 x 75mm Taper pipe	no	1	348.15	348.15
20.48.6	100mm Junction	no	1	651.09	651.09
20.48.7	100mm Access junction	no	1	667.37	667.37
20.48.8	100mm Reducing junction	no	1	684.05	684.05
20.48.9	100mm Access reducing junction	no	1	701.16	701.16
20.49.	<u>Carefully take out and remove damaged section to Galvanised Steel pipe and / or fittings, replace with new including holderbats, pipe clips, etc. as necessary and leave in good working order.</u>			-	
20.49.1	32mm Ø pipe	m	1	228.58	228.58
20.49.2	40mm Ø pipe	m	1	251.44	251.44
20.49.3	50mm Ø pipe	m	1	276.58	276.58
20.49.4	80mm Ø pipe	m	1	309.77	309.77
20.49.5	100mm Ø pipe	m	1	340.75	340.75
20.49.6	80mm Elbow	no	1	78.92	78.92
20.49.7	80mm Bend	no	1	78.92	78.92
20.49.8	100mm Elbow	no	1	94.71	94.71
20.49.9	100mm Bend	no	1	94.71	94.71
20.49.10	<u>Carefully break out from concrete and remove damaged Full-bore Cast Iron Outlet, replace with new including connections, making good all existing finishers including waterproofing and paint to match existing; and leave in good working order.</u>			-	
20.49.10	80mm vertical outlet	no	1	302.10	302.10

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.49.11	80mm 45 or 90 degree side outlet	no	1	317.21	317.21
				-	
20.49.12	80mm two-way outlet	no	1	348.93	348.93
				-	
20.49.13	100mm vertical outlet	no	1	383.82	383.82
				-	
20.49.14	100mm side outlet	no	1	383.82	383.82
				-	
20.49.15	100mm 45 or 90 degree side outlet	no	1	422.21	422.21
				-	
20.49.16	100mm two-way outlet	no	1	443.31	443.31
				-	
20.50.	<u>Brass fittings</u>			-	
				-	
20.50.1	32mm Access lid	no	1	132.45	132.45
				-	
20.50.2	32mm Bend	no	1	242.07	242.07
				-	
20.50.3	32mm Access bend	no	1	248.12	248.12
				-	
20.50.4	32mm Junction	no	1	248.12	248.12
				-	
20.50.5	32mm Access junction	no	1	248.42	248.42
				-	
20.50.6	40mm Access lid	no	1	145.70	145.70
				-	
20.50.7	40mm Bend	no	1	266.27	266.27
				-	
20.50.8	40mm Access bend	no	1	272.93	272.93
				-	
20.50.9	40mm Junction	no	1	272.93	272.93
				-	
20.50.10	40mm Access junction	no	1	273.26	273.26
				-	
20.50.11	50mm Access lid	no	1	160.27	160.27
				-	
20.50.12	50mm Bend	no	1	292.90	292.90
				-	
20.50.13	50mm Access bend	no	1	300.22	300.22
				-	
20.50.14	50mm Junction	no	1	292.90	292.90
				-	
20.50.15	50mm Access junction	no	1	300.22	300.22
				-	
20.51.	<u>Sundries</u>			-	
				-	
20.51.1	Seal leaking uPVC or cast iron WC pan connector joint	no	1	61.22	61.22
				-	
20.51.2	Seal leaking uPVC waste or vent pipe joint not exceeding 75mm diameter	no	1	61.22	61.22
				-	
20.51.3	Seal leaking uPVC soil or vent pipe joint not exceeding 110mm diameter	no	1	61.22	61.22
				-	
20.51.4	Seal leaking plain ended cast iron waste or vent pipe joint not exceeding 75mm diameter	no	1	61.22	61.22

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.51.5	Seal leaking plain ended cast iron soil or vent pipe joint not exceeding 100mm diameter	no	1	61.22	61.22
20.51.6	Seal leaking spigot and socket cast iron waste or vent pipe joint not exceeding 75mm diameter	no	1	61.22	61.22
20.51.7	Seal leaking spigot and socket cast iron waste or vent pipe joint not exceeding 100mm diameter	no	1	61.22	61.22
	<u>REPLACE DAMAGED UNDERGROUND WATER PIPE AND FITTINGS</u>			-	-
	<u>Locate, isolate affected area, excavate for and replace damage to High Density Polyethylene (HDPE) water supply line and / or fittings in landscaped areas not exceeding 1m deep including backfilling, compacting, etc. and leave in good working order.</u>			-	-
20.52	<u>Class 12 not exceeding 1.5m deep</u>			-	-
20.52.1	20mm Ø pipe	m	1	100.71	100.71
20.52.2	25mm Ø pipe	m	1	101.72	101.72
20.52.3	32mm Ø pipe	m	1	102.83	102.83
20.52.4	40mm Ø pipe	m	1	104.06	104.06
20.52.5	50mm Ø pipe	m	1	113.02	113.02
20.52.6	65mm Ø pipe	m	1	121.47	121.47
20.52.7	75mm Ø pipe	m	1	121.47	121.47
20.52.8	90mm Ø pipe	m	1	145.27	145.27
20.52.9	110mm Ø pipe	m	1	173.05	173.05
20.53	<u>Plasson compression fittings</u>			-	-
20.53.1	20mm fittings	no	1	38.93	38.93
20.53.2	25mm fittings	no	1	41.13	41.13
20.53.3	32mm Elbow	no	1	42.83	42.83
20.53.4	40mm Elbow	no	1	47.11	47.11
20.53.5	50mm Elbow	no	1	51.82	51.82
20.53.6	65mm Elbow	no	1	57.00	57.00
20.53.7	32mm Tee	no	1	42.83	42.83
20.53.8	40mm Tee	no	1	47.11	47.11

