

UNIVERSITI BRUNEI DARUSSALAM

Bil. Sebutharga / Quotation

UBD/Q/243/2024 - [G]

TERM CONTRACT (1 YEAR) REPAIR WORKS AT KUALA BELALONG FIELD STUDIES CENTRE (KBFSC) TEMBURONG UNIVERSITI BRUNEI DARUSSALAM

Item	Description	Unit	Rate
1	Transport (temuai) charges and other deemed necessary to carried out the following work.	Per Trip	\$ 200.00
A	<u>BUILDING GENERAL REPAIRWORK</u>		
A1	CLEARING Clear any vegetation, grass, shrubs, trees bushes, stone, boulder and the like; clear all debris offsite or at S.O discretion	m ²	\$ 1.00
B	CUTTING Cut down large tress including grubbing up roots and filling voids with imported fills		
B1	< 150mm ø	no	\$ 250.00
B2	150mm - 300mm ø	no	\$ 400.00
B3	> 300mm ø	no	\$ 650.00
C	DEMOLITION AND ALTERATION Break-up concrete including cutting and bending of reinforcement; dispose off site; all necessary excavation and backfilling; make good all work disturbed in material to match existing		
	Reinforced concrete substructures, ground slabs including removing any finishes and sub base under		
C1	100mm thick	m ²	\$ 8.00
C2	150mm thick	m ²	\$ 10.00
C3	200mm thick	m ²	\$ 12.00
C4	250mm thick	m ²	\$ 15.00
C5	300mm thick	m ²	\$ 18.00
	Reinforced concrete structures, slabs, walls and the like including removing any finishes		
C6	100mm thick	m ²	\$ 8.00
C7	150mm thick	m ²	\$ 10.00
C8	200mm thick	m ²	\$ 12.00
C9	300mm thick	m ²	\$ 18.00
	<u>Strip off or removal of and dispose off site roof finishes</u> Waterproof membrane roof finishes and cleaning surfaces using appropriate solvent to bare concrete		
C10	Flat roof, side and bottom of gutters	m ²	\$ 2.00
C11	Roof structure and finishes complete with all flashing, underlaying roofing paper, insulation, weld mesh and members/trusses	m ²	\$ 11.00
C12	Roof finishes complete with all flashing, underlaying roofing paper, insulation and weld mesh	m ²	\$ 8.00
	<u>Remove metal cladding; clear all debris off site</u> wall cladding including metal or timber framing		
C13		m ²	\$ 2.50
	<u>Remove and dispose offsite rainwater goods including all fittings and brackets</u> UPVC or metal gutter, downpipes etc		
C14		m	\$ 1.50
C15	Hack off concrete to remove gutter downpipe and make good works disturbed	no	\$ 14.00

Item	Description	Unit	Rate
C	DEMOLITION AND ALTERATION		
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
	<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

Item	Description	Unit	Rate
C	DEMOLITION AND ALTERATION		
	Manually and or mechanically tearing down/dismantling not exceeding two storey man-made structures, dispose debris off-site and make good works disturbed		
C46a	timber /wooden and the like	m ²	\$ 40.00
C46b	concrete/ brick and the like	m ²	\$ 80.00
	<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>		
C54	Timber partition	m ²	\$ 5.00
C55	Timber partition 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>		
C58	To hack and form shallow scupper drain 100-150mm wide including tiling if necessary and all necessary works	m	\$ 10.00
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
	<u>Sand consolidated in layers</u>		
D6	over 300 mm thick	m ³	\$ 30.00
D7	50 mm thick (average)	m ²	\$ 2.50
D8	75 mm thick (average)	m ²	\$ 3.50

Item	Description	Unit	Rate
D	EARTH WORKS & EXCAVATION		
	<u>Sand consolidated in layers</u>		
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
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

Item	Description	Unit	Rate
F	INSITU CONCRETE & FORMWORK		
	<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.		
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.		
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
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
	<i>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)</i>		

Item	Description	Unit	Rate
H	SUNDRIES		
	<u>Expansion joints</u> Flexcell bitumen impregnated fibre board, sealed at top with Thioflex One polysulphide rubber sealant		
	Walls and the like		
H8	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
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

Item	Description	Unit	Rate
J	ROOFING WORKS (Cont'd)		
	<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
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	Repair to leaking ; metal roof ; UPVC gutter ; metal gutter with sealant to all bolt heads and leaking joints / gap and replacing /refixing existing ridge capping and tightening all roof connection and apply CPRU approved waterproofing coatings to surfaces of roof / internal of gutter	m ²	\$ 50.00
	Supply new gutter including all accessories and make good work distrubed.		
	UPVC Gutter	m	\$ 20.00
	Stainless Steel Gutter	m	\$ 40.00
	Aluminium Gutter	m	\$ 40.00
	Galvanised Gutter	m	\$ 25.00
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, filllets, 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
L12A	25mm x 250mm (1" x 10")	m	\$ 9.50

Item	Description	Unit	Rate
L	CARPENTRY WORKS (Cont'd)		
	<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
L19A	75mm x 200mm (3" x 8")	m	\$ 17.00
L19B	125mm x 125mm (5" x 5")	m	\$ 23.00
L19C	150mm x 150mm (6" x 6")	m	\$ 28.00
L19D	200mm x 200mm (8" x 8")	m	\$ 38.00
L19E	100mm x 250mm	m	\$ 46.00
	<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
L27A	200mm x 200mm (8" x 8")	m	\$ 38.00
	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
L37a	Refix and repair to loose/sagged ceiling including nailing and all necessary works to match existing and make good works disturbed.	m ²	\$ 5.00
L38	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	\$ 35.00
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

