

S/N	DESCRIPTION	QTY	UOM	UNIT COST(NGR)
<b>4</b>	<b>BUSH CLEARING</b>			
4.1	Clear LIGHT bush. The works shall include felling, cutting and stumping of all growths, trees, shrubs and the disposal of spoils	1	m <sup>2</sup>	
4.2	Clear MEDIUM bush. The works shall include felling, cutting and stumping of all growths, trees, shrubs and the disposal of spoils	1	m <sup>2</sup>	
4.3	Clear THICK bush. The works shall include felling, cutting and stumping of all growths, trees, shrubs and the disposal of spoils	1	m <sup>2</sup>	
<b>5</b>	<b>EARTHWORKS: STRIPPING, GRADING, EXCAVATION &amp; SCARIFICATION</b>			
5.1	Excavate surface to remove top soil to average depth of 150mm, form-up, compact and camber to receive fill material	1	m <sup>2</sup>	
5.2	Excavate surface to remove top soil to average depth of 150 - 300mm, form-up, compact and camber to receive fill material	1	m <sup>2</sup>	
5.3	Grade existing surface, form-up, compact and camber.	1	m <sup>2</sup>	
5.4	Excavate in all material except rock to a depth not exceeding 0.5m and dispose spoils as directed	1	m <sup>3</sup>	
5.5	Excavate in all material except rock to a depth not exceeding 1.0m and dispose spoils as directed	1	m <sup>3</sup>	
5.6	Excavate in rock to a depth exceeding 1.0m and dispose spoils as directed.	1	m <sup>3</sup>	
5.7	Excavate in rock to a depth exceeding 1.0m but not more than 2.0 metre and dispose spoils as directed	1	m <sup>3</sup>	
5.8	Scarify existing bituminous/asphaltic pavement and cart away spoils from site, shape and compact.	1	m <sup>2</sup>	
5.9	Scarify existing bituminous/asphaltic pavement, pulverize and recompact to form grade.	1	m <sup>2</sup>	
5.10	Scarify existing earth surface, shape and recompact.	1		
5.11	Excavate foundation trench in any soil and cart away excavated material from site.	1	m <sup>3</sup>	
5.12	Excavate foundation pit in any soil and cart away excavated material from site.	1	m <sup>3</sup>	
5.13	Scoop off existing sand / gravel around and cart away as directed.	1	m <sup>3</sup>	
5.14	Supply and spread rich topsoil as directed, thickness not exceeding 150mm	1	m <sup>2</sup>	
5.15	Supply and spread rich topsoil as directed, thickness over 150mm but not exceeding 300mm.	1	m <sup>2</sup>	
5.16	Backfill excavations with approved imported river sharp sand material	1	m <sup>3</sup>	
5.17	Backfill excavations with excavated material	1	m <sup>3</sup>	
5.18	Provide and lay bed of approved imported laterite filling in layers of in 150mm layers.	1	m <sup>3</sup>	
5.19	Provide and lay approved white washed sharp river sand filling.	1	m <sup>3</sup>	
5.20	Supply and spread natural washed river white gravel. Minimum size of round gravel is 6mm.	1	m <sup>3</sup>	
5.21	Supply and spread uniformly graded granite size ranging from 12mm - 40mm.	1	m <sup>3</sup>	
5.22	Level and Compacting bottoms of excavations	1	m <sup>2</sup>	

5.23	Prepare and apply one coat of "Dieldrex" or other similar equal and approved anti-termite treatment solution to Faces of excavations	1	m <sup>2</sup>	
5.24	Disposal of excavated material off site.	1	m <sup>2</sup>	
5.25	Imported sharp sand filling to excavation; depositing in layers 150 maximum thickness average thickness not exceeding 0.25m	1	m <sup>2</sup>	
5.26	Excavate any unsuitable materials in cuttings, filling areas and side drains and haul to spoil.	1	m <sup>3</sup>	
5.27	To any depth but not exceeding 150mm.	1	m <sup>3</sup>	
5.28	To any depth exceeding 150mm.	1	m <sup>3</sup>	
5.29	Excavate any acceptable material, except rock in cuttings and side drains, haul excavated material any distance, deposit, spread in 150mm layers and compact to 100% W.A. compaction as fillings for embankments. Trim slopes to required cross section. All me	1	m <sup>3</sup>	
5.30	Excavate in any material except rock to form turnouts in triangular, rectangular or trapezoidal drains at toes of embankments, catch-water drains at top of bench cuttings or in urban drains and dispose of excavated materials as directed by the Engineer's	1	m <sup>3</sup>	
5.31	Excavate in rock, haul excavated material and dispose as directed by the Engineer's Representative.	1	m <sup>3</sup>	
5.32	Excavate from approved borrow pits, haul excavated material any distance, deposit, spread in 150 layers and compact to 100% W.A compaction as fillings for embankments and margins. Shape formation and trim slope to required cross section. All measured as c	1	m <sup>3</sup>	
5.33	Scarification of Existing Pavement Surface:	1		
5.34	Scarify asphaltic concrete on failed areas and haul to spoil.	1	m <sup>2</sup>	
5.35	Scarify existing asphaltic concrete or bituminous surfacing on carriageway, and shoulders and haul to spoil.	1	m <sup>2</sup>	
5.36	Provide and place 200mm thick rip-rap protection to high embankment slopes as directed.	1	m <sup>2</sup>	
5.37	Dub in grass to slopes of embankments, medians and shoulders as specified and directed.	1	m <sup>2</sup>	
5.38	Plant approved trees and shrubs along median and on both sides of roadway as directed by the Engineer's Representative. Rate inclusive of manure in pits 0.3x3 x 0.6m deep.	1	No	
	<b>Hardcore</b>			
5.26	Provide and lay bed of approved hardcore rubbles filling (average size not exceeding 150mm) in broken bricks/stones free from rubbish to receive concrete.	1	m <sup>3</sup>	
5.27	Provide and lay bed of approved hardcore Source 50 - 100mm granite rock hardcore, place and compact to specified profile.	1	m <sup>3</sup>	
5.28	Provide and lay bed of approved hardcore Source 100 - 200mm granite rock hardcore, place and compact to specified profile.	1	m <sup>3</sup>	
	<b>Damp Proof Membrane:</b>			
5.29	Provide 1000 gauge polythene single layer damp proof sheet membrane and spread to lap 150mm all round on hardcore.	1	m2	
6	<b>Felting:</b>			
6.1	Provide and apply one coat of emulsion "PASTA IMPER 66 PRIMER" prior to laying water proofing membrane.	1	m2	

6.2	Provide 6mm thick single layer 2 ply fibre reinforced bitumenous felt and apply to base and sides of reinforced concrete wall in tanking to basements, roof slabs or similar.	1	m2	
6.3	Provide 6mm thick single layer 1 ply fibre reinforced bitumenous felt and apply to base and sides of reinforced concrete wall in tanking to basements, roof slabs or similar.	1	m2	
7	<b>Concrete Works</b>			
7.1	Provide, mix, place and compact Grade 15 concrete	1	m3	
7.2	Provide, mix, place and compact Grade 20 concrete	1	m3	
7.3	Provide, mix, place and compact Grade 25 concrete	1	m3	
7.4	Provide, mix, place and compact Grade 30 concrete	1	m3	
8	<b>Reinforcement</b>			
8.1	Provide, cut to size, bend to shape and fix high yield steel reinforcement in concrete.	1	Tonnes	
8.2	Provide, cut to size, bend to shape and fix mild steel reinforcement in concrete.	1	Tonnes	
8.3	Provide, cut and fix mild steel BRC 65 mesh reinforcement in concrete	1	m <sup>2</sup>	
8.4	Provide, cut and fix high yield steel fabric reinforcement No. A193 in concrete	1	m <sup>2</sup>	
8.5	Provide, cut and fix high yield steel fabric reinforcement No. A252 in concrete	1	m <sup>2</sup>	
8.6	Provide longitudinal joint with 50 - 75mm thick hydrocarbon resistant sealant in concrete pavement	1	m	
8.7	Provide expansion joint with 20mm diameter x 650mm long mild steel dowel bars at 300mm centres in concrete pavement, PVC sleeve pipe inclusive	1	m	
10.1	3000 litres capacity cylindrical GP plastic ground water tank with suitable ball valve, float switch and 1Nr 50mm diameter in mcoming pipe hole with straight union connector and 1 Nr 50mm diameter distribution pipe hole with also with union connector and 50mm diameter wash out/overflow pipehole and placing on concrete plinth.	1	No	
10.2	2000 litres capacity cylindrical GP plastic ground water tank with suitable ball valve, float switch and 1Nr 50mm diameter in mcoming pipe hole with straight union connector and 1 Nr 50mm diameter distribution pipe hole with also with union connector and 50mm diameter wash out/overflow pipehole and placing on concrete plinth.	1	No	
10.3	Hot Pressed, Molded GRP Tank, Braithwaite or equal approved, 3000x4000x1000mm capacity on raised platform complete with all fittings, pipe connections and extensions (as per drawing) with access manhole c/w with a 100mm flanged connection, 40mm diameter infill connection and 100mm drain.to be laid on concrete plinth	1	No	
10.4	<b>Booster Pumps.</b> Lowara Booster Pump (set of 3, pumps 2 pumps duty 1 standby) with variable speed 300c Temp, flow rate 3.88 l/s, Total Head 33.9m of H2O, RPM 2900, Input Power 2.2KW 1/230/50HZ, 100Ltres Pressure Vessel. Pumps shall be with control panel (priced separately).	1	No	
10.5	<b>HENCO PIPES &amp; FITTINGS</b>			
10.5.1	1/2 Henco PPR Pipe			
10.5.2	1/2" Henco female coupling			
10.5.3	1/2" Henco tee			

10.5.4	1/2" Henco straight coupling			
10.5.5	1/2" Henco elbow			
10.5.6	1/2" Henco female elbow			
10.5.7	1/2" Henco stop cork			
10.5.8	1/2" x 3/4" straight coupling			
10.5.9	1/2" x 3/4" male coupling			
10.5.10	1" Henco pipe.			
10.5.11	1" Henco elbow.			
10.5.12	1" x 3/4" Henco tee.			
10.6	<b>PPR piping</b>			
10.6.1	63mm Dia Pipe			
10.6.2	40mm Dia Pipe			
10.6.3	32mm dia Pipe			
10.6.4	25mm Dia Pipe			
10.6.5	20mm Dia Pipe			
10.6.6	15mm Dia Pipe			
10.7	<b>PPR fittings</b>			
10.7.1	1/2 inch PPR Pipe			
10.7.2	3/4 inch PPR Pipe			
10.7.3	1/2" PPR female coupling			
10.7.4	1/2" PPRtee			
10.7.5	1/2" PPR straight coupling			
10.7.6	1/2" PPR elbow			
10.7.7	1/2" PPR female elbow			
10.7.8	1/2" PPR stop cork			
10.7.9	1/2" x 3/4" straight coupling			
10.7.10	1/2" x 3/4" PPR male coupling			
10.7.11	1" PPR pipe.			
10.7.12	1" PPR elbow.			
10.7.13	1" x 3/4" PPRtee.			
10.7.14	63-32mm Tee reducer			
10.7.15	63mm Dia elbow			
10.7.16	32mm Dia Ball Valve (CRANE MAKE)			
10.7.17	32mm Elbow			
10.7.18	32x25mm Reducing Elbow			
10.7.19	25x20mm dia bend			
10.7.20	25x20mm dia Tee			
10.7.21	20mm dia bend			
10.7.22	20mm dia adaptor			
10.7.23	20mm dia Ball Valve (CRANE MAKE)			
10.7.24	20mm dia Thermostatic mixing valve (CRANE MAKE)			
10.7.25	20mm dia angle valve (CRANE MAKE)			
10.7.26	40mm dia Elbow			
10.7.27	40x25mm Reducing Tee			
10.7.28	40x25mm Reducing elbow			
10.7.29	25x20mm reducer elbow			
10.7.30	20mm dia Tee			
10.7.31	20mm Dia Bend			
10.7.32	15mm dia Bend			
10.7.33	15mm tee			
10.7.34	15mm Thermostatic Valve (CRANE MAKE)			
10.7.35	15mm Mixed Tap			

10.8	<b>VALVE CHAMBER</b> Excavate for and build meter and valve chamber with precast concrete top section with 445mm diameter concrete lid and one-brick sides in extra hard burnt stock bricks in 1:3 cement mortar finished fair face internally on 150mm concrete 20 MPa (20mm stone) bottom			
10.8.1	Meter and valve chamber size internally 510 x 440 x 900 deep			
10.8.2	300 x 300mm Cast iron hinged cover and frame			
10.8.3	40mm Ball- Valve (CRANE MAKE)			
10.8.4	40mm water meter			
10.8.5	40mm check valve (CRANE MAKE)			
11	<b>Pipes and Fitting for Connection of GRP water storage tanks...</b>			
11.1	100mm dia Pipes (PPR PIPES)	1	m	
11.2	40mm dia Pipes (PPR PIPES)	1	m	
11.3	Flow Switch	1	No	
11.4	Gate Valve 40mm dia	1	No	
11.5	Butterfly Valve 100mm dia	1	No	
11.6	100mm dia Tee	1	No	
11.7	100mm dia Elbow	1	No	
11.8	100-75mm dia Reducing Elbow	1	No	
11.9	100-50mm dia Reducing Elbow	1	No	
11.10	40mm dia Tee	1	No	
11.11	40mm dia Elbow	1	No	
11.12	100mm dia pressure gauge	1	No	
11.13	100MM Dia Check valve (CRANE MAKE)	1	No	
11.14	100mm Dia Flexible connection	1	No	
11.15	100mm dia meter	1	No	
11.16	<b>Pipes and Fitting for Connection of Water Heaters</b>			
11.17	50mm Cold water Supply	1	m	
11.18	Thermostatic vent air	1	No	
11.19	Thermostatic mixing valve 40mm dia	1	No	
11.20	Gate/Ball Valve 40mm dia	1	No	
11.21	50mm Ball Valve	1	No	
11.22	50mm Tee	1	No	
11.23	50mm Bend	1	No	
11.24	50 - 40mm reducer	1	No	
11.25	40mm Ball Valve	1	No	
12	<b>Pipes and Fitting for Connection of Buster Pumps</b>			
12.1	65mm dia Flexible connector	1	No	
12.2	65mm dia Test Point	1	No	
12.3	65mm dia Strainer	1	No	
12.4	65mm dia Pressure Gauge	1	No	
12.5	Butterfly Valve 65mm dia	1	No	
12.6	check valve 65mm dia	1	No	
13	<b>Pipes and Fitting for Connection of Circulating Pumps</b>			
13.1	check valve 40mm dia	1	No	
13.2	ball valve	1	No	
16	<b>FORMWORK</b>			
16.1	Marine plywood Wrought Sawn formwork including bracing and support as necessary against any form bulking and collapse, 25mm thick	1	m <sup>2</sup>	

16.2	Marine plywood Wrought Sawn formwork height not exceeding 150mm including bracing and support as necessary against any form bulking and collaps 25mm thick.	1	m	
16.3	Timber / wooden Sawn formwork including bracing and support as necessary against any form bulking and collaps 25mm thick	1	m <sup>2</sup>	
16.4	Timber / wooden Sawn formwork height not exceeding 150mm including bracing and support as necessary against any form bulking and collaps 25mm thick.	1	m	
17	<b>BLOCKWORK</b>			
17.1	Provide material and lay vibrated 225mm hollow sandcrete blockwall in cement mortar (1:4) and pointing. Grade 7N/mm2 in stretcher bond and filled with class D weak concrete	1	m <sup>2</sup>	
17.2	Provide material and lay vibrated 225mm hollow sandcrete blockwall in cement mortar (1:4) and pointing. Grade 7N/mm2 in stretcher bond	1	m <sup>2</sup>	
17.3	Provide material and lay vibrated 150mm hollow sandcrete blockwall in cement mortar (1:4) and pointing. Grade 7N/mm2 in stretcher bond	1	m <sup>2</sup>	
17.4	Provide material and lay vibrated solid 150mm sandcrete blockwall in cement mortar (1:4) and pointing. Grade 7N/mm2 in stretcher bond	1	m <sup>2</sup>	
17.5	Provide material and lay vibrated solid 100mm sandcrete blockwall in cement mortar (1:4) and pointing. Grade 7N/mm2 in stretcher bond	1	m <sup>2</sup>	
18	<b>Clay Bricks</b>			
18.1	Non load bearing hollow clay bricks in cement mortar (1:4) and pointing. Grade 5N/mm2	1	m <sup>2</sup>	
18.2	100mm thick wall (built from 200mm x 100mm x 330mm long bricks)	1	m <sup>2</sup>	
18.3	150mm thick wall (built from 200mm x 100mm x 330mm long bricks)	1	m <sup>2</sup>	
19	<b>Sundries:</b>			
19.1	Demolish all existing structures including buidings within the road way and dispose to spoil as directed.	1	m <sup>2</sup>	
19.2	Cut opening in 150mm/225mm sandcrete blockwalling to provide standard A/C and Expeller opening complete with timber framing and making good all work disturbed. (Front and back frame cover)	1	No.	
19.3	Drill hole in block wall/concrete for hooks	1	No	
19.4	Demolish 100mm/150mm/225mm thick blockwall and cart away from site	1	m <sup>2</sup>	
19.5	Break up existing plain/reinforced concrete/asphaltic concrete using suitable equipment. Rate to include removal of debris from site.	1	m3	
20	<b>ROOFING</b>			
	General:			
20.1	Carefully dismantle existing roofing sheets of any type (measured in plan area)	1	m2	
20.2	Completely dismantle existing timber lattice or lean-to roof structure comprising roofing sheets; purlins; rafters; ties; struts; wall plates; ceiling noggings; ceilings; fascia boards etc (measured in plan area).	1	m2	
20.3	Install/fix supplied roofing sheets of any type	1	m2	

21	<b>Supply and fix long span aluminium roofing sheets SA-5 trapezoidal profile (BIG/Small gutter) complete with fix accessories:</b>			
21.1	0.7mm guage, stucco mill	1	m2	
21.2	1.2mm guage, stucco mill	1	m2	
21.3	0.7mm guage, coloured	1	m2	
21.4	1.2mm guage, coloured	1	m2	
21.5	0.55mm guage, coloured	1	m2	
22	<b>Supply and fix aluminium flashings complete with fixing accessories:</b>			
22.1	0.70mm stucco mill finish, 150mm girth	1	m	
22.2	Ditto, 300mm girth	1	m	
22.3	Ditto, coloured finish 150mm girth	1	m	
22.4	Ditto, coloured finish 300mm girth	1	m	
23	<b>Aluminum Roof Gutters</b>			
23.1	Supply and fix PVC roof gutter complete with brackets and jointing materials. 6"x6" section.	1	m	
23.2	Ditto. 12"x12" section	1	m	
23.3	Ditto. 18"x18" section	1	m	
24	<b>PVC Roof Gutters</b>			
24.1	Supply and fix aluminium roof gutter complete with brackets and jointing materials. 150"x150" section.	1	m	
24.2	Ditto. 100mm x 100mm section	1	m	
25	<b>Translucent Sheets:</b>			
25.1	Supply & fix fibre reinforced plain translucent sheets, clear	1	m2	
25.2	Supply & fix fibre reinforced corrugated translucent sheets, clear	1	m2	
25.3	Ditto, coloured	1	m2	
25.4	<b>Supply and install Danpalon Polycarbonate in roof, wall canopy etc</b>			
25.4.1	6mm thick single layer	1	m2	
25.4.2	8 mm thick single layer	1	m2	
25.4.3	10mm thick single layer	1	m2	
25.4.4	12mm thick single layer	1	m2	
25.4.5	20mm single layer	1	m2	
25.4.6	6mm thick double layer	1	m2	
25.4.7	8 mm thick double layer	1	m2	
25.4.8	10mm thick double layer	1	m2	
25.4.9	12mm thick double layer	1	m2	
25.4.10	20mm double layer	1	m2	
26	<b>Provide and fix/replace Abora seasoned and solignum treated hardwood timber members for roofing or other uses: or equal and approved timber</b>			
26.1	50mm x 50mm (2 by 2)	1	m	
26.2	50mm x 75mm (2 by 3)	1	m	
26.3	50mm x 100mm (2 by 4)	1	m	
26.4	50mm x 150mm (2 by 6)	1	m	
26.5	25mm x 300mm ( 1 by 12)	1	m	
26.6	25mm x 150mm ( 1 by 6)	1	m	
27	<b>Sundries/repairs:</b>			
27.1	Carefully clean-up existing roofing sheets.	1	m2	
27.2	Investigate minor roof leakage and repair by flashbanding surrounding nail points.	1	No	

27.3	Investigate major roof leakage and repair by completely replacing surrounding roofing sheets with new aluminium roofing sheets, 0.7mm guage	1	m2	
27.4	Investigate major roof leakage and repair by completely replacing surrounding roofing sheets with new aluminium roofing sheets, 0.55 guage	1	m2	
28	<b>TIMBER DOORS AND WINDOWS (WOODKRAFTER STANDARD)</b>			
	Removal/sundry:			
28.1	Remove complete door, door frame/lining and architrave and make good all disturbed work.	1	No.	
28.2	Remove or install existing door/window architrave ONLY	1	No.	
28.3	Remove or install existing/new door/window ONLY	1	No.	
28.4	Provide material and construct fibre flyscreen to timbers doors/windows/eave vents.	1	M2	
28.5	Provide material and construct fibre flyscreen to timbers doors/windows or independent in hardwood timber framing including finishes at back patio/balcony	1	M2	
28.6	Construct pointed picket wooden fence, including steel post and concrete footing.	1	M2	
28.7	Service/repair existing timber door/window to ensure proper opening and closing by oiling moving and planing egdes - as necessary.	1	No.	
29	<b>DOOR FRAMES.</b>			
29.1	Mahogany or equal and approved wooden Door Frame 7" (2100mm + 900mm + 2100mm)	1	No	
29.2	Mahogany or equal and approved wooden Door Frame 7"	1	m	
29.3	Mahogany or equal and approved wooden Door Frame 10" (2100mm + 900mm + 2100mm)	1	No	
29.4	Mahogany or equal and approved wooden Door Frame 10"	1	m	
29.5	Mahogany or equal and approved wooden Door Frame 12" (2100mm + 900mm + 2100mm)	1	No	
29.6	Mahogany or equal and approved wooden Door Frame 12"	1	m	
29.7	Approved HDF Linning Door Frame 8"	1	m	
29.8	Approved HDF Linning Door Frame 12"	1	m	
30	<b>PANEL DOORS:</b> <b>All doors should be sprayed polished finish/Gloss paint finish</b>			
30.1	Standard <b>Mahogany</b> Panel Door - 2.1m x 0.9m single leaf	1	No	
30.2	11/2 <b>Mahogany</b> Panel Door - 2.1 x 1.2m double leaf	1	No	
30.3	Double <b>Mahogany</b> Panel Door - 2.1 x 1.8m double leaf	1	No	
31	<b>Panelled Door:</b>			
31.1	Supply and fix Single leaf +/-45mm thick panelled door size +/- 900mmx2050mm high in Mahogany	1	No	
31.2	Supply and fix Double leaf +/-45mm thick panelled door size +/- 1800mmx2050mm high in Mahogany	1	No	
31.3	Supply and fix Single Leaf +/-45mm thick panelled door size +/- 750mmx2050mm high in Mahogany	1	No	
31.4	Supply and fix Single leaf +/-45mm thick panelled door size +/- 1500mmx2050mm high in Mahogany			
31.5	Supply and fix Single leaf +/-45mm thick panelled door size +/- 900mmx2050mm high in Cedar	1	No	
31.6	Supply and fix Double leaf +/-45mm thick panelled door size +/- 1800mmx2050mm high in Cedar	1	No	



31.7	Supply and fix single leaf +/-45mm thick panelled door size +/-750mmx2050mm high in Cedar	1	No	
31.8	Supply and fix Double leaf +/-45mm thick panelled door size +/-1550mmx2050mm high in Cedar	1	No	
31.9	Supply and fix 5mm thick float clear glass and glazing to wooden door/window with glass rubber/putty and beading in panes as directed.	1	m2	
31.10	Ditto 6mm thick reinforced georgian wired cast glass	1	m2	
31.11	Ditto 5mm thick bronze tinted sheet glass.	1	m2	
32	<b><u>PLYWOOD FLUSH DOORS :</u></b>			
32.1	Supply and installed Plywood Flush Door (Semi <b>Solid Core</b> )- Using three quarter ply wood size 2100mm x 900mm with 44mm thick lipped edges	1	No	
32.2	Ditto size 2100mm x 750mm -do	1	No	
32.3	Supply and installed Plywood Flush Door ( <b>Solid Core</b> )- Using three quarter ply wood size 2100mm x 900mm with 44mm thick lipped edges	1	No	
32.4	Ditto size 2100mm x 750mm -do	1	No	
32.5	<b><u>Architrave:</u></b>			
32.5.1	Supply and fix marching good quality, smooth, hardwood door/window architrave door/window architrave.	1	m	
33	<b><u>SECURITY DOORS :</u></b>			
	<b><u>STEEL DOORS AND WINDOWS:</u></b>			
	<b>Carefully remove existing steel window frame and glazing and make good all disturbed work incl.those associated with new installation.</b>			
33.1	Carefully remove existing steel window frame and glazing and make good all disturbed work incl.those associated with new installation. (all/any size)	1	No	
33.2	Remove glazing to existing windows/doors	1	Pane	
33.3	Standard Security Doors (Single leaf swiss trade steel door size 900mm wide)	1	No	
33.4	Mini Double Or 11/2 Security Doors (Single leaf swiss trade security door size 1200mm wide)	1	No	
33.5	Double Or "Two in One" Security Doors (Swiss trade full double classic security door)	1	No	
33.6	American Steel Door (Fire Proof)	1	No	
33.7	Standard Steel Doors (Fire Proof, Bullet Proof)	1	No	
33.8	Metal Flush Doors	1	No	
33.9	<b><u>Sundry:</u></b>			
33.9.1	Service/repair existing steel door/window for proper opening and closing by oiling/Greasing moving parts and tightening loose nuts.	1	No.	
33.10	<b><u>05522: STAINLESS STEEL PIPE HANDRAILS AND RAILINGS</u></b>			
	Isolated handrails in stainless steel			
33.10.1	50mm diameter handrail; fixing to masonry through masonry through vulnerable materials with screws	1	m	
	<b><u>Hand Railing in Staircase</u></b>			
	<b><u>STAINLESS STEEL</u></b>			

33.11	Stainless Steel staircase balustrade, 1200mm high above floor surface, consisting of (1 No) 75mm x 25mm Hollow stainless steel pipe and (4 No) 25mm x 25mm Horizontal member and 75mm x 25mm vertical member at 1500mm centers embedded into wall	1	m	
34	<b>WARDROBE :</b>			
	<b>All material to be MDF approved by SPDC</b>			
34.1	One-Doors Framed Wardrobe ( <b>with Shelves</b> ) Minimum 500mm & Maximum length of 750mm (Full height)	1	Set	
34.2	Two door - Wardrobe ( <b>Fully Laminated</b> ) Minimum length 1000mm & maximum length 1500mm (Full height)	1	Set	
34.3	Three-Doors Wardrobe (Fully Laminated). Minimum length 1500mm & Maximum length Of 2100mm (Full height)	1	Set	
34.4	Four-Doors Wardrobe (Fully Laminated) Minimum length 2000mm & Maximum length 3000mm (Full height)	1	Set	
34.5	Three door standing kitchen cabinet unit. 2100mm high x 1.5m wide	1	Set	
35	<b>CEILINGS :</b>			
	<b>Ceiling finishings:</b>			
35.1	Take down defective ceiling board including any supporting materials and remove from site.	1	m2	
35.2	Supply and install enamel capped aluminium suspended ceiling strips at 600mm centres square modules suspended with 4 gauge galvanised twisted wires to receive 600mm x 600mm ceiling tiles (measured separately)	1	m2	
35.3	Ditto but include supply and installation of 600mm x 600mm x 12mm acoustic tiles	1	m2	
35.4	Ditto but include supply and installation of decorative gypsum ceiling tiles GRG (600mm x 600mm) to strips	1	m2	
35.5	Supply and install 1.2m x 1.2m hard board ceiling fixed to timber noggins	1	M2	
35.6	Supply and fix 6mm thick veneer plywood panels fixed to timber noggins	1	m2	
35.7	Supply and install fibre board ceiling tiles fixed to timber noggins	1	m2	
35.8	Supply and fix 600 x 600mm celotex ceiling board to timber noggins using brass nails	1	M2	
35.9	<b>TONGUE AND GROOVE BATTENS:</b>			
35.9.1	Remove deteriorated tongue and groove battens to floors/ceilings.	1	m2	
35.9.2	Supply and fix 20mm thick seasoned, treated tongue and groove hardwood battens to floors/ceilings and walls. natural spray finish.	1	m2	
35.9.3	Supply and fix 1/2" veneer plywood underlay	1	m2	
35.9.4	Supply and fix 1/4" veneer plywood underlay	1	m2	
35.9.5	Supply and fix 3/4" veneer plywood underlay	1	m2	
35.9.6	Supply and fix 1" marine plywood underlay	1	m2	
35.9.7	Ditto but with gloss paint finish. (Ordinary Plywood)	1	m2	
35.9.8	<b>UPVC CEILING</b>			
35.9.8.1	10 x 200mm Unplasticized Polyvinyl Chloride (Upvc) paragon ceiling strips tongue and grooved profile panellit ceiling including corner strips fixed to hardwood noggings.	1	m2	
35.9.9	<b>INSECT PROOF VENT</b>			

35.9.9.1	aluminium framed insect screen inset size 450 x 450mm fixed in 31 x 31mm aluminium picture frame profile fixed to eaves ceiling as per drawing	1	No.	
35.9.10	<b>GYPSUM PLASTERBOARD CEILING</b>			
	<b>09250: GYPSUM BOARD</b>			
35.9.10.1	Prepare and apply 3-5mm thick POP skim coat screeding on a rendered surfaces	1	m2	
35.9.10.2	Suspended POP Ceiling board (Plaster board)	1	m2	
35.9.10.3	Cornice -Small size cross sectional area	1	m2	
35.9.10.4	Cornice -Big size cross sectional area	1	m2	
36	<b><u>KITCHEN FITTINGS</u></b>			
	<b>Removal/sundry:</b>			
36.1	Completely remove ALL existing fitted kitchen carpentry units and kitchenware comprising wall hang cabinets; sinks; worktops; standing cabinets; drawers and storeaway as directed. Typical floor length of worktop/cupboards is between 9 to 6m long.	1	No	
36.2	Ditto but sanddown surfaces, re-varnish/re-paint (as necessary) and fix back as existing.	1	No	
36.3	Replace existing kitchen drawer handle with good quality timber type. Make good. timber type. Make good.	1	No	
36.4	Ditto. But with bronze coated/timber handles	1	No	
36.5	Replace existing kitchen drawer runners	1	No	
36.6	Replace existing kitchen drawer rail	1	Pair	
36.7	Remove existing formica and make good to receive new finish.	1	m2	
36.8	Replace existing formica (white or black)	1	M2	
37	<b>Construct and fix COMPLETE kitchen work top of size: 750mm x 900mm high x +/-9000mm long built along two or three walls with continuous worktop surface and (a) built-in double bowl kitchen sink, mixer, waste (b) built-in dish washer space © built-in gas cooker sitting space (d) built-in underside cupboards and drawers with steel runners.</b>			
37.1	Construct and fix COMPLETE kitchen work top of size: 900mm x 600mm deep high with continuous worktop surface and (a) built-in double bowl kitchen sink, mixer, waste (b) built-in dish washer space © built-in gas cooker sitting space (d) built-in underside cupboards and drawers with steel runners. All surfaces finished with HDF excluding granite work top. Floor Unit	1	m	
37.2	Ditto - top Unit 600mm high x 450mm deep	1	m	
37.3	Provide and install granite work top (Rosa Pink/Rosa Betta Granite 19mm Thick), including all associated works and skirting	1	m2	
37.4	Fabricate and install COMPLETE wall hung kitchen shelves/cupboards (with hinged doors) of size: 600mm wide x 2100mm high and of various lengths between 1500mm and 900mm. As per drawing 00.	1	m	
37.5	All surfaces finished with HDF	1	m	
37.6	Fabricate and install COMPLETE full high kitchen shelves/cupboards (with hinged doors) of size: 600mm wide x 2100mm high and of various lengths between 1500mm and 900mm. As per drawing 00.	1	m	

37.7	All surfaces finished with HDF	1	m	
37.8	Provide and install open hardwood timber shelves complete with galvanised steel bracket or wooden supports. Width of 300mm. As per drawing 00. Gloss paint finish	1	m	
37.9	Ditto but 450mm wide	1	m	
38	<b><u>BATHROOM CABINETS AND MIRRORS</u></b>			
38.1	Construct and fix complete bathroom wall mounted cabinet in hardwood. Size 700mm x 700mm x 150mm deep with (a)hinged door faced with quality mirror fixed with dome screws (b) internal shelving © mirror light/shaver unit sitting. Gloss paint finish. As per drawing 00.	1	No	
38.2	Provide and install mirror size 450mm x 600mm x 6mm push-on screw covers thick with bevelled, smoothened edges. Pre-drilled with holes and complete with plastic wall plugs, screws and chrome plated dome head push-on screw covers.	1	No	
38.3	Ditto 450mm x 1200mm long	1	No	
39	<b><u>CURTAIN BOARDS/PELMETS</u></b>			
39.1	Provide and fix 100mm deep X 150mm/225mm wide curtain board in 20mm plywood. Complete with curtain tracks (supported every 300mm) and hooks. Gloss paint finish/Vanished	1	m	
39.2	Supply and fix chromium/gold plated curtain rail (not exceeding 38mm diameter) complete with accessories.	1	m	
40	<b><u>SKIRTINGS:</u></b>			
40.1	Remove existing skirting.	1	m	
40.2	Supply and fix hardwood skirting size 19mm x 75mm - 150mm	1	m	
40.3	Supply and fix 19mm x 100mm hardwood ceiling cornice	1	m	
40.4	Ditto 19mm x 150mm	1	m	
40.5	Provide and fix 12.5mm x 50mm hardwood chamfered skirting (batten) on ceiling board edges.	1	m	
	<b><u>IRONMONGERY:</u></b>			
41	<b>In all items below include for removal of existing ironmongery; preparation to receive new and making good all work disturbed Locks and knob sets</b>			
41.1	Supply and fix complete FADEX mortice cylinder door lock. Premium quality. Bronze or gold plated.	1	No	
41.2	Supply and fix complete UNION mortice door lock or approved equivalent.	1	No	
41.3	Supply and fix big CYLINDER cylinder night latch	1	No	
41.4	Supply and fix aluminium sliding door lock. Approved type.	1	No	
41.5	Supply and fix Standard Crittall-Hope lock (BGA)	1	No	
41.6	Supply and fix EVERGOOD wardrobe/drawer lock or approved equivalent.	1	No	
	<b><u>Padlocks:</u></b>			
41.7	Supply and fix steel padlock (big size)	1	No	
41.8	Ditto (medium size)	1	No	
41.9	Supply and fix stainless steel barrel bolt			
41.10	75 - 150mm bolt	1	No	
41.11	<b><u>Sundries:</u></b>			
41.11.1	Replace fadex door lock cylinder only	1	No	
41.11.2	Supply and fix hasp and staple (big/small)	1	No	
41.11.3	Ditto roller cupboard catch (big/small)	1	No	
41.11.4	Ditto magnetic cupboard catch	1	No	
41.11.5	Ditto rubber door stop	1	No	

41.11.6	Key labels including lettering	1	No	
42	<b>SECURITY GRILLS AND GENERAL METAL WORK):</b>			
42.1	Remove existing window security grill of any type/size and make good all disturbed work.	1	No	
42.2	Ditto door security grill of any type/size	1	No	
42.3	Fabricate and fix standard security grill for windows/Garage/ doors/ using flat bars/1" square pipes, round pipes, 16mm diameter steel rods, spaced criss-crossed 100mm. Patterned, primed and painted. Including all works, as necessary, to restore all distributed surfaces.	1	m2	
42.4	Replace existing laundry line posts with 50mm diameter steel tubular poles 2.m long complete with concrete pad.	1	No	
42.5	Supply and fix Laundry line	1	m	
43	<b>LOUVRE WINDOWS:</b>			
	<u>Supply and fix standard louvre window carriers of approved make. 'NIGER' louvre or approved equivalent</u>			
43.1	2 blade, single control, 310mm high	1	pair	
43.2	¾ blade, ditto, 580mm high	1	pair	
43.3	5/6 blade, ditto, 860mm high	1	pair	
43.4	6 blade, Double Control 860mm high	1	pair	
43.5	7/8 blade, ditto, 1140mm high	1	pair	
43.6	9/10 blade, ditto, 1420mm high	1	pair	
43.7	<u>Supply and fix 6mm louvre blade with ground edges cut to exact length and fixed to metal clips</u>			
43.7.1	150mm wide clear blade, 500 to 1000mm long	1	No	
43.7.2	150mm wide obscure blade 500 – 1000mm long	1	No	
43.7.3	Sundry:			
43.7.4	Service/repair existing louver windows for proper opening and closing by oiling moving parts and tightening loose nuts	1	Set	
44	<b>ALUMINIUM DOORS AND WINDOWS:</b>			
	General:			
	Carefully remove existing aluminium door/window and make good all disturbed work incl those associated with new installation			
44.1	Aluminium doors & window (all types/sizes)	1	no	
44.2	<b>Supply and install COMPLETE anodized/natural GENERAL METAL PRODUCTS OF NIGERIA LTD. aluminium sliding windows/doors; projecting windows; hinged/swing doors etc with 5mm thick clear/obscure glazing and complete with high quality accessories such as handles, locks and other accessories. Aluminium profiles shall be minimum thickness of 3mm. Rate shall be inclusive of all works to make good all disturbed surface to original standards. Sliding/fixed windows with frames/tracks and complete with burglar bars:</b>			
	<b><u>Windows with Frames/Tracks</u></b>			
44.2.1	Opening size: 4.5m x 1.8m high (or nearest size); patterned as directed on site.	1	No	
44.2.2	Ditto 3.0m x 1.8m	1	No	
44.2.3	Ditto 2.0m x 1.8m	1	no.	
44.2.4	Ditto 1.5m x 1.8m	1	No	
44.2.5	Ditto 1.2m x 1.8m	1	No	
44.2.6	Ditto 3.0m x 1.5m	1	No	
44.2.7	Ditto 2.0m x 1.5m	1	No	

44.2.8	Ditto 1.5m x 1.5m	1	no.	
44.2.9	Ditto 1.2m x 1.5m	1	No	
44.2.10	Ditto 0.9m x 1.5m	1	No	
44.2.11	Ditto 2.0m x 1.2m	1	No	
44.2.12	Ditto 1.5m x 1.2m	1	No	
44.2.13	Ditto 1.2m x 1.2m	1	no.	
44.2.14	Ditto 0.9m x 1.2m	1	No	
44.2.15	Ditto 1.5m x 0.9m	1	No	
44.2.16	Ditto 0.9m x 0.9m	1	No	
44.2.17	Ditto 0.6m x 0.9m	1	No	
44.2.18	Ditto 0.6m x 0.6m	1	No	
44.2.19	Ditto 0.3m x 0.6m	1	No	
45	<b>Sliding Doors with frames/tracks:</b>			
45.1	2.0m x 2.1m. 2/ 3 panels with 5mm thick plain/obscure glass	1	No.	
45.2	1.8m x 2.1m. 2/3 panels with 5mm thick plain/obscure glass	1	No.	
45.3	1.5m x 2.1m. 2/3 panels with 5mm thick plain/obscure glass	1	No.	
45.4	1.2m x 2.1m. 2/3 panels with 5mm thick plain/obscure glass	1	No.	
45	<b>Supply and fix projected windows/with fixed light.</b>			
45.1	Opening size: 600mm x 600mm high (or nearest size); patern/number of panels/fixed light as directed on site.	1	No	
45.2	900mm x 600mm	1	No	
45.3	600mm x 900mm	1	No	
45.4	900mm x 900mm	1	No	
45.5	600mm x 1200mm	1	No	
45.6	900mm x 1200mm	1	No	
46	<b>Entrance swing Doors with frames and close mullioning for security. Complete with high quality locks.</b>			
46.1	2.0 x 2.1m. Double leaf with 5mm thick plain/opaque glass	1	No.	
46.2	1.0m x 2.1m. Single leaf with 5mm thick plain/obscure glass	1	No.	
46.3	Hinged Doors with frames and close mullioning for security. Complete with high quality locks			
46.4	Ditto. But bottom section of aluminuim laminated plywood	1	No.	
46.5	Ditto. But bottom section of aluminuim laminated plywood	1	No.	
46.6	Ditto. but with fibre netting	1	No.	
47	<b>Complete Bathroom Cubicles</b>			
47.1	1.8m high shower cubicle with 2 panel sliding door glazed with 6mm frosted georgian wire glass. with 6mm frosted georgian wire glass	1	m2	
47.2	<b>Curtain / Partition Walls</b>			
47.2.1	Supply and install anodised/natural aluminium curtain wall glazed with 5mm thick pain/obscure glass	1	m2	
47.3	<b>Security Doors</b>			
47.3.1	Supply and fix GMP Jansen steel door (or approved equivalent) complete with frame; lock and other accessories. Size 1.0m. Any colour.	1	No	
47.3.2	Ditto. Size 1.2m by 2.1m (double leaf)	1	No	
47.4	<b>Hinged Doors</b>			
47.4.1	0.90m x 2.100m Hinged Door(Single leaf with plain glass) - Nigalex	1	No	
47.4.2	1.8m x 2.100m Hinged Door(double leaf with plain glass) - Nigalex	1	No	
47.5	<b>Netting</b>			

47.5.1	Supply and fix independent natural/anodised aluminium framed window flyscreen. Fibre netting. Sliding type to be fixed inside. Complete with all accessories.	1	m2	
47.5.2	Ditto. Fixed type .	1	m2	
47.5.3	Ditto. Fixed type. Full height for external patios.	1	No	
47.5.4	Replace flyscreen fibre netting	1	m2	
47.6	<b>Accessories</b>			
47.6.1	Replace sliding door/window frame/track (1-track)	1	m	
47.6.2	Replace sliding door/window frame/track (2-track)	1	m	
47.6.3	Replace sliding door/window frame/track (3-track)	1	m	
47.6.4	Replace complete sliding door/window panel complete with glazing	1	M2	
47.6.5	Replace sliding door/window flyscreen netting (frame and netting)	1	M2	
47.6.6	Replace sliding door/window flyscreen netting (netting only)	1	M2	
47.6.7	Replace barrel bolts for windows/doors	1	No	
47.6.8	Replace swing door threshold	1	No	
47.6.9	Replace swing door handle	1	No	
47.6.10	Replace hinged door handle	1	No	
47.6.11	Replace sliding door handle	1	No	
47.6.12	Replace glazing rubber and bead	1	m	
47.6.13	Replace with 5mm thick plain/obscure/tinted glass	1	m2	
47.6.14	Replace with 5mm thick reinforced glass	1	m2	
47.6.15	Replace aluminium foil laminated plywood	1	m2	
47.6.16	Replace sliding door/window lock with key	1	No	
47.6.17	Replace swing door lock with key	1	No	
47.6.18	Replace hinged door lock with key	1	No	
47.6.19	Replace sliding door/window roller	1	No	
47.6.20	Replace swing door closer	1	No	
47.6.21	Replace hinged door hinges - GMP swing and Hinged Door	1	Pair	
47.6.22	Replace timber door hinges			
47.6.23	Panic lock - Single leaf	1	No	
47.6.24	Panic lock - double leaf	1	No	
47.6.25	Service/repair existing aluminium door/window by oiling; tightening loose parts; replacement of missing small parts/nuts and making good to ensure proper opening /closing.	1	No	
48	<b>PLUMBING INSTALLATIONS</b>			
	<b>Plumbing lines and fittings:</b>			
	<b>Materials:</b>			
	<b>Contractor shall re-route plumbing lines to the internal surface. Note all the joints will be welded. Work shall require but not limited to the following Materials:</b>			
48.1	1/2" copper pipe - Blue	1	m	
48.2	1/2" copper female coupling	1	No	
48.3	1/2" copper tee	1	No	
48.4	1/2" copper straight coupling	1	No	
48.5	1/2" copper elbow	1	No	
48.6	1/2" copper female elbow	1	No	
48.7	1/2" copper stop cork	1	No	
48.8	1/2" x 3/4" straight coupling	1	No	
48.9	1/2" x 3/4" copper male coupling	1	No	
48.10	1/2" x 3/4" hose tap	1	No	
48.11	2" PVC pipe.	1	m	
48.12	2" PVC elbow	1	No	

48.13	2" PVC tee/plug.	1	No	
48.14	1/2" basin tap. - Visitors toilet & BQ (City Market)	1	No	
48.15	1" PVC pipe.	1	m	
48.16	1" PVC elbow.	1	No	
48.17	1" x 3/4" PVC tee.	1	No	
48.18	1/2" Copper Clips	1	No	
48.19	Plastic Plugs(various size)	1	Pkt	
49	<b>Supply and replace/install the following plumbing work accessories/pipes:</b>			
49.1	Ball valves iron (all sizes: ½" to 1")	1	No	
49.2	Bottle trap chrome (all sizes: 1¼" to 1½")	1	No	
49.3	Brass tap (all sizes: ½" to 1")	1	No	
49.4	Gate valve (all sizes: ½" to 1")	1	No	
49.5	Gate valve (all sizes: 1¼" to 2")	1	No	
49.6	Non-return valve (all sizes: ½" to 1")	1	No	
49.7	Non-return valve (all sizes: 1¼" to 2")	1	No	
49.8	Waste plug/chain (all sizes: 1¼" to 1½")	1	No	
49.9	Stop cork (all sizes: ½" to 1")	1	No	
49.10	38mm PVC 'P'/S' trap	1	No	
49.11	38mm adjustable bottle trap	1	No	
49.12	32mm PVC 'P'/S' trap	1	No	
49.13	32mm adjustable bottle trap	1	No	
50	<b>Supply and install/replace sanitaryware and fittings:WC:</b>			
50.1	Imported white vitreous W.C. pan complete with cistern tank, flushing mechanism, flush pipes, fixing screws, seat cover and all necessary plumbing accessories (Twyford). Low level type. TWYFORD ENGLAND OPTIONS, SIDE FLUSH W.C.	1	No	
50.2	Imported coloured vitreous W.C. pan complete with cistern tank, flushing mechanism, flush pipes, fixing screws, seat cover and all necessary plumbing accessories (Twyford). Low level type. TWYFORD ENGLAND OPTIONS, TOP FLUSH W.C	1	No	
50.3	Imported coloured vitreous W.C. cistern tank complete with flush mechanism (Twyford). Low level type	1	No	
50.4	install Imported WC tank Only - Twyford	1	No	
51	<b>WHB/vanity units:</b>			
51.1	Ditto. Big size (500mm by 450mm). White TWYFORD ENGLAND MODAL WHB complete with pedestal, waste; waste trap and plug with chain. Size (=550mm by 400mm)	1	No	
51.2	Ditto. Big size with self supporting pedestal. White - White TWYFORD ENGLAND REFRESH WHB complete with waste; waste trap and plug with chain. Size (=550mm by 400mm)	1	No	
52	<b>Bath tub:</b>			
52.1	White/coloured bath tub complete with waste; equivalent) but with 1,2 or 3 tapholes. - TWYFORD White FIBRE bath tub complete with waste; equivalent) but with 2 or 3 tapholes.	1	No	
53	<b>Bidet:</b>			
53.1	White/coloured bidet with waste, waste trap, waste plug (Twyford or approved equivalent) but with 1,2 or 3 tapholes- FIBRE		No	
54	<b>Sinks:</b>			
54.1	Stainless steel sink with single bowl single tray complete with waste, trap and plug - Twyford England or Approved equivalent	1	No	
54.2	Ditto with single bowl, double tray - Twyford England or Approved equivalent	1	No	



54.3	Ditto with double bowl, double tray - Twyford England or Approved equivalent	1	No	
55	<b>Shower tray:</b>			
55.1	White/coloured Fibre type shower tray (twyford/approved equivalent)	1	No	
56	<b>Urinal:</b>			
56.1	White/coloured vitreous china complete single stall urinal bowl (Twyford/approved equivalent) with automatic flush cistern chrome down pipe and brackets, waste, traps. Size +/-500mm (height)	1	No	
57	<b>Water heaters:</b>			
57.1	80 litre water heater (Ariston)	1	No	
57.2	Ditto 50 litre	1	No	
57.3	<b>Ditto 30 litre</b>	1	No	
58	<b>Belfast laundry sink:</b>			
58.1	Traditional belfast sink in heavy duty fireclay complete with strainer and fixing brackets (Twyford England/approved equivalent)	1	No	
59	<b>Fittings and accessories:</b>			
59.1	Chrome plated heavy duty BATH mixer tap (Twyford England/approved equivalent)	1	No	
59.2	Chrome plated heavy duty BATH mixer tap (Twyford England/approved equivalent)	1	No	
59.3	Chrome plated heavy duty telephone shower (Twyford England/approved equivalent)	1	No	
59.4	Chrome plated heavy duty telephone shower (Twyford England/approved equivalent)	1	No	
59.5	Chrome plated heavy duty sliding rail (BIJOUX/approved equivalent)	1	No	
59.6	Chrome plated heavy duty adjustable Shower hook (Twyford England/approved equivalent)	1	No	
59.7	Chrome plated heavy duty WHB monobloc mixer (Twyford England/approved equivalent)	1	No	
59.8	Chrome plated heavy duty WHB mixer tap (Twyford England/approved equivalent)	1	No	
59.9	Chrome plated heavy duty WHB pillar tap with handwheels (Twyford England/approved equivalent)	1	No	
59.10	Chrome plated heavy duty SHOWER mixer tap complete with pole, pole brackets and rose (Twyford England/approved equivalent)	1	No	
59.11	Chrome plated heavy duty SHOWER mixer tap complete with pole, pole brackets and rose (Twyford England/approved equivalent)	1	No	
59.12	Chrome plated heavy duty SHOWER mixer tap with single lever complete with fully recessed pole, rose and accessories (Twyford England/approved equivalent)	1	No	
59.13	Chrome plated heavy duty BIDET mixer tap (Twyford England/approved equivalent)	1	No	
59.14	Chrome plated heavy duty BIDET mixer tap (Twyford England/approved equivalent)	1	No	
59.15	Chrome plated heavy duty kitchen SINK mixer tap (Twyford England/approved equivalent)	1	No	
59.16	Chrome plated heavy duty belfast SINK pillar tap (Twyford England/approved equivalent)	1	No	

59.17	19mm garden tap (VENUS, BS1010)	1	No	
59.18	Heavy duty wc seat cover (RADOF/Twyford England/approved equivalent).	1	No	
59.19	Special high quality wc seat cover made with high impact resistant co polymer and adjustable gold/chromuim plated pillar hinges (Twyford (Twyford England/approved equivalent)	1	No	
59.20	Special high quality wc seat cover made with high impact resistant co polymer and adjustable gold/chromuim plated pillar hinges (Roca)	1	No	
59.21	38mm sink/bath plug and chain (made in ENGLAND/ approved equivalent)	1	No	
59.22	Curved shower curtain rail	1	No	
59.23	Semi recessed/recessed ceramic soap dish	1	No	
59.24	Ceramic toilet roll holder - Twyford	1	No	
59.25	Chromium plated steel towel rail - Zozo	1	No	
59.26	Tissue Holder - 3-in-one	1	No	
59.27	Plastic cup holder	1	No	
60	<b>Sundry:</b>			
60.1	Inspect check and clear blockage in sanitary ware (e.g. WC, shower, WHB, sink, inspection chamber, bidet, bath tub)	1	No	
60.2	Remove sanitary ware/fittings (e.g. WC; shower; WHB; sink, bidet, bath tub; towel rail)	1	No	
60.3	Refix existing sanitaryware/fitting (e.g. WC, shower, WHB, sink, bidet, bath tub; towel rail)	1	No	
61	<b>FINISHINGS:</b>			
	<b>Wall / Floor Finishings</b>			
	<b>Rendering</b>			
61.1	Provide for chiselling out and patching of cracks in walls WITH MORTAR (MIX 1:4)	1	m	
61.2	Provide for wall rendering (mix 1:4 cement/sand) of THICKNESS 12MM	1	m2	
61.3	Break up existing cement/sand floor screed up to 50mm depth and prepare to receive new finish	1	m2	
61.4	Provide for floor screed (mix 1:3). 25mm thick.	1	m2	
61.5	Tyrolean finish in one part of white/ordinary cement and five parts of fine aggregate to be applied with splatterdash machine in three applications to a total thickness 12mm	1	m2	
61.6	Cement and sand (1:3); for grouting and the like Grouting; 25mm thick; stanchion	1	m2	
62	<b>Wall tiles</b>			
	<b>Ceramic tiles, BS 1281/CEN fixing with approved adhesive grouting with white cement/coloured internal nad clean the surface thoroughly</b>			
62.1	Scrape off existing ceramic wall tiles and cart away debris.	1	m2	
62.2	Supply and apply 12mm backing to receive new finish.	1	m2	
62.3	Supply and fix plain white ceramic wall tiles to blockwork or concrete surface including cement mortar backing, cutting and special tile fittings at corners. Size 250mm by 300mm. ITALIAN/SPANISH	1	m2	
62.4	Supply and fix plain coloured ceramic wall tiles to blockwork or concrete surface including cement mortar backing, cutting and special tile fittings at corners. Size 200mm by 300mm. Italian	1	m2	

62.5	Supply and fix plain white ceramic wall tiles to blockwork or concrete surface including cement mortar backing, cutting and special tile fittings at corners. Size 200mm by 300mm. CHINA	1	m2	
62.6	Supply and fix 4.5mm thick size 25mm x 25mm Mosiac tiles fixed with ordinary cement ashesive on screeded backing	1	m2	
62.7	Supply and fix 4.5mm thick size 25mm x 25mm Mosiac tiles fixed with white cement ashesive on screeded backing	1	m2	
63	<b>Floor Finishings:</b>			
63.1	Chisel out existing terrazzo/ceramic tiles/vitrified tiles/mosaic tiles/marble/or any other hard floor surface finishes and cart away debris from site.	1	m2	
63.2	Scrape off existing PVC (vinyl) floor tiles, clean off adhesive, prepare floor to receive new finish	1	m2	
63.3	Supply and lay PVC (Dunlop) tiles of any colour including cutting and fitting around corner	1	m2	
64	<b>Terrazzo and Granolithic Paving:</b>			
64.1	25mm insitu terrazzo paving consisting of coloured aggregate and white cement steel rolled, trowelled to floor and machine polished laid in bays between ebonite strips 25mm by 5mm (inclusive) on concrete base	1	m2	
64.2	Scrub and machine polish existing terrazzo floor paving	1	m2	
65	<b>Ceramic floor tiles:</b>			
65.1	Supply and lay non-slip ceramic floor tiles on screeded bed. Inclusive of marching tile fittings at the corners, skirtings and edges. Inclusive of pointed grouting in cement mortar. ITALIAN,SPANISH,TURKEY 300mm X 300mm	1	m2	
65.2	Supply and lay non-slip ceramic floor tiles on screeded bed. Inclusive of marching tile fittings at the corners, skirtings and edges. Inclusive of pointed grouting in cement mortar. ITALIAN,SPANISH,TURKEY 450mm X 450mm	1	m2	
65.3	Supply and lay non-slip ceramic floor tiles on screeded bed. Inclusive of marching tile fittings at the corners, skirtings and edges. Inclusive of pointed grouting in cement mortar. ITALIAN,SPANISH,TURKEY 600mm X 600mm	1	m2	
65.4	Supply and lay non-slip ceramic floor tiles on screeded bed. Inclusive of marching tile fittings at the corners, skirtings and edges. Inclusive of pointed grouting in cement mortar. CHINA. All sizes	1	m2	
65.5	Supply and lay glazed vitrified floor tiles on screeded bed. Inclusive of marching tile fittings at the corners, skirtings and edges. Inclusive of pointed grouting in cement mortar	1	m2	
66	<b>Vitrified floor tiles:</b>			
66.1	Supply and lay non-slip vitrified floor tiles on screeded bed. Inclusive of marching tile fittings at the corners, skirtings and edges. Inclusive of pointed grouting in cement mortar.	1	m2	
66.2	Ditto glazed vitrified floor tiles	1	m2	
67	<b>Mosiac floor tiles:</b>			
67.1	25 x 25 x 4.5mm Mosiac tiles fixed with white/ordinary cement on screeded backing	1	m2	
67.2	<b>Porcelain Floor Tiles</b>			
67.2.1	Supply and lay Porcelain floor tiles on screeded bed. Inclusive of marching tile fittings at the corners, skirtings and edges. Inclusive of pointed grouting in cement mortar. ITALIAN,SPANISH,TURKEY 600mm X 600mm x 12mm thick.	1	m2	

67.2.2	Supply and lay Procelain floor tiles on screeded bed. Inclusive of marching tile fittings at the corners, skirtings and edges. Inclusive of pointed grouting in cement mortar. ITALIAN,SPANISH,TURKEY 600mm X 600mm x 18mm thick.	1	m2	
68	<b>Marble floor finish:</b>			
68.1	19mm insitu marble palladiana paving consisting of coloured aggregate and cement steel rolled, trowelled to floor and machine polished laid in bays between strips (inclusive) on concrete base.	1	m2	
68.2	Ditto 12mm thick size 350 x 350mm (Light coloured) marble tiles bedded and jointed in white/ordinary cement	1	m2	
68.3	Marble thresholds size 12mm thick by 300mm wide by 1000mm (cut to fit threshold)	1	No	
69	<b>Clay floor tiles:</b>			
69.1	Clay Quarry tiles BS1286 class 1 or CEN Standard, bedding, jointing and pointing in cement mortar	1	m2	
69.2	Supply and lay non-slip quarry tiles on newly prepared mortar bed.	1	m2	
69.3	<b>Supply and lay Vynl floor tile including adhesive and polish</b>			
69.3.1	2mm thick stone surface Vinyl sheet flooring/Vinyl tile flooring	1	m2	
69.3.2	3mm thick Vinyl sheet flooring/Vinyl tile flooring	1	m2	
69.3.3	4.5mm thick Vinyl sheet flooring/Vinyl tile flooring	1	m2	
69.3.4	5mm thick Vinyl sheet flooring/Vinyl tile flooring	1	m2	
69.3.5	8mm thick Vinyl sheet flooring/Vinyl tile flooring	1	m2	
69.3.6	10mm thick Vinyl sheet flooring/Vinyl tile flooring	1	m2	
69.4	<b>Supply and lay wooden Vynl floor tile including adhesive and polish</b>			
69.4.1	2mm thick stone surface Vinyl sheet flooring/Vinyl tile flooring	1	m2	
69.4.2	3mm thick Vinyl sheet flooring/Vinyl tile flooring	1	m2	
69.4.3	4.5mm thick Vinyl sheet flooring/Vinyl tile flooring	1	m2	
69.4.4	5mm thick Vinyl sheet flooring/Vinyl tile flooring	1	m2	
69.4.5	8mm thick Vinyl sheet flooring/Vinyl tile flooring	1	m2	
69.4.6	10mm thick Vinyl sheet flooring/Vinyl tile flooring	1	m2	
69.5	<b>Supply and lay wooden wooden floor tile including adhesive and polish</b>			
69.5.1	10mm thick, with edge protected	1	m2	
69.5.2	12mm thick, with edge protected	1	m2	
69.5.3	20mm thick, with edge protected	1	m2	
69.5.4	25mm thick, with edge protected	1	m2	
70	<b>PAINTING AND DECORATION:</b>			
	<b>All paints, primings and undercoats unless otherwise describe shall be obtained from one of the following approved manufacturers: DULUX Paints Limited, International Paints (W.A.) Limited, Luxul Berger (Nig)Limited, Portland Paints, and Products Ltd. (Sandtex Paint) and Meyer Paints limited.</b>			
	<b>INTERNAL AND EXTERNAL:</b>			
70.1	Provide for surface preparation of any surface viz: metal window frames; metal security grills; general metal surface blockwall; general timber surfaces; doors; facia; etc. Including scraping off; sanding down and washing of existing surface/coatings with detergent.	1	m2	
70.2	Clean/wash fungi infected external/internal walls/surfaces with sodium hypochlorite or approved anti-fngal paint	1	m2	

70.3	Apply under coat and one finishing coat using Duco polish on timber surfaces	1	m2	
70.4	Ditto under coat, and two finishing coats	1	m2	
70.5	Apply one under coat and one finishing coat of gloss paint on any surface viz: metal window frames; metal security grills; general metal surfaces; rendered block wall; general timber surfaces; doors; fascia; skirting; ceiling etc. DULUX PAINT ONLY	1	m2	
70.6	Ditto not exceeding 300mm wide. DULUX PAINT ONLY	1	m	
70.7	Apply one under coat and one finishing coat of gloss paint on any surface viz: metal window frames; metal security grills; general metal surfaces; rendered block wall; general timber surfaces; doors; fascia; skirting; ceiling etc. BERGER PAINT OR APPROVED EQUIVALENT	1	m2	
70.8	Ditto not exceeding 300mm wide. BERGER PAINT OR APPROVED EQUIVALENT	1	m	
70.9	Ditto. one under coat and two finishing coats. (Fresh Surface) DULUX PAINT	1	M2	
70.10	Ditto not exceeding 300mm wide. DULUX PAINT ONLY	1	m	
70.11	Ditto. one under coat and two finishing coats. (Fresh Surface) BERGER PAINT OR APPROVED EQUIVALENT	1	M2	
70.12	Ditto not exceeding 300mm wide. BERGER PAINT OR APPROVED EQUIVALENT	1	m	
71	<b>Emulsion Paint</b>			
71.1	Apply one coat of emulsion paint on any surface viz: rendered block wall; general wooden surfaces; doors; fascia; skirting; ceiling etc. DULUX PAINT ONLY	1	m2	
71.2	Ditto not exceeding 300mm wide. DULUX PAINT ONLY	1	m	
71.3	Apply one coat of emulsion paint on any surface viz: rendered block wall; general wooden surfaces; doors; fascia; skirting; ceiling etc. BERGER PAINT OR APPROVED EQUIVALENT	1	m2	
71.4	Ditto not exceeding 300mm wide. BERGER PAINT OR APPROVED EQUIVALENT	1	m	
71.5	Apply one under coat, one finishing coat of emulsion paint on any surface viz: rendered block wall; general wooden surfaces; doors; fascia; skirting; ceiling etc. DULUX PAINT ONLY	1	m2	
71.6	Ditto not exceeding 300mm wide. DULUX PAINT ONLY	1	m	
71.7	Apply one under coat, one finishing coat of emulsion paint on any surface viz: rendered block wall; general wooden surfaces; doors; fascia; skirting; ceiling etc. BERGER PAINT OR APPROVED EQUIVALENT	1	m2	
71.8	Ditto not exceeding 300mm wide. BERGER PAINT OR APPROVED EQUIVALENT	1	m	
71.9	Apply one under coat, one finishing coat of <u>Silk/Soft Sheen/Mansory/</u> paint on any surface viz: rendered block wall; general wooden surfaces; doors; fascia; skirting; ceiling etc. DULUX TRADE PAINT ONLY (Internal wall use only)	1	m2	
71.10	Ditto not exceeding 300mm wide. DULUX PAINT ONLY	1	m	
71.11	<b>Matt Emulsion Paint</b>			
71.11.1	Apply one coat of Matt emulsion paint on any surface viz: rendered block wall; general wooden surfaces; doors; fascia; skirting; ceiling etc. DULUX PAINT ONLY	1	m2	
71.11.2	Ditto not exceeding 300mm wide. DULUX PAINT ONLY	1	m	

71.11.3	Apply one coat of Matt emulsion paint on any surface viz: rendered block wall; general wooden surfaces; doors; fascia; skirting; ceiling etc. BERGER PAINT OR APPROVED EQUIVALENT	1	m2	
71.11.4	Ditto not exceeding 300mm wide. BERGER PAINT OR APPROVED EQUIVALENT	1	m	
71.11.5	Apply one under coat, one finishing coat of Matt emulsion paint on any surface viz: rendered block wall; general wooden surfaces; doors; fascia; skirting; ceiling etc. DULUX PAINT ONLY	1	m2	
71.11.6	Ditto not exceeding 300mm wide. DULUX PAINT ONLY	1	m	
71.11.7	Apply one under coat, one finishing coat of Matt emulsion paint on any surface viz: rendered block wall; general wooden surfaces; doors; fascia; skirting; ceiling etc. BERGER PAINT OR APPROVED EQUIVALENT	1	m2	
71.11.8	Ditto not exceeding 300mm wide. BERGER PAINT OR APPROVED EQUIVALENT	1	m	
71.11.9	Apply one under coat, one finishing coat of <u>Silk/Soft Sheen/Mansory/</u> paint on any surface viz: rendered block wall; general wooden surfaces; doors; fascia; skirting; ceiling etc. DULUX TRADE PAINT ONLY (Internal wall use only)	1	m2	
71.11.10	Ditto not exceeding 300mm wide. DULUX PAINT ONLY	1	m	
72	<b>External Paints</b>			
72.1	Apply one under coat, one finishing coat of <u>trade Matt Vinyl</u> paint on any surface viz: rendered block wall; general wooden surfaces; doors; fascia; skirting; ceiling etc. DULUX TRADE PAINT ONLY (External use only)	1	m2	
72.2	Ditto not exceeding 300mm wide. DULUX PAINT ONLY	1	m	
72.3	Apply one coat of <b>textured</b> paint on any surface viz: rendered block wall; general wooden surfaces; doors; fascia; skirting; ceiling etc. DULUX TRADE PAINT ONLY (External use only)	1	m2	
	<b>EpoxyPaint</b>			
	Apply one under coat, one finishing coat of <b>BERGER LUXON</b> Epoxy paint on any surface viz: rendered block wall; general wooden surfaces; doors; fascia; skirting; ceiling etc. BERGER TRADE PAINT ONLY (External use only)			
	Apply one under coat, one finishing coat of <b>DULUX</b> Epoxy paint on any surface viz: rendered block wall; general wooden surfaces; doors; fascia; skirting; ceiling etc. DULUX TRADE PAINT ONLY (External use only)			
72.4	Blast clean; Apply one coat red oxide and one coat epoxy resin surfaces of steelwork; generally	1	m2	
72.5	Provide the service of a professional clearer and clear the floor, wall tiles all the sanitary wares using appropriate chemicals.	1	M2	
72.6	Wall screeding internal & External - Dulux	1	m2	
72.7	Supply and apply approved MC40 screeding floating materials for internal use.	1	m2	
72.8	Supply and apply approved MC50 screeding floating materials for external use.	1	m2	
73	<b>Inspection chambers (IC) and manhole covers:</b>			
73.1	Take off and remove existing IC covers; replace with new mesh fabric (ref A143) reinforced precast concrete cover. 100mm thick. All sizes.	1	No	

73.2	Supply and replace 100mm thick RC cover to septic tank/soak-away pit using 12mm high tensile steel reinforcement at 150mm centers complete with manhole cover.	1	m2	
73.3	Excavate and construct inspection chamber, size 600mm x 600mmx500mm deep in 225mm block-work complete with plaster and concrete cover	1	No	
73.4	Ditto 1000mm x 1000mm x 500mm	1	No	
74	<b>Cleaning of all gutters:</b>			
74.1	Open drains/roof gutters	1	M	
74.2	Closed drains/culverts	1	M	
74.3	Traps/manholes	1	No	
74.4	<b>Industrial cleaning</b>			
74.4.1	Allow for professional clean up of interior and exterior sections of facilities both internal and external floor area. Scope of clean-up shall include wasging/polishing of floor tiles/finishes; sanitary fitting; doors and windows; removal of ALL paint marks on door and window panes; real of carpet glue on floors; and other house fittings.	1	L/S	
74.4.2	Supply and erect concrete decorative precast concrete fence including concrete pillar, decorative panel and standard panel (A. Michellitti standard)	1	m2	
74.4.3	Fabricate and install custom made steel gate patterned to suit decorative precast panel template	1	m2	
74.4.4	Supply and fix window/door subframe using square pipes	1	m	
74.6	<b>ROAD REPAIR:</b>			
74.6.1	Check for any subsidence on paved areas; take up paving slabs or interlocking tiles, refil base with consolidated sand bed and relay slabs to level.	1	m2	
74.6.2	Take up precast concrete paving slabs; and store for reuse	1	No	
75	<b><u>DRAINS AND CULVERTS.</u></b>			
75.1	Clearing and Repairing of Existing Drainage Facilities.	1	m	
75.2	Clean, load and cart away from site all deposit materials in the drainage system and repair drainage facilities as in drawings or as directed by the Engineer's Representative.	1	m3	
75.3	Cleaning of culverts.	1	m	
75.4	Cleaning of concrete side drains.	1	m	
75.5	Demolition of Existing Drains and Culverts.			
75.6	<b>Demolish, remove and haul to spoil existing drains and culverts including concrete surrounds, head walls, wing walls, aprons.</b>			
75.7	Concrete drains CSA (0.56m <sup>2</sup> - 2.25m <sup>2</sup> )	1	m	
75.8	Culverts CSA (0.56m <sup>2</sup> - 2.25m <sup>2</sup> )	1	m	
75.9	Concrete Drains			
76.00	<b>Provide and install approved precast R.C. pipe culverts as in drawings or as directed by the Engineer's Representative (Rate inclusive of blinding, apron, bedding, headwalls, wingwalls, formwork, and reinforcements.</b>			
76.10	600 dia. Single pipe culvert.	1	m	
76.20	600-dia. double pipe culvert	1	m	
76.30	750 dia. Single pipe culvert.	1	m	
76.40	750-dia. double pipe culvert	1	m	
76.50	900 dia. Single pipe culvert.	1	m	
76.60	900-dia. double pipe culvert	1	m	

76.70	1200 dia. single pipe culvert.	1	m	
76.80	1200 dia. double pipe culvert.	1	m	
77	<b>Box Culverts</b>			
77.1	Provide materials and construct reinforced concrete box culverts as specified by the Engineer's Representative (Rate inclusive of blinding, apron, bedding, headwalls, wingwalls, forwork and reinforcement).			
77.2	Size: 1.0 x 1.0 Single Cell.	1	m	
77.3	Size: 1.0 x 1.0 Double Cell.	1	m	
77.4	Size: 1.2 x 1.2 Single Cell.	1	m	
77.5	Size: 1.2 x 1.2 Double Cell.	1	m	
77.6	Size: 1.5 x 1.5 Single Cell.	1	m	
77.7	Size: 1.5 x 1.5 Double Cell.	1	m	
77.8	Size: 1.8 x 1.8 Single Cell.	1	m	
77.9	Size: 1.8 x 1.8 Double Cell.	1	m	
77.10	Size: 2 x 2 Single Cell.	1	m	
77.11	Size: 2 x 2 Double Cell.	1	m	
77.12	Provide and place 150mm thick stone pitching set in 1 to 4 cement mortar as specified or directed by the Engineer's Representative.	1	m <sup>2</sup>	
77.13	Provide chutes on high embankments as specified or directed by the Engineer's Representative.	1	m	
77.14	Provide and install reinforced concrete access slabs as cover to concrete side drains in townships as directed by the Engineer's Representative.	1	m	
77.15	Provide subsoil drains in areas of high water table below formation level inclusive of excavation, filling with selected coarse aggregates and coarse sand layers to depth not exceeding 1.5m and 0.65m width.	1	m	
77.16	Extra for placing 100mm perforated PVC pipes within the filter material.	1	m	
78	<b>PAVEMENT AND SURFACING</b>			
78.1	Shape and compact formation in cuttings as specified to 100%B.S. compaction in the limit of the subgrade width.	1	m <sup>2</sup>	
78.2	Provide, spread, shape and compact to 100%B.S standard compaction naturally occurring material as subbase not exceeding a compacted layer of 200mm thickness. (Haulage inclusive).	1	m <sup>3</sup>	
78.3	Provide, spread, shape and compact to 100% W.A. standard compaction naturally occurring material as base material not exceeding a compacted layer of 200mm thickness. (Haulage inclusive).	1	m <sup>3</sup>	
78.4	Provide, spread, shape and compact approved crushed stone base (wet process) as specified to a compacted thickness of 200mm	1	m <sup>3</sup>	
78.5	Soil-cement stabilized base.			
78.6	Provide, spread, shape and compact soil-cement mixture of 6% cement content in layers to 200mm compacted thickness sub base in selected areas under carriageway and shoulders as directed.	1	m <sup>3</sup>	
78.7	Adjust to item 405.1 for reduction or addition in cement content by 1%	1	m <sup>3</sup>	



78.8	Cut out pot holes in isolated failures on carriageway to rectangular shape. Refill with base materials and compacted to 100% BS standard compaction..	1	m <sup>2</sup>	
78.9	Provide, lay and compact asphaltic concrete binder course to a compacted thickness of 50mm on carriageways, including failed areas. (Prime coat inclusive.)	1	m <sup>2</sup>	
78.10	Surface Dressing on Shoulders.			
78.11	Provide and lay surface dressing on all shoulders (old and new) using cut back bitumen bitumen 100/150 seconds <b>STV</b> at 40 <sup>0</sup> C at 1.12 liter/m <sup>2</sup> and 12mm single sized crushed rock chippings.			
78.12	Once coat on all shoulders old and new roadway.	1	m <sup>2</sup>	
78.13	Second coat on shoulders of new roadway.	1	m <sup>2</sup>	
79	<b>MISCELLANEOUS ITEMS</b>			
79.1	Provide and install standard triangular section in grade 20 concrete, kilometer posts including excavation, painting with 2 coats of approved paint and numbering with luminous paint as specified at 1km intervals.	1	no	
79.2	Provide and install concrete culvert markers including excavation, concrete, painting and numbering as directed.	1	no	
79.3	Pavement markings.			
79.4	Supply painting material and execute all the necessary roadway markings on pavement to current standards as specified and directed by the Engineer's Representative.			
79.5	Broken lines.	1	m	
79.6	Solid lines.	1	m	
79.7	Provide mounted road signs as shown on drawings and or directed by the Engineer's Representative.	1	Prov.Sum	
79.8	Supply and fix guard rails and posts as directed by Engineer's Representative.	1	Prov.Sum	
79.9	Provide materials, construct and install reinforced concrete precast concrete barriers as specified and directed by the Engineer's Representative. Including formwork and reinforcement.	1	m	
79.10	Provide and lay concrete grade 25 in kerbs. Rate to include for formwork, and reinfnts..			
79.11	Size 150 x 300mm in junctions, lay bys, bus bays and where directed including excavation, blinding and lhaunching.	1	m	
79.12	Size 220 x 450 where specified or directed. Rate to include for straight and circular kerbs and quadrants.	1	m	
79.13	Provide lay and compact concrete Grade 20 in 100mm thick slab in median for walkway in built-up areas.	1	m <sup>2</sup>	
79.14	Supply approved painting materials and execute all the necessary painting on road structures as specified and directed by the Engineer's Representative.	1	Prov.Sum	
79.15	Allow for the installation of street lighting on roads at 20m intervals in Urban Areas using ML - At Solar Panel Lighting	1	Prov.Sum	
79.16	Provide and erect alluminium roofing over bus base. Rate include the cost of concrete support, concrete seats and all structures as per specifications supplied Min of Works	1	unit	
79.17	Provide and install solar powered road studs in critical sections from approved suppliers as directed by Engineer	1	m	
79.18	<b>Kerbs</b>			

79.19	Supply and lay precast concrete kerbs B.S.340; bedding and jointing in cement mortar (1:3) complete with foundation; size 100 x 225 x 650mm.	1	No	
79.20	Ditto size 150 x 225 x 650mm.	1	No	
79.21	Take up kerbs and store for reuse as directed	1	No	
79.22	Take from store and re-lay concrete kerbs	1	No	
79.23	Cut and break off existing deteriorated road surface to rectangular shape and cart away debris.	1	m <sup>2</sup>	
79.24	Prepare existing deteriorated road surface by application of COLAS and thereafter supply and lay 50mm thick hot rolled asphalt on 150mm bed of compacted road base.	1	m <sup>2</sup>	
80	<b>Supply and lay sandcrete interlocking paving bricks to BS 368</b>			
80.1	Grade 20 strength. Cement colour. 60mm thick. Various patterns/designs. Rate to include excavation and sharp sand under filling of 100mm thick as necessary.	1	m <sup>2</sup>	
80.2	Ditto. 80mm thick.	1	m <sup>2</sup>	
81	<b>SURFACING AND PAVING</b>			
81.1	Provide and lay prime coat using MC0 or MC1 cut-back bitumen at 0.9 litres/m <sup>2</sup> and blind with river sand.	1	m <sup>2</sup>	
81.2	Prepare existing deteriorated road surface by application of COLAS and thereafter supply and lay 50mm thick hot rolled asphalt on 150mm bed of compacted road base.	1	m <sup>2</sup>	
81.3	Provide and lay first coat surface dressing using S125 cut-back bitumen sprayed at 1.3 litres/m <sup>2</sup> and 18mm single size crushed granite rock chippings	1	m <sup>2</sup>	
81.4	Provide and lay second coat surface dressing using S125 cut-back bitumen sprayed at 1.3 litres/m <sup>2</sup> and 12mm single size crushed granite rock chippings	1	m <sup>2</sup>	
81.5	Provide, lay and compact sand asphalt mixture of 5.5% 60/70 penetration bitumen content by weight of 80% dry river sand and 20% select material.	1	m <sup>2</sup>	
81.6	Provide, lay and compact 30mm thick hot-rolled asphaltic concrete regulating course.	1	m <sup>2</sup>	
81.7	Provide, lay and compact 50mm thick hot-rolled asphaltic concrete wearing course.	1	m <sup>2</sup>	
81.8	Provide and lay 50mm thick precast concrete paving blocks of approved shape and in accordance with BS6717 or equivalent	1	m <sup>2</sup>	
81.9	Provide and lay 80mm thick precast concrete paving blocks of approved shape and in accordance with BS6717 or equivalent	1	m <sup>2</sup>	
81.10	Provide and lay 50mm thick coloured precast concrete paving blocks of approved shape and in accordance with BS6717 or equivalent	1	m <sup>2</sup>	
81.11	Provide and lay 80mm thick coloured precast concrete paving blocks of approved shape and in accordance with BS6717 or equivalent	1	m <sup>2</sup>	
81.12	Provide and lay precast concrete slabs to specified thickness in grade 30 concrete including shuttering and transporting but excluding reinforcement (measured separately)	1	m <sup>3</sup>	