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20.53.9	50mm Tee	no	1	51.82	51.82
				-	
20.53.10	65mm Tee	no	1	57.00	57.00
				-	
20.53.11	32mm Coupler / Adaptor	no	1	42.83	42.83
				-	
20.53.12	40mm Coupler / Adaptor	no	1	47.11	47.11
				-	
20.53.13	50mm Coupler / Adaptor	no	1	51.82	51.82
				-	
20.53.14	65mm Coupler / Adaptor	no	1	57.00	57.00
				-	
20.53.15	20mm 1/2" Plasson Saddle 2- Bolt	no	1	57.94	57.94
				-	
20.53.15a	20mm 3/4" Plasson Saddle 2- Bolt	no	1	57.94	57.94
				-	
20.53.15b	20mm 1" Plasson Saddle 2- Bolt	no	1	57.94	57.94
				-	
20.53.16	25mm 1/2" Plasson Saddle 2- Bolt	no	1	60.00	60.00
				-	
20.53.16a	25mm 3/4" Plasson Saddle 2- Bolt	no	1	60.00	60.00
				-	
20.53.16b	25mm 1" Plasson Saddle 2- Bolt	no	1	60.00	60.00
				-	
20.53.17	32mm 1/2" Plasson Saddle 2- Bolt	no	1	64.24	64.24
				-	
20.53.17a	32mm 3/4" Plasson Saddle 2- Bolt	no	1	64.24	64.24
				-	
20.53.17b	32mm 1" Plasson Saddle 2- Bolt	no	1	64.24	64.24
				-	
20.53.18	40mm 1/2" Plasson Saddle 2- Bolt	no	1	70.55	70.55
				-	
20.53.18a	40mm 3/4" Plasson Saddle 2- Bolt	no	1	70.55	70.55
				-	
20.53.18b	40mm 1" Plasson Saddle 2- Bolt	no	1	70.55	70.55
				-	
20.53.19	50mm 1/2" Plasson Saddle 2- Bolt	no	1	77.44	77.44
				-	
20.53.19a	50mm 3/4" Plasson Saddle 2- Bolt	no	1	77.44	77.44
				-	
20.53.19b	50mm 1" Plasson Saddle 2- Bolt	no	1	77.44	77.44
				-	
20.53.20	63mm 1/2" Plasson Saddle 2- Bolt	no	1	130.33	130.33
				-	
20.53.20a	63mm 3/4" Plasson Saddle 4 - Bolt	no	1	130.33	130.33
				-	
20.53.20b	63mm 1" Plasson Saddle 4 - Bolt	no	1	130.33	130.33
				-	
20.53.20c	63mm 1.1/4" Plasson Saddle 4 - Bolt	no	1	130.33	130.33
				-	
20.53.21	75mm 1/2" Plasson Saddle 4 - Bolt	no	1	157.04	157.04
				-	
20.53.21a	75mm 3/4" Plasson Saddle 4 - Bolt	no	1	157.04	157.04
				-	
20.53.21b	75mm 1" Plasson Saddle 4 - Bolt	no	1	157.04	157.04
				-	
20.53.21c	75mm 1.1/4" Plasson Saddle 4 - Bolt	no	1	157.04	157.04

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.53.22	90mm 1/2" Plasson Saddle 4 - Bolt	no	1	183.28	183.28
20.53.22a	90mm 3/4" Plasson Saddle 4 - Bolt	no	1	183.28	183.28
20.53.22b	90mm 1" Plasson Saddle 4 - Bolt	no	1	183.28	183.28
20.53.22c	90mm 1.1/4" Plasson Saddle 4 - Bolt	no	1	183.28	183.28
20.53.23	110mm 1/2" Plasson Saddle 4 - Bolt	no	1	223.16	223.16
20.53.23a	110mm 3/4" Plasson Saddle 4 - Bolt	no	1	223.16	223.16
20.53.23b	110mm 1" Plasson Saddle 4 - Bolt	no	1	223.16	223.16
20.53.23c	110mm 1.1/4" Plasson Saddle 4 - Bolt	no	1	223.16	223.16
20.53.24	20mm x 1/2" Plasson Male / Female Adaptor	no	1	65.61	65.61
20.53.25	25mm x 1/2" Plasson Male / Female Adaptor	no	1	72.70	72.70
20.53.26	32mm x 1/2", 3/4", 1" Plasson Male / Female Adaptor	no	1	86.02	86.02
20.53.27	40mm x 1/2, 3/4", 1" Plasson Male / Female Adaptor	no	1	134.58	134.58
20.53.28	50mm x 1/2", 3/4", 1" Plasson Male / Female Adaptor	no	1	161.27	161.27
20.53.29	63mm x 1/2", 3/4", 1" Plasson Male / Female Adaptor	no	1	235.11	235.11
20.53.30	75mm x 1/2", 3/4", 1" Plasson Male / Female Adaptor	no	1	349.01	349.01
20.53.31	90mm x 1/2", 3/4", 1" Plasson Male / Female Adaptor	no	1	545.87	545.87
20.53.32	110mm x 2"or 3" or 4" Plasson Male / Female Adaptor	no	1	926.36	926.36
	<u>Sprinklers and hoses</u>				
20.53.33	Hunter or equivalent Code "PGJ-4" 19cm, pop up height 10cm spray radius 4.9 - 14m	no	1	312.90	312.90
20.53.34	Hunter or equivalent Code "PGP-00" 19cm, pop up height 10cm spray radius 4.9 - 14m	no	1	327.08	327.08
20.53.35	20mm Field Nozzle and Sprinkler Code "5004"	no	1	495.60	495.60
20.53.36	Hunter or equivalent Code "I-25" 43cm, spray radius 40-71m for timer	no	1	1 037.40	1 037.40
20.53.37	Hunter or equivalent Code "I-90" 43cm, spray radius 73-104m for timer	no	1	3 648.75	3 648.75
20.53.38	Hunter or equivalent Code "01104 -Gold Range" 43cm, complete sprinkler with valve spray radius 22.3-31.7m for timer	no	1	5 841.15	5 841.15

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.54.	<u>Locate, isolate affected area, excavate for and replace damage to Galvanised Steel water supply line and / or fittings in landscaped areas not exceeding 1m deep including backfilling, compacting, etc. and leave in good working order.</u>			-	
20.54.1	15mm Ø pipe	m	1	169.32	169.32
20.54.2	20mm Ø pipe	m	1	186.24	186.24
20.54.3	25mm Ø pipe	m	1	204.87	204.87
20.54.4	32mm Ø pipe	m	1	225.36	225.36
20.54.5	40mm Ø pipe	m	1	247.90	247.90
20.54.6	50mm Ø pipe	m	1	272.69	272.69
20.54.7	65mm Ø pipe	m	1	299.95	299.95
20.55	<u>Galvanised Steel fittings</u>			-	
20.55.1	15mm fittings	no	1	6.44	6.44
20.55.2	20mm fittings	no	1	7.09	7.09
20.55.3	25mm fittings	no	1	7.80	7.80
20.55.4	32mm bend	no	1	8.57	8.57
20.55.5	40mm bend	no	1	9.44	9.44
20.55.6	50mm bend	no	1	10.38	10.38
20.55.7	65mm bend	no	1	11.42	11.42
20.55.8	32mm tee / reducing tee	no	1	6.60	6.60
20.55.9	40mm tee / reducing tee	no	1	9.67	9.67
20.55.10	50mm tee / reducing tee	no	1	10.64	10.64
20.55.11	65mm tee / reducing tee	no	1	11.71	11.71
20.55.12	32mm union	no	1	8.57	8.57
20.55.13	40mm union	no	1	9.44	9.44
20.55.14	50mm union	no	1	10.38	10.38
20.55.15	65mm union	no	1	11.42	11.42
				-	
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				-	
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				-	
				-	