Item	Description	Unit	Rate
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
	<u>Doors</u> Solid panelled doors generally constructed in red meranti; complete with approved painting and accessories such as framing, jambs, hinges and the likes		
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 and accessories such as framing, jambs, hinges and the likes		
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 and accessories such as framing, jambs, hinges and the likes		
M12	Single leaf	no	\$ 120.00
M13	Double equal leaf	no	\$ 240.00
M14	Double unequal leaf	no	\$ 200.00
	Flush doors generally constructed in teak veneered plywood; complete with approved painting and accessories such as framing, jambs, hinges and the likes		
M15	Single leaf	no	\$ 180.00
	UPVC doors complete with framing, jambs, hinges and any necessary fittings		
M16	Plain	no	\$ 140.00
M17	Plain with size of less than 900mm x 2100mm	no	\$ 120.00
M18	Plain with ventilated louvres	no	\$ 150.00
M19	Decorative	no	\$ 160.00
	<u>Doors</u> UPVC doors only complete with hinges		
M20	Plain	no	\$ 110.00
M21	Plain with size less than 900mm x 2100mm	no	\$ 95.00
M22	Plain with ventilated louvres	no	\$ 120.00
M23	Decorative	no	\$ 130.00
M24	UPVC jambs	no	\$ 50.00
M24a	Refix and repair to loose/tilted/misaligned door panel including frame/ jamb, accessories/fittings and make good works disturbed.	no	\$ 3.00

Item	Description	Unit	Rate
M	JOINERY (Cont'd)		
	<u>Remove existing and replace with new finishings in wrought treated kapur bukit</u> Door frames, window frames and the like		
M25	38mm x 125mm	m	\$ 9.00
M26	38mm x 150mm	m	\$ 10.00
M27	38mm x 200mm	m	\$ 13.00
M28	50mm x 125mm	m	\$ 10.00
M29	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		
M30	50mm x 100mm	m	\$ 6.00
M31	50mm x 150mm	m	\$ 14.50
	<u>Formica 0.7mm thick laminated plastic sheet; fixing with a contact adhesive; color as per selected standard color</u>		
M32	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>		
M33	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>		
M34	counter not exceeding 950mm high x 900mm width	m	\$ 235.00
M35	low level cabinet not exceeding 750mm high x 600mm width	m	\$ 210.00
M36	wall hung cabinet not exceeding 600mm high x 600mm width	m	\$ 195.00
M37	benches not exceeding 500mm high x 500mm width	m	\$ 185.00
M38	cabinet up to ceiling height with a width of 600mm and approx height of 3 m	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>		
M39	counter not exceeding 950mm high x 900mm width	m	\$ 285.00
M40	low level cabinet not exceeding 750mm high x 600mm width	m	\$ 265.00
M41	wall hung cabinet not exceeding 600mm high x 600mm width	m	\$ 240.00
M42	benches not exceeding 500mm high x 500mm width	m	\$ 230.00
M43	cabinet up to ceiling height with a width of 600mm and approx height of 3 m	m	\$ 700.00
	Refix and repair to counter/cabinet/benches or to replace fixtures/fittings with new to match existing, dispose debris off-site and make good works disturbed.		
M44	frames	m	\$ 1.00
M45	surfaces/layers	m ²	\$ 2.00
M46	door	m ²	\$ 2.00
M47	adjust/ tighten misaligned/loose knob/ hinges/ door/drawer	lot	\$ 2.00
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 Concept entrance knobset PSS 70mm (3000PSS) or approved equivalent	no	\$ 48.00

Item	Description	Unit	Rate
N	IRON MONGERY (Cont'd)		
N5	Supply and fix Union Gower Mortice lockset CH (682-13-241) or approved equivalent	no	\$ 130.00
N6	Supply and fix 90mm barrel bolt	no	\$ 20.00
N7	Supply and fix 240mm barrel bolt	no	\$ 25.00
N8	Supply and fix door closer	no	\$ 140.00
N9	Supply and fix 2.5" door latch	no	\$ 4.50
	<u>Architectural Ironmongery fixed to timber or metal with matching screws</u>		
	Push plates; kicking plates with holes for lockset		
N10	300mm x 200mm x 2mm	no	\$ 30.00
N11	900mm x 200mm x 2mm	no	\$ 75.00
	Sundry Ironmongery		
N12	Union 7400' Door stops or approved equivalent; fixing to walls or floors	no	\$ 11.00
N13	Rubber Door stops; fixing to walls or floors	no	\$ 2.50
N14	Anodised aluminium crescent lock for sliding window	no	\$ 3.00
N15	Anodised aluminium lever lock for window	no	\$ 5.00
N16	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
O6a	Repair and fix loose/tilted/misaligned sliding window and door frames by joining or fastening with rivets including all fittings/ accessories and make good work disturbed.	nos	\$ 1.00

Item	Description	Unit	Rate
O	METAL WORKS (Cont'd)		
	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 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 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
O23	Fabricate and fix new stainless steel flag pole 8000mm high; consists of 75mm diameter lower-half, 50mm diameter upper-half, 75mm diameter ball, tiltable 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>		
O24	Square hollow section 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

Item	Description	Unit	Rate
O	METAL WORKS (Cont'd)		
	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
	<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

