

**SPECIFICATIONS FOR PLUMBING WORK AT THE FLATS. ALL ITEMS INCLUDE SUPPLY AND INSTALL, LABOUR,
TRANSPORT AND VAT**

ITEM#	DESCRIPTION	UNIT MEASURE	RATE
P1	Replace copper pipe and its fittings		
	(a) Replace 15- 20mm diameter copper pipe	m	
	(b) Replace 22-25mm diameter copper pipe	m	
P2	Replace copper fittings 15mm to 25mm(all types)	each	
P3	Replace galvanised pipe and fittings		
	(a) Replace 15 - 32mm galvanised pipe	m	
	(b) Replace 50mm galvanised pipe	m	
	(c) Replace 75mm galvanised pipe	m	
P4	Replace galvanised fittings (all types)		
	(a) 15 - 32mm	each	
	(b) 50mm	each	
	(c) 75mm	each	
P5	Replace PVC high pressure water supply pipes (HDT class 12)including fittings		
	(a) 20mm	m	
	(b) 40mm	m	
	(c) 50mm	m	
	(d) 75mm	m	
	(e) 110mm	m	
P6	Replace PVC high pressure water supply fittings (HDT class 12)		
	(a) 20mm	each	
	(b) 40mm	each	
	(c) 50mm	each	
	(d) 75mm	each	
	(e) 110mm	each	
P7	Replace PVC waste pipes (including fittings)		
	(a) 50mm	m	
P8	Replace PVC fittings		
	(a) 50mm	each	
	(b) 50mm vent valve	each	
P9	Replace sewer pipes excluding fittings		
	(a) 110mm	m	
	(b) 110mm uPVC	m	
	(c) 160mm uPVC	m	
P10	Replace sewer fitting		
	(a) 110mm Straight connector plain	each	
	(b) 110mm Straight connector plain with ie	each	
	(c) 110mm Y Junction plain	each	
	(d) 110mm Y junction with ie	each	
	(e) 110x45 long radius bend plain	each	
	(f) 110x 45 long radius bend with ie	each	

	(g) 110mm T- Section plain	each	
	(h) 110mm T- Section with ie	each	
	(i) 110mm PVC Manhole Channels	each	
	(j) 110 mm Pan Connector plain	each	
	(k) 110mm PVC bend plain	each	
	(l) 110mm PVC bend with IE	each	
	(m) 110mm vent valve	each	
	(n)110x 50mm PVC reducer	each	
	(o) 110mm rodding eye	each	
	(p) 110mm gulley trap	each	
	(q) 160mm Straight connector	each	
	(r) 160mm straight connector with ie	each	
	(s) 160mm Y Junction plain	each	
	(t) 160mm Y Junction with ie	each	
	(u) 160x 45 long radius bend plain	each	
	(v)160x 45 long radius bend with ie	each	
	(w) 160mm T- Section plain	each	
	(x)160mm T- Section with ie	each	
	(y) 160mm PVC Manhole Channels	each	
	(z) 160mm pan connector	each	
	(aa)160x 50mm PVC reducer	each	
	(ab) 160mm to 110mm reducer	each	
	(ac) 160mm pvc bend	each	
	P11 Manholes (including digging and clearing rubble from site)		
	(a) Build manhole and finish with 450 x 450mm concrete cover for rodding eyes	each	
	(b) build manhole 1mx1mx1m	each	
	(c)Replace concrete manhole cover and frame up to 1mx 1m	each	
	(d) Replace concrete manhole Rings up to 2m deep including concrete frame and cover	each	
	(e) replace gulley tops complete including grates	each	
	(f) demolish old manhole and remove from site (fill and compact site)	each	
	P12 Replace galvanised rainwater down pipes or gutters including all accessories (1,2 and 3 storey buildings)		
	(a) 100mm galvanised down pipes	m	
	(b)100mm square gutters	m	
	(c) 150mm Galvanised gutters	m	
	(d) 150mm galvansied Down pipe	m	
	P13 Galvanised Accessories/fitings for rainwater		
	(a) Facia Brackets	each	
	(b) Wall brackets	each	
	(c) Stop Ends	each	
	(d) Shoes	each	
	(e) Outlets	each	
	(f) Remove and clean all debris from gutters and down pipes	m	
	(g) Seamless aluminium gutters 150mm	m	
	(h) Seamless aluminium down pipes 150mm	m	
	P14 Replace water taps including all accessories and make good to match the existing (SABS approved)		
	(a) 15mm to 20mm water tap	each	
	(b) 20mm threaded garden water tap	each	
	(c)Replace tap washers of 15mm and 20mm	each	
	(d) shower/bath mixers	each	
	(e)sink/basin mixers	each	
	P15 Replace gate valves		
	(a) 15 - 20mm gate valve	each	
	(b) 25mm gate valve	each	
	(c) 50mm gate valve	each	
	(d) 75mm gate valve	each	
	(e) 110mm gate valve	each	
	(f) 15 to 20mm ball 'O' stop	each	
	P16 Replace brass stopcock		
	(a) 15- 20mm	each	
	(b) 25mm	each	