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.56	<u>REPLACE DAMAGED WATER PIPE AND FITTINGS</u>			-	
				-	
	<u>Locate, isolate affected area and replace damage to Galvanised Steel water supply line and / or fittings including holderbats, pipe clips, etc. as necessary and leave in good working order.</u>			-	
20.56.1	15mm Ø pipe	m	1	169.32	169.32
20.56.2	20mm Ø pipe	m	1	186.24	186.24
20.56.3	25mm Ø pipe	m	1	204.87	204.87
20.56.4	32mm Ø pipe	m	1	225.36	225.36
20.56.5	40mm Ø pipe	m	1	247.90	247.90
20.56.6	50mm Ø pipe	m	1	272.69	272.69
20.56.7	65mm Ø pipe	m	1	299.95	299.95
20.57.	<u>Galvanised Steel fittings</u>			-	
20.57.1	15mm fittings	no	1	6.44	6.44
20.57.2	20mm fittings	no	1	7.09	7.09
20.57.3	25mm fittings	no	1	7.80	7.80
20.57.4	32mm bend	no	1	8.57	8.57
20.57.5	40mm bend	no	1	9.44	9.44
20.57.6	50mm bend	no	1	10.38	10.38
20.57.7	65mm bend	no	1	11.42	11.42
20.57.8	32mm tee / reducing tee	no	1	6.60	6.60
20.57.9	40mm tee / reducing tee	no	1	9.67	9.67
20.57.10	50mm tee / reducing tee	no	1	10.64	10.64
20.57.11	65mm tee / reducing tee	no	1	11.71	11.71
20.57.12	32mm union	no	1	8.57	8.57
20.57.13	40mm union	no	1	9.44	9.44
20.57.14	50mm union	no	1	10.38	10.38
20.57.15	65mm union	no	1	11.42	11.42
				-	
				-	
				-	

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.58.	<u>Locate, isolate affected area and replace damage to SABS 460 Class 0 hard drawn Copper piping and / or fittings including holderbats, pipe clips, etc. as necessary and leave in good working order.</u>			-	
20.58.1	15mm Pipes	m	1	43.52	43.52
20.58.2	22mm pipes	m	1	77.19	77.19
20.58.3	28mm pipes	m	1	84.91	84.91
20.58.4	35mm pipes	m	1	93.40	93.40
20.59.	<u>Conex Compression fittings</u>			-	
20.59.1	15mm fittings	no	1	28.98	28.98
20.59.2	22mm fittings	no	1	31.88	31.88
20.59.3	28mm fittings	no	1	35.07	35.07
20.59.4	35mm bend	no	1	38.58	38.58
20.59.5	35mm tee	no	1	38.58	38.58
20.59.6	35mm reducer tee	no	1	39.53	39.53
20.59.7	35mm union	no	1	38.58	38.58
20.59.8	15mm Straight Coupler "Code D604M-15"	no	1	50.92	50.92
20.59.9	22mm Straight Coupler "Code D604M-22"	no	1	52.84	52.84
20.59.10	28mm Straight Coupler "Code D604M-28"	no	1	74.21	74.21
20.59.11	35mm Straight Coupler "Code D604M-35"	no	1	151.56	151.56
20.59.12	42mm Straight Coupler "Code D604M-42"	no	1	171.82	171.82
20.59.13	54mm Straight Coupler "Code D604M-54"	no	1	257.62	257.62
20.59.14	76mm Straight Coupler "Code D604M-76"	no	1	646.10	646.10
20.60.	<u>Copcal Capillary fittings</u>			-	
20.60.1	15mm fittings	no	1	28.98	28.98
20.60.2	22mm fittings	no	1	31.88	31.88
20.60.3	28mm fittings	no	1	35.07	35.07
20.60.4	35mm bend	no	1	38.58	38.58
20.60.5	35mm tee	no	1	38.58	38.58
20.60.6	35mm reducer tee	no	1	39.53	39.53

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.60.7	35mm union	no	1	38.58	38.58
20.61.	<u>Sundries</u>			-	-
20.61.1	Carefully chase brickwork / concrete exposing damaged piping and / or fitting not exceeding 35mm diameter including making good plaster on completion (ceramic tiling and replacement elsewhere).	m	1	82.64	82.64
20.61.2	Carefully chase brickwork / concrete exposing damaged piping and / or fitting not exceeding 35mm diameter including making good plaster and paint to match existing on completion (replacement elsewhere).	m	1	82.64	82.64
20.61.3	Apply new ceramic tiles to plastered or screeded finish including tile adhesive and grouting to match existing (in patches).	m²	1	244.86	244.86
	<u>REPLACE DAMAGED ELECTRIC WATER HEATERS AND ACCESSORIES</u>			-	-
	Note : All repairs, servicing and replacement to geysers shall comply with SANS 10254 Dated 15/10/2004			-	-
20.62.	<u>KWIKOT OR EQUIVALENT: Geyser with a 5-year warranty</u>			-	-
	<u>Locate damage, isolate affected area including draining existing geyser, uncoupling water and electrical connection, lift and remove where required and replace with new geyser and / or accessories complete with re-fitting connections and bond to earth, all fixings, mountings brackets, etc. and leave in good working order.</u>			-	-
20.62.1	100 Litre standard high pressure universal wall or roof void mounted water heater complete with connection points for water inlet and outlet, safety valve connection point, sacrificial anode, spiral element and adjustable thermostat, drip tray, vacuum breakers (all other accessories elsewhere).	no	1	4 841.55	4 841.55
20.62.2	150 Litre standard high pressure universal wall or roof void mounted water heater complete with connection points for water inlet and outlet, safety valve connection point, sacrificial anode, spiral element and adjustable thermostat, drip tray, vacuum breakers (all other accessories elsewhere).	no	1	6 051.94	6 051.94
20.62.3	200 Litre standard high pressure universal wall or roof void mounted water heater complete with connection points for water inlet and outlet, safety valve connection point, sacrificial anode, spiral element and adjustable thermostat, drip tray, vacuum breakers (all other accessories elsewhere).	no	1	7 564.93	7 564.93
20.62.4	150 Litre solar water heater roof mounted water heater including solar heating panel complete with connection points for water inlet and outlet, safety valve connection point, sacrificial anode, spiral element and adjustable thermostat, drip tray, vacuum breakers (all other accessories elsewhere).	no	1	17 040.03	17 040.03
				-	-