Item	Description	Unit	Rate
O	METAL WORKS (Cont'd)		
	<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
O58a	Repair and fix loose/tilted/misaligned sliding security grille including running track by adjusting or tightening existing accessories and fittings or to replace with new and make good work disturbed.	lot	\$ 10.00
	<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
O65	Repair and fix loose/tilted/misaligned/shaky handrails or posts by tightening existing with new additional posts, balustrade, reinforcement complete with welded joints, plates, covering plates, bolts, cast into concrete and all necessary works and make good works disturbed.	no	\$ 20.00
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
	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
P8	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
	WALL FINISHES		
P8A	Formica Panel 0.6mm thk Gloss finish supply and install c/w all other necessary works required.	m ²	\$ 13.50
P8B	Formica Panel 0.7mm thk Mat finish supply and install c/w all other necessary works required.	m ²	\$ 23.00

Item	Description	Unit	Rate
P	WALL AND FLOOR FINISHES (Cont'd)		
	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)		
P9	200mm x 200mm x 8mm thk	m ²	\$ 30.00
P10	200mm x 300mm x 8mm thk	m ²	\$ 32.00
P11	300mm x 300mm x 8mm thk	m ²	\$ 34.00
P12	300mm x 600mm x 8mm thk	m ²	\$ 38.00
P13	600mm x 600mm x 8mm thk	m ²	\$ 45.00
P15	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
P15A	To supply and install 12mm thk fiber cement board for flooring including painting	m ²	\$ 36.00
P15B	To supply and install 9mm thk fiber cement board for flooring including painting	m ³	\$ 28.00
P15C	To supply and install 6mm thk fiber cement board for flooring including painting	m ⁴	\$ 22.00
P16	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		
P17	Ceramic/Homogeneous skirting tiles laid and jointed	m	\$ 4.00
P18	Ceramic/Homogenous nosing tiles in edging or steps laid and jointed	m	\$ 4.00
P19	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		
P20	26oz/yd ²	m ²	\$ 30.00
P21	30 oz/yd ²	m ²	\$ 38.00
P22	36 oz/yd ²	m ²	\$ 44.00
P23	5mm rubber underlay as above	m ²	\$ 8.00
	SLAB FINISHES		
P24	Labour for carefully taking out existing loose or sunken paver block and stack aside for re-use	m ²	\$ 5.00
P25	Select from stack and re-use existing paver block including jointing and compacting using sand	m ²	\$ 10.00

Item	Description	Unit	Rate
P	WALL AND FLOOR FINISHES (Cont'd)		
	<u>Damp proof courses; BS743 type 5B; well lapped</u>		
P28	horizontal; over 300mm wide	m ²	\$ 23.00
P29	horizontal; 102.5mm wide	m	\$ 2.00
P30	horizontal; 215mm wide	m	\$ 4.00
	EXTERNAL WALL CLADDING		
P31	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
P32	Shera Floor Finish or other approve equivalent Supply and install Sherafloor plank complete with accessories.		
	16MM Thk	m ²	\$ 25.00
	25MM Thk	m ²	\$ 30.00
	30MM Thk	m ²	\$ 36.00
P33	Supply and install Shera skirt complete with accessories. 300MM (w) x 12MM (Thk)	m	\$ 7.00
P34	STAIR Supply and install Shera Stair complete with accessories.		
a	Stair Tread 35mm Thk	m ²	\$ 123.00
b	Stair Riser 16mm Thk	m ²	\$ 63.00
P35	External wall Supply and install Shera Plank complete with accessories.		
a	6mm Thk	m ²	\$ 12.00
b	8mm Thk	m ²	\$ 16.00
c	10mm Thk	m ²	\$ 20.00
P36	Supply and install Shera Eaves 16mm Beveled Edge Uncolor complete with accessories.	m	\$ 10.00
Q	GLAZING		
	Supply and fix glazing complete with fittings/ accessories and all necessary works		
	<u>Clear sheet glass to B.S 952</u>		
Q1	6mm thick Glaze to timber with timber beads	m ²	\$ 45.00
Q2	6mm thick Glaze to metal with neoprene gaskets	m ²	\$ 39.00
	<u>Light tinted sheet glass to B.S 952</u>		
Q3	6mm thick Glaze to timber with timber beads	m ²	\$ 47.00
Q4	6mm thick Glaze to metal with neoprene gaskets	m ²	\$ 41.00
	<u>Opaque sheet glass to B.S 952</u>		
Q5	6mm thick Glaze to timber with timber beads	m ²	\$ 49.00
Q6	6mm thick Glaze to metal with neoprene gaskets	m ²	\$ 43.00
	<u>Reinforced sheet glass to B.S 952</u>		
Q7	6mm thick Glaze to timber with timber beads	m ²	\$ 55.00
Q8	6mm thick Glaze to metal with neoprene gaskets	m ²	\$ 49.00