	(C) 50mm	each	
	(d) 75mm	each	
	(e) 110mm	each	
	P17 Replace Johnson Coupling for		
	(a) 15- 20mm pipes	each	
	(b) 25mm to 38mm pipes	each	
	(c) 50mm	each	
	(d) 75mm	each	
	(e) viking or cascade clamps for 110mm high pressure pipe	each	
	P18 Toilets/ cistern (SABS approved)		
	(a) Replace 11 litre low level cisterns with all accessories	each	
	(b) Ball valve complete	each	
	(c) Cistern handle	each	
	(d) Beta valve	each	
	(e) Replace flexi connector	each	
	(f) Replace flush pipe and rubber connector	each	
	(g) Secure flush pipe under the cistern	each	
	(h) Replace toilet pan with rubber connector and toilet seat	each	
	(i) Replace double flap toilet seat only(heavy duty plastic seat)	each	
	(j) Seal pan connector	each	
	(k) replace pan connector	each	
	(m) close couple toilets (complete cistern and pan)	each	
	(n) toilet seat and cover for close couple toilet	each	
	(o) ball valve for close couple toilet	each	
	(p) beta valve for close couple toilet	each	
	(q) senior flush master	each	
	(r) junior flush master	each	
	P19 wash hand basin, baths, sinks and showers		
	(a) Replace vitreous china wash hand basin with pedestal (WHB) approximately 550 x 400 mm including splashtiles 600mm long x 300mm high, including all outlets, new trap and sealing with silicon sealer between walls and tiles	each	
	(b) Refit loose wash basin to walls. Reseal with sealing compound between the wall and WHB	each	
	P20 Replace traps to sinks, basins and baths by removing the existing and replace with new. The trap shall be fitted to the plumbing fittings and waste with approved fixing clips. Bath trap with all accessories		
	(a) Bath trap	each	
	(b) Sink Trap	each	
	(c) Shower trap	each	
	(d) Waste fittings (bath, sink , basin urinal etc)	each	
	P21 Baths		
	(a) install bath inspection cover 330 x 330mm including tiles	each	
	(b) Replace 1820x 762mm bath: Break down the walls where applicable . Disconnect and remove bath from site. Provide and install new bath and trap with overflow, fittings and water supply pipes. Build in with inspection hole and cover. Tile all exposed sides of the bath and splashback and seal the joints.	each	
	(c) Remove and refit bath complete with new trap, splashback tiles and seal	each	
	(d) Reseal bath with silicon sealer	each	
	P22 Replace stainles steel sink units with cabinet doors on hinges		
	(a) Disconnect old sink as required. remove it from site. Supply and install new 1200mm single/double bowl sink with white coated steel cabinet , waste pipe and trap as specified. Connect it to existing water supply. New splash back 300mm high to sides (length and width) and seal around with silicon sealing compound, including waste fittings and all accessories. Make good in all trades.	each	
	(b) Replace sink top only	each	
	(c) Refit loose sink and seal it with sealing compound	each	
	P23 Shower		