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20.62.5	200 Litre solar water heater roof mounted water heater including solar heating panel complete with connection points for water inlet and outlet, safety valve connection point, sacrificial anode, spiral element and adjustable thermostat, drip tray, vacuum breakers (all other accessories elsewhere).	no	1	18 642.75	18 642.75
	<u>HEAT PUMPS: KWIKOT OR QUIVALENT</u>			-	-
	<u>Supply and install heat pumps complete with pipes, valves, vacuum breakers etc</u>			-	-
20.62.6	Intergrated 190 heat pump	no	1	15 997.98	15 997.98
20.62.7	Retrofit 3.0kW heat pump "Code HP-3.0W"	no	1	16 992.74	16 992.74
20.62.8	Retrofit 4.7 kW heat pump :Code HP-4.7W"	no	1	20 508.49	20 508.49
20.62.9	Retrofit 7.2kW heat pump	no	1	23 584.76	23 584.76
	<u>HYDRO BOILER supply and install complete with a 1-year warranty</u>			-	-
20.62.10	2.5 Lt Kwikot Kwikboil or equivalent Instant Water Dispensor	no	1	7 499.62	7 499.62
20.62.11	5.0 Lt Kwikot Kwikboil or equivalent Instant Water Dispensor	no	1	8 471.33	8 471.33
20.62.12	7.5 Lt Kwikot Kwikboil or equivalent Instant Water Dispensor	no	1	9 547.65	9 547.65
20.63	<u>Replacement Accessories</u>			-	-
20.63.1	20mm Brass cold water inlet and draincock	no	1	429.73	429.73
20.63.2	20mm Brass temperature and pressure relief valve	no	1	459.95	459.95
20.63.3	Spiral element with thermostat pocket for 2, 3 or 4kW thermostat (thermostat elsewhere).	no	1	442.82	442.82
20.63.4	Sacrificial anode to match existing	no	1	442.97	442.97
20.63.5	2kW thermostat integrated double pole contact	no	1	506.77	506.77
20.63.6	3kW thermostat integrated double pole contact	no	1	557.45	557.45
20.63.7	4kW thermostat integrated double pole contact	no	1	613.20	613.20
20.63.8	20mm MI or 22mm CxC Brass vacuum breaker	no	1	365.94	365.94
20.63.9	22mm CxC Brass Hi-Flow Mono 100 or 200kPa pressure control valve with integral expansion relief valve.	no	1	459.95	459.95
20.63.10	22mm CxC Brass Hi-Flow Mono 400 or 600kPa pressure control valve with integral expansion relief valve.	no	1	654.83	654.83
20.63.11	20mm MI or 22mm CxC Brass Hi-Flow Mono 100 or 200kPa pressure control valve with integral isolating valve and expansion relief.	no	1	654.83	654.83

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20.63.12	20mm MI or 22mm CxC Brass Hi-Flow Mono 400 or 600kPa pressure control valve with integral isolating valve and expansion relief.	no	1	840.29	840.29
20.64.	<u>Sundries</u>			-	-
				-	-
20.64.1	Drain water heater, isolate and uncouple water and electrical connections, lift water heater, replace / install new uPVC tray complete with 40mm diameter outlet and discharge pipe not exceeding 5m long, and re-fit connection on completion.	no	1	1 168.65	1 168.65
20.64.2	Drain water heater, isolate and uncouple water and electrical connections and remove existing geyser / water heater	no	1	389.55	389.55
20.64.3	Allowance for new piping into an existing geyser, vacuum breakers and presure valve measured elsewhere	no	1	333.90	333.90
20.65.	<u>REPLACE DAMAGED FIRE APPLIANCES, ETC</u>			-	-
	<u>Locate damage, isolate affected area, drain existing pipe system where required, and replace with new SABS approved fitting including all fixings, mountings brackets, etc. and leave in good working order.</u>			-	-
20.65.1	Hose reel complete with 30m x 19mm diameter rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket.	no	1	1 531.49	1 531.49
20.65.2	Hose reel complete with 30m x 19mm diameter plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket.	no	1	1 531.49	1 531.49
20.65.3	9kg Dry chemical fire extinguisher	no	1	1 040.66	1 040.66
20.65.4	4,5kg Carbon dioxide fire extinguisher	no	1	676.43	676.43
20.65.5	4,5kg Carbon dioxide fire extinguisher	no	1	676.43	676.43
20.65.6	100mm Diameter 2500 kPa pressure gauge and stopcock	no	1	388.16	388.16
20.65.7	80 x 65mm Brass hydrant booster connection with cap and chain	no	1	1 668.72	1 668.72
20.65.8	80 x 65mm Brass double hydrant booster connection with cap and chain	no	1	1 919.03	1 919.03
20.65.9	Hose reel cabinet according to SABS 1475 Regulations	no	1	3 470.89	3 470.89
20.66.	<u>Sundries</u>			-	-
				-	-
20.66.1	Fire hydrant pedestal comprising of unreinforced concrete 900mm high cast around vertical pipe with bottom 300mm below ground, 300 x 300mm square at base and tapering to octagonal shaped top 200 x 200mm overall including necessary excavations, formwork and two coats of paint to exposed surfaces.	no	1	2 606.77	2 606.77
20.66.2	Bracket for Fire Extinguisher supply and install complete	no	1	106.85	106.85

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20.66.3	290 x 290 Extinguisher signs	no	1	44.52	44.52
	<u>Servicing of Fire Extinguishers including re-fill</u>			-	
20.66.4	2.5kg dry chemical powder fire extinguisher	no	1	99.72	99.72
20.66.5	4.5kg dry chemical powder fire extinguisher	no	1	112.19	112.19
20.66.6	9kg dry chemical powder fire extinguisher	no	1	122.16	122.16
20.66.7	Testing and servicing of Fire Hydrants	no	1	946.05	946.05
	<u>AQUATICS</u>			-	
20.67	<u>Water Cleansing and Disinfection Chemicals</u>			-	
20.67.1	25kg Chlorine Chips - HTH Scientific Chips or equivalent	no	1	713.79	713.79
20.67.2	28kg Pool Acid - Hydrochloric Acid 30%	no	1	116.80	116.80
20.67.3	20kg Pool Stabilizer - STAB 20	no	1	609.05	609.05
	<u>Pool testing</u>			-	
20.68.1	DPD Testing Liquid - Controller Reagents	no	1	696.88	696.88
	<u>Taking out and removing piping, fittings, etc. including cutting off as necessary, disconnecting piping from fittings and making good floor and wall finishes</u>			-	
20.69.				-	
20.69.1	Pump strainer box set	no	1	150.26	150.26
20.69.2	160mm Diameter PVC pipe and setting aside for re-use	m	1	48.97	48.97
20.69.3	160mm Diameter PVC pipe and setting aside for re-use	m	1	48.97	48.97
20.69.4	200mm Diameter PVC pipe and setting aside for re-use	m	1	48.97	48.97
20.69.5	300mm Diameter flanged steel pipe	m	1	61.22	61.22
20.69.6	160mm Diameter valve and setting aside for re-use	no	1	94.61	94.61
	<u>ACQUATICS</u>			-	
	<u>WATER SUPPLIES - TO SWIMMING POOLS</u>			-	
20.70.	<u>uPVC class 4 pressure pipes with integral rubber ring joint, Excavation (bedding and backfill elsewhere)</u>			-	
20.70.1	50mm Pipe	m	1	22.43	22.43
20.70.2	63mm Pipe	m	1	25.38	25.38
20.70.3	75mm Pipe	m	1	30.13	30.13
20.70.4	90mm Pipe	m	1	42.14	42.14