Item	Description	Unit	Rate
R	CURTAINS & BLINDS		
R1	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
R2	PVC Vinyl 'Blackout' Curtain of selected standard colour complete with all control gear to suit opening size	m ²	\$ 25.00
R3	To supply and install Aluminium Mosquito Net to replace existing net.	m ²	\$ 10.00
R4	Roller Blind To supply and install new roller blind complete with Roller window horizontal blind components and fixing to timber or concrete soffits to suit opening size;		
a	Non blackout blinds.	m ²	\$ 35.00
b	Blackout blinds.	m ²	\$ 35.00
c	Zebra Blackout Blinds.	m ²	\$ 70.00
S	PAINTING WORKS		
S1	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 Concrete, cement board, gypsum, wood, metal, aluminium surfaces and the like	m ²	\$ 2.50
S2	One coat NIPPON Vinilex 5101 or Bodelac 9000 (primer for exterior/plastered)	m ²	\$ 1.30
S3	One coat NIPPON Weatherbond (finishing for exterior/plastered)	m ²	\$ 2.80
S4	One coat NIPPON Bodelac 9000 (undercoat for wood & metal)	m ²	\$ 2.80
S5	One coat NIPPON Bodelac 9000 (finishing for wood & metal)	m ²	\$ 2.80
S6	One coat NIPPON Timberlac (finishing for wood)	m ²	\$ 3.00
S7	One coat NIPPON Vinilex 5170 (primer for interior/gypsum/plastered)	m ²	\$ 1.40
S8	One coat NIPPON Vinilex 5000 (low odour finishing for interior/gypsum/plastered)	m ²	\$ 2.80
S9	One coat NIPPON Vinyl Silk (finishing for interior/gypsum/plastered)	m ²	\$ 3.00
S10	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
T	SIGNAGE		
T1	Demolish existing metal signage; clear debris off site	no	\$ 50.00
T2	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		
T3	Acrylic	no	\$ 3,200.00
T4	Embossed Stainless Steel	no	\$ 3,800.00
U	FENCING WORKS		
U1	Supply and fix SWG 8 PVC coated fencing mesh including 3 No straining wire, clips and other accessories	m ²	\$ 14.00
U2	Supply and fix SWG 12 galvanized fencing mesh including 3 No straining wire, clips and other accessories	m ²	\$ 13.00
U3	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
U4	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
U5	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
U6	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
U7	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
U8	Supply and fix double leaf swing gate size 6400mm wide x 1800mm high including 100mm GI post complete	Set	\$ 2,100.00
U9	Supply and fix 1000mm wide x 1800mm high pedestrian gate including 100mm GI post complete	no	\$ 350.00
U10	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	Set	\$ 1,900.00
U11	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	Set	\$ 2,200.00
U12	Fabricate and install MS 1000mm wide x 1800mm high pedestrian gate including 100mm diameter post	no	\$ 300.00
U13	Supply and fix galvanised mild steel barbed wire	m	\$ 3.00
U14	Refix and repair to loose/disjointed/misaligned/ tilted fencing mesh/ panel/ post by welding or tightening existing accessories and fittings or to replace with new and make good work disturbed.	no	\$ 10.00

Item	Description	Unit	Rate
V	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		
V1	32mm diameter UPVC BS.4514 solvent welded joints	m	\$ 20.00
V2	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		
V3	75mm diameter UPVC BS.4514 solvent welded joints	m	\$ 28.00
V4	100mm diameter UPVC BS.4514 with ring seal or solvent welded joints	m	\$ 35.00
	UPVC soil, waste and vent pipes to BS 4514, solvent welded joints including holder bats/hangers.		
V5	32mm diameter pipes	m	\$ 6.00
V6	50mm diameter pipes	m	\$ 8.00
V7	75mm diameter pipes	m	\$ 12.00
V8	100mm diameter pipes	m	\$ 15.00
	Extra over for all necessary fittings, sockets, connectors, reducers, plugs, elbows, tees, junctions and other similar pipe fittings complete with access/inspection openings		
V9	75mm diameter UPVC BS.4514 solvent welded joints	No	\$ 5.00
V10	100mm diameter UPVC BS.4514 solvent welded joints	No	\$ 7.00
	COLD WATER INSTALLATION		
	<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.		
V11	15mm diameter	m	\$ 14.00
V12	22mm diameter	m	\$ 19.00
V13	28mm diameter	m	\$ 25.00
V14	35mm diameter	m	\$ 35.00
V15	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		
V16	12mm diameter pipes	m	\$ 7.00
V17	20mm diameter pipes	m	\$ 9.00
V18	25mm diameter pipes	m	\$ 12.00
V19	32mm diameter pipes	m	\$ 16.00
V20	40mm diameter pipes	m	\$ 20.00
V21	50mm diameter pipes	m	\$ 25.00
	Remove existing pipe and replace with new UPVC pipe including fittings to BS 4514 to wall / floor		
V22	32mm diameter main soil, waste and vent pipes	m	\$ 6.00
V23	50mm diameter soil, waste, vent and overflow pipes	m	\$ 8.00
V24	75mm diameter soil, waste, vent and overflow pipes	m	\$ 12.00
V25	100mm diameter soil, waste, vent and overflow pipes	m	\$ 18.00
V26	≥150mm diameter overflow pipes	m	\$ 22.00

