

Item	Description	Unit	Rate
C	DEMOLITION AND ALTERATION		
C15	Hack off concrete to remove gutter downpipe and make good works disturbed	no	\$ 14.00
C16	Metal, G.I or plastic gutters not exceeding 450mm girth	m	\$ 1.50
C17	Metal, G.I or plastic gutters exceeding 450mm girth	m	\$ 1.50
	<u>Break up RC perimeter drain, sumps or kerbs, cutting and bending of reinforcement; dispose debris off site</u>		
C18	not exceeding 250mm	m	\$ 4.00
C19	250mm - 300mm	m	\$ 6.00
C20	300mm - 450mm	m	\$ 7.00
C21	450mm - 600mm	m	\$ 8.00
C22	R.C. sump average size 600mm x 600mm wide	no	\$ 30.00
	<u>Break up existing wall including finishes; provide opening including necessary temporary supports; make good works disturbed; clear debris off site</u>		
C23	brickwall half brick thick	m ²	\$ 6.00
C24	brickwall one brick thick	m ²	\$ 11.00
C25	brickwall one and a half brick thick	m ²	\$ 15.00
C26	brickwall two brick thick	m ²	\$ 18.00
C27	Clear glass block	m ²	\$ 10.00
C28	Block wall	m ²	\$ 7.00
	<u>Remove existing ceiling; clear all debris off site</u>		
C29	Softboard, hardboard, gypsum board, cement board or metal ceiling and the likes	m ²	\$ 1.60
C30	Softboard, hardboard, gypsum board, cement board or metal ceiling and the likes; complete with all framing or suspension system	m ²	\$ 2.00
C31	Timber slate	m ²	\$ 3.00
	<u>Remove existing fencing; clear all debris off site</u>		
C32	1200mm high fencing	m	\$ 2.00
C33	1800mm high fencing	m	\$ 3.00
C34	1200mm high fencing post and bracing	no	\$ 3.50
C35	1800mm high fencing post and bracing	no	\$ 4.00
	<u>Remove and dispose off site timber, glass, aluminium doors and the like</u>		
C36	Single leaf	no	\$ 4.00
C37	Double equal leaf	no	\$ 7.00
C38	Double unequal leaf	no	\$ 6.50
	<u>Remove and dispose off site timber, glass, aluminium doors and the like including frames and jambs</u>		
C39	Single leaf	no	\$ 5.00
C40	Double equal leaf	no	\$ 8.00
C41	Double unequal leaf	no	\$ 7.50

Item	Description	Unit	Rate
C	DEMOLITION AND ALTERATION		
	<u>Remove existing: clear debris off site and make good works disturbed</u>		
C42	Window including frame	m ²	\$ 3.00
C43	Safety grilles to door, windows and the like including frame	m ²	\$ 2.00
C44	Timber / Metal collapsible door, including track, frame, accessories	m ²	\$ 4.00
C45	Roller shutter c/w other associate accessories	m ²	\$ 6.00
C46	Flag pole complete with accessories and substructure	no	\$ 25.00
	<u>Handrail consists top rail, bottom rail, intermediate rails and post including cutting and the like</u>		
C47	Corridor	m	\$ 3.00
C48	Staircase	m	\$ 3.00
	<u>Hack or take off existing wall or floor finishes; clear debris off site</u>		
C49	Cement and sand screed and / or finishes to floor, skirting, landing, walls etc. and form keys, clean and wash to receive new finishes	m ²	\$ 5.00
C50	Floor carpet and the like complete with any underlay and remove any adhesive	m ²	\$ 2.50
	<u>Remove existing fittings and fixtures; make good any works disturbed; clear debris off site</u>		
C51	Timber low level cabinet not exceeding 900mm high x 700mm deep	m	\$ 5.00
C52	Timber high level / wall hung cabinet not exceeding 900mm high x 700mm deep	m	\$ 5.00
C53	Timber wardrobe up to ceiling height	m	\$ 10.00
	<u>Remove existing fittings and fixtures; make good any works disturbed; clear debris off site</u>		
C54A	Timber partition	m ²	\$ 5.00
C54B	Timber partition including framing	m ²	\$ 7.00
C55A	Timber cabinets	m ²	\$ 5.00
C55B	Timber cabinets including framing	m ²	\$ 7.00
	<u>Removal of existing Water Tank</u>		
C56	Removal of existing HDPE water tank, including disconnect plumbing connection and disposal offsite.	Lot	\$ 100.00
C57	Removal of existing Metal water tank, including disconnect plumbing connection and disposal offsite.	Lot	\$ 100.00
	<u>Scupper drain</u>		
C59	To hack and form shallow scupper drain 100-150mm wide including tiling if necessary and all necessary works	m	\$ 10.00

Item	Description	Unit	Rate
D	EARTH WORKS & EXCAVATION		
	<u>Imported Fill</u>		
D1	Selected imported dry earth consolidated in layers filling to make up levels	m ³	\$ 5.00
D2	Backfilling around walls and foundations	m ³	\$ 8.50
D3	Hardcore; filling to make up levels well consolidated over 300 mm thick	m ³	\$ 50.00
D4	Hardcore; beds well consolidated 100 mm thick (average); blinding with sand / concrete	m ²	\$ 6.50
D5	150 mm thick (average); blinding with sand / concrete	m ²	\$ 9.00
D	EARTH WORKS & EXCAVATION		
	<u>Sand consolidated in layers</u>		
D6	over 300 mm thick	m ³	\$ 30.00
	<u>Sand consolidated in layers</u>		
D7	50 mm thick (average)	m ²	\$ 2.50
D8	75 mm thick (average)	m ²	\$ 3.50
D9	50mm - 75mm Top Soil	m ²	\$ 3.00
D10	Close turfing using cow grass laying to flat ground	m ²	\$ 3.50
	<u>General excavation depth and dispose off-site</u>		
D11	average 100mm deep	m ²	\$ 1.50
D12	average 200mm deep	m ²	\$ 2.00
D13	over 300mm deep	m ³	\$ 6.00
	<u>Excavate for footing and likes; dispose off-site</u>		
D14	Light-weight machinery	m ³	\$ 9.00
D15	Hand excavation in restricted area	m ³	\$ 20.00
D16	OTHER ITEM NOT INCLUDED		
	Any other related item not specified, please mentioned :-		
	i).....	
	ii).....	
E	ROADWORKS		
	<u>Preparing, trimming, etc sub-grade formation to the required levels, gradients, falls or camber to receive road bottoming, pavement or the like</u>		
E1		m ²	\$ 1.60
	<u>Approved free-draining material (uncrushed stone); beds well consolidated, rolling with approved roller</u>		
E2	150mm thick including extra labour laying to slopes, falls or chamber; blinding with sand	m ²	\$ 12.00
	<u>Bitumen tack coat; B.S. 3690; applied at the rate 2m² - 3m² per litre</u>		
E3	applying on blinded road base surface	m ²	\$ 2.00
E4	applying on asphaltic concrete base course surface	m ²	\$ 2.00
	<u>Asphaltic concrete base course; on road base; rolling with approved roller</u>		
E5	60mm thick after consolidated; laying to slopes, falls and cambers	m ²	\$ 27.00
	<u>Asphaltic concrete wearing course; rolling with approved roller</u>		
E6	40mm thick after consolidated; laying to slopes, falls and cambers	m ²	\$ 20.00

Item	Description	Unit	Rate
F	INSITU CONCRETE & FORMWORK		
F1	Supply and lay 50mm Grade 15 concrete blinding complete with formwork	m ²	\$ 6.00
	<u>Supply and lay concrete in structural works (column, beam, plinth, pile cap, step and staircase)</u>		
F2	Grade 30	m ³	\$ 190.00
F3	Grade 40	m ³	\$ 220.00
	<u>Supply and lay Grade 25 concrete in slab / apron / wall; trowelled smooth</u>		
F4	100mm thick	m ²	\$ 19.00
F5	150mm thick	m ²	\$ 28.00
F6	200 mm thick	m ²	\$ 36.00
F7	250 mm thick	m ²	\$ 42.00
	<u>Supply and lay Grade 30 concrete in slab / apron / wall; trowelled smooth</u>		
F8	100mm thick	m ²	\$ 22.00
F9	150mm thick	m ²	\$ 30.00
F10	200 mm thick	m ²	\$ 38.00
F11	250 mm thick	m ²	\$ 44.00
G	REINFORCEMENT		
	<u>Mild steel bar reinforcement to B.S 4449 to</u> Concrete slabs, walls, beams, columns etc. not exceeding 10mm Ø; links, stirrups, binders		
G1	not exceeding 10mm Ø; links, stirrups, binders	kg	\$ 2.80
G2	10 - 13mm Ø; links, stirrups, binders	kg	\$ 2.60
	<u>High tensile steel bar reinforcement to B.S 4449 to</u> Concrete slabs, walls, beams, columns etc. not exceeding 10mm Ø; general straight and bent bars		
G3	not exceeding 10mm Ø; general straight and bent bars	kg	\$ 2.70
G4	10 - 13mm Ø; general straight and bent bars	kg	\$ 2.60
G5	16 - 25mm Ø; general straight and bent bars	kg	\$ 2.75
G6	exceeding 25mm Ø; general straight and bent bars	kg	\$ 2.80
	<u>BRC steel fabric reinforcement to B.S 4483; well lapped at joints</u> Concrete slabs		
G7	BRC reference A8	m ²	\$ 9.00
G8	BRC reference A7	m ²	\$ 8.00
H	SUNDRIES		
	<u>Waterproofing applied to surfaces of concrete</u> Lay monolithic brush on type CPRU approved waterproofing membrane and finished with 25mm thick cement and sand screed		
H1	floor slabs	m ²	\$ 15.00
H2	walls	m ²	\$ 15.00
H3	flat roofs	m ²	\$ 15.00
H4	sides and bottom of gutters	m ²	\$ 16.00
H5	skirting not exceeding 150mm high overall	m ²	\$ 2.50