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20.70.5	110mm Pipe	m	1	57.32	57.32
20.70.6	125mm Pipe	m	1	72.23	72.23
20.70.7	140mm Pipe	m	1	86.61	86.61
20.70.8	160mm Pipe	m	1	111.28	111.28
20.70.9	200mm Pipe	m	1	162.20	162.20
20.70.10	250mm Pipe	m	1	251.22	251.22
20.70.11	315mm Pipe	m	1	375.91	375.91
20.71.	<u>uPVC class 6 pressure pipes with integral rubber ring joint</u>			-	-
20.71.1	50mm Pipe	m	1	24.36	24.36
20.71.2	63mm Pipe	m	1	28.60	28.60
20.71.3	75mm Pipe	m	1	39.40	39.40
20.71.4	90mm Pipe	m	1	54.75	54.75
20.71.5	110mm Pipe	m	1	64.71	64.71
20.71.6	125mm Pipe	m	1	81.31	81.31
20.71.7	140mm Pipe	m	1	99.45	99.45
20.71.8	160mm Pipe	m	1	127.29	127.29
20.71.9	200mm Pipe	m	1	193.31	193.31
20.71.10	250mm Pipe	m	1	301.25	301.25
20.71.11	315mm Pipe	m	1	448.80	448.80
20.72.	<u>uPVC class 9 pressure pipes with integral rubber ring joint</u>			-	-
20.72.1	50mm Pipe	m	1	27.75	27.75
20.72.2	63mm Pipe	m	1	37.47	37.47
20.72.3	75mm Pipe	m	1	50.43	50.43
20.72.4	90mm Pipe	m	1	68.45	68.45
20.72.5	110mm Pipe	m	1	85.91	85.91
20.72.6	125mm Pipe	m	1	109.80	109.80
20.72.7	140mm Pipe	m	1	136.69	136.69
20.72.8	160mm Pipe	m	1	177.94	177.94

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20.72.9	200mm Pipe	m	1	261.52	261.52
				-	
20.72.10	250mm Pipe	m	1	421.24	421.24
				-	
20.72.11	315mm Pipe	m	1	625.99	625.99
				-	
20.73.	<u>uPVC class 12 pressure pipes with integral rubber ring joint</u>			-	
				-	
20.73.1	50mm Pipe	m	1	32.20	32.20
				-	
20.73.2	63mm Pipe	m	1	47.24	47.24
				-	
20.73.3	75mm Pipe	m	1	64.22	64.22
				-	
20.73.4	90mm Pipe	m	1	89.81	89.81
				-	
20.73.5	110mm Pipe	m	1	107.76	107.76
				-	
20.73.6	125mm Pipe	m	1	136.58	136.58
				-	
20.73.7	140mm Pipe	m	1	173.63	173.63
				-	
20.73.8	160mm Pipe	m	1	221.50	221.50
				-	
20.73.9	200mm Pipe	m	1	340.48	340.48
				-	
20.73.10	250mm Pipe	m	1	533.25	533.25
				-	
20.73.11	315mm Pipe	m	1	751.72	751.72
				-	
20.74	<u>PVC Fittings for uPVC pipes</u>			-	
				-	
20.74.1a	63mm Serrated stub	no	1	80.59	80.59
				-	
20.74.1b	75mm Serrated stub	no	1	83.97	83.97
				-	
20.74.1	90mm Serrated stub	no	1	95.92	95.92
				-	
20.74.2	110mm Serrated stub	no	1	105.58	105.58
				-	
20.74.3a	125mm Serrated stub	no	1	244.65	244.65
				-	
20.74.3b	140mm Serrated stub	no	1	266.14	266.14
				-	
20.74.3	160mm Serrated stub	no	1	231.95	231.95
				-	
20.74.4	200mm Serrated stub	no	1	502.95	502.95
				-	
20.74.5	250mm Serrated stub	no	1	993.16	993.16
				-	
20.74.6a	50mm Tee	no	1	55.63	55.63
				-	
20.74.6b	63mm Tee	no	1	70.92	70.92
				-	
20.74.6c	75mm Tee	no	1	110.92	110.92
				-	

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.74.6	90mm Tee	no	1	150.59	150.59
				-	
20.74.7	110mm Tee	no	1	215.10	215.10
				-	
20.74.8	160mm Tee	no	1	533.73	533.73
				-	
20.74.9	200mm Tee	no	1	820.96	820.96
				-	
20.74.10	250mm Tee	no	1	1 615.40	1 615.40
				-	
20.74.11a	45° x 50mm Elbow	no	1	57.53	57.53
				-	
20.74.11b	45° x 63mm Elbow	no	1	75.79	75.79
				-	
20.74.11c	45° x 75mm Elbow	no	1	105.58	105.58
				-	
20.74.11	45° x 90mm Elbow	no	1	135.38	135.38
				-	
20.74.12	45° x 110mm Elbow	no	1	244.90	244.90
				-	
20.74.12a	45° x 160mm Elbow	no	1	381.47	381.47
				-	
20.74.13	45° x 200mm Elbow	no	1	588.03	588.03
				-	
20.74.13a	45° x 250mm Elbow	no	1	523.04	523.04
				-	
20.74.14a	90° x 50mm Elbow	no	1	50.27	50.27
				-	
20.74.14	90° x 63mm Elbow	no	1	61.09	61.09
				-	
20.74.14b	90° x 75mm Elbow	no	1	103.35	103.35
				-	
20.74.15	90° x 90mm Elbow	no	1	130.76	130.76
				-	
20.74.16	90° x 110mm Elbow	no	1	170.43	170.43
				-	
20.74.16a	90° x 160mm Elbow	no	1	671.94	671.94
				-	
20.74.17	90° x 200mm Elbow	no	1	1 466.40	1 466.40
				-	
20.74.18	90° x 250mm Elbow	no	1	4 446.16	4 446.16
				-	
20.74.19	110 x 90mm Reducing socket plain	no	1	181.87	181.87
				-	
20.74.19a	160 x 110mm Reducing socket plain	no	1	547.12	547.12
				-	
20.74.19b	250 x 200mm Reducing socket plain	no	1	1 066.38	1 066.38
				-	
20.74.20a	63 x 50mm Reducing bush plain	no	1	39.65	39.65
				-	
20.74.20b	75 x 63mm Reducing bush plain	no	1	77.27	77.27
				-	
20.74.20c	90 x 75mm Reducing bush plain	no	1	63.88	63.88
				-	
20.74.20d	110 x 63mm Reducing bush plain	no	1	81.14	81.14