Item	Description	Unit	Rate
W	PLUMBING WORKS (Cont'd)		
	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		
W27	15mm diameter	No	\$ 20.00
W28	22mm diameter	No	\$ 24.00
W29	28mm diameter	No	\$ 30.00
W30	≥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		
W31	15mm diameter	No	\$ 14.00
W32	22mm diameter	No	\$ 16.00
W33	28mm diameter	No	\$ 20.00
W34	≥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		
W35	15mm diameter	No	\$ 10.00
W36	20mm diameter	No	\$ 12.00
W37	25mm diameter	No	\$ 15.00
W38	≥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		
W39	20mm outer diameter pipes	m	\$ 15.00
W40	25mm outer diameter pipes	m	\$ 16.00
W41	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 pipe fittings:		
W42	>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		
W43	110mm outer diameter pipes	m	\$ 50.00
W44	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 pipe fittings:		
W45	>110mm outer diameter pipes	No	\$ 110.00
	Ductile iron pipe including all necessary fittings and sockets, connectors, reducers, plugs, elbow, tees, union, nipple, bush and other similar pipe fittings		
	100mm	m	\$ 80.00
	150mm	m	\$ 100.00
	200mm	m	\$ 120.00
	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		
W46	15mm diameter pipes	m	\$ 15.00
W47	22mm diameter pipes	m	\$ 20.00
W48	28mm diameter pipes	m	\$ 26.00
W49	35mm diameter pipes	m	\$ 35.00
W50	42mm diameter pipes	m	\$ 42.00
W51	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.		
X9	American Standard; Squatting type or other technically approved equivalent (Vitreous China-high/low level-white)	No	\$ 350.00
X10	American Standard or other approved equivalent (Vitreous China-low level-white)	No	\$ 390.00
X11	American Standard or other approved equivalent (Vitreous China-low level-coloured)	No	\$ 390.00
X12	American standard close coupled or other technically approved equivalent (Vitreous China-White)	No	\$ 390.00
X13	American standard close coupled or other technically approved equivalent (Vitreous China-Coloured)	No	\$ 390.00
	<u>Water closet Cistern Tank with complete necessary fittings</u>		
X13a	UPVC	No	\$ 40.00
X13b	Vitreous China or other technically approved equivalent	No	\$ 80.00
	<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	Plain Vitreous China	No	\$ 48.00
X18a	Plain UPVC	No	\$ 15.00
X18b	With dual flush push mechanism	No	\$ 60.00
	<u>Water Closet Bowl</u>		
X18c	European Type	No	\$ 200.00
X18d	Asian Squatting Type	No	\$ 150.00
	<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 (Cont'd)		
	<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 Showy 48" s/s double lock f/hose 22F/1 bidet spray (6319) or approved equivalent c/w lever type tap	No	\$ 36.00
	<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
X27	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>		
X28	UPVC - 38mm diameter bottle trap	No	\$ 12.00
X29	UPVC - 45mm diameter bottle trap	No	\$ 14.00
X30	UPVC - 50mm diameter Tubular "P" trap	No	\$ 20.00
X31	UPVC - 75mm diameter "P" trap with rodding eyes	No	\$ 23.00
X32	HDPE bottle trap	No	\$ 25.00
X33	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		
X34	100mm diameter	No	\$ 80.00
X35	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>		
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
	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		
X41	695 x 545 x 45mm thick	No	\$ 130.00

Item	Description	Unit	Rate
X	SANITARY INSTALLATION (Con		
	<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		
X42	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		
X43	600 x 450mm overall	No	\$ 272.00
Y	ACCESSORIES AND ANCILLARIES		
	Note : All tap shall use brand: Toto, 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
Y7a	150 mm diameter	No	\$ 500.00
	<u>Non-return Valve; including</u>		
Y7b	75mm diameter	No	\$ 200.00
Y7c	100mm diameter	No	\$ 250.00
Y7d	150mm diameter	No	\$ 350.00
Y8	Remove existing tap of any sizes and brand	No	\$ 10.00
	Supply and fix new or approved equivalent:		
Y9	Showy Q-turn single level wall sink tap (6053)	No	\$ 35.00
Y10	Showy metal lever Q-turn pillar tap (2565M-PQC)	No	\$ 38.00
Y11	Showy quarter turn single lever bib faucet 140mm (6272)	No	\$ 31.00
Y12	Showy Q-turn single level 'U' spout sink tap (51U,6051UP)	No	\$ 41.00
Y13	Showy CP shower stop cock (2575SC)	No	\$ 14.00
Y14	Showy 'The Pure' cp brass garden tap (2988)	No	\$ 9.00
Y15	Showy Q-turn single level sink tap w/flex spout (6051F-50)	No	\$ 50.00

Item	Description	Unit	Rate
	<u>Swan - Neck Type Tap</u>		
Y16	To remove existing and 1 or 2-ways laboratory water tap to workbenches	No	\$ 5.00
Y17	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>		
Y18	2-Way heavy duty stainless Swan Neck Tap	No	\$ 75.00
Y19	Ditto 3-way	No	\$ 250.00
Y20	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 :		
Y21	15mm diameter; connection to pipe	No	\$ 13.00
Y22	20mm diameter; connection to pipe	No	\$ 15.00
	<u>Repair pipe with new Collar Clamp</u>		
Y23	50mm diameter pipes	No	\$ 100.00
Y24	65mm diameter pipes	No	\$ 150.00
Y25	80mm diameter pipes	No	\$ 200.00
	100mm diameter pipes	No	\$ 250.00
	150mm diameter pipes	No	\$ 300.00
	<u>Repair pipe with new Split Collar Clamp</u>		
Y26	50mm diameter pipes	No	\$ 100.00
Y27	65mm diameter pipes	No	\$ 150.00
Y28	80mm diameter pipes	No	\$ 200.00
	100mm diameter pipes	No	\$ 250.00
	150mm diameter pipes	No	\$ 300.00
Y	ACCESSORIES AND ANCILLARIES		
	<u>Automatic Flushing Valve and Cistern</u>		
Y29	"American Standard 8902" toilet flush valve or any other technically approved equivalent	No	\$ 50.00
Y30	"American Standard 8900" urinal flush valve or any other technically approved equivalent	No	\$ 50.00
Y31	"Coroline 831" urinal plastic auto cistern (4.5 litres) or any other technically approved equivalent	No	\$ 80.00
Y32	"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>		
Y33	W.C Siphon tank fittings	No	\$ 50.00
Y34	"Armitage Shank" Free Flow or any other technically approved equivalent	No	\$ 50.00
Y35	"American Standard" TF-1011 or any other technically approved equivalent	No	\$ 50.00
	<u>Water Tank</u>		
Y36	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
Y37	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
Y38	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