Item	Description	Unit	Rate
H	SUNDRIES		
H6	Lay 5mm thick torch on waterproof membrane without granule surface and with approved torch on primer and minimum overlap of 200mm and roll joints of 150mm	m ²	\$ 20.00
H7	Lay 5mm thick torch on waterproof membrane without granule surface and with approved torch on primer and minimum overlap of 100mm and roll joints of 150mm	m ²	\$ 20.00
	Warranty shall be issued by contractor, guaranteeing for the entire works including materials free from defects for a period of not less than five years)		
	<u>Expansion joints</u> Flexcell bitumen impregnated fibre board, sealed at top with Thioflex One polysulphide rubber sealant		
H8	Walls and the like 12.5mm x 12.5mm	m	\$ 25.00
H9	24mm x 24mm	m	\$ 28.00
H10	30mm x 30mm	m	\$ 30.00
H11	Supply and install aluminium plate cover	m	\$ 12.00
I	BRICKWORKS AND BLOCKWORKS		
	<u>Brickwork in first grade common bricks to S.S 103 bedded and jointed in cement mortar (1:3 mix) reinforced with Lysaght expanded metal blockwork reinforcement every third course</u>		
I1	half brick thick 112mm thick	m ²	\$ 22.00
I2	one brick thick 225mm thick	m ²	\$ 42.00
	<u>Plastering to smooth finish including, groove and pattern design to S.O approval</u>		
I3	20mm thick to brickwall	m ²	\$ 10.00
I4	13mm thick to soffit of slab	m ²	\$ 10.00
I5	13mm thick to column and beam	m ²	\$ 10.00
	<u>Lightweight Block</u>		
I6	Supply and install CSR autoclaved lightweight concrete block laid using CSR ALC thin bed adhesive including control joint tie (FBI) to be installed on every third course across 10mm wide control joints as per manufacture specification including plastering	m ²	\$ 55.00
	<u>Glass Block</u>		
	Solaris Glasstein' flemish or cross-ribbed or other equal and approved glass blocks in cement and sand mortar mixed with 'Dribond' or other equal and approved bonding additive; complete with channels, expansion strips, packing, panel reinforcing, panel anchors and other items for complete installation in accordance to the manufacturer's recommendation		
I7	Approx block size: 150 x 150 x 80mm thick	m ²	\$ 200.00
I8	Approx block size: 190 x 190 x 80mm thick	m ²	\$ 230.00

Item	Description	Unit	Rate
J	ROOFING WORKS		
	<u>Supply and lay Kliplok Colorbond 0.53mm Hi-Ten or equivalent roofing sheet including KL65 fixing clip and accessories of selected standard colour, including all sides and end laps (measured net - no allowance for laps)</u>		
J1	Sloping roof	m ²	\$ 60.00
J2	type 1 standard ridge cappings	m	\$ 14.00
J3	type 2 plain edge ridge cappings notched and turned down	m	\$ 14.00
J4	type 3 longitudinal fascia cappings	m	\$ 9.00
J5	type 4 tranverse fascia cappings notched and turned down	m	\$ 9.00
J6	type 5 longitudinal parapet flashings	m	\$ 11.00
J7	type 5 transverse parapet flashings notched and turned down	m	\$ 9.00
	<u>Supply and fix new</u>		
J8	50 x 50mm chicken wiremesh	m ²	\$ 0.80
J9	BRC 3315 / 3316 to roof	m ²	\$ 1.30
J10	25mm fibreglass insulation	m ²	\$ 1.30
	<u>Sisalation roofing paper</u>		
J11	Single-sided	m ²	\$ 0.90
J12	Double-sided	m ²	\$ 1.30
J13	Standard Kliplok Colorbond fascia board or approved equivalent 450mm wide; lightweight framing system complete with accessories	m	\$ 14.00
J14	Repair to leaking ; metal roof ; with sealant to all bolt heads and leaking joints / gap and replacing /refixing existing ridge capping and tightening all roof connection and install new metal sheet/covering to close the gap.	m ²	\$ 120.00
J15	Repair to leaking ; metal roof ; with sealant to all bolt heads and leaking joints / gap and replacing /refixing existing ridge capping and tightening all roof connection.	m	\$ 70.00
J16	Repair to leaking ; metal roof ; with sealant to all bolt heads and leaking joints to close the gap.	m	\$ 40.00
K	RAINWATER GOODS		
	<u>UPVC rainwater downpipe with solvent welded joints complete with bends, branches; bracketed off walls with pipe clips and any necessary bends, branches, shoes etc.</u>		
K1	100mm diameter	m	\$ 13.00
K2	150mm diameter	m	\$ 20.00
	Hack existing concrete or cut into metal gutter and cast into concrete including all necessary formwork		
K3	100mm diameter	m	\$ 15.00
K4	150mm diameter	m	\$ 22.00
K5	Refix and repair to loose / dented metal roof flashing / fascia including all accessories	m	\$ 3.00
K6	Ditto; UPVC gutter ; metal gutter with sealant to all bolt heads and leaking joints / gap.	m	\$ 20.00

Item	Description	Unit	Rate
K	RAINWATER GOODS		
K7	Ditto; UPVC gutter ; metal gutter with sealant to all bolt heads and leaking joints / gap and replacing and apply CPRU approved waterproofing coatings to surfaces internal of gutter	m	\$ 50.00
L	CARPENTRY WORKS		
	<u>Removal of existing timber and replace with new sawn, treated Kapur Bukit structural timbers; including 2 coats of wood preservative</u>		
	Roof trusses, pitched roofs, ceiling joists, partition frame, batten and the like		
L1	50mm x 50mm (2" x 2")	m	\$ 2.50
L2	50mm x 75mm (2" x 3")	m	\$ 3.50
L3	50mm x 100mm (2" x 4")	m	\$ 5.00
L4	50mm x 125mm (2" x 5")	m	\$ 6.00
L5	50mm x 150mm (2" x 6")	m	\$ 7.00
	<u>Removal of existing timber and replace with new sawn, treated Kapur Bukit structural timbers; including 2 coats of wood preservative</u>		
	Roof boards, fillets, grounds, batten, skirting, framing and the like		
L6	25mm x 25mm (1" x 1")	m	\$ 1.50
L7	25mm x 50mm (1" x 2")	m	\$ 2.00
L8	25mm x 75mm (1" x 3")	m	\$ 3.00
L9	25mm x 100mm (1" x 4")	m	\$ 4.00
L10	25mm x 150mm (1" x 6")	m	\$ 6.00
L11	25mm x 200mm (1" x 8")	m	\$ 7.00
L12	50mm x 200mm (2" x 8")	m	\$ 9.00
	<u>Removal of existing timber and replace with new wrought treated Kapur Bukit structural timbers; including 2 coats of wood preservative</u>		
	Roof boards, fillets, grounds, batten, skirting, framing and the like		
L13	25mm x 25mm (1" x 1")	m	\$ 1.00
L14	25mm x 50mm (1" x 2")	m	\$ 1.50
L15	25mm x 75mm (1" x 3")	m	\$ 2.50
L16	25mm x 100mm (1" x 4")	m	\$ 3.50
L17	25mm x 150mm (1" x 6")	m	\$ 5.50
L18	25mm x 200mm (1" x 8")	m	\$ 6.50
L19	50mm x 200mm (2" x 8")	m	\$ 8.50
	<u>Removal of existing timber and replace with new wrought, treated Selangan Batu structural timbers; including 2 coats of wood preservative</u>		
L20	25mm x 200mm (1" x 8")	m	\$ 15.00
L21	50mm x 50mm (2" x 2")	m	\$ 2.50
L22	50mm x 75mm (2" x 3")	m	\$ 3.50
L23	50mm x 100mm (2" x 4")	m	\$ 7.50
L24	50mm x 125mm (2" x 5")	m	\$ 8.00
L25	50mm x 150mm (2" x 6")	m	\$ 9.50
L26	100mm x 100mm (4" x 4")	m	\$ 15.00
L27	150mm x 150mm (6" x 6")	m	\$ 20.00