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.74.20e	110 x 90mm Reducing bush plain	no	1	- 81.14	81.14
20.74.20	140 x 110mm Reducing bush plain	no	1	- 250.25	250.25
20.74.21	160 x110mm Reducing bush plain	no	1	- 334.43	334.43
20.74.21a	160 x140mm Reducing bush plain	no	1	- 275.14	275.14
20.74.22	200 x160mm Reducing bush plain	no	1	- 463.05	463.05
20.74.22a	250 x160mm Reducing bush plain	no	1	- 1 294.13	1 294.13
20.74.22b	250 x200mm Reducing bush plain	no	1	- 1 294.13	1 294.13
20.74.23	63mm Cap	no	1	- 45.77	45.77
20.74.24	90mm Cap	no	1	- 91.13	91.13
20.74.25	110mm Cap	no	1	- 121.35	121.35
20.74.25a	140mm Cap	no	1	- 321.24	321.24
20.74.26	160mm Cap	no	1	- 280.03	280.03
20.74.27	200mm Cap	no	1	- 1 409.53	1 409.53
20.74.27a	250mm Cap	no	1	- 1 412.15	1 412.15
20.74.28	63mm Socket	no	1	- 46.53	46.53
20.74.28a	75mm Socket	no	1	- 77.96	77.96
20.74.29	90mm Socket	no	1	- 110.61	110.61
20.74.30	110mm Socket	no	1	- 147.56	147.56
20.74.31	160mm Socket	no	1	- 301.73	301.73
20.74.32	200mm Socket	no	1	- 948.32	948.32
20.74.32a	250mm Socket	no	1	- 1 697.84	1 697.84
20.74.33a	50mm Union	no	1	- 137.09	137.09
20.74.33	63mm Union	no	1	- 181.05	181.05
20.74.34	75mm Union	no	1	- 510.40	510.40
20.74.35	90mm Union	no	1	- 625.85	625.85
20.74.36	110mm Union	no	1	- 740.91	740.91
20.74.37	160mm Union	no	1	- 963.18	963.18
20.74.38	200mm Union	no	1	- 1 252.14	1 252.14

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.74.39a	50mm Valve PVC Double union	no	1	360.48	360.48
				-	
20.74.39	63mm Valve PVC Double union	no	1	530.63	530.63
				-	
20.74.40a	75mm Valve PVC Double union	no	1	1 546.94	1 546.94
				-	
20.74.40	90mm Valve PVC Double union	no	1	1 546.94	1 546.94
				-	
20.74.41	110mm Valve PVC Double union	no	1	1 664.33	1 664.33
				-	
20.74.42	160mm Valve PVC Double union	no	1	2 042.35	2 042.35
				-	
20.74.43	200mm Valve PVC Double union	no	1	935.74	935.74
				-	
20.74.44	63mm Diameter clips	no	1	84.26	84.26
				-	
20.74.45	90mm Diameter clips	no	1	177.81	177.81
				-	
20.74.46	110mm Diameter clips	no	1	191.78	191.78
				-	
20.74.47	160mm Diameter clips	no	1	375.49	375.49
				-	
20.74.48	200mm Double clips	no	1	375.49	375.49
				-	
20.74.49	160 x 63mm "Aquatek" saddle	no	1	137.98	137.98
				-	
20.74.50	PVC Saddle 110 x 2" - 4 Bolt	no	1	137.98	137.98
				-	
20.74.51	PVC Saddle 160 x 2" - 6 Bolt	no	1	459.58	459.58
				-	
20.74.52	PVC Saddle 200 x 2" - 6 Bolt	no	1	459.58	459.58
				-	
20.74.53	90 ⁰ x 63mm Bend	no	1	338.23	338.23
				-	
20.74.54	90 ⁰ x 75mm Bend	no	1	395.06	395.06
				-	
20.74.55	90 ⁰ x 90mm Bend	no	1	484.51	484.51
				-	
20.74.56	90 ⁰ x 110mm Bend	no	1	534.82	534.82
				-	
20.74.57	90 ⁰ x 160mm Bend	no	1	1 139.80	1 139.80
				-	
20.74.58	90 ⁰ x 200mm Bend	no	1	1 799.90	1 799.90
				-	
20.74.59	90 ⁰ x 200mm Bend	no	1	1 799.90	1 799.90
				-	
20.75.	<u>Stainless steel SH10 316 Grade pipes</u>			-	
				-	
20.75.1	50mm Pipe	m	1	856.69	856.69
				-	
20.75.2	100mm Pipe	m	1	1 079.42	1 079.42
				-	
20.75.3	150mm Pipe	m	1	1 454.88	1 454.88
				-	
20.75.4	150mm Pipe off-cuts	m	1	1 454.88	1 454.88
				-	

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20.75.5	200mm Pipe	m	1	3 187.91	3 187.91
				-	
20.75.6	250mm Pipe	m	1	4 153.44	4 153.44
				-	
20.76.	<u>Extra over stainless steel pipes for fittings</u>			-	
				-	
20.76.1	50 x 90 ⁰ Bend	no	1	669.68	669.68
				-	
20.76.2	80 x 90 ⁰ Bend	no	1	736.65	693.00
				-	
20.76.3	100 x 90 ⁰ Bend	no	1	872.93	872.93
				-	
20.76.4	150 x 90 ⁰ Bend	no	1	1 253.07	1 253.07
				-	
20.76.5	200 x 90 ⁰ Bend	no	1	2 984.84	2 984.84
				-	
20.76.6	250 x 90 ⁰ Bend	no	1	4 435.03	4 435.03
				-	
20.77.	<u>Table D304 stainless steel fittings</u>			-	
				-	
20.77.1	50mm Diameter flanges	no	1	510.60	510.60
				-	
20.77.2	80mm Diameter flanges	no	1	643.37	643.37
				-	
20.77.3	100mm Diameter flanges	no	1	776.12	776.12
				-	
20.77.4	125mm Diameter flanges	no	1	977.91	977.91
				-	
20.77.5	150mm Diameter flanges	no	1	1 179.70	1 179.70
				-	
20.77.6	200mm Diameter flanges	no	1	1 793.14	1 793.14
				-	
20.77.7	250mm Diameter flanges	no	1	3 788.01	3 788.01
				-	
20.78.	<u>Table D mild steel fittings</u>			-	
				-	
20.78.1	50mm Diameter flanges	no	1	111.31	111.31
				-	
20.78.2	80mm Diameter flanges	no	1	140.25	140.25
				-	
20.78.3	100mm Diameter flanges	no	1	169.19	169.19
				-	
20.78.4	125mm Diameter flanges	no	1	213.18	213.18
				-	
20.78.5	160mm Diameter flanges	no	1	257.17	257.17
				-	
20.78.6	200mm Diameter flanges	no	1	390.89	390.89
				-	
20.78.7	250mm Diameter flanges	no	1	594.15	594.15
				-	
20.79.	<u>Galvanised fittings</u>			-	
				-	
20.79.1	15mm Equal tee	no	1	6.12	6.12
				-	
20.79.2	22mm Equal tee	no	1	8.26	8.26
				-	
20.79.3	32mm Equal tee	no	1	11.15	11.15