Item	Description	Unit	Rate
Y39	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		
Y40	25mm (1")	No	\$ 30.00
Y41	32mm (1 1/4")	No	\$ 35.00
Y42	50mm (2")	No	\$ 42.00
Y43	75mm (3")	No	\$ 50.00
Y44	100mm (4")	No	\$ 100.00
	Brass Ball Float Valve c/w Copper Ball		
Y45	75mm (3")	No	\$ 75.00
Y46	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
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

Item	Description	Unit	Rate
	SAFETY SIGNS/HOARDING		
	Construct and install;		
ZA5	Safety hoarding; ≤2.5m high, metal cladding including timber/metal support, bracing and all other	m	\$ 40.00
ZA6	Safety hoarding; 2.5m - 4m high, metal cladding including timber/metal support, bracing and all	m	\$ 80.00
	Supply and install;		
ZA7	Safety barricades, safety cones, signboard, safety netting or any relevant acceptable safety measures	Lot	\$ 50.00
ZA8	Heavy duty green canvas inclusive of ropes, pegs and installation	m2	\$ 6.00
ZA9	Barrier warning tapes (Red and white colour).	m	\$ 0.10
	<u>Anti skid tape</u>		
ZA10	25mm	m	\$ 3.00
ZA11	50mm	m	\$ 5.00
AZ12	100mm	m	\$ 10.00
2	REMOVAL AND REINSTATE ELECTRICAL APPLIANCES AND WIRINGS		
A	To remove and refix existing electrical appliances and fittings back to existing location, including all necessary works.	No.s	\$ 3.00
B	To remove and refix existing electrical wiring/ cable/ trunking back to existing location, including all necessary works.	m	\$ 1.00
C	ELECTRICAL WORKS		
	Light Bulb & Control		
	Supply and install		
	a) 18W fluorescent tube c/w ballast and starter	Per Pc	B\$ 23.00
	b) 36W fluorescent tube c/w ballast and starter	Per Pc	B\$ 25.00
	c) 10W LED daylight recessed bulb	Per Pc	B\$ 11.00
	d) 18W LED daylight recessed bulb	Per Pc	B\$ 15.00
	e) 18W LEW PAR 38 dimmable bulb (E27 base)	Per Pc	B\$ 25.00
	f) 3.6W candle bulb (E14 base)	Per Pc	B\$ 17.50
	g) 9W (pls 2pin down light) c/w ballast	Per Pc	B\$ 15.00
	h) 8W (E 27 down light) c/w ballast	Per Pc	B\$ 15.00
	Light Control, Switches and Socket outlet		
	a) 13A Single Switch complete with accessories	Per Pc	B\$ 6.00
	b) 13A Double gang Switch complete with accessories	Per Pc	B\$ 8.00
	c) 13A Triple gang Switch complete with accessories	Per Pc	B\$ 10.00
	d) 13A Single Switch outlet	Per Pc	B\$ 6.00
	e) 13A Twin Switch outlet	Per Pc	B\$ 8.00
	f) 15A Single Switch outlet	Per Pc	B\$ 10.00
	To supply and install		
	a) Ceiling fan C/W regulator	Per Pc	\$ 105.00
	b) 1.5mm2	Per Meter	\$ 0.55
	c) 2.5mm2	Per Meter	\$ 0.70
	d) Approved water Pump 1.1 KW	Per Pc	\$ 853.60
	e) To fix waterpump	Per Lot	\$ 34.50
	f) PVC wire Casing conduit 25mm	Per Pc	\$ 3.30
	g) Approved water Pump 1.5kw	Per Pc	\$ 900.00
	h) NX120-7L battery	Per PC	\$ 200.00
	i) Exhaust fan (equivalent as existing)	Per PC	\$ 20.00
	j) Water Heater (equivalent as existing)	Per PC	\$ 200.00
D	To provide labour cost to clean existing solar panels using approve cleaning product, tools and equipment to s.o approve. (contractor to fill in the rate)	Per PC	\$ 30.00
E	To provide one Technician and one helper to do troubleshooting electrical and aircon unit, servicing and attended complain including standby when required by client anytime		
1	electrical	Per Day	\$ 40.00
2	assistant	Per Day	\$ 20.00