	(a) Replace shower: Remove existing shower, supply and install new 900x 900mm shower cubical with shower tray including all necessary water pipes work, waste pipes, tiles and sealing of shower	each	
	(b) Replace glass panel and aluminium structure for shower cubical	each	
	(c) Service shower cubical door including all parts required	each	
	(d) Replace shower tray complete with trap, waste connected to system and new tiles	each	
	(e) Demolish shower concrete base: Demolish existing shower concrete base, clean and take away all rubble from site	each	
	(f) Supply and install new 50mm shower rose	each	
	(g) Replace shower floor outlet grate	each	
	(h) seal around shower tray and wall with silicone marine sealer clear or white	each	
P24	REPLACE GEYSER - 400kpa		
	Remove existing burst, leaking or defective geyser, valves, pipes and stopcocks. Replace the geyser with new 400 kpa including +-2m long copper water supply pipes complete with its fittings. The renewal of the geyser must be done according to the manufacturer's specification. Renew pressure control valve , pressure relief valve, non return valve, holder- bats, stopcocks, overflow pipes, opening and closing of ducts for shutoff valve, wall anchors for geysers and electrical connection . Replace geyser isolator. Electrical connections to be declared correct by a qualified electrician as stipulated by the labour Act issue (C.O.C) certificate. Geyser to be installed for easy accessibility to remove or replace thermostat and element. Geyser must be SABS approved unit. (Spares to be freely available). Supply geyser serial number on invoices(old and new). Make good in all trades. Geyser to be securely mounted with maximum rawl bolts/threaded rods.		
	(a) 100L Geyser	each	
	(b) 150L Geyser	each	
P25	GEYSER VALVE		
	(a) Replace pressure valve	each	
	(b) Replace temperature relief valve	each	
	(c) Tighten geyser drain plug	each	
	(d) Replace geyser drain plug	each	
	(e) Replace vacuum breaker	each	
	(f) re-secure geyser to mounting brackets and walls	each	
P26	BLOCKED PIPES		
	(a) Open waste water pipe to bath/shower , basin and sink.	each	
	(b) Open blocked toilet pan	each	
	(c) Open blocked gulley	each	
	(d) Open blocked sewer line (manhole to manhole)	each	
	(e) Open blocked manhole (manhole to manhole)	each	
	(f) chemical for treating drain overflow	each	
	(g) clear stormwater channels/pipes/manholes	each	
P27	chop brick wall and replace bricks/plaster and make good, including repainting or retiling to match existing	sqm	
P28	dig trenches in soil not exceeding 1m wide, compact and level soil, and remove rubble from site and make good		
	(a) upto 1m depth, not exceeding 1m wide	m	
	(b) upto 2m depth, not exceeding 1m wide	m	
P29	remove pavers, dig trenches not exceeding 1m wide, compact and level soil, relay pavers, remove rubble from site and make good.		
	(a) upto 1m depth, not exceeding 1m wide	m	
	(b) upto 2m depth, not exceeding 1m wide	m	
P30	break concrete, dig trenches not exceeding 1m wide, compact and level soil, re-apply concrete, remove rubble from site and make good.		
	(a) upto 1m depth	m	
	(b) upto 2m depth	m	
P31	Plant hire		
	(a) TLB usage per day	per day	
	(b) submersible pump for drain/sewers	per day	
	(c) compactor	per day	

(d) Camera to check inside sewer pipes	per day	
(e) High pressure flushing of sewer lines	each line	
(f) leak detector for burst water pipes	per day	
(g) Jack hammer	per day	
(h)Underground cable fault detection unit	per day	
(i)generator	per day	
(j)Cherry Picker	per day	