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.79.4	15mm Barrel nipples	no	1	3.76	3.76
20.79.5	22mm Barrel nipples	no	1	5.08	5.08
20.79.6	32mm Barrel nipples	no	1	6.86	6.86
20.80.	<u>"TABLE D" Galvanised backing ring</u>			-	-
20.80.1	63mm Diameter	no	1	147.04	147.04
20.80.2	75mm Diameter	no	1	174.60	174.60
20.80.3	90mm Diameter	no	1	214.01	214.01
20.80.4	110mm Diameter	no	1	253.43	253.43
20.80.5	160mm Diameter	no	1	394.22	394.22
20.80.6	200mm Diameter	no	1	535.02	535.02
20.80.7	90mm Diameter	no	1	214.01	214.01
20.80.8	110mm Diameter	no	1	253.43	253.43
20.80.9	160mm Diameter	no	1	394.22	394.22
20.80.10	200mm Diameter	no	1	535.02	535.02
20.80.11	250mm Diameter	no	1	1 038.26	1 038.26
20.81.	<u>"TYPE BS4504" Galvanised backing ring</u>			-	-
20.81.1	63mm Diameter	no	1	124.41	124.41
20.81.2	75mm Diameter	no	1	151.76	151.76
20.81.3	110mm Diameter	no	1	312.88	312.88
20.81.4	160mm Diameter	no	1	394.22	394.22
20.81.5	200mm Diameter	no	1	535.02	535.02
20.81.6	250mm Diameter	no	1	1 126.36	1 126.36
20.82.	<u>Rubber Flex Couplings fittings</u>			-	-
20.82.1	50mm Rubberflex couple	no	1	331.00	331.00
20.82.2	80mm Rubberflex couple	no	1	456.78	456.78
20.82.3	100mm Rubberflex couple	no	1	630.35	630.35
20.82.4	150mm Rubberflex couple	no	1	869.88	869.88
20.82.5	200mm Rubberflex couple	no	1	1 200.44	1 200.44

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.83.	Flange gaskets			-	
				-	
20.83.1	63mm Diameter gasket	no	1	7.05	7.05
				-	
20.83.2	80mm Diameter gasket	no	1	7.40	7.40
				-	
20.83.3	100mm Diameter gasket	no	1	7.75	7.75
				-	
20.83.4	160mm Diameter gasket	no	1	12.32	12.32
				-	
20.83.5	200mm Diameter gasket	no	1	13.45	13.45
				-	
20.83.6	250mm Diameter gasket	no	1	39.89	39.89
				-	
20.84.	<u>TAPS, VALVES, ETC</u>			-	
				-	
20.84.1	0 - 100KpA PM/63 utility gauge	no	1	73.91	73.91
				-	
				-	
20.84.2	15mm Fullbore ball valve	no	1	41.79	41.79
				-	
20.84.3	50mm Fullbore ball valve	no	1	71.05	71.05
				-	
	<u>FILTER ROOM - Swimming pools</u>			-	
				-	
20.85.	<u>"Colliquip" Industrial Filters or equally approved</u>			-	
				-	
20.85.1	Type "IF 36/1 JHB Type" filter tanks	no	1	20 402.63	20 402.63
				-	
20.85.2	Purpose-made strainer tank complete with pipes and flanges (Steel)	no	1	31 609.20	31 609.20
				-	
20.85.3	40kg Filter bags media 0.6 - 1.5mm grade	no	1	116.48	116.48
				-	
20.86.	<u>"RSV" Valves - To swimming pools</u>			-	
				-	
20.86.1	50mm Diameter RHC c/w CAP/Hand wheel	no	1	2 005.40	2 005.40
				-	
20.86.2	80mm Diameter RHC c/w CAP/Hand wheel	no	1	2 284.80	2 284.80
				-	
20.86.3	100mm Diameter RHC c/w CAP/Hand wheel	no	1	2 806.44	2 806.44
				-	
20.86.4	200mm Diameter RHC c/w CAP/Hand wheel	no	1	6 739.53	6 739.53
				-	
20.86.5	250mm Diameter RHC c/w CAP/Hand wheel	no	1	11 615.73	11 615.73
				-	
20.87.	<u>PVC Butter Fly Valves - To swimming pools</u>			-	
				-	
20.87.1	63mm Diameter	no	1	600.11	600.11
				-	
20.87.2	75mm Diameter	no	1	652.61	652.61
				-	
20.87.3	90mm Diameter	no	1	703.31	703.31
				-	
20.87.4	110mm Diameter	no	1	918.21	918.21
				-	
20.87.5	160mm Diameter	no	1	1 252.41	1 252.41