Item	Description	Unit	Rate
2	ELECTRICAL WORKS		
2.1	Thermostat including sensor as required	Per PC	\$ 63.00
2.2	Air Filter, soft foam/sponge type	Per PC	\$ 21.00
2.3	Air Filter, hard PVC mesh frame type	Per PC	\$ 49.00
2.4	Air Blower, Evaporator fan	Per PC	\$ 70.00
2.5	Over load Relay, for compressor 32-amps	Per PC	\$ 42.00
2.6	Fan motor Bearing		
	'6306	Per PC	\$ 42.00
	'6308	Per PC	\$ 70.00
	'6311	Per PC	\$ 91.00
2.7	Filter Drier		
	a. EK 084	Per PC	\$ 28.00
	b. EK306	Per PC	\$ 70.00
	c. Alco 165 5/8"	Per PC	\$ 56.00
	d. H-48	Per PC	\$ 98.00
2.8	Capacitor running/starting		
	a. '2-5 MFD	Per PC	\$ 7.00
	b. 6-15 MFD	Per PC	\$ 21.00
	c. 16-29 MFD	Per PC	\$ 28.00
2.9	Magnetic Contactor		
	a. LC1 D-09	Per PC	\$ 28.00
	b. LC1 D-12	Per PC	\$ 35.00
	c. LC1 D-18	Per PC	\$ 56.00
2.1	Remote control for Split Unit	Per PC	\$ 112.00
2.11	Universal remote with receiver board	Per PC	\$ 154.00
2.12	High pressure switch D306XM	Per PC	\$ 140.00
2.13	Low pressure switch D306XM	Per PC	\$ 140.00
2.14	Service valve	Per PC	\$ 28.00
2.15	Refrigerant piping connector coupling	Per PC	\$ 14.00
2.16	Front cover	Per PC	\$ 70.00
2.17	Flexible hose, 1/2 "dia. / m	M	\$ 7.00
2.18	Remote to wire type including necessary parts	Per Lot	\$ 280.00
2.19	Fully hermetic compressor for RAC R-22 any make c/w filter drier, service valve, motor protector, crankcase heater, capacitor + 9 months warranty including testing & commissioning		
	a. 7,000 Btu/hr – 11,000Btu/hr	Per No	\$ 252.00
	b. 12,000 Btu/hr – 17,000 Btu/hr	Per No	\$ 385.00
	c. 18,000 Btu/hr – 24,000 Btu/hr	Per No	\$ 483.00
2.2	Fully hermetic compressor for Split Unit R-22 any make c/w filter drier, service valve, motor protector, crankcase heater, capacitor + 9 months warranty including testing & commissioning		
	a. 7,000 Btu/hr – 11,000Btu/hr	Per No	\$ 252.00
	b. 12,000 Btu/hr – 17,000 Btu/hr	Per No	\$ 385.00
	c. 18,000 Btu/hr – 24,000 Btu/hr	Per No	\$ 483.00
2.21	Fan Blade for Condenser, Split Unit any make		
	a. 7,000 Btu/hr – 11,000Btu/hr	Per No	\$ 70.00
	b. 12,000 Btu/hr – 17,000 Btu/hr	Per No	\$ 70.00
	c. 18,000 Btu/hr – 24,000 Btu/hr	Per No	\$ 84.00
2.22	Micro-Computer Control for Split Unit any make		
	a. 7,000 Btu/hr – 11,000Btu/hr	Per No	\$ 140.00
	b. 12,000 Btu/hr – 17,000 Btu/hr	Per No	\$ 168.00
	c. 18,000 Btu/hr – 24,000 Btu/hr	Per No	\$ 224.00
2.23	Electronic Printed Circuit Boards for Split Unit any make		
	a. 7,000 Btu/hr – 11,000Btu/hr	Per No	\$ 133.00
	b. 12,000 Btu/hr – 17,000 Btu/hr	Per No	\$ 252.00
	c. 18,000 Btu/hr – 24,000 Btu/hr	Per No	\$ 280.00
	d. 18,500 Btu/hr - 28,000 Btu/hr	Per No	\$ 336.00
2.24	FCU Fan Scroll for Split Unit any make		
	a. 7,000 Btu/hr – 11,000Btu/hr	Per No	\$ 161.00
	b. 12,000 Btu/hr – 17,000 Btu/hr	Per No	\$ 161.00
	c. 18,000 Btu/hr – 24,000 Btu/hr	Per No	\$ 182.00
2.25	New Condenser Fan motor for Split Unit any make		
	a. 7,000 Btu/hr – 11,000Btu/hr	Per No	\$ 133.00
	b. 12,000 Btu/hr – 17,000 Btu/hr	Per No	\$ 182.00
	c. 18,000 Btu/hr – 24,000 Btu/hr	Per No	\$ 224.00

Item	Description	Unit	Rate
2.26	New Fan motor for RAC any make a. 7,000 Btu/hr – 11,000Btu/hr b. 12,000 Btu/hr – 17,000 Btu/hr c. 18,000 Btu/hr – 24,000 Btu/hr	Per No Per No Per No	\$ 133.00 \$ 182.00 \$ 224.00
2.27	New Fan Coil Unit Fan Motor for Split Unit any make a. 7,000 Btu/hr – 11,000Btu/hr b. 12,000 Btu/hr – 17,000 Btu/hr c. 18,000 Btu/hr – 24,000 Btu/hr	Per No Per No Per No	\$ 105.00 \$ 161.00 \$ 217.00
2.28	To Rewind Fan Motor for Split Unit any make c/w bearings a. 8,000 Btu/hr – 13,000 Btu/hr b. 13,500 Btu/hr – 18,000 Btu/hr	Per No Per No	\$ 77.00 \$ 133.00
	PARTS DESCRIPTION (As described below or approved equivalent)		
2.29	To Rewind Fan Motor for RAC any make c/w bearings a. 7,000 Btu/hr – 11,000 Btu/hr b. 12,000 Btu/hr – 17,000 Btu/hr c. 18,000 Btu/hr – 24,000 Btu/hr	Per No Per No Per No	\$ 77.00 \$ 133.00 \$ 161.00
2.3	To fabricate, supply & install Drip Tray for RAC	Per No	\$ 161.00
2.31	Plug Top MK or approved equivalent a. 15 amps b. 20 amps	Per No Per No	\$ 7.00 \$ 11.00
2.32	3-core flexible cable suitable for the following rating a. 15 amps b. 20 amps c. 30 amps	Per No Per No Per No	\$ 6.00 \$ 9.00 \$ 13.00
2.33	Refrigerant piping for Split Unit c/w Armaflex insulation and Denso tape a. Below 1 " b. 1½" – 2"	m m	\$ 25.00 \$ 32.00
2.34	Replace Refrigerant piping insulation using Amaflex for Split Unit a. Below 1 " b. 1½" – 2"	m m	\$ 6.00 \$ 9.00
2.35	Metal Trunking a. 2" x 2" x 6" b. 2" x 3" x 6" c. 2" x 4" x 6"	m m m	\$ 9.00 \$ 11.00 \$ 14.00
	PVC Trunking a. 2" x 2" x 6" b. 2" x 3" x 6" c. 2" x 4" x 6"	m m m	\$ 6.00 \$ 8.00 \$ 11.00
2.37	New Receiver for:- a. RAC's b. Split Units	Per Pc Per Pc	\$ 49.00 \$ 63.00
2.38	Flare nuts any size for Split Unit and RAC	Per Pc	\$ 3.00
2.39	Flare Union any size for Split Unit and RAC	Per Pc	\$ 1.00
2.4	Flare Elbow any size for Split Unit and RAC	Per Pc	\$ 1.00
2.41	Flare Tee any size for Split Unit and RAC	Per Pc	\$ 1.00
2.43	Freon R-22	Per Cylinder	\$ 42.00
2.44	Alteration of an opening as requested by the Department	M2	\$ 49.00
2.45	Blanking off an opening using ½" thick painted plywood, properly fixed to cover the opening fully.	M2	\$ 105.00
2.46	Materials for repairing leaks, to provide all the required materials to repair any leaks as instructed by the designated officer.	Per Lot	\$ 105.00
2.47	To supply and install metal support brackets for RAC and Split type air conditioning where the brackets shall be rigidly fixed and painted to match the external wall of the building (for ducting & condensing unit various size)	Per Lot	\$ 126.00
2.51	To replace a compressor with another working compressor salvaged from a written-off unit, including all necessary related works. The works shall also include testing of the unit repainting of the unit using two coats of red lead oxide paint and a final coat to match the original colour. The price should only be chargeable as labour charge.	Per Lot	\$ 105.00
2.52	Materials for system chocked elimination to provide all the required materials as instructed by the designated officer.	Per Lot	\$ 126.00