Item	Description	Unit	Rate
L	CARPENTRY WORKS		
	Ceiling and Wall boarding		
	<u>Supply and fix ceiling / wall to existing frame including taping and a 3mm coat of fine gypsum plaster at all joints</u>		
L28	6mm thick Gypsum board	m ²	\$ 18.00
L29	9mm thick Gypsum board	m ²	\$ 21.00
L30	12mm thick Gypsum board	m ²	\$ 23.00
L31	5mm thick Superflux ceiling	m ²	\$ 18.00
L32	5mm thick Duravent ceiling	m ²	\$ 20.00
	<u>Supply and fix ceiling / wall including GI framing system complete with all necessary runners, cross runners, wall angles, rod hangers and hanging wire taping and a 3mm coat of fine gypsum plaster at all joints</u>		
L33	6mm thick Gypsum board	m ²	\$ 23.00
L34	9mm thick Gypsum board	m ²	\$ 26.00
L35	12mm thick Gypsum board	m ²	\$ 28.00
L36	5mm thick Superflux ceiling	m ²	\$ 23.00
L37	5mm thick Duravent ceiling	m ²	\$ 25.00
L38A	Construction of timber partition consists of 50 x 100mm timber framing at 1200mm centre both way and lined both faces with 12mm plywood to BS1088	m ²	\$ 45.00
L38B	Supply and fix 18 mm timber, plywood cabinets and the likes including all necessary works	m ²	\$ 35.00
L38C	Supply and fix 12mm timber, plywood cabinets and the likes including all necessary works	m ²	\$ 24.00
L39	Construction of gypsum board partition consists of GI framing and lined both faces with 12mm gypsum board including filling all nail holes smooth, taping and plastering all joining	m ²	\$ 28.00
L40	9mm thick Masterclad for external wall	m ²	\$ 38.00
	Supply and fix plaster glass cornice		
L41	50mm thick	m	\$ 8.00
L42	100mm thick	m	\$ 13.00
M	JOINERY		
	<u>Parquet flooring</u>		
	Teak mosaic parquet flooring to B.S 4050 fixed with bitumen based floor adhesive to cement and sand screed finished to receive polish		
M1	Floor, tread, risers and the like	m ²	\$ 50.00
	<u>Remove existing and replace finishings in wrought treated Meranti</u>		
	floor board with T & G		
M2	25mm x 75mm (1" x 3")	m ²	\$ 23.00
M3	25mm x 100mm (1" x 4")	m ²	\$ 25.00
M4	25mm x 150mm (1" x 6")	m ²	\$ 27.00

Item	Description	Unit	Rate
M	JOINERY		
	<u>Doors</u>		
	Solid panelled doors generally constructed in red meranti; complete with approved painting		
M5	Single leaf	no	\$ 150.00
M6	Single leaf with size of less than 900mm x 2100mm	no	\$ 120.00
M7	Double equal leaf	no	\$ 300.00
M8	Double unequal leaf	no	\$ 230.00
	Solid panelled doors generally constructed in nyatoh; complete with approved painting		
M9	Single leaf	no	\$ 250.00
M10	Double equal leaf	no	\$ 500.00
M11	Double unequal leaf	no	\$ 370.00
	Solid panelled doors generally constructed in double plywood; complete with approved for painting/formica covering		
M11	Single leaf	no	\$ 120.00
M12	Double equal leaf	no	\$ 240.00
M13	Double unequal leaf	no	\$ 200.00
	Flush doors generally constructed in teak veneered plywood; complete with approved painting		
M14	Single leaf	no	\$ 180.00
	UPVC doors complete with framing, jambs, hinges and any necessary fittings		
M15	Plain	no	\$ 140.00
M16	Plain with size of less than 900mm x 2100mm	no	\$ 120.00
M17	Plain with ventilated louvres	no	\$ 150.00
M18	Decorative	no	\$ 160.00
	<u>Doors</u>		
	UPVC doors only complete with hinges		
M19	Plain	no	\$ 110.00
M20	Plain with size less than 900mm x 2100mm	no	\$ 95.00
M21	Plain with ventilated louvres	no	\$ 120.00
M22	Decorative	no	\$ 130.00
M23	UPVC jambs	no	\$ 50.00
	<u>Remove existing and replace with new finishings in wrought treated kapur bukit</u>		
	Door frames, window frames and the like		
M24	38mm x 125mm	m	\$ 9.00
M25	38mm x 150mm	m	\$ 10.00
M26	38mm x 200mm	m	\$ 13.00
M27	50mm x 125mm	m	\$ 10.00
M28	50mm x 150mm	m	\$ 12.00
	<u>Remove existing and replace with new finishings in wrought treated red meranti</u>		
	Door frames, window frames and the like		
M29	50mm x 100mm	m	\$ 6.00
M30	50mm x 150mm	m	\$ 14.50

Item	Description	Unit	Rate
M	JOINERY		
	<u>Formica 0.7mm thick plain laminated plastic sheet; fixing with a contact adhesive; color as per selected standard color</u>		
M31A	Timber surfaces	m ²	\$ 25.00
	<u>Formica 0.7mm thick decorative/pattern laminated plastic sheet; fixing with a contact adhesive; color as per selected standard color</u>		
M31B	Timber surfaces	m ²	\$ 41.00
	<u>Maica 0.88mm thick high pressure laminate sheet; fixing with a contact adhesive; colour as per selected standard colour</u>		
M32	Timber surfaces	m ²	\$ 24.00
	Fittings		
	<u>Construct new fittings and fixtures generally in wrought treated red meranti including assembling, fixing in position, plugging and screwing to brickworks or concrete, painting, decorating and ironmongery</u>		
M33	counter not exceeding 950mm high x 900mm width	m	\$ 235.00
M34	low level cabinet not exceeding 750mm high x 600mm width	m	\$ 210.00
M35	wall hung cabinet not exceeding 600mm high x 600mm width	m	\$ 195.00
M36	benches not exceeding 500mm high x 500mm width	m	\$ 185.00
M37	cabinet up to ceiling height with a width of 600mm and approx height of 3 m	\$	550.00
	<u>Construct new fittings and fixtures generally in wrought treated nyatoh including assembling, fixing in position, plugging and screwing to brickworks or concrete, painting, decorating and ironmongery</u>		
M38	counter not exceeding 950mm high x 900mm width	m	\$ 285.00
M39	low level cabinet not exceeding 750mm high x 600mm width	m	\$ 265.00
M40	wall hung cabinet not exceeding 600mm high x 600mm width	m	\$ 240.00
M41	benches not exceeding 500mm high x 500mm width	m	\$ 230.00
M42	cabinet up to ceiling height with a width of 600mm and approx height of 3 m	\$	700.00
N	IRON MONGERY		
	Supply and fix 100mm Heavy duty steel butt hinges to B.S 1227 fixed to timber with matching screws;		
N1	stainless steel finish	no	\$ 6.00
N2	brass finish	no	\$ 2.00
N3	Supply and fix Union 8094 CH indicating bolt or equivalent approved	no	\$ 30.00
N4	Supply and fix Figo 587 SS or approved equivalent push button knob cylindrical lockset in brush silver finish	no	\$ 30.00
N5	Supply and fix Figo 28A5 SN lever lockset or approved equivalent in brush silver finish	no	\$ 60.00
N6	Supply and fix 90mm Union 8056 barrel bolt	no	\$ 20.00

Item	Description	Unit	Rate
N	IRON MONGERY		
	Supply and fix 100mm Heavy duty steel butt hinges to B.S 1227 fixed to timber with matching screws;		
N7	Supply and fix 240mm Union 8056 barrel bolt	no	\$ 25.00
N8	Supply and fix Union 8850SE or approved equivalent door closer	no	\$ 140.00
	<u>Architectural Ironmongery fixed to timber or metal with matching screws</u>		
	Push plates; kicking plates with holes for lockset		
N9	300mm x 200mm x 2mm	no	\$ 30.00
N10	900mm x 200mm x 2mm	no	\$ 75.00
	Sundry Ironmongery		
N11	Union 7400' Door stops or approved equivalent; fixing to walls or floors	no	\$ 11.00
N12	Rubber Door stops; fixing to walls or floors	no	\$ 2.50
N13	Anodised aluminium crescent lock for sliding window	no	\$ 3.00
N14	Anodised aluminium lever lock for window	no	\$ 5.00
N15	Mild steel dowels; letting into foot of timber frame / metal frame and concrete floor	no	\$ 1.20
O	METAL WORKS		
	<u>Aluminium alloy windows, doors and screens generally to B.S.4873 complete with all necessary frame, neoprene gaskets, glazing, glazing beads, fixing devices and sealed all round</u>		
O1	Anodized aluminium door complete with frame, hinges, lockset and any necessary accessories	m ²	\$ 180.00
O2	Anodized aluminium door with 6mm thick half glass complete with frame, hinges, lockset and any necessary accessories	m ²	\$ 135.00
O3	Anodized aluminium louvers door complete with frame, hinges, lockset and any necessary accessories	m ²	\$ 190.00
O4	Fabricate and install clear and/or tinted glass sliding door with frame including glazing, glazing bead and neoprene gasket c/w lockset and fastener	m ²	\$ 90.00
O5	Fabricate and install swing door glazed with 6mm clear and/or tinted glass including glazing bead and neoprene gasket c/w frame, lockset and fastener	m ²	\$ 90.00
O6	Powder coated aluminium door glazed with 6mm clear glass c/w glazing beads including gaskets, waterproof cement grout all in accordance with manufacturer's detail	m ²	\$ 190.00

Item	Description	Unit	Rate
O	METAL WORKS		
	Anodized aluminium alloy with frame; glazed with 5mm clear and/or light tinted glass, neoprene gasket and all accessories		
O7	Sliding window	m ²	\$ 75.00
O8	Fixed window	m ²	\$ 75.00
O9	Top hung	m ²	\$ 85.00
O10	Casement window	m ²	\$ 85.00
	powder coated aluminium extruded frame infilled with 6mm tinted reflective glass c/w glazing beads including gaskets, waterproof cement grout all in accordance with manufacturer's detail		
O11	Sliding Window	m ²	\$ 145.00
O12	Fixed Window	m ²	\$ 145.00
O13	Top Hung	m ²	\$ 175.00
O14	Casement Window	m ²	\$ 175.00
	Powder coated aluminium extruded frame infilled with 6mm tinted reflective glass c/w glazing beads including gaskets, waterproof cement grout all in accordance with manufacturer's detail		
O15	Fabricate and install fixed new anodised aluminium louver panel with 150mm wide fixed louvers every 100mm centres complete with framing	m ²	\$ 190.00
O16	Powder coated aluminium sun breaker including frame and other accessories	m ²	\$ 198.00
O17	Fabricate and install Amplimesh aluminium security grille including framing	m ²	\$ 161.00
O18	Fabricate and install sliding security grille to door consists of 25mm x 50mm RHS frame infilled with 9mm round MS bar c/w frame, hinges, lockets etc	m ²	\$ 72.00
O19	Fabricate and install stainless steel sliding gate consists of 25mm x 50mm RHS frame infilled with 25mm SHS c/w frame, hinges, lockets etc	m ²	\$ 85.00
O20	Fabricate and fix new aluminium roller shutter including electric motor with wiring and control panel	m ²	\$ 450.00
O21	Fabricate and fix new aluminium roller shutter including connection to existing electric motor	m ²	\$ 300.00
O22	Fabricate and fix new aluminium roller shutter (manual mechanism type) including all other accessories	m ²	\$ 300.00

Item	Description	Unit	Rate
O	METAL WORKS		
O23	Fabricate and fix new stainless steel flag pole 8000mm high; consists of 75mm diameter lower-half, 50mm diameter upper-half, 75mm diameter ball, tilttable bracket, pulley and all accessories	no	\$ 1,500.00
	Metal Structures		
	<u>Removal of existing metal and replace with new mild steel columns, posts, trusses, purlins, rails, braces, ballusters and the like; base plate, bending, welded joints and all fixing accessories; provision of necessary supports</u>		
	Square hollow section		
O24	25mm x 25mm	m	\$ 4.00
O25	50mm x 50mm	m	\$ 7.00
O26	75mm x 75mm	m	\$ 10.00
O27	100mm x 100mm	m	\$ 15.00
	Rectangular hollow section		
O28	50mm x 75mm	m	\$ 9.00
O29	50mm x 100mm	m	\$ 12.00
O30	75mm x 100mm	m	\$ 13.00
O31	75mm x 125mm	m	\$ 16.00
O32	100mm x 150mm	m	\$ 22.00
	Circular hollow section		
O33	18mm Ø	m	\$ 4.00
O34	25mm Ø	m	\$ 6.00
O35	50mm Ø	m	\$ 11.00
O36	100mm Ø	m	\$ 20.00
	<u>Removal of existing metal and replace with new galvanized iron columns, posts, trusses, purlins, rails, braces, ballusters and the like; base plate, bending, welded joints and all fixing accessories; provision of necessary supports</u>		
	Circular hollow section		
O37	18mm Ø	m	\$ 6.00
O38	25mm Ø	m	\$ 9.00
O39	50mm Ø	m	\$ 14.00
O40	75mm Ø	m	\$ 20.00
O41	100mm Ø	m	\$ 23.00
	<u>Removal of existing metal and replace with new stainless steel columns, posts, trusses, purlins, rails, braces, ballusters and the like; base plate, bending, welded joints and all fixing accessories; provision of necessary supports</u>		
	Circular hollow section		
O42	18mm Ø	m	\$ 19.00
O43	25mm Ø	m	\$ 27.00
O44	50mm Ø	m	\$ 33.00
O45	75mm Ø	m	\$ 38.00
O46	100mm Ø	m	\$ 48.00

Item	Description	Unit	Rate
O	METAL WORKS		
	<u>Proprietary gratings, covers and frames</u>		
	Fabricate and fix MS drain grating consists of 50 x 50mm MS angle framing infilled with 9mm MS bar at 38mm centre painted		
O47	not exceeding 200mm wide	m	\$ 20.00
O48	not exceeding 250mm wide	m	\$ 25.00
O49	not exceeding 300mm wide	m	\$ 30.00
O50	not exceeding 330mm wide	m	\$ 33.00
	Fabricate and fix heavy duty MS grating with 75 x 75mm MS angle framing infilled with 12mm high tensile bar at 40mm centre painted		
O51	not exceeding 400mm wide	m	\$ 40.00
O52	not exceeding 450mm wide	m	\$ 45.00
O53	not exceeding 500mm wide	m	\$ 50.00
O54	exceeding 500mm wide	m	\$ 60.00
	<u>Fabricate and install MS security grille to window consists of 25mm x 25mm SHS frame infilled with</u>		
O55	9mm round bar in diamond pattern	m ²	\$ 85.00
O56	20mm x 4mm flat in brick pattern	m ²	\$ 85.00
O57	Fabricate and install swing MS security grille to door consists of 25mm x 50mm RHS frame infilled with 9mm round MS bar c/w frame, hinges, lockets etc	m ²	\$ 95.00
O58	Fabricate and install MS collapsible gate including running track, lockset, accessories	m ²	\$ 130.00
	<u>Fabricate and fix new metal handrail 1100mm high; complete with welded joints, plates, covering plates, bolts, cast into concrete; make good works disturbed</u>		
	Mild steel handrail consists of 75mm x 50mm top rail and bottom rail and post at 2000mm centre with 9mm x 9mm solid MS baluster at 100mm c/c		
O59	Corridor	m	\$ 60.00
O60	Staircase	m	\$ 62.00
	Stainless steel (Grade 316) handrail consists of 50mm top rail and post at 2000mm centres and 38mm bottom rail infilled with 18mm baluster at 100mm centre		
O61	Corridor	m	\$ 140.00
O62	Staircase	m	\$ 142.00
	Galvanized iron handrail consists of 50mm x 25mm top rail and bottom rail and post at 2000mm centre with 9mm x 9mm solid MS baluster at 100mm c/c		
O63	Corridor	m	\$ 80.00
O64	Staircase	m	\$ 82.00
P	WALL AND FLOOR FINISHES		
	INSITU FINISHES		
	Cement and sand screed (1:3 mix) to receive finishes		
P1	13mm thick to walls	m ²	\$ 6.50
P2	25mm thick to concrete floor, walls etc; laid to fall if required	m ²	\$ 8.00
P3	38mm thick to concrete floor laid to fall	m ²	\$ 11.00

Item	Description	Unit	Rate
P	WALL AND FLOOR FINISHES		
	WALL TILES Supply and lay ceramic/homogenous wall tile 5mm thick of selected standard colour, laid with belcem cement additive or any equivalent approved		
P4	200mm x 200mm	m ²	\$ 30.00
P5	200mm x 300mm	m ²	\$ 32.00
P6	300mm x 300mm	m ²	\$ 34.00
P7	300mm x 600mm	m ²	\$ 36.00
P7A	Supply and lay ceramic/homogenous border wall tile 5mm thick of selected standard colour, laid with belcem cement additive or any equivalent approved	m	\$ 25.00
	FLOOR TILES Supply and lay non-slip ceramic/homogenous floor tile of selected standard colour, bedded on Nicobond CT300 ceramic tile adhesive on cement and sand screed (measured separately) including grouting and pointing in Nicobond tiler's grout		
P8	200mm x 200mm x 8mm thk	m ²	\$ 30.00
P9	200mm x 300mm x 8mm thk	m ²	\$ 32.00
P10	300mm x 300mm x 8mm thk	m ²	\$ 34.00
P11	300mm x 600mm x 8mm thk	m ²	\$ 38.00
P12	600mm x 600mm x 8mm thk	m ²	\$ 45.00
P13	Supply and fix new polypropylene sports flooring surfaces approx. size: 25cm x 25cm x 12.7mm or approved equivalent including painting, install strictly in accordance to manufacturer's recommendation *Please state Alternative Brand: _____	m ²	\$ 150.00
P14	To prepare floor finish with T & G laminated floor complete with necessary joining works including all other necessary works required as instructed by S.O.	m ²	\$ 40.00
P15	Supply and lay Covacrete or any technically approved equivalent which consist of preparation of existing surface, priming the surface, application of base coat (Lokcote CC & Resurfacing Powder) of estimated 3-5mm thickness, placing of the selected pattern stencil design, application of the top coat (selected colour) of recommended thickness (2-4mm), removal of stencil or tape, and finished with lustre seal sealer all done in accordance to manufacturer's specification	m ²	\$ 32.00
	FLOOR TILES		
P16	Ceramic/Homogeneous skirting tiles laid and jointed	m	\$ 4.00
P17	Ceramic/Homogenous nosing tiles in edging or steps laid and jointed	m	\$ 4.00
P18	Labour and chemical to clean floor and wall tile to S.O's satisfaction	m ²	\$ 2.00
	CARPET FINISHES Supply and lay loop-pile carpet with mass not less than 26oz/yd ² laid on prepared screed using appropriate adhesive, joint carefully, matching edging c/w aluminium edging strip to door area		
P19	26oz/yd ²	m ²	\$ 30.00
P20	30 oz/yd ²	m ²	\$ 38.00
P21	36 oz/yd ²	m ²	\$ 44.00
P22	5mm rubber underlay as above	m ²	\$ 8.00

Item	Description	Unit	Rate
P	WALL AND FLOOR FINISHES		
	SLAB FINISHES		
P23	Labour for carefully taking out existing loose or sunken paver block and stack aside for re-use	m ²	\$ 5.00
P24	Select from stack and re-use existing paver block including jointing and compacting using sand	m ²	\$ 10.00
	<u>Pioneer Pavers high strength concrete interlocking paving blocks of selected standard patterns and colour, laid on sand beds including compacting and blinding joints</u>		
P25	60mm thick laid to pattern	m ²	\$ 40.00
P26	125mm x 250mm high concrete kerb comprising with Grade 30 concrete, 2No 10mm Ø high tensile general reinforcement bar, 50mm thick Grade 15 concrete blinding including excavation work, formwork, fair finishes, angles	m	\$ 13.50
	<u>Damp proof courses; BS743 type 5B; well lapped</u>		
P27	horizontal; over 300mm wide	m ²	\$ 23.00
P28	horizontal; 102.5mm wide	m	\$ 2.00
P29	horizontal; 215mm wide	m	\$ 4.00
	EXTERNAL WALL CLADDING		
P30	Supply and fix into place new Alucore type of external cladding board or any technically approved equivalent including C-channel lightweight steel frames, corrosion resistant screw, metal angle, sealant at all joints and install as per manufacturer's recommendations	m ²	\$ 200.00
Q	FOOTBALL SURFACES		
	<u>Supply and install Synthetic Track; tested to DIN 18035 part 6</u>		
	Rubber granule bonded by approved PU binder; water permeable, spike resistance, porous surface and all weather conditions.		
Q1	10 mm thick	m ²	\$ 30.00
Q2	3mm thick of EPDM powder structural spray to form a rough texture surface; water permeable, spike resistance, porous surface and all weather conditions.	m ²	\$ 45.00
	<u>Supply and lay artificial turfing</u>		
Q3	30 mm artificial turfing for Soccer Field	m ²	\$ 35.00
Q4	40 mm artificial turfing for Soccer Field	m ²	\$ 40.00
Q5	54 mm artificial turfing for Soccer Field	m ²	\$ 55.00
	SUNDRIES FOR FOOTBALL FIELD		
Q6	Supply and fix approved net - polyethylene nets for soccer goals	nos	\$ 300.00
	Provide marking using approved paint for cow grass football field		
Q7	Primary School	1 Lot	\$ 1,500.00
Q8	Secondary School	1 Lot	\$ 3,000.00

Item	Description	Unit	Rate
Q	FOOTBALL SURFACES		
	ACRYLIC COATING		
Q9	Supply and apply 2 coats acrylic filter course for blended with approved silica sand to fill surface voids or correct minor imperfections	m ²	\$ 6.00
Q10	Supply and apply 2 coats of texture course, multi-purpose acrylic colour concentrated mixed with approved silica sands	m ²	\$ 6.00
	EXPANSION AND CONTRACTION JOINTS		
	Laticrete flexible sealant 800 series of selected standard colours or any approved equivalent filled into grooves at expansion joints		
Q11	25mm wide x 50mm deep	m	\$ 15.00
Q12	25mm wide x 100mm deep	m	\$ 25.00
R	GLAZING		
	<u>Clear sheet glass to B.S 952</u>		
R1	6mm thick Glaze to timber with timber beads	m ²	\$ 45.00
R2	6mm thick Glaze to metal with neoprene gaskets	m ²	\$ 39.00
	<u>Light tinted sheet glass to B.S 952</u>		
R3	6mm thick Glaze to timber with timber beads	m ²	\$ 47.00
R4	6mm thick Glaze to metal with neoprene gaskets	m ²	\$ 41.00
S	CURTAINS & BLINDS		
S1	Vertical blinds with 100mm wide PVC vanes of selected standard colour complete with all control gear and fixing to timber or concrete soffits to suit opening size	m ²	\$ 45.00
S2	PVC Vinyl 'Blackout' Curtain of selected standard colour complete with all control gear to suit opening size	m ²	\$ 25.00
T	PAINTING WORKS		
T1	Prepare existing surfaces by cleaning and removing all dirt and loose particles, seal up any cracks of joints in cement, remove rust, millscalls, oil/grease and contaminants for metal, repair and fill wood surfaces with appropriate wood filler and sand down with abrasive paper to smooth surfaces	m ²	\$ 2.50
	Concrete, cement board, gypsum, wood, metal, aluminium surfaces and the like		
T2	One coat NIPPON Vinilex 5101* or Bodelac 9000* (primer exterior/plastered)	m ²	\$ 1.30
T3	One coat NIPPON Weatherbond* (finishing for exterior/plastered)	m ²	\$ 2.80
T4	One coat NIPPON Bodelac 9000* (undercoat for wood & metal)	m ²	\$ 2.80
T5	One coat NIPPON Bodelac 9000* (finishing for wood & metal)	m ²	\$ 2.80
T6	One coat NIPPON Timberlac* (finishing for wood)	m ²	\$ 3.00
T7	One coat NIPPON Vinilex 5170* (primer for interior/gypsum/plastered)	m ²	\$ 1.40
T8	One coat NIPPON Vinilex 5000* (low odour finishing for interior/gypsum/plastered)	m ²	\$ 2.80
T9	One coat NIPPON Vinyl Silk* (finishing for interior/gypsum/plastered)	m ²	\$ 3.00
T10	One coat NIPPON 3-in-1 Medifresh* (finishing for interior/gypsum/plastered)	m ²	\$ 3.50
	*Or Approved Equivalent		
	Warranty shall be issued by contractor, guaranteeing for the entire works including materials free from defects for a period of not less than five years)		

Item	Description	Unit	Rate
U	SIGNAGE		
U1	Demolish existing metal signage; clear debris off site	no	\$ 50.00
U2	Demolish existing concrete structure/brickwall signage; clear debris offsite	no	\$ 200.00
	1800mm x 1200mm x 5mm Perspex base with coloured background, fiberglass at both sides and stainless steel channel frame; machine polished; 2no. 75mm Ø x 2200mm high stainless steel tube posts with 75mm Ø stainless steel round balls complete with stainless steel bolts, washer and nuts; 200mm x 200mm x 300mm RC footing; logo (standard Government Primary School logo), self adhesive lettering, 140mm high Arabic font (dark blue) and 75mm high Malay font (black); all as per S.O approval		
U3	Acrylic	no	\$ 3,200.00
U4	Embossed Stainless Steel	no	\$ 3,800.00
V	FENCING WORKS		
V1	Supply and fix SWG 8 PVC coated fencing mesh including 3 No straining wire, clips and other accessories	m ²	\$ 14.00
V2	Supply and fix SWG 12 galvanized fencing mesh including 3 No straining wire, clips and other accessories	m ²	\$ 13.00
V3	Supply and fix 50mm x 1800 long Lionmesh hot dip galvanized fencing post with anti-climb clank top with 3 no eye for barbed wire	no	\$ 35.00
V4	Supply and fix 50mm x 1800 long Lionmesh hot dip galvanized fencing post with anti-climb clank top with 4 no eye for barbed wire	no	\$ 36.00
V5	Supply and fix 50mm x 2500 long Lionmesh hot dip galvanized fencing post with anti-climb clank top with 3 no eye for barbed wire	no	\$ 40.00
V6	Supply and fix 50mm x 2500 long Lionmesh hot dip galvanized fencing post with anti-climb clank top with 4 no eye for barbed wire	no	\$ 41.00
V7	Supply and fix Lionmesh or equivalent fencing panel overall size 2400mm long x 1800mm high with 6.5mm bar and fixing clip complete	no	\$ 110.00
V8	Supply and fix double leaf swing gate size 6400mm wide x 1800mm high including 100mm GI post complete	Set	\$ 2,100.00
V9	Supply and fix 1000mm wide x 1800mm high pedestrian gate including 100mm GI post complete	no	\$ 350.00
V10	Fabricate and install MS double-leaf gate consists of 75 x 75 x 6mm MS angle frame and cross bracing infilled with SWG 8 gauge GI fencing mesh including 100mm diameter post overall size 6400mm wide x 1800mm high painted	Set	\$ 1,900.00
V11	Fabricate and install MS double-leaf gate consists of 75 x 75 x 6mm MS angle frame and cross bracing infilled with SWG 12 gauge GI fencing mesh including 100mm diameter post overall size 6400mm wide x 1800mm high painted	Set	\$ 2,200.00
V12	Fabricate and install MS 1000mm wide x 1800mm high pedestrian gate including 100mm diameter post	no	\$ 300.00
V13	Supply and fix galvanised mild steel barbed wire	m	\$ 3.00

Item	Description	Unit	Rate
W	PLUMBING WORKS		
	UPVC SOIL AND WASTE PIPES		
	Laying in the ground, including all necessary excavation average 300mm deep and hacking out concrete floor tile/ slab where necessary		
W1	32mm diameter UPVC BS.4514 solvent welded joints	m	\$ 20.00
W2	50mm diameter UPVC BS.4514 solvent welded joints	m	\$ 25.00
	Laying in the ground, including all necessary excavation average 450mm deep and hacking out concrete floor tile/ slab where necessary		
W3	75mm diameter UPVC BS.4514 solvent welded joints	m	\$ 28.00
W4	100mm diameter UPVC BS.4514 with ring seal or solvent welded joints	m	\$ 35.00
W4.1	>100mm diameter UPVC BS4514 solvent welded joints	m	\$ 45.00
	UPVC soil, waste and vent pipes to BS 4514, solvent welded joints including holder bats/hangers.		
W5	32mm diameter pipes	m	\$ 6.00
W6	50mm diameter pipes	m	\$ 8.00
W7	75mm diameter pipes	m	\$ 12.00
W8	100mm diameter pipes	m	\$ 15.00
W8.1	>100mm diameter pipes	m	\$ 20.00
	Extra over for all necessary fittings, sockets, connectors, reducers, plugs, elbows, tees, junctions and other similar pipe fittings complete with access/inspection openings		
W9	75mm diameter UPVC BS.4514 solvent welded joints	No	\$ 5.00
W10	100mm diameter UPVC BS.4514 solvent welded joints	No	\$ 7.00
	Remove existing pipes and replace with new UPVC pipes including fittings to BS4514:		
W10.1	50mm diameter soil, waste, vent and overflow pipes	m	\$ 10.00
W10.2	75mm diameter soil, waste, vent and overflow pipes	m	\$ 14.00
W10.3	100mm diameter soil, waste, vent and overflow pipes	m	\$ 18.00
W10.5	≥150mm diameter overflow pipes	m	\$ 22.00
	<u>Ductile Iron Pipes</u>		
	Laying in the ground, including all necessary excavation average 450mm deep and hacking out concrete floor / slab where necessary:		
W10.6	100mm diameter pipes	m	\$ 40.00
W10.7	150mm diameter pipes	m	\$ 50.00
W10.8	200mm diameter pipes	m	\$ 60.00
W10.9	>200mm diameter pipe	m	\$ 70.00
	Supply, deliver and install ductile iron pipes c/w all necessary fittings and sockets, connectors, reducers, plugs, elbow, tees, union, nipple, bush and other similar pipe fittings:		
W10.10	100mm diameter pipes	m	\$ 80.00
W10.11	150mm diameter pipes	m	\$ 100.00
W10.12	200mm diameter pipes	m	\$ 120.00
W10.13	>200mm diameter pipe	m	\$ 150.00
	Remove existing pipes and replace with new ductile iron pipes including c/w all necessary fittings and sockets, connectors, reducers, plugs, elbow, tees, union, nipple, bush and other similar pipe fittings:		
W10.14	100mm diameter pipes	m	\$ 90.00
W10.15	150mm diameter pipes	m	\$ 110.00
W10.16	200mm diameter pipes	m	\$ 130.00
W10.17	>200mm diameter pipe	m	\$ 160.00

Item	Description	Unit	Rate
W	PLUMBING WORKS		
	<u>Check Valve, Gate Valve, Sluice / Penstock Valve</u>		
	Remove, supply, deliver and install valve. Rate to include modification of existing pipe work, if		
W10.18	Check valve - 100mm diameter	No	\$ 300.00
W10.19	Gate valve - 100mm diameter	No	\$ 350.00
W10.20	Sluice / Penstock valve - 75mm diameter	No	\$ 350.00
W10.21	Sluice / Penstock valve - 100mm diameter	No	\$ 400.00
W10.22	Sluice / Penstock valve - 150mm diameter	No	\$ 500.00
W10.23	OTHER ITEM NOT INCLUDED		
	Any other related item not specified, please mentioned :-		
	i).....	
	ii).....	
	<u>COLD WATER INSTALLATION</u>		
	<u>Remove and replace with new pipe cast/chased into concrete or brickwall or bracketed off walls or soffits with pipe clips</u>		
	Stainless Steel Pipes to BS 4127 fixed with stainless steel screwed and socketed joints fixing with and including suitable pipe clips as necessary.		
W11	15mm diameter	m	\$ 14.00
W12	22mm diameter	m	\$ 19.00
W13	28mm diameter	m	\$ 25.00
W14	35mm diameter	m	\$ 35.00
W15	54mm diameter	m	\$ 50.00
	<u>Unplasticised PVC pipes:: BS 3505 Class "E" solvent welded joints and fittings to BS 4346</u>		
	Pipe cast/chased into concrete or brickwall or bracketed off walls or soffits with pipe clips		
W16	12mm diameter pipes	m	\$ 7.00
W17	20mm diameter pipes	m	\$ 9.00
W18	25mm diameter pipes	m	\$ 12.00
W19	32mm diameter pipes	m	\$ 16.00
W20	40mm diameter pipes	m	\$ 20.00
W21	50mm diameter pipes	m	\$ 25.00
	Remove existing pipe and replace with new UPVC pipe including fittings to BS 4514 to wall / floor		
W22	32mm diameter main soil, waste and vent pipes	m	\$ 6.00
W23	50mm diameter soil, waste, vent and overflow pipes	m	\$ 8.00
W24	75mm diameter soil, waste, vent and overflow pipes	m	\$ 12.00
W25	100mm diameter soil, waste, vent and overflow pipes	m	\$ 18.00
W26	≥150mm diameter overflow pipes	m	\$ 22.00

Item	Description	Unit	Rate
W	PLUMBING WORKS		
	COLD WATER INSTALLATION		
	<u>Extra over for all necessary fittings, sockets, connectors, reducers, plugs, elbow, tees, union, nipple, bush and other similar pipe fittings:</u>		
	Copper/stainless steel compression joints		
W27A	15mm diameter	No	\$ 20.00
W27B	22mm diameter	No	\$ 24.00
W27C	28mm diameter	No	\$ 30.00
W27D	≥50mm diameter pipes	No	\$ 65.00
	<u>Extra over for all necessary fittings, sockets, connectors, reducers, plugs, elbow, tees, union, nipple, bush and other similar pipe fittings:</u>		
	brass compression joints		
W27E	15mm diameter	No	\$ 14.00
W27F	22mm diameter	No	\$ 16.00
W27G	28mm diameter	No	\$ 20.00
W27H	≥50mm diameter pipes	No	\$ 55.00
	<u>Extra over for all necessary fittings, sockets, connectors, reducers, plugs, elbow, tees, union, nipple, bush and other similar pipe fittings:</u>		
	upvc compression joints		
W27I	15mm diameter	No	\$ 10.00
W27J	20mm diameter	No	\$ 12.00
W27K	25mm diameter	No	\$ 15.00
W27L	≥50mm diameter pipes	No	\$ 45.00
	<u>MDPE pipe to ISO 4427/DIN8074/8075/MS1058 Class PN 12.5 (12.5MPa) or other equal and approved higher pipe: fittings and joints to be compression type</u>		
	Pipe cast/chased into concrete or brickwall or bracketed off walls or soffits with pipe clips		
W28	20mm outer diameter pipes	m	\$ 15.00
W29	25mm outer diameter pipes	m	\$ 16.00
W30	63mm outer diameter pipes	m	\$ 25.00
	Extra over for all necessary fittings, sockets, connectors, reducers, plugs, elbow, tees, union, nipple, bush and other similar pip		
W31	>63mm outer diameter pipes	No	\$ 70.00
	<u>MDPE pipe to ISO 4427/DIN8074/8075/MS1058 Class PN 12.5 (12.5MPa) or other equal and approved higher pipe: fittings and joints to be butt fusion/compression type</u>		
	Laying in the ground		
W32	110mm outer diameter pipes	m	\$ 50.00
W33	125mm outer diameter pipes	m	\$ 60.00
	Extra over for all necessary fittings, sockets, connectors, reducers, plugs, elbow, tees, union, nipple, bush and other similar pip		
W34	>110mm outer diameter pipes	No	\$ 110.00
	HOT WATER INSTALLATION		
	<u>Insulated Copper pipes to BS 2871, compression joints and fittings to B.S 864</u>		
	Pipes cast/chased into concrete or brickwall or bracketed off walls or soffits with pipe clips		
W35	15mm diameter pipes	m	\$ 15.00
W36	22mm diameter pipes	m	\$ 20.00
W37	28mm diameter pipes	m	\$ 26.00
W38	35mm diameter pipes	m	\$ 35.00
W39	42mm diameter pipes	m	\$ 42.00
W40	54mm diameter pipes	m	\$ 50.00

Item	Description	Unit	Rate
X	SANITARY INSTALLATION		
	<u>Remove and refix new sanitary fittings and accessories; bedding wastes and taps in jointing compound</u>		
X1	Allow labour to refix loose sanitary fittings such as sink, low level WC suite and cistern	No	\$ 25.00
	<u>Vanity Top Basin</u>		
	Vanity top deep reinforced with 2 layers of BRC A7 with oval opening and tiled all exposed surfaces with homogeneous tiles finish to:		
X2	100mm thick x 900mm long x 600mm deep for 1 No sink	No	\$ 200.00
X3	100mm thick x 1300mm long x 600mm deep for 2 Nos sink	No	\$ 290.00
X4	100mm thick x 1950mm long x 600mm deep for 3 Nos sink	No	\$ 450.00
X5	100mm thick x 2600mm long x 600mm deep for 4 Nos sink	No	\$ 550.00
X6	100mm thick x 3250mm long x 600mm deep for 5 Nos sink	No	\$ 700.00
X7	100mm thick x 3900mm long x 600mm deep for 6 Nos sink	No	\$ 800.00
	<u>Water Closet and Cistern</u>		
X8	Remove existing, complete with all necessary works and make good.	No	\$ 25.00
	Supply and fix new American Standard complete with all necessary accessories, tank fittings, brackets, flush pipes and jointing to pipe work with all necessary connectors and make good.	No	
X9	American Standard; Squatting type or other technically approved equivalent (Vitreous China-high/low level-white)	No	\$ 290.00
X10	American Standard or other approved equivalent (Vitreous China-low level-white)	No	\$ 300.00
X11	American Standard or other approved equivalent (Vitreous China-low level-coloured)	No	\$ 300.00
X12	American standard close coupled or other technically approved equivalent (Vitreous China-White)	No	\$ 300.00
X13	American standard close coupled or other technically approved equivalent (Vitreous China-Coloured)	No	\$ 300.00
	<u>Pedestal Pan Seat and Cover</u>		
X14	Ordinary (White)	No	\$ 15.00
X15	Ordinary (Coloured)	No	\$ 20.00
X16	Close - coupled heavy duty (White)	No	\$ 15.00
X17	Close - coupled heavy duty (Coloured)	No	\$ 20.00
	<u>Cistern Cover</u>		
X18	Vitreous China	No	\$ 48.00
	<u>Wash Hand basin</u>		
	Remove the existing and fix new wall hung with fixing brackets; trap, waste, plug and other necessary items.		
X19	Oval -shaped "White Vitreous China"	No	\$ 80.00
X20	Wash hand basin , 400 x 550mm (White)	No	\$ 90.00
X21	Wash hand basin , 360 x 450mm (White)	No	\$ 80.00
	<u>Brackets For Wash Hand Basin</u>		
X22	Cast iron brackets including fixing to the tile/concrete wall	No	\$ 15.00

Item	Description	Unit	Rate
X	SANITARY INSTALLATION		
	<u>Mirror</u>		
X23	Remove existing mirror including aluminium framing of any sizes	No	\$ 10.00
X24	Supply and fix new mirror including aluminium framing and all necessary works	m2	\$ 80.00
	<u>Anal Spray & Nozzle</u>		
X25	Remove existing; replace and fix new chrome-plated anal spray including hose and lever type tap. To fix CPRU Approved or any other approved equivalent.	No	\$ 40.00
X25A	Remove existing; replace and fix new UPVC anal spray including hose and lever type tap. Brand to follow existing or any other approved equivalent.	No	\$ 35.00
X25B	Remove existing; replace and fix new anal nozzle hose and lever type tap. Brand to follow existing or any other approved equivalent.	No	\$ 30.00
	<u>Stainless Steel/Aluminium Kitchen Sink</u>		
	Remove the existing and fix new including application of silicone sealant and hacking out concrete bench and make good		
X26	Single bowl drainer	No	\$ 110.00
X26A	Double bowl double drainer	No	\$ 190.00
	SUNDRIES		
	Remove the existing and fix new including short waste, plug, chain and stay and all necessary hacking out concrete floor tile and make good		
	<u>Bottle Trap/Tubular/P Trap</u>		
X27	UPVC - 38mm diameter bottle trap	No	\$ 12.00
X28	UPVC - 45mm diameter bottle trap	No	\$ 14.00
X29	UPVC - 50mm diameter Tubular "P" trap	No	\$ 20.00
X30	UPVC - 75mm diameter "P" trap with rodding eyes	No	\$ 23.00
X31	HDPE bottle trap	No	\$ 25.00
X32	Stainless Steel - 50mm diameter 'P' trap	No	\$ 50.00
	<u>Gully Trap</u>		
	Remove the existing and replace new with UPVC gully trap with rodding access to BS 4660 with metal removable flat grating cast into concrete		
X33	100mm diameter	No	\$ 80.00
X34	150mm diameter	No	\$ 100.00
	<u>Remove the existing and replace new with UPVC floor traps with rodding access to B.S 4660 with all necessary connectors and jointing to pipes</u>		
	UPVC floor drain trap grating		
X36	150mm x 150mm UPVC hinge floor grating	No	\$ 15.00
	Stainless steel floor drain trap grating		
X37	100mm diameter stainless steel floor grating	No	\$ 25.00
X38	150mm diameter stainless steel floor grating	No	\$ 30.00
	<u>Gulley Trap and Manhole Cover</u>		
X39	200 x 200mm top; hinged grating frame	No	\$ 20.00
X40	Coated Cast Iron rectangular single seal cover and frame: in accordance to BS-EN 124, sealing cover in grease and fine sand	No	\$ 250.00
X42	Coated cast iron rectangular single seal cover and frame; light duty; BS 497 Grade C; weighing 38kg; bedding frame in mortar (1:3); sealing cover in grease and fine sand 695 x 545 x 45mm thick	No	\$ 130.00

Item	Description	Unit	Rate
X	SANITARY INSTALLATION		
	<u>Gulley Trap and Manhole Cover</u> Coated cast iron rectangular single seal cover and frame; medium duty; BS 497 Grade B; weighing 142kg; bedding frame in cement mortar (1:3); sealing cover in grease and fine sand		
X43	670 x 670 x 75mm overall	No	\$ 217.00
	Coated cast iron rectangular single seal cover and frame; heavy duty; BS 497 Grade B; weighing 210kg; bedding frame in cement mortar (1:3); sealing in grease and fine sand		
X44	600 x 450mm overall	No	\$ 272.00
Y	ACCESSORIES AND ANCILLARIES		
	Note : All tap shall use brand: Showy, ilife, figo or any approved equivalent or heavy duty tap <u>Valves and Taps</u> Valves to BS 1010 and BS 1212 <u>Remove the existing and fix new .Rate shall include all necessary connection, threading, hacking out concrete wall tile and make good to match:</u> <u>Brass Gate Valve/Chrome Stop Valve</u>		
Y1	15mm diameter	No	\$ 12.00
Y2	22mm diameter	No	\$ 17.00
Y3	28mm diameter	No	\$ 20.00
Y4	35mm diameter	No	\$ 25.00
Y5	54mm diameter	No	\$ 45.00
	<u>Sluice Valve; including</u>		
Y6	75mm diameter	No	\$ 350.00
Y7	100mm diameter	No	\$ 400.00
Y8	Remove existing tap of any sizes and brand	No	\$ 10.00
Y9	Supply and fix new : Showy - 2565M-PQC; complete with connection to existing pipe	No	\$ 38.00
Y10	Supply and fix new :Showy 6272- Quarter turn Single lever Bib faucet - 140mm; complete with connection to existing pipe	No	\$ 31.00
Y11	Supply and fix new : Showy - 6051F50 : Quarter turn single lever flexible spout sink faucet; complete with connection to existing pipe	No	\$ 50.00
Y12	Supply and fix new : Showy - 2988 The Pure C.P brass garden tap; complete with connection to existing pipe	No	\$ 9.00
Y13	Supply and fix new : Showy 2575HC C.P C/C stop cock; complete with connection to existing pipe	No	\$ 14.00
Y14	Supply and fix new : Showy 6053 - Quarter turn single level wall sink tap; complete with connection to existing pipe	No	\$ 35.00
Y15	Supply and fix new : Showy - 6051U Quarter turn single lever 'U' spout sink faucet; complete with connection to existing pipe	No	\$ 41.00

Item	Description	Unit	Rate
Y	ACCESSORIES AND ANCILLARIES		
	<u>Remove the existing and fix new. Rate shall include all necessary connection, threading, hacking out concrete wall tile and make good to match:</u>		
	<u>Chrome Pillar / WB tap</u>		
Y16	15mm diameter	No	\$ 45.00
Y16A	20mm diameter	No	\$ 45.00
	<u>Swan - Neck Type Tap</u>		
Y17A	To remove existing and 1 or 2-ways laboratory water tap to workbenches	No	\$ 5.00
Y17B	To remove existing and 3-ways laboratory water tap to workbenches	No	\$ 8.00
	<u>To replace with new. Rate shall include all necessary connection, threading, hacking and make good to match:</u>		
Y17C	One Way heavy duty stainless Swan Neck Tap	No	\$ 50.00
Y17D	Ditto 2-way		\$ 75.00
Y17E	Ditto 3-way	No	\$ 250.00
Y17F	To replace with new 3-ways laboratory water tap to workbenches and to match existing. Rate shall include all necessary connection	No	\$ 150.00
	<u>Flexible Hose</u>		
	Remove existing flexible hose and replace new with :		
Y18A	15mm diameter; connection to pipe	No	\$ 13.00
Y18B	20mm diameter; connection to pipe	No	\$ 15.00
	<u>Repairs Collars (Repair Clamp)</u>		
	Stainless Steel Repair Collars		
Y19A	65mm diameter pipes	No	\$ 30.00
Y19B	80mm diameter pipes	No	\$ 40.00
Y19C	100mm diameter pipes	No	\$ 60.00
	<u>Split Repair Collars in Ductile Iron</u>		
Y20A	65mm diameter pipes	No	\$ 30.00
Y20B	80mm diameter pipes	No	\$ 40.00
Y20C	100mm diameter pipes	No	\$ 60.00
	<u>Automatic Flushing Valve and Cistern</u>		
Y22	"American Standard 8902" toilet flush valve or any other technically approved equivalent	No	\$ 50.00
Y23	"American Standard 8900" urinal flush valve or any other technically approved equivalent	No	\$ 50.00
Y24	"Coroline 831" urinal plastic auto cistern (4.5 litres) or any other technically approved equivalent	No	\$ 80.00
Y25	"Coroline" automatic siphon BS 1876 for urinal auto cisterns or any other technically approved equivalent	No	\$ 90.00
	<u>Tank Fittings for Water Closets Cisterns</u>		
Y26	W.C Siphon tank fittings	No	\$ 50.00
Y27	"Armitage Shank" Free Flow or any other technically approved equivalent	No	\$ 50.00
Y28	"American Standard" TF-1011 or any other technically approved equivalent	No	\$ 50.00

Item	Description	Unit	Rate
Y	ACCESSORIES AND ANCILLARIES		
	<u>Water Tank</u>		
Y29	Supply and fix new 1m x 1m x 1m Stainless steel panel tank and cover with all necessary perforations for pipes.	No	\$ 1,500.00
Y30	Supply and fix 1600 litres stainless steel water storage tank complete with metal stand, concrete base and other necessary support items	No	\$ 1,000.00
Y31	Supply and fix 2000 litres stainless steel water storage tank complete with metal stand, concrete base and other necessary support items	No	\$ 1,300.00
Y32	Supply and fix Davies or other approved equivalent to 1H electrical pump including wiring	No	\$ 600.00
	<u>Water Tank Fittings</u>		
	Brass Ball Float Valve c/w Polythene Ball		
Y33	25mm (1")	No	\$ 30.00
Y34	32mm (1 1/4")	No	\$ 35.00
Y35	50mm (2")	No	\$ 42.00
Y36	75mm (3")	No	\$ 50.00
Y37	100mm (4")	No	\$ 100.00
	Brass Ball Float Valve c/w Copper Ball		
Y38	75mm (3")	No	\$ 75.00
Y39	100mm (4")	No	\$ 130.00
Z	CLEAN AND UNBLOCK CLOGGED SANITARY SYSTEM		
	Supply labour, plants, tools, equipment, vehicles and other necessary to clean and unblock the following clogged sanitary plumbing system and fittings:		
Z1	Manhole	No	\$ 50.00
Z2	Septic Tank	No	\$ 100.00
Z3	Gully Trap	No	\$ 30.00
Z4	Floor trap	No	\$ 15.00
Z5	Toilet bowl	No	\$ 20.00
Z6	Urinal bowl	No	\$ 20.00
Z7	Wash hand basin	No	\$ 15.00
Z8	Kitchen sink	No	\$ 15.00
Z9	100mm and or to 75mm diameter pipe	m	\$ 5.00
Z10	50mm and or to 75mm diameter pipe	m	\$ 3.00
Z11	Desludging of manhole	No	\$ 150.00
Z12	Desludging of septic tank	No	\$ 500.00
Z13	Grease trap	No	\$ 325.00
Z14	Water tank (panelled / cylindrical)	No	\$ 100.00

Item	Description	Unit	Rate
Z	CLEAN AND UNBLOCK CLOGGED SANITARY SYSTEM		
ZA	TEMPORARY SCAFFOLDING & SAFETY HOARDINGS To fabricate temporary scaffolding, including adjustable plate base, plain base plate, caster, caster with screw jack, outrigger bracket, cross brace, brace lock, plan brace, side bracket, standard arch frame, hinge pin, vertical coupling pin, hinge pin, standard end frame, standard half frame, guardrail post, guardrails, Aluminium or plywood deck, netting and all necessary works. not exceeding 3m high		
ZA1	not exceeding 3m high	Lot	\$ 50.00
ZA2	exceeding 3m to 6m high	Lot	\$ 150.00
ZA3	exceeding 6m to 9m high	Lot	\$ 250.00
ZA4	Exceeding 9m high	Lot	\$ 300.00
	SAFETY SIGNS/HOARDING		
ZA5	Safety hoarding; ≤2.5m high, metal cladding including timber/metal support, bracing and all other necessary works	m	\$ 40.00
ZA6	Safety hoarding; 2.5m - 4m high, metal cladding including timber/metal support, bracing and all other necessary works	m	\$ 80.00
ZA7	Safety barricades, signboard or any relevant acceptable safety measures	Lot	\$ 50.00
ZA8	Heavy duty green canvas inclusive of ropes and installation	m2	\$ 10.00
ZA9	Barrier warning tapes (Red and white colour).	m	\$ 2.00
	<u>Anti skid tape</u>		
ZA10	25mm	m	\$ 3.00
ZA11	50mm	m	\$ 5.00
AZ12	100mm	m	\$ 10.00
ZB	REMOVAL AND RENISTATE ELECTRICAL WIRING AND FITTINGS		
ZB1	To remove and refix existing electrical fittings and wiring back to existing location, including all necessary works	m2	\$ 10.00
ZC	CRACKS FILLER, PUTTY OR SEALER		
ZC1	To remove, clean existing sealer, filler or putty prior to receive new filler or sealer.	m	\$ 4.00
ZC2	To cut out the cracks with a masonry grinder or disc cutter, to form square edges slot, and remove all dust and debris.	m	\$ 10.00
ZC3	To supply and lay new sealer, a mixture of bonding agent and cement paste to cracks and opening to masonry building generally	m	\$ 15.00
ZC4	To supply and lay new sealant, to cracks and opening to masonry building generally	m	\$ 15.00
ZC5	To supply and lay new roof asphalt cement to roof blister, cracks, joint and opening generally including warranty	m	\$ 20.00

Item	Description	Unit	Rate
Z	CLEAN AND UNBLOCK CLOGGED SANITARY SYSTEM		
ZD	EXCAVATION FOR ROADS, HARDSTANDING AND THE LIKES Extra over all types of excavation/ cutting using appropriate cutter equipment/ machine and disposal for breaking up and removing the following met with in excavation		
ZD1	reinforced concrete	m ³	\$ 55.00
ZD2	rock	m ³	\$ 22.00
ZD3	tarmacadam road surfacing and base courses	m ²	\$ 16.00
ZD4	SEALING OF PAVEMENT CRACKS Sealing of road pavement cracks with bitumen sand mix (1:2 portion) as directed by SO.	m	\$ 3.00
ZE	SIGNAGE POSTS		
ZE1	Repainting of existing post of any size as directed by the SO.	m	\$ 5.00
ZE2	Realignment / Adjustment of existing tilted/turned regulatory / warning signs and post of any size including making good the surrounding to match existing or as directed by the SO.	No	\$ 6.00
ZF	DIRECTIONAL / WARNING SIGNAGES Supply and installation single/double faced directional, regulatory, warning and other types of signs comprising of 3mm thick aluminium sheet approved diamond grade reflective sheetings including all required size of letters, numbers, logo(s) and all necessary backing, stiffening, welding, painting, footing, disposal of debris and any other type of connections as specified in the specification, drawings or directed by the SO.	m ²	\$ 200.00
ZG	<u>BOLLARDS / POST</u>		
ZG1	Supply and fix new 75mm G.I pipe/post traffic bollards; fixed to concrete / bitumen surface; including painting, headcap, surface hacking, make good to existing surfaces and all necessary works	m	\$ 25.00
ZG2	Ditto 100mm	m	\$ 30.00
ZG3	Supply and fix new 50mm G.I pipe railing/barrier; fixed to concrete / bitumen surface including bending, hacking, painting, make good to existing surfaces and all necessary works	m	\$ 13.00
ZG2	Supply and fix removable 75mm dia. HDGI barrier posts 1300mm high, round head, with ring including steel chain and padlock to be cast into footing; 100mm dia. 300mm deep GI housing in 300mm x 300mm x 450mm deep concrete (1:2:4) surrounding at 750mm centres and approved painted finishes. cast to include excavation, hacking work etc to existing surface and make good.	no	\$ 200.00