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20.87.6	200mm Diameter	no	1	1 870.25	1 870.25
20.88.	<u>Gaskets for PVC Stubs</u>			-	-
20.88.1	63mm Diameter	no	1	13.24	13.24
20.88.2	75mm Diameter	no	1	17.23	17.23
20.88.3	90mm Diameter	no	1	22.39	22.39
20.88.4	110mm Diameter	no	1	29.10	29.10
20.88.5	160mm Diameter	no	1	37.84	37.84
20.88.6	200mm Diameter	no	1	56.32	56.32
20.88.7	250mm Diameter	no	1	84.48	84.48
20.89.	<u>Pumps</u>			-	-
20.89.1	Submersible Pumps 0.75kW 220V submersible	no	1	6 539.32	6 539.32
20.89.2	Submersible Pumps 1.1kW 220V submersible	no	1	7 520.22	7 520.22
20.89.3	Submersible Pumps 0.75kW 380V submersible	no	1	12 694.54	12 694.54
20.89.4	Submersible Pumps 1.5kW 380V submersible	no	1	19 041.82	19 041.82
20.90.	<u>MOTORS, PUMPS, ETC.</u>			-	-
20.90.1	7.5kW pump, motor and base set complete with star delta starter	no	1	45 995.76	45 995.76
20.90.2	11.5kW pump, motor and base set complete with star delta starter	no	1	50 595.33	50 595.33
20.90.3	22kW pump, motor and base set complete with star delta starter	no	1	75 893.00	75 893.00
20.90.4	32kW pump, motor and base set complete with star delta starter	no	1	100 368.48	100 368.48
20.90.5	37kW pump, motor and base set complete with star delta starter	no	1	115 423.75	115 423.75
20.91	<u>WATER TANKS - To roofs</u>			-	-
	<u>Supply and install water tanks to roof complete with connectors, pipes, valves, taps, etc. 40mm tank connector, Inlet and over flow with a 40mm fitting, 450mm lid on top of tank. Including hoisting to up to 12m high roof. Pumps measured elsewhere</u>			-	-
20.91.1	2 500 Lt Jojo or equivalent Vertical Water Tank	no	1	6 156.46	6 156.46
20.91.2	5 000 Lt Jojo or equivalent Vertical Water Tank	no	1	9 224.63	9 224.63

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20.91.3	10 000 Lt Jojo or equivalent Vertical Water Tank	no	1	22 175.45	22 175.45
				-	
20.91.4	15 000 Lt Jojo or equivalent Vertical Water Tank	no	1	32 867.37	32 867.37
				-	
20.91.5	20 000 Lt Jojo or equivalent Vertical Water Tank	no	1	47 113.77	47 113.77
				-	
20.92.	PLUMBING WORKS - LABOUR RATES (Limited to Bill no.16 - For items without rates)			-	
				-	
	<u>Normal hours</u>			-	
				-	
20.92.1	General Labour (R200 per day)	hr	1	25.00	25.00
				-	
20.92.2	Semi Skilled (R360 per day)	hr	1	45.00	45.00
				-	
20.92.3	Plumbing Artisan (R560 per day)	hr	1	70.00	70.00
				-	
	<u>After normal hours and Saturdays</u>				
20.92.4	General Labour	hr	1	37.50	37.50
20.92.5	Semi Skilled	hr	1	67.50	67.50
20.92.6	Plumbing Artisan	hr	1	105.00	105.00
				-	
	<u>Sundays and holidays</u>				
20.92.7	General Labour	hr	1	50.00	50.00
20.92.8	Semi Skilled	hr	1	90.00	90.00
20.92.9	Plumbing Artisan	hr	1	140.00	140.00
				-	
20.93.	TESTING AND COMMISSIONING				
20.93.1	Leak detection	no	1	612.15	612.15
20.93.2	Certificate of Compliance for Geyser installations and other new piping installation. (No COC for repair work)	no	1	389.55	389.55
20.100.	POOL HEATING SYSTEM				
	<u>Marshall-Fowler or equally approved</u>				
20.100.1	Model "EW40/380V Electrode hot water heater including shells, electrode assemblies with automatic load adjustment mechanisms, IP54 electrical control panels with controls, safety valves and instruments, all mounted on channel bases and in accordance with specifications	no	1	190 849.50	190 849.50
20.100.2	2500 Litre hot water storage tank, with 450NB flange complete with safety valve, air vent, sockets, lagging and cladding, epoxy coated inside, isolating valve and thermostat	no	1	68 207.48	68 207.48

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Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.100.3	SPT12 Single water softener based on 24hour boiler operation complete with start-up chemicalsto ensure good quality water to boiler system and chemical dosing pump.	no	1	23 292.53	23 292.53
20.100.4	Hot water circulating pump between hotwater heaters, storage tank and plate heat exchanger	no	1	15 628.84	15 628.84
20.100.5	Titanium plate heat exchanger Model APV SR2 MG-16E/1	no	1	60 141.01	60 141.01
20.100.6	Inter-connecting pipework between hotwater heater, storage tank, pumps and heat exchanger complete with 200litre expansion tank, air vent, temperature gauge, lagging, cladding and flow switch.	no	1	66 931.15	66 931.15
20.100.7	Inter-connecting pipework between heat exchanger and swimming pool pumps including modification to water lines, valves and fittings	no	1	29 424.77	29 424.77
20.100.8	Installation and commissioning of complete pool heating reticulation system	no	1	56 211.56	56 211.56
20.101	<u>Skimmers, Weirs and Drains</u>			-	-
	<u>Stainless Steel</u>			-	-
20.101.1	250mm Diameter weir with heavy duty skimmer baskets	no	1	3 587.92	3 587.92
	SINKS AND TABLES			-	-
	<u>Sinks</u>			-	-
	Stainless Steel			-	-
20.102	"Vulcan" or equally approved			-	-
20.102.1	Model "DCBPS 1850" Double Bowl pot sink with splashback	no	1	11 001.84	11 001.84
20.102.2	Model "DCBPS 2250" Double Bowl pot sink with splashback	no	1	12 652.14	12 652.14
20.102.3	Model "DCBS 18" Double Bowl preparation sink with splashback	no	1	10 848.56	10 848.56
20.102.4	Model "DCBS 22" Double Bowl preparation sink with splashback	no	1	12 475.84	12 475.84
20.103.	<u>Swimming Pool Sundries</u>			-	-
20.103.3	"Gingoni" or equally approved			-	-
20.103.4	Code "GR200/X" 200mm wide level deck grid	m	1	379.87	379.87
20.103.5	Code "GR250/X" 250mm wide level deck grid	m	1	382.69	382.69
20.103.6	Code "GR300/X" 300mm wide level deck grid	m	1	430.10	430.10
20.103.8	50m Jumbo (150mm) anti-turbulent swimming lanes complete with stainless steel ratchets	no	1	7 679.70	7 679.70

CONTRACT 494/15 - PANEL OF REPAIRS AND MAINTENANCE
BILL NO.20

				EAC DATE: FEBRUARY 2014	
Item No.	Description	Unit	Qty	Rate	Amount excluding VAT
20.103.9	Storage trolleys and drums for lanes (galvanised) consisting of two trolleys and eleven drums	no	1	37 566.53	37 566.53
20.103.10	Refurbishment of starting blocks and fibreglassing of platforms	no	1	671.97	671.97
20.103.11	25m Jumbo (150mm) anti-turbulent swimming lanes complete with stainless steel ratchets	no	1	3 839.85	3 839.85
20.103.12	Storage trolleys and drums for lanes (galvanised) consisting of one trolley and five drums	no	1	17 407.32	17 407.32