Item	Description	Unit	Rate
2.54	To supply and replace the following : a. DOL starter for Room airconditioning unit b. 15 Amps Switched socket outlet c. 20 Amps DP Switch d. Compressor Overload Protector e. Thermistor sensor f. Air swing motor for RAC/Split g. Blower Scroll for Room Air-condition unit h. Blower Scroll for Split Unit g. Compressor terminal clip with wiriness assembly	Per Pc Per Pc Per Pc Per Pc Per Pc Per Pc Per Pc Per Pc Per Pc	\$ 126.00 \$ 32.00 \$ 28.00 \$ 49.00 \$ 56.00 \$ 56.00 \$ 84.00 \$ 126.00 \$ 49.00
2.55	To supply and replace the following : a. MCCB 40 to 80 SP/TP b. Weather proof Isolator Switch 20Amps DP/TP c. Weather proof Isolator Switch 32Amps DP/TP d. MCB 16 Amps SP/TP e. MCB 32-40 Amps SP/TP f. Sub Distribution Board Metal Enclosure g. Sub Distribution Board PVC Enclosure h. Copper capillary tube size to unit under repair i. 3 way copper drier/strainer j. Time Delay relay	Per Pc Per Pc Per Pc Per Pc Per Pc Per Pc Per Pc Per Pc Per Pc Per Pc	\$ 84.00 \$ 84.00 \$ 105.00 \$ 42.00 \$ 63.00 \$ 280.00 \$ 140.00 \$ 42.00 \$ 56.00 \$ 49.00
2.56	Dismantling of existing faulty unit and send to store or as instructed by S.O. a. Room Air Conditioning Unit b. Split air conditioning unit	Per Pc Per Pc	\$ 35.00 \$ 56.00
2.57	To supply and terminate 3C x 4mm ² in PVC surface casing/conduit for the nearest Sub DB to unit isolator (per meter)	m	\$ 11.00
2.58	To supply and terminate 5C x 4mm ² in PVC surface casing/conduit from the nearest Sub DB to unit isolator (per meter)	m	\$ 14.00
2.59	To supply and terminate 2C x 2.5mm ² in PVC surface casing/conduit	m	\$ 6.00
2.61	Repositioning/collect and install RAC unit of various capacities as instructed by S.O.	Per Lot	\$ 77.00
2.62	Repositioning/collect and install Split unit of various capacities as instructed by S.O.	Per Lot	\$ 154.00
2.63	Modify blower/fan motor end plate bush to bearing c/w machining	Per Lot	\$ 63.00
2.64	Painting of condensing unit/room air conditioning unit with anti rust coat and final coat with suitable colour.	M2	\$ 63.00
2.64	To provide one Technician and one helper to do servicing and attended complain including standby when required by client anytime	Per Day	\$ 100.00
* (+) PLUS / (-) MINUS% (.....PERCENTUM)			

Under the terms of the above Quotation respond time for any request/repair work required is within 24hr and completion period in 1 week. Failure to do so, liquidated and ascertained damages will be imposed upon you to amount of \$ 25.00 for each day the works remain incomplete.

This quotation is open to contractor with valid registration minimum class 2 and above, with the Ministry of Development

Defects liability period shall be **6 months**

Contract period:

One (1) year or when the contract amount is not exceeding fifty thousand Brunei dollar (\$50,000.00), which ever come first

Validity Offer:

6 (Six) Months (from the date of quotation)

From:

.....
(Official Chop / Signature)

Contract / Address:

.....
Tel. (off):

.....
H/phone:

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Fax. No: