ADH. OMADHOO

NO	BILL	QUANTITY	TOTAL (MVR)	USD (15.42)
1	GENERAL COMPONENTS	-		
2	GUARD ROOM A	1		
3	OFFICE A	1		
4	SHED A	1		
	GRAND TOTAL			

BOQ GENERAL COMPONENTS

NO	BILL	TOTAL (MVR)
1	PRELIMINARIES	
2	GROUND WORKS	
3	CONCRETE WORKS	
4	MASONRY AND PLASTERING	
5	METAL WORKS	
6	PAINTING	
7	ELECTRICAL , IT & HVAC INSTALLATION	
8	HYDRAULICS & DRAINAGE	
9	OTHER WORKS	
	GRAND TOTAL	

CLIENT: MINISTRY OF ENVIRONMENT

surplus soil.

IETM NO: RATES UNIT TOTAL IN MVR DESCRIPTION QTY REDUCED Bill No. 01 1 **PRELIMINARIES** 1.1 GENERAL Abbreviations m - meter No - numbers m3 - cubic meter m2 - square meter Lm - Linear meter t - tonnes incl - including mm - millimeter dia - diameter SS - Stainless Steel GI - Galvanized Iron SITE MANAGEMENT COSTS 1.2 Allow for all on and off site management costs 1.2.1 including costs of foreman and assistants, temporary services, telephone, fax, hoardings, fences and similar items. 1.00 Item 1.3 SITE ESTABLISHMENT Allow for mobilization and demobilization 1.3.1 1.3.2 Allow for relocation of any existing waste to a temporary location identified by the island council. Such waste should be brought back to center after completion of works 1.00 Item 1.4 SERVICES AND FACILITIES Provision and maintenance of services and facilities 1.4.1 such as Water, power supply, lighting and fuel required for the project. 3.00 Months TEMPORARY FENCING AND HOARDING 1.5 1.5.1 Supply, erect and maintenance of a fence through out the construction period and hoarding all along the 1.00 perimeter of the site. Item 1.6 SAFETY ON SITE 1.6.1 Safety on site:- Providing and maintaining adequate safety measure on site for all workers and all authorized visitors on site and protecting adjoining properties and people against falling objects or other with regard to the construction works SIGN BOARD 1.7 Allow for project sign board on site. (1 sqm, printed 1.7.1 canvas on 10mm plywood) 1.00 Item **CLEANING UPON COMPLETION** 1.8 Cleaning the site upon completion of all works. 1.00 1.8.1 Item **TOTAL OF BILL NO. 01 (PRELIMINARIES)** (CARRIED OVER TO THE GENERAL SUMMARY) Bill no. 02 2 **GROUND WORKS** 2.1 GENERAL 2.1.1 (a) Rates shall include for: leveling, grading, trimming, compacting to faces of excavation, keep sides plumb, backfilling, consolidating and disposing

GENERAL COMPONENTS DETAILS

2.1.2	Excavation quantities are measured to the faces of			1	1
2.1.2	concrete members. Rates shall include for all				
	additional excavation required to place the				
	formwork.				
2.1.3	Filling rates shall include for: leveling, grading,				
	trimming and compacting.				
2.1.4	Water proofing and damproofing rates shall include				
	for: dressing around and sealing to all penetrations.				
2.2 2.2.1	SITE CLEARING				
2.2.1	Clear the area of site from rubbish and vegetable matters, stumps, roots etc. (Demolition of existing				
	building shall be included)	1.00	item		
2.2.2	Allow for relocation of any existing waste to a				
	temporary location identified by the island council.				
	Such waste should be brought back to center after		_		
	completion of works.	1.00	Item		
2.3 2.3.1	PROTECTION OF EXISTING FOUNDATIONS Protecting foundations of adjecent houses, by using				
2.3.1	the method of foundation protection as specified by				
	the engineer and drawing.				
2.4	EXCAVATION				
2.4.1	Excavation quantities are measured to the faces of				
	concrete members. Rates shall include for all				
	additional excavation required to place the				
2.4.2	formwork, back fill, dewatering and others Excavation for concrete only slabs	13.05	m ³		
2.4.2	Excavation for hazardous container concrete slab	4.35	m ³		
2.4.4	Excavation for perimeter fence including gate	14.11	m ³		
2.4.5	Excavation for water tank foundation	0.98	m ³		
2.4.6	Excavation for light post footing	1.43	m ³		
2.5	BACK FILLING				
2.5.1	(a) Rates shall include for: leveling, grading, trimming, compacting and similar.				
2.5.2	(b) Ground need to be compacted to the required				
	density by the consultant.				
2.5.3	Provisional rate for incidental earth filling				
	dependent on island condition (if site is found too				
	low). Formation level should be decided in				
	consultation with engineer to avoid unnecessary backfilling				
2.5.4	Excavation quantities are measured to the faces of	10.00	m ³		
2.5.1	concrete members. Rates shall include for all				
	additional excavation required to place the				
	formwork, back fill, dewatering and others				
2.5.5	200 mm thick compacted gravel bed layer to receive				
	damp proof membrane - concrete slab only area	41.02	m ³		
2.6	DAMP PROOF MEMBRANE	41.82	111		
2.6.1	(a) Rates shall include for: dressing around and				
	sealing to all penetrations, laps and turnups				
2.6.2	Polythene damp proof membrane (1000 gauge) laid				
	on blinding layer under concrete slab only area				
		233.03	m ²		
2.7	DEWATERING AND SHORING				
2.7.1	This item shall include for all the piping, pumps, etc.				
	Water needs to be pumped to an assigned area as per local regulation.	1.00	Item		
	iotai regulation.	1.00	Itelli		
TOTAL O	F BILL NO. 02 (GROUND WORKS)				•
(CARRIEL	OVER TO THE GENERAL SUMMARY)			•	
2	Bill no. 03				
3	CONCRETE WORKS				
3.1	GENERAL		l	I	I

3.1.1	a) Pata shall include for: placing in position, making	1		I	1	I
5.1.1	a) Rate shall include for: placing in position; making					
	good after removal of formwork and casting in all					
	required items; additional concrete required to					
	conform to structural and excavated tolerances.					
3.1.2 3.1.3	b) Mix ratio for reinforced concrete shall be 1:2:3 c) Concrete quantity is measured to the edges of					
5.1.5	concrete foundation members. Rates shall be					
	inclusive for any additional concrete required to					
	place the formwork.					
3.2	LEAN CONCRETE					
3.2.1	50mm thick lean concrete under the fence and gate					
	footing and foundation beams with a mix of 1:2:6	2.33	m ³			
3.2.2	50mm thick lean concrete under the water tank	2.00				
-	foundation with a mix of 1:2:6	2.45	m ³			
3.2.3	50mm thick lean concrete under the leachate gutter		-			
	with a mix of 1:2:6	1.10	m ³			
3.3	REINFORCED CONCRETE					
3.3.1 3.3.2	In-situ reinforced concrete to: Add water proofing compound to concrete mix for					
5.5.2	Add water proofing compound to concrete mix for					
	walls, columns, footing and cover slab on or below GL					
3.3.3	Concrete Slab Only		2			
3.3.3.1	Slab including edge and mid beams (as given) Concrete Slab For Hazardous Container	34.71	m ³			
3.3.4 3.3.4.1	Slab including edge beams (as given)	5.88	m ³			
3.3.4.1	Fence	5.00	111			
3.3.5.1	Foundation Beam 200 x 350 mm	8.55	m ³			
3.3.5.2	Column 200 x 200 mm	1.76	m ³			
3.3.6	Gate		2			
3.3.6.1	Footing 600 x 650 x 350 mm	0.25	m ³			
3.3.6.2 3.3.7	Column 300 x 300 mm Water Tank Foundation	0.51	m ³			
3.3.7	Foundation (as given)	1.60	m ³			
3.3.8	Light Post Footing	1.00				
3.3.8.1	Footing (as given)	1.51	m ³			
3.3.9	Leachate Gutter		2			
3.3.9.1	Gutter	6.67	m ³			
TOTAL OF	BILL NO. 03 (CONCRETE WORKS)					
	OVER TO THE GENERAL SUMMARY)			-	-	
	Bill no. 04					
5	MASONRY AND PLASTERING					
5.1 5.1.1	GENERAL					
3.1.1	Rates shall include for: cleaning out cavities, forming					
	rebated reveals and pointing and cleaning down to					
	reveals where necessary; fractional size blocks, all					
	necessary machine cutting, cutting or forming chases					
	or edges of floor slabs, cutting or leaving holes and					
	openings as recesses for and building in pipes,					
	conduits, sleeves and similar as required for all					
	trades; leaving surfaces rough or raking out joints for					
	plastering and flashings, bedding frames or plates,					
	building in joists, bearers or similar, temporary					
	supports to openings, templates, reinforcement in					
F 1 2	walls and for all necessary making good.					
5.1.2	Cement solid block, laid on and incl. mortar tie rods,					
	compression joint gap filler, nylon/plastic mesh as specified					
5.1.3	Cement plastering on walls and concrete surfaces as					
-	specified incl. wire mesh at the joints of concrete					
	surfaces and walls					

	Manual and the solution of the DIAKE (Manual Strategy			1	1
5.1.4	Masonry brick should be salt free PWS / Municipalty				
	solid bricks.				
5.2	CEMENT BLOCK WORK				
5.2.1	150mm wide solid block wall on cement plastered				
	and painted finish, laid on and incl. 1:4 Cement				
	Mortar, tie rods, compression gap filler, nylon /				
5.2.2	plastic mesh as specified.				
5.2.2	Fence Half wall	101.14	m ²		
5.2.2.1	PLASTERING	101.14	III		
5.2.3.1	a) 24mm cement plastering on FENCE WALL and				
5.2.5.1	concrete surfaces with 1:4 Cement mortar mix as				
	specified incl. wire mesh at joints of concrete surfaces				
	and walls (first, second coats).				
5.2.3.2	Fence	219.89	m ²		
			•••		
TOTAL OF	F BILL NO. 04 (MASONRY AND PLASTERING)			1	1
(CARRIED	OVER TO THE GENERAL SUMMARY)				
	Bill no. 05				
6	METAL WORKS				
6.1	GENERAL				
6.1.1	a) Rates shall include for: all fabrication work,				
	welding, marking, drilling for bolts incl. steel Flanges,				
	bolts, nuts and any type of washer, riveted work,				
	counter sinking and tapping for bolts or machine				
	screws.				
6.1.2	b) Rates shall include for fabrication and erection and				
	temporary supports and fixing into position.				
6.2	Perimeter Fencing				
6.2.1	Rate shall include for installing perimeter fence				
	including the wire mesh, GI pipes (concrete				
	components are given under Concrete Works)				
6.2.2	3.05 m long Dia 50 mm GI pipe for fence columns	134.16	m		
6.2.3	Dia 35 mm GI pipe for fence wire mesh	329.83	m		
6.2.4	Wire mesh for fence	189.54	m ²		
6.2.5	Gates	1.00	nos		
TOTAL OF	F BILL NO. 05 (METAL WORKS)				
	OVER TO THE GENERAL SUMMARY)				
Contractor	Bill no. 06				
7					
	PAINTING				
7.1	GENERAL				
7.1.1	a) Rates shall include for: the provision, erection and				
	removal of scaffolding, preparation, rubbing down				
	between coats and similar work, the protection and /				
	or making floors, fittings and similar work, removing				
	and replacing door and window furniture				
7.1.2	b) All painting work shall be carried in accordance				
	with the specifications of "SKK or Equivalent"				
7.1.3	c) Colour and quality shall be approved prior to work.				
7.2	WALLS				
7.2.1	Fence Walls				
7.2.1.1	Oil-Based paint finish				
7.2.1.2	1 coat of wall sealer, 1 coat of textured & 2 coats of	210.00	m ²		
TOTALO	paints on external walls	219.89			
	F BILL NO. 06 (PAINTING)				
UCAKKIED	OVER TO THE GENERAL SUMMARY)				
0	Bill no. 07				
8	ELECTRICAL, IT & HVAC INSTALLATION				
0 1					
8.1	GENERAL			I	

8.1.1				1	
	(a) Rates shall include for: screws, nails, bolts, nuts,				
	standard cable fixing or supporting clips, brackets,				
	straps, rivets, plugs and all incidental accessories				
8.1.2	(b) Rates for electrical conduits, fittings, equipment				
0.1.2	and similar items shall include for: all fixings to				
	various building surfaces				
8.1.3	(d) Light end and switch end of wiring together				
0.1.5	measured as one point				
8.1.4	(e) A point wiring for power points is measured as				
8.1.4					
	one point for each socket outlet; other end of wire is not included in the quantity.				
8.1.5	(h) The Contractor shall provide shop drawings for				
	approval before proceeding with any works				
8.1.6	(i) All electrical wires, cables, fittings, fixtures,				
	accessories & similar shall be approved by the				
	Consultant				
8.2	ELECTRICAL BOARDS & PANELS				
8.2.1					
	Complete installation, including for all connections,				
	earthing, painting, testing and similar of:				
8.2.2	Three phase main power distribution box with				
	connections from the mains including meters, cut-off				
	fuse and other accessories to be located in the panel				
	room at ground floor to electrical engineers				
	specification upto STELCO & MEB standard.	1.00	Nos		
8.3	ELECTRICAL WIRING				
8.3.1	Electrical wiring with copper conductor cable in				
	conduits in walls and concrete as per government				
	regulations.				
8.3.2	Wiring to light post	8.00	Nos		
	Wiring to DB	1.00	Nos		
833			1105		
	5				
8.4	LIGHTING, POWER POINTS & FANS				
8.4	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets				
8.4 8.4.1	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar		Nos		
8.4 8.4.1	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets	8.00	Nos		
8.4 8.4.1 8.4.2	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given	8.00	Nos		
8.4 8.4.1 8.4.2 TOTAL C	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given F BILL NO. 07 (ELECTRICAL , IT & HVAC INSTALLATION	8.00	Nos		
8.4 8.4.1 8.4.2 TOTAL C	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given F BILL NO. 07 (ELECTRICAL, IT & HVAC INSTALLATION O OVER TO THE GENERAL SUMMARY)	8.00	Nos		
8.4 8.4.1 8.4.2 TOTAL C (CARRIEL	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given OF BILL NO. 07 (ELECTRICAL, IT & HVAC INSTALLATION OVER TO THE GENERAL SUMMARY) Bill no. 08	8.00	Nos		
8.4 8.4.1 8.4.2 TOTAL C (CARRIEI 9	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given OF BILL NO. 07 (ELECTRICAL, IT & HVAC INSTALLATION OVER TO THE GENERAL SUMMARY) Bill no. 08 HYDRAULICS & DRAINAGE	8.00	Nos		
8.4 8.4.1 8.4.2 TOTAL C (CARRIEL 9 9.1	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given OF BILL NO. 07 (ELECTRICAL, IT & HVAC INSTALLATION O OVER TO THE GENERAL SUMMARY) Bill no. 08 HYDRAULICS & DRAINAGE PREAMBLE NOTES	8.00	Nos		
8.4 8.4.1 8.4.2 TOTAL C (<i>CARRIEL</i> 9 9.1	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given F BILL NO. 07 (ELECTRICAL, IT & HVAC INSTALLATION O OVER TO THE GENERAL SUMMARY) Bill no. 08 HYDRAULICS & DRAINAGE PREAMBLE NOTES (a) Rates shall include for sockets, running joints,	8.00	Nos		
8.4 8.4.1 8.4.2 TOTAL C (CARRIEL 9 9.1	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given DF BILL NO. 07 (ELECTRICAL, IT & HVAC INSTALLATION DO EVER TO THE GENERAL SUMMARY) Bill no. 08 HYDRAULICS & DRAINAGE PREAMBLE NOTES (a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers,	8.00	Nos		
8.4 8.4.1 8.4.2 TOTAL C (<i>CARRIEL</i> 9 9.1	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given OF BILL NO. 07 (ELECTRICAL, IT & HVAC INSTALLATION DO EVER TO THE GENERAL SUMMARY) Bill no. 08 HYDRAULICS & DRAINAGE PREAMBLE NOTES (a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers, expansion joints, backnuts and similar, incidental	8.00	Nos		
8.4 8.4.1 8.4.2 TOTAL C (<i>CARRIEL</i> 9 9.1	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given OF BILL NO. 07 (ELECTRICAL, IT & HVAC INSTALLATION OVER TO THE GENERAL SUMMARY) Bill no. 08 HYDRAULICS & DRAINAGE PREAMBLE NOTES (a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers, expansion joints, backnuts and similar, incidental fittings, clips saddles, brackets, straps, hangers,	8.00	Nos		
8.4 8.4.1 8.4.2 TOTAL C (<i>CARRIEL</i> 9 9.1	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given OF BILL NO. 07 (ELECTRICAL, IT & HVAC INSTALLATION OVER TO THE GENERAL SUMMARY) Bill no. 08 HYDRAULICS & DRAINAGE PREAMBLE NOTES (a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers, expansion joints, backnuts and similar, incidental fittings, clips saddles, brackets, straps, hangers, screws, nails and fixing complete, including cutting	8.00	Nos		
8.4 8.4.1 8.4.2 TOTAL C (<i>CARRIEL</i> 9 9.1	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given DF BILL NO. 07 (ELECTRICAL, IT & HVAC INSTALLATION O VER TO THE GENERAL SUMMARY) Bill no. 08 HYDRAULICS & DRAINAGE PREAMBLE NOTES (a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers, expansion joints, backnuts and similar, incidental fittings, clips saddles, brackets, straps, hangers, screws, nails and fixing complete, including cutting and forming holes, excavating, laying pipes and	8.00	Nos		
8.4 8.4.1 8.4.2 TOTAL C (<i>CARRIEI</i> 9 9.1 9.1.1	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given DF BILL NO. 07 (ELECTRICAL, IT & HVAC INSTALLATION O OVER TO THE GENERAL SUMMARY) Bill no. 08 HYDRAULICS & DRAINAGE PREAMBLE NOTES (a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers, expansion joints, backnuts and similar, incidental fittings, clips saddles, brackets, straps, hangers, screws, nails and fixing complete, including cutting and forming holes, excavating, laying pipes and backfilling trenches.	8.00	Nos		
8.4 8.4.1 8.4.2 TOTAL C (<i>CARRIEI</i> 9 9.1 9.1.1	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given FBILL NO. 07 (ELECTRICAL , IT & HVAC INSTALLATION <i>OVER TO THE GENERAL SUMMARY</i>) Bill no. 08 <u>HYDRAULICS & DRAINAGE</u> PREAMBLE NOTES (a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers, expansion joints, backnuts and similar, incidental fittings, clips saddles, brackets, straps, hangers, screws, nails and fixing complete, including cutting and forming holes, excavating, laying pipes and backfilling trenches. (b) All pipe work and fittings shall be high pressure	8.00	Nos		
8.4 8.4.1 8.4.2 TOTAL C (CARRIEI 9 9.1 9.1.1 9.1.1	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given FBILL NO. 07 (ELECTRICAL, IT & HVAC INSTALLATION <i>OVER TO THE GENERAL SUMMARY</i>) Bill no. 08 <u>HYDRAULICS & DRAINAGE</u> PREAMBLE NOTES (a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers, expansion joints, backnuts and similar, incidental fittings, clips saddles, brackets, straps, hangers, screws, nails and fixing complete, including cutting and forming holes, excavating, laying pipes and backfilling trenches. (b) All pipe work and fittings shall be high pressure PVC	8.00	Nos		
8.4 8.4.1 8.4.2 TOTAL C (CARRIEI 9 9.1 9.1.1 9.1.1	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given FBILL NO. 07 (ELECTRICAL , IT & HVAC INSTALLATION <i>OVER TO THE GENERAL SUMMARY</i>) Bill no. 08 <u>HYDRAULICS & DRAINAGE</u> PREAMBLE NOTES (a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers, expansion joints, backnuts and similar, incidental fittings, clips saddles, brackets, straps, hangers, screws, nails and fixing complete, including cutting and forming holes, excavating, laying pipes and backfilling trenches. (b) All pipe work and fittings shall be high pressure PVC (c) Rates shall include for supply and fixing of all	8.00	Nos		
8.4 8.4.1 8.4.2 TOTAL C (CARRIEL 9 9.1 9.1.1 9.1.1 9.1.2 9.1.3	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given FBILL NO. 07 (ELECTRICAL, IT & HVAC INSTALLATION <i>OVER TO THE GENERAL SUMMARY</i>) Bill no. 08 <u>HYDRAULICS & DRAINAGE</u> PREAMBLE NOTES (a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers, expansion joints, backnuts and similar, incidental fittings, clips saddles, brackets, straps, hangers, screws, nails and fixing complete, including cutting and forming holes, excavating, laying pipes and backfilling trenches. (b) All pipe work and fittings shall be high pressure PVC (c) Rates shall include for supply and fixing of all pipes	8.00	Nos		
 8.4 8.4.1 8.4.2 TOTAL C (CARRIEL 9 9.1 9.1.1 9.1.2 9.1.3 	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given F BILL NO. 07 (ELECTRICAL , IT & HVAC INSTALLATION OVER TO THE GENERAL SUMMARY) Bill no. 08 HYDRAULICS & DRAINAGE PREAMBLE NOTES (a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers, expansion joints, backnuts and similar, incidental fittings, clips saddles, brackets, straps, hangers, screws, nails and fixing complete, including cutting and forming holes, excavating, laying pipes and backfilling trenches. (b) All pipe work and fittings shall be high pressure PVC (c) Rates shall include for supply and fixing of all pipes (d) All sanitary fixtures used shall be of superior	8.00	Nos		
 8.4 8.4.1 8.4.2 TOTAL C (CARRIEL 9 9.1 9.1.1 9.1.2 9.1.3 	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given FBILL NO. 07 (ELECTRICAL, IT & HVAC INSTALLATION <i>OVER TO THE GENERAL SUMMARY</i>) Bill no. 08 <u>HYDRAULICS & DRAINAGE</u> PREAMBLE NOTES (a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers, expansion joints, backnuts and similar, incidental fittings, clips saddles, brackets, straps, hangers, screws, nails and fixing complete, including cutting and forming holes, excavating, laying pipes and backfilling trenches. (b) All pipe work and fittings shall be high pressure PVC (c) Rates shall include for supply and fixing of all pipes (d) All sanitary fixtures used shall be of superior quality and approved by the architect/consultant on	8.00	Nos		
8.4 8.4.1 8.4.2 TOTAL C (CARRIEN 9 9.1 9.1.1 9.1.2 9.1.3	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given FBILL NO. 07 (ELECTRICAL, IT & HVAC INSTALLATION <i>OVER TO THE GENERAL SUMMARY</i>) Bill no. 08 HYDRAULICS & DRAINAGE PREAMBLE NOTES (a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers, expansion joints, backnuts and similar, incidental fittings, clips saddles, brackets, straps, hangers, screws, nails and fixing complete, including cutting and forming holes, excavating, laying pipes and backfilling trenches. (b) All pipe work and fittings shall be high pressure PVC (c) Rates shall include for supply and fixing of all pipes (d) All sanitary fixtures used shall be of superior quality and approved by the architect/consultant on submission of samples.	8.00	Nos		
(CARRIEL 9 9.1	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given FBILL NO. 07 (ELECTRICAL, IT & HVAC INSTALLATION <i>OVER TO THE GENERAL SUMMARY</i>) Bill no. 08 HYDRAULICS & DRAINAGE PREAMBLE NOTES (a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers, expansion joints, backnuts and similar, incidental fittings, clips saddles, brackets, straps, hangers, screws, nails and fixing complete, including cutting and forming holes, excavating, laying pipes and backfilling trenches. (b) All pipe work and fittings shall be high pressure PVC (c) Rates shall include for supply and fixing of all pipes (d) All sanitary fixtures used shall be of superior quality and approved by the architect/consultant on submission of samples. (e) Sanitary fixtures complete including brackets,	8.00	Nos		
8.4 8.4.1 8.4.2 TOTAL C (CARRIEN 9 9.1 9.1.1 9.1.2 9.1.3 9.1.4	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given FBILL NO. 07 (ELECTRICAL, IT & HVAC INSTALLATION <i>OVER TO THE GENERAL SUMMARY</i>) Bill no. 08 HYDRAULICS & DRAINAGE PREAMBLE NOTES (a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers, expansion joints, backnuts and similar, incidental fittings, clips saddles, brackets, straps, hangers, screws, nails and fixing complete, including cutting and forming holes, excavating, laying pipes and backfilling trenches. (b) All pipe work and fittings shall be high pressure PVC (c) Rates shall include for supply and fixing of all pipes (d) All sanitary fixtures used shall be of superior quality and approved by the architect/consultant on submission of samples.	8.00	Nos		
8.4 8.4.1 8.4.2 TOTAL C (CARRIEN 9 9.1 9.1.1 9.1.2 9.1.3 9.1.4	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given FBILL NO. 07 (ELECTRICAL, IT & HVAC INSTALLATION <i>OVER TO THE GENERAL SUMMARY</i>) Bill no. 08 HYDRAULICS & DRAINAGE PREAMBLE NOTES (a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers, expansion joints, backnuts and similar, incidental fittings, clips saddles, brackets, straps, hangers, screws, nails and fixing complete, including cutting and forming holes, excavating, laying pipes and backfilling trenches. (b) All pipe work and fittings shall be high pressure PVC (c) Rates shall include for supply and fixing of all pipes (d) All sanitary fixtures used shall be of superior quality and approved by the architect/consultant on submission of samples. (e) Sanitary fixtures complete including brackets,	8.00	Nos		
 8.4 8.4.1 8.4.2 TOTAL C (CARRIEL 9 9.1 9.1.1 9.1.2 9.1.3 9.1.4 	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given FBILL NO. 07 (ELECTRICAL, IT & HVAC INSTALLATION <i>OVER TO THE GENERAL SUMMARY</i>) Bill no. 08 HYDRAULICS & DRAINAGE PREAMBLE NOTES (a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers, expansion joints, backnuts and similar, incidental fittings, clips saddles, brackets, straps, hangers, screws, nails and fixing complete, including cutting and forming holes, excavating, laying pipes and backfilling trenches. (b) All pipe work and fittings shall be high pressure PVC (c) Rates shall include for supply and fixing of all pipes (d) All sanitary fixtures used shall be of superior quality and approved by the architect/consultant on submission of samples. (e) Sanitary fixtures complete including brackets, flush pipes, valves, overflows, plugs and washers, as	8.00	Nos		
 8.4 8.4.1 8.4.2 TOTAL (<i>(CARRIEI</i>) 9 9.1 9.1.1 9.1.2 9.1.3 9.1.4 9.1.5 9.2 	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given FBILL NO. 07 (ELECTRICAL, IT & HVAC INSTALLATION <i>OVER TO THE GENERAL SUMMARY</i>) Bill no. 08 HYDRAULICS & DRAINAGE PREAMBLE NOTES (a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers, expansion joints, backnuts and similar, incidental fittings, clips saddles, brackets, straps, hangers, screws, nails and fixing complete, including cutting and forming holes, excavating, laying pipes and backfilling trenches. (b) All pipe work and fittings shall be high pressure PVC (c) Rates shall include for supply and fixing of all pipes (d) All sanitary fixtures used shall be of superior quality and approved by the architect/consultant on submission of samples. (e) Sanitary fixtures complete including brackets, flush pipes, valves, overflows, plugs and washers, as specified.	8.00	Nos		
8.4 8.4.1 8.4.2 TOTAL C (<i>CARRIEI</i> 9 9.1 9.1.1 9.1.1 9.1.2 9.1.3 9.1.4 9.1.5	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets and similar Installation of light post(s) as given F BILL NO. 07 (ELECTRICAL, IT & HVAC INSTALLATION <i>OVER TO THE GENERAL SUMMARY</i>) Bill no. 08 HYDRAULICS & DRAINAGE PREAMBLE NOTES (a) Rates shall include for sockets, running joints, connectors, elbows, junctions, valves, reducers, expansion joints, backnuts and similar, incidental fittings, clips saddles, brackets, straps, hangers, screws, nails and fixing complete, including cutting and forming holes, excavating, laying pipes and backfilling trenches. (b) All pipe work and fittings shall be high pressure PVC (c) Rates shall include for supply and fixing of all pipes (d) All sanitary fixtures used shall be of superior quality and approved by the architect/consultant on submission of samples. (e) Sanitary fixtures complete including brackets, flush pipes, valves, overflows, plugs and washers, as specified. INTERNAL PLUMBING - COLD WATER	8.00	Nos		

9.2.2	1	I			1	
	Fresh water or utility water connection to all toilets					
	and kitchen including the necessary catch pits and					
	manholes as necessary. Rates shall include for supply					
	and laying of pipes including clean-outs as necessary	1.00	Item			
9.3	EXTERNAL PLUMBING					
9.3.1	Connection to Main sewer line	1.00	Item			
9.3.2						
	Connection to MWSC water meters if available only	1.00	Nos			
9.3.3	Waste water and sewage connection from all the					
	toilets and kitchen including the necessary catch pits					
	and manholes as necessary. Rates shall include for					
	supply and laying of pipes including clean-outs as					
	necessary	1.00	Item			
	F BILL NO. 08 (HYDRAULICS & DRAINAGE)					
(CARRIED	OVER TO THE GENERAL SUMMARY)					
	Bill no. 09					
10	OTHER WORKS					
10.1	Water Tank					
10.1.1	Supply and installation of 7800 liter water tank	1.00	nos			
	including plumbing	1.00	1105			
10.2	Ground Water Well					
10.2.1	Installation of ground water well on site as given	1.00	nos			
10.3	Septic Tank					
10.3.1	Construction of septic tank on site as given	1.00	nos			
10.4	SIGN BOARD					
10.4.1	Supply and installation of permanent signboards and					
	signages upon completion of project. (1 sqm)	1.00	Item			
10.5	SITE SPECIFIC ENVIRONMENTAL MANAGEMENT					
	PLAN					
10.5.1	Implementation of the site specific environmental					
	management plan for the construction of island					
	waste management center	1.00	Item			
moment of						
	F BILL NO. 09 (OTHER WORKS)					
CARRIED	OVER TO THE GENERAL SUMMARY)					

TOTAL

BOQ GUARD ROOM A

NO	BILL	TOTAL (MVR)
1	GROUND WORKS	
2	CONCRETE WORKS	
3	MASONRY AND PLASTERING	
4	CEILING	
5	DOORS AND WINDOWS	
6	TILING WORKS	
7	PAINTING	
8	ELECTRICAL , IT & HVAC INSTALLATION	
9	HYDRAULICS & DRAINAGE	
10	ROOFING	
	GRAND TOTAL	

IETM NO:	DESCRIPTION	QTY	UNIT	RATES REDUCED	TOTAL IN MVR
	Bill no: 01				
1	GROUND WORKS				
1.1	GENERAL				
1.1.1	(a) Rates shall include for: leveling, grading,				
	trimming, compacting to faces of excavation, keep				
	sides plumb, backfilling, consolidating and disposing				
	surplus soil.				
1.1.2	Excavation quantities are measured to the faces of				
	concrete members. Rates shall include for all				
	additional excavation required to place the				
	formwork.				
1.1.3	Filling rates shall include for: leveling, grading,				
	trimming and compacting.				
1.1.4	Water proofing and damproofing rates shall include				
	for: dressing around and sealing to all penetrations.				
1.2	EXCAVATION				
1.2.1	Excavation quantities are measured to the faces of				
	concrete members. Rates shall include for all				
	additional excavation required to place the				
	formwork, back fill, dewatering and others				
1.2.2	Excavation for foundation including foundation				
	beams (Foundation depth 600 mm and additional 50 mm for lean concrete)	1.35	m ³		
1.3	BACK FILLING	1.55	III		
1.3 1.3.1	(a) Rates shall include for: leveling, grading,				
1.J.1	trimming, compacting and similar.				
1.3.2	(b) Ground need to be compacted to the required				
11012	density by the consultant.				
1.3.3	Back filling to foundations	1.00	item		
1.3.4	200 mm thick compacted gravel bed layer to receive				
	damp proof membrane	12.00	m ²		
1.4	DAMP PROOF MEMBRANE				
1.4.1	(a) Rates shall include for: dressing around and				
	sealing to all penetrations, laps and turnups				
1.4.2	Polythene damp proof membrane (1000 gauge) laid				
	on blinding layer under ground floor slab	12.48	m ²		
TOTAL OF	 BILL NO: 01 (GROUND WORKS)				
	VER TO THE GENERAL SUMMARY)				-
	Bill no. 02				
2	CONCRETE WORKS				
2.1	GENERAL				
2.1.1	a) RATE SHALL INCLUDE FOR: REINFORCEMENT				
	AS SHOWN AND THE NECESSARY FORMWORK,				
	placing in position; making good after removal of				
	formwork and casting in all required items;				
	additional concrete required to conform to structural				
	and excavated tolerances.				
2.1.2	b) Mix ratio for reinforced concrete shall be 1:2:3				
2.1.3	c) Concrete quantity is measured to the edges of				
	concrete foundation members. Rates shall be				
	inclusive for any additional concrete required to				
	place the formwork.				
2.2	LEAN CONCRETE				
2.2.1	50mm thick lean concrete under footings and		2		
	foundation beams with a mix of 1:2:6	0.17	m ³		
2.3	REINFORCED CONCRETE			l	

GUARD ROOM A DETAILS

2.3.1	In-situ reinforced concrete to:	1		1	1
2.3.2	Add water proofing compound to concrete mix for				
	walls and cover slab below GL				
2.3.3	Foundation				
2.3.3.1	Pad Footing F1, 300 x 500 x 500 mm	0.30	m ³		
2.3.3.2	Foundation Beam FB1, 200 x 300 mm	0.72	m ³		
2.3.4	Ground Floor				
2.3.4.1	RCC Ground Slab 100 mm thick with T10@200 mm				
	c/c (Rate should include reinforcement and required		-		
	shuttering for edge of slab)	1.25	m ³		
2.3.4.2	Columns C1, 200 x 200 mm	0.52	m ³		
2.3.4.3	Roof Beams RB1, 200 x 350 mm	1.05	m ³		
2.4	OTHER CONCRETE WORKS				
2.4.1	Wash area 100 thick low wall x 3 and 100 thick floor	0.37	m ³		
2.4.2	Rate shall include for: dressing around and sealing to				
	all penetrations				
2.4.3	Apply crystalline or equivalent type waterproofing				
	material to the surface of wash area and toilets in				
	accordance with the specifications and				
	manufacturer's instructions	1.00	Item		
FOTAL O	F BILL NO. 02 (CONCRETE WORKS)				
	OVER TO THE GENERAL SUMMARY)				
	Bill no. 03				
3	MASONRY AND PLASTERING			1	
3.1	GENERAL				
3.1.1	Rates shall include for: cleaning out cavities, forming				
	rebated reveals and pointing and cleaning down to				
	reveals where necessary; fractional size blocks, all				
	necessary machine cutting, cutting or forming chases				
	or edges of floor slabs, cutting or leaving holes and				
	openings as recesses for and building in pipes,				
	conduits, sleeves and similar as required for all				
	trades; leaving surfaces rough or raking out joints for			1	
	plastering and flashings, bedding frames or plates,			1	
	building in joists, bearers or similar, temporary			1	
	supports to openings, templates, reinforcement in			1	
	walls and for all necessary making good.			1	
3.1.2	Cement solid block, laid on and incl. mortar tie rods,			1	
	compression joint gap filler, nylon/plastic mesh as			1	
	specified			1	
3.1.3	Cement plastering on walls and concrete surfaces as			1	
	specified incl. wire mesh at the joints of concrete			1	
	surfaces and walls			1	
3.1.4	Masonry brick should be salt free PWS / Municipalty			1	
	solid bricks.			1	
8.2	CEMENT BLOCK WORK			1	
.2.1	150mm wide solid block wall on cement plastered			1	
	and painted finish, laid on 1:4 Cement Mortar, tie			1	
	rods, compression gap filler, nylon / plastic mesh as			1	
	specified.	20.00	2	1	
3.2.2	External walls	30.00	m ²	1	
.3	PLASTERING			1	
	a) 18mm cement plastering on EXTERNAL WALLS			1	
					1
3.3.1	and concrete surfaces with 1:4 Cement mortar mix as		m ²		
			m²		

3.3.2	b) 12mm cement plastering on INTERNAL WALLS	1		1	1
01012	including wash area and concrete surfaces with 1:4				
	_		m ²		
	Cement mortar mix as specified incl. wire mesh at				
	joints of concrete surfaces and walls (one coat).	43.51			
3.4	CEMENT SCREED FINISH				
3.4.1	35mm thick Cement screeding on the concrete floor with 1:4 cement mortar mix incl. float finish to				
	receive the tiles	0.43	m ³		
		0.15			
TOTAL O	F BILL NO. 03 (MASONRY AND PLASTERING)			•	_
(CARRIED	OVER TO THE GENERAL SUMMARY)			•	. <u> </u>
	Bill no. 04				
4	<u>CEILING</u>				
4.1	GENERAL				
4.1.1	a) Rates shall include for: all labour in framing,				
	notching and fitting around projections, pipes, light fittings, hatches, grilles and similar and complete				
	with cleats, packers, wedges and timber beeding etc				
	similar and all nails and screws.				
4.1.2	b) Rate shall include for: timber priming and all				
	painting as specified in the drawing				
4.1.3	c) Rates shall include for fabrication and erection and			1	
	temporary supports and fixing into position.				
4.2 4.2.1	CEILING FOR BATHROOM/ SHOP / OFFICE Ceiling (Boral) for office inside	9.00	m ²		
4.2.2	Ceiling (exterior) for roof soffit	6.20	m ²		
	denning (exterior) for foor some	0.20			
TOTAL O	F BILL NO. 04 (CEILING)				
(CARRIED	OVER TO THE GENERAL SUMMARY)				
	Bill no. 05				
5	DOORS AND WINDOWS				
5.1	GENERAL				
5.1.2	a) Rates shall include for: locks, latches, closers, push				
	plates, pull handles, bolts, kick plates, hinges and all door & window hardware.				
5.1.3	b) All Aluminum windows shall be white powder				
	coated 60-80 micron aluminum.				
5.1.4	c) All timber doors shall be solid timber paneled door				
	with paint finish				
5.1.5	d) All glazing shall be 6mm clear glass.				
5.2 5.2.1	ALUMINUM DOOR & WINDOW UNITS Door with window D1	1.00	200		
5.2.1	Window W1	1.00	nos nos		
5.2.2		1.00	1105		
TOTAL O					-
	F BILL NO. 05 (DOORS AND WINDOWS)				
	OVER TO THE GENERAL SUMMARY)				
(CARRIED	OVER TO THE GENERAL SUMMARY) Bill no. 06	I			
(CARRIED	OVER TO THE GENERAL SUMMARY) Bill no. 06 TILING WORKS				
(CARRIED) 6 6.1	OVER TO THE GENERAL SUMMARY) Bill no. 06 TILING WORKS GENERAL				
(CARRIED	OVER TO THE GENERAL SUMMARY) Bill no. 06 TILING WORKS GENERAL a) Rates shall include for: fixing, bedding, grouting,				
(CARRIED) 6 6.1	OVER TO THE GENERAL SUMMARY) Bill no. 06 <u>TILING WORKS</u> GENERAL a) Rates shall include for: fixing, bedding, grouting, pointing, finishing and any other similar works to				
(CARRIED) 6 6.1	OVER TO THE GENERAL SUMMARY) Bill no. 06 TILING WORKS GENERAL a) Rates shall include for: fixing, bedding, grouting,				
(CARRIED) 6 6.1 6.1.1 6.1.2	OVER TO THE GENERAL SUMMARY) Bill no. 06 TILING WORKS GENERAL a) Rates shall include for: fixing, bedding, grouting, pointing, finishing and any other similar works to ensure the required finish. Colour combination of tiles,pattern and texture may vary.				
(CARRIED) 6 6.1 6.1.1 6.1.2 6.2	OVER TO THE GENERAL SUMMARY) Bill no. 06 TILING WORKS GENERAL a) Rates shall include for: fixing, bedding, grouting, pointing, finishing and any other similar works to ensure the required finish. Colour combination of tiles,pattern and texture may vary. FLOOR TILES				
(CARRIED) 6 6.1 6.1.1 6.1.2	OVER TO THE GENERAL SUMMARY) Bill no. 06 TILING WORKS GENERAL a) Rates shall include for: fixing, bedding, grouting, pointing, finishing and any other similar works to ensure the required finish. Colour combination of tiles,pattern and texture may vary. FLOOR TILES 300 X 300 mm Homogeneous floor tiles laid on		m²		
(CARRIED 6 6.1 6.1.1 6.1.2 6.2 6.2.1	OVER TO THE GENERAL SUMMARY) Bill no. 06 TILING WORKS GENERAL a) Rates shall include for: fixing, bedding, grouting, pointing, finishing and any other similar works to ensure the required finish. Colour combination of tiles,pattern and texture may vary. FLOOR TILES 300 X 300 mm Homogeneous floor tiles laid on cement mortar on the General areas	0.43	m²		
(CARRIED 6 6.1 6.1.1 6.1.2 6.2 6.2.1 6.3	Bill no. 06 TILING WORKS GENERAL a) Rates shall include for: fixing, bedding, grouting, pointing, finishing and any other similar works to ensure the required finish. Colour combination of tiles,pattern and texture may vary. FLOOR TILES 300 X 300 mm Homogeneous floor tiles laid on cement mortar on the General areas WALL TILES	0.43	m²		
(CARRIED 6 6.1 6.1.1 6.1.2 6.2 6.2.1	Bill no. 06 TILING WORKS GENERAL a) Rates shall include for: fixing, bedding, grouting, pointing, finishing and any other similar works to ensure the required finish. Colour combination of tiles,pattern and texture may vary. FLOOR TILES 300 X 300 mm Homogeneous floor tiles laid on cement mortar on the General areas WALL TILES 300 X 300 Ceramic Gloss high quality tiles upto full	0.43	m²		
(CARRIED 6 6.1 6.1.1 6.1.2 6.2 6.2.1 6.3 6.3.1	Bill no. 06 TILING WORKS GENERAL a) Rates shall include for: fixing, bedding, grouting, pointing, finishing and any other similar works to ensure the required finish. Colour combination of tiles,pattern and texture may vary. FLOOR TILES 300 X 300 mm Homogeneous floor tiles laid on cement mortar on the General areas WALL TILES 300 X 300 Ceramic Gloss high quality tiles upto full wall height with border tiles etc	0.43			
(CARRIED 6 6.1 6.1.1 6.1.2 6.2 6.2.1 6.3	Bill no. 06 TILING WORKS GENERAL a) Rates shall include for: fixing, bedding, grouting, pointing, finishing and any other similar works to ensure the required finish. Colour combination of tiles,pattern and texture may vary. FLOOR TILES 300 X 300 mm Homogeneous floor tiles laid on cement mortar on the General areas WALL TILES 300 X 300 Ceramic Gloss high quality tiles upto full		m ² m ² m ²		
(CARRIED 6 6.1 6.1.1 6.1.2 6.2 6.2.1 6.3 6.3.1 6.3.1.1	Bill no. 06 TILING WORKS GENERAL a) Rates shall include for: fixing, bedding, grouting, pointing, finishing and any other similar works to ensure the required finish. Colour combination of tiles,pattern and texture may vary. FLOOR TILES 300 X 300 mm Homogeneous floor tiles laid on cement mortar on the General areas WALL TILES 300 X 300 Ceramic Gloss high quality tiles upto full wall height with border tiles etc Wash area backsplash	4.80	m²		

6.4.1	600mm x 100mm High Homogenous skirting tile	15.00	m		
	F BILL NO. 06 (TILING WORKS) OVER TO THE GENERAL SUMMARY)				
(CARRIED	Bill no. 07			1	1
_					
7	PAINTING				
7.1	GENERAL				
7.1.1	a) Rates shall include for: the provision, erection and				
	removal of scaffolding, preparation, rubbing down				
	between coats and similar work, the protection and /				
	or making floors, fittings and similar work, removing				
	and replacing door and window furniture				
7.1.2	b) All painting work shall be carried in accordance				
	with the specifications of "SKK or Equivalent"				
7.1.3	c) Colour and quality shall be approved prior to work.				
7.2	WALLS				
7.2.1	External Walls				
7.2.1.1	Oil-Based paint finish				
7.2.1.2	1 coat of wall sealer, 1 coat of textured & 2 coats of				
	paints on external walls	40.00	m ²		
7.2.2	Internal Walls				
7.2.2.1	Emulsion paint finish on plastered surfaces of on				
	internal walls.				
7.2.2.2	1 coat of wall sealer, & 2 coats of paints	43.51	m ²		
7.3	CEILING	10.01	111		
7.3.1	Putty with emulsion paint finish				
-		9.00	m ²		
7.3.2	Internal ceiling	9.00 6.20	m^2		
7.3.3	External ceiling	0.20	III-		
TOTAL OF	FBILL NO. 07 (PAINTING)	ı		•	
(CARRIED	OVER TO THE GENERAL SUMMARY)	r		1	1
8	Bill no. 08				
0	ELECTRICAL, IT & HVAC INSTALLATION				
8.1	GENERAL				
8.1.1					
	(a) Rates shall include for: screws, nails, bolts, nuts,				
	standard cable fixing or supporting clips, brackets,				
	straps, rivets, plugs and all incidental accessories				
8.1.2	(b) Rates for electrical conduits, fittings, equipment				
0.1.4	and similar items shall include for: all fixings to				
	-				
0.1.2	various building surfaces				
8.1.3	(d) Light end and switch end of wiring together				
	measured as one point				
8.1.4	(e) A point wiring for power points is measured as				
	one point for each socket outlet; other end of wire is				
1					
	not included in the quantity.				
8.1.5	(h) The Contractor shall provide shop drawings for				
8.1.5					
8.1.5 8.1.6	(h) The Contractor shall provide shop drawings for approval before proceeding with any works(i) All electrical wires, cables, fittings, fixtures,				
	(h) The Contractor shall provide shop drawings for approval before proceeding with any works(i) All electrical wires, cables, fittings, fixtures, accessories & similar shall be approved by the				
8.1.6	(h) The Contractor shall provide shop drawings for approval before proceeding with any works(i) All electrical wires, cables, fittings, fixtures, accessories & similar shall be approved by the Consultant				
	(h) The Contractor shall provide shop drawings for approval before proceeding with any works(i) All electrical wires, cables, fittings, fixtures, accessories & similar shall be approved by the				
8.1.6	(h) The Contractor shall provide shop drawings for approval before proceeding with any works(i) All electrical wires, cables, fittings, fixtures, accessories & similar shall be approved by the Consultant				
8.1.6 8.2	(h) The Contractor shall provide shop drawings for approval before proceeding with any works(i) All electrical wires, cables, fittings, fixtures, accessories & similar shall be approved by the Consultant				
8.1.6 8.2	 (h) The Contractor shall provide shop drawings for approval before proceeding with any works (i) All electrical wires, cables, fittings, fixtures, accessories & similar shall be approved by the Consultant ELECTRICAL BOARDS & PANELS Complete installation, including for all connections, 				
8.1.6 8.2 8.2.1	 (h) The Contractor shall provide shop drawings for approval before proceeding with any works (i) All electrical wires, cables, fittings, fixtures, accessories & similar shall be approved by the Consultant ELECTRICAL BOARDS & PANELS Complete installation, including for all connections, earthing, painting, testing and similar of: 	1 00	Nos		
8.1.6 8.2 8.2.1 8.2.2	 (h) The Contractor shall provide shop drawings for approval before proceeding with any works (i) All electrical wires, cables, fittings, fixtures, accessories & similar shall be approved by the Consultant ELECTRICAL BOARDS & PANELS Complete installation, including for all connections, earthing, painting, testing and similar of: Distribution Boards 	1.00	Nos		
8.1.6 8.2 8.2.1 8.2.2 8.3	 (h) The Contractor shall provide shop drawings for approval before proceeding with any works (i) All electrical wires, cables, fittings, fixtures, accessories & similar shall be approved by the Consultant ELECTRICAL BOARDS & PANELS Complete installation, including for all connections, earthing, painting, testing and similar of: Distribution Boards ELECTRICAL WIRING 	1.00	Nos		
8.1.6 8.2 8.2.1 8.2.2	 (h) The Contractor shall provide shop drawings for approval before proceeding with any works (i) All electrical wires, cables, fittings, fixtures, accessories & similar shall be approved by the Consultant ELECTRICAL BOARDS & PANELS Complete installation, including for all connections, earthing, painting, testing and similar of: Distribution Boards ELECTRICAL WIRING Electrical wiring with copper conductor cable in 	1.00	Nos		
8.1.6 8.2 8.2.1 8.2.2 8.3	 (h) The Contractor shall provide shop drawings for approval before proceeding with any works (i) All electrical wires, cables, fittings, fixtures, accessories & similar shall be approved by the Consultant ELECTRICAL BOARDS & PANELS Complete installation, including for all connections, earthing, painting, testing and similar of: Distribution Boards ELECTRICAL WIRING Electrical wiring with copper conductor cable in conduits in walls and concrete as per government 	1.00	Nos		
8.1.6 8.2 8.2.1 8.2.2 8.3	 (h) The Contractor shall provide shop drawings for approval before proceeding with any works (i) All electrical wires, cables, fittings, fixtures, accessories & similar shall be approved by the Consultant ELECTRICAL BOARDS & PANELS Complete installation, including for all connections, earthing, painting, testing and similar of: Distribution Boards ELECTRICAL WIRING Electrical wiring with copper conductor cable in 	1.00	Nos		

8.3.3	Wiring to power points	6.00	Nos	
8.3.4	Wiring to DB	1.00	Nos	
8.3.5	Wiring to mains or power distribution box	1.00	Nos	
8.4	LIGHTING, POWER POINTS & FANS	1.00	1103	
0.4 8.4.1	Supply and fixing of, fans, lights, switches, sockets			
8.4.1	and similar			
		2.00	N	
8.4.2	Ceiling recessed E/S down light	2.00	Nos	
8.4.3	Waterproof spotlight LV halogen	2.00	Nos	
8.4.4	Well water pump	1.00	Nos	
8.4.5	Wall socket outlet Double Gang (2x13Amp)	2.00	Nos	
8.4.6	Wall socket outlet Single Gang (Splash proof)	1.00	Nos	
8.4.7	Service socket outlet (1x13Amp)	1.00	Nos	
8.4.8	Ceiling fan 1.2m dia with Dimmer	1.00	Nos	
8.4.9	Emergency light (rechargeable)	1.00	Nos	
8.4.10	One Way Switch 01 Gang	1.00	Nos	
8.4.11	One Way Switch 02 Gang	1.00	Nos	
TOTAL O	F BILL NO. 08 (ELECTRICAL, IT & HVAC INSTALLATION)			
(CARRIED	OVER TO THE GENERAL SUMMARY)			
	Bill no. 09			
9	HYDRAULICS & DRAINAGE			
9.1	PREAMBLE NOTES			
9.1.1	(a) Rates shall include for sockets, running joints,			
	connectors, elbows, junctions, valves, reducers,			
	expansion joints, backnuts and similar, incidental			
	fittings, clips saddles, brackets, straps, hangers,			
	screws, nails and fixing complete, including cutting			
	and forming holes, excavating, laying pipes and			
	backfilling trenches.			
040	(b) All pipe work and fittings shall be high pressure			
9.1.2	PVC			
010				
9.1.3	(c) Rates shall include for supply and fixing of all			
	pipes			
9.1.4	(d) All sanitary fixtures used shall be of superior			
	quality and approved by the architect/consultant on			
	submission of samples.			
9.1.5	(e) Sanitary fixtures complete including brackets,			
	flush pipes, valves, overflows, plugs and washers, as			
	specified.			
9.2	INTERNAL PLUMBING - COLD WATER			
9.2.1	Internal plumbing to all toilets and kitchen incl.			
	supply and laying of pipes.	1.00	Item	
9.2.2				
	Fresh water or utility water connection to all toilets			
	and kitchen including the necessary catch pits and			
	manholes as necessary. Rates shall include for supply			
	and laying of pipes including clean-outs as necessary	1.00	Item	
9.3	EXTERNAL PLUMBING	1.00		
9.3.1	Waste water and sewage connection from all the			
J.J.I	toilets and kitchen and leachate tank including the			
	necessary catch pits and manholes as necessary.			
	Rates shall include for supply and laying of pipes			
		1 00	T4	
	including clean-outs as necessary	1.00	Item	
9.4	SANITARY FIXTURES & ACCESSORIES			
9.4.1	Sanitary fixtures complete including brackets, stop			
	valves, fittings etc. All sanitary fittings shall be as			
	given in product manual.			
9.4.2	Faucet	3.00	Nos	
9.4.3	Floor drain 100 mm dia	1.00	Nos	
9.5	RAINWATER DISCHARGE PIPE			
9.5.1	(a) Rates shall include for excavation, maintaining			
	faces of drain pipe trenches and pits, backfilling,			
	disposal of surplus soil, bends, junctions, reducers,			
	expansion joints and all joints and other incidental	1	1	

9.5.2	75 mm Ø Rainwater discharge pipe from roof, rates shall include for supply and installation of piping from roof.	1.00	Item	
TOTAL O	F BILL NO. 09 (HYDRAULICS & DRAINAGE)	I		 1
(CARRIED	OVER TO THE GENERAL SUMMARY)			
	Bill no. 10			
10	ROOFING			
10.1	GENERAL			
10.1.1	Lysaght roofing sheet. Rate shall include all necessary	15.86	m ²	
	laps, bolts, fastening, fixtures and sealing of joints			
10.1.2	Insulation - 50 thick glass wool quilt both sides aluminum	15.86	m²	
10.1.3	50x150 timber rafters	24.00	m	
10.1.4	50x38 timber battens	30.40	m	
10.1.5	Gutter	3.80	m	
10.1.6	25x180 timber facia	3.80	m	
10.1.7	Flashing	12.15	m	
	F BILL NO. 10 (ROOFING) OVER TO THE GENERAL SUMMARY)			I

BOQ OFFICE A

NO	BILL	TOTAL (MVR)
1	GROUND WORKS	
2	CONCRETE WORKS	
3	MASONRY AND PLASTERING	
4	CEILING	
5	DOORS AND WINDOWS	
6	TILING WORKS	
7	PAINTING	
8	ELECTRICAL , IT & HVAC INSTALLATION	
9	HYDRAULICS & DRAINAGE	
10	ROOFING	
	GRAND TOTAL	

OFFICE A DETAILS

IETM NO:	DESCRIPTION	QTY	UNIT	RATE REDUCED	TOTAL IN MVR
	Bill No: 01			KEDULED	
1	GROUND WORKS				
1.1	GENERAL				
1.1.1	(a) Rates shall include for: leveling, grading,				
	trimming, compacting to faces of excavation, keep				
	sides plumb, backfilling, consolidating and disposing				
	surplus soil.				
1.1.2	Excavation quantities are measured to the faces of				
	concrete members. Rates shall include for all				
	additional excavation required to place the				
1.1.3	formwork. Filling rates shall include for: leveling, grading,				
1.1.3	trimming and compacting.				
1.1.4	Water proofing and damproofing rates shall include				
	water proofing and damproofing rates shan merade				
	for: dressing around and sealing to all penetrations.				
1.2	EXCAVATION				
1.2.1	Excavation quantities are measured to the faces of				
	concrete members. Rates shall include for all				
	additional excavation required to place the				
	formwork, back fill, dewatering and others				
1.2.2	Excavation for foundation including foundation				
	beams (Foundation depth 600 mm and additional 50 mm for lean concrete)	3.90	m ³		
1.3	BACK FILLING	3.90	111		
1.3.1	(a) Rates shall include for: leveling, grading,				
1.0.1	trimming, compacting and similar.				
1.3.2	(b) Ground need to be compacted to the required				
	density by the consultant.				
1.3.3	Back filling to foundations	1.00	item		
1.3.3	200 mm thick compacted gravel bed layer to receive		_		
	damp proof membrane	10.76	m ³		
1.4	DAMP PROOF MEMBRANE				
1.4.1	(a) Rates shall include for: dressing around and				
	sealing to all penetrations, laps and turnups				
1.4.2	Polythene damp proof membrane (1000 gauge) laid		2		
	on blinding layer under ground floor slab	53.80	m ²		
TOTAL OF	BILL NO: 01 (GROUND WORKS)				
	OVER TO THE GENERAL SUMMARY)				
	Bill no. 02				
2	CONCRETE WORKS				
2.1	GENERAL				
2.1.1	a) Rate shall include for: placing in position; making				
	good after removal of formwork and casting in all				
	required items; additional concrete required to				
	conform to structural and excavated tolerances.				
2.1.2	b) Mix ratio for reinforced concrete shall be 1:2:3				
2.1.3	c) Concrete quantity is measured to the edges of				
	concrete foundation members. Rates shall be				
	inclusive for any additional concrete required to place the formwork.				
2.2	LEAN CONCRETE				
2.2.1	50mm thick lean concrete under the raft footing with				
	a mix of 1:2:6	0.46	m ³		
2.3	REINFORCED CONCRETE				
	In-situ reinforced concrete to:				
2.3.1	Add water proofing compound to concrete mix for				
2.3.1 2.3.2					
2.3.2	walls and cover slab below GL				
2.3.2 2.3.3	walls and cover slab below GL Foundation		2		
2.3.2 2.3.3 2.3.3.1	walls and cover slab below GL Foundation Pad Footing F1, 300 x 500 x 500 mm	0.68	m ³		
2.3.2 2.3.3	walls and cover slab below GL Foundation	0.68 2.41	m ³ m ³		

				1	1
2.3.4.1	RCC Ground Slab 100 mm thick with T10@200 mm				
	c/c (Rate should include reinforcement and	5 20	m ³		
2242	required shuttering for edge of slab)	5.38 1.11	m ³		
2.3.4.2 2.3.4.3	Columns C1, 200 x 200 mm Roof Beams RB1, 200 x 350 mm	2.41	m ³		
2.3.4.5	OTHER CONCRETE WORKS	2.41	111		
2.4	Rate shall include for: dressing around and sealing to				
2.1.1	all penetrations				
2.4.2	Apply crystalline or equivalent type waterproofing				
	material to the surface of balcony, toilets & washing				
	areas in accordance with the specifications and				
	manufacturer's instructions	1.00	Item		
	BILL NO. 02 (CONCRETE WORKS)				
(CARRIED	OVER TO THE GENERAL SUMMARY)			1	1
a.	Bill no. 03				
3	MASONRY AND PLASTERING				
3.1	GENERAL				
3.1.1	Rates shall include for: cleaning out cavities, forming				
	rebated reveals and pointing and cleaning down to				
	reveals where necessary; fractional size blocks, all				
	necessary machine cutting, cutting or forming chases				
	or edges of floor slabs, cutting or leaving holes and				
	openings as recesses for and building in pipes,				
	conduits, sleeves and similar as required for all				
	trades; leaving surfaces rough or raking out joints				
	for plastering and flashings, bedding frames or				
	plates, building in joists, bearers or similar,				
	temporary supports to openings, templates,				
	reinforcement in walls and for all necessary making				
	good.				
3.1.2	Cement solid block, laid on and incl. mortar tie rods,				
	compression joint gap filler, nylon/plastic mesh as				
3.1.3	specified Cement plastering on walls and concrete surfaces as				
3.1.3	specified incl. wire mesh at the joints of concrete				
	surfaces and walls				
3.1.4	Masonry brick should be salt free PWS / Municipalty				
	solid bricks.				
3.2	CEMENT BLOCK WORK				
3.2.1	External Walls				
3.2.1.1	150mm wide solid block wall on cement plastered				
	and painted finish, laid on and incl. 1:4 Cement		m ²		
	Mortar, tie rods, compression gap filler, nylon /	10.00			
	plastic mesh as specified.	49.00			
3.2.2	INTERNAL WALLS				
3.2.2.1	150 mm wide solid blocks, laid on and incl. 1:4 Cement Mortar, tie rods, compression gap filler,		m ²		
	nylon / plastic mesh as specified.	28.95	111		
3.2.3	PLASTERING	20.95			
3.2.3.1	a) 18mm cement plastering on EXTERNAL WALLS				
	and concrete surfaces with 1:4 Cement mortar mix				
			m ²		
	as specified incl. wire mesh at joints of concrete				
	surfaces and walls (first, second coats).	66.00			
3.2.3.2	b) 12mm cement plastering on INTERNAL WALLS				
	and concrete surfaces with 1:4 Cement mortar mix		m ²		
	as specified incl. wire mesh at joints of concrete	122.00			
224	surfaces and walls (one coat). CEMENT SCREED FINISH	122.00			
3.2.4	35mm thick Cement screeding on the concrete floor				
3211	Issum unck sement screening on the concrete floor				
3.2.4.1	with 1:4 cement mortar mix incl float finish to				1
3.2.4.1	with 1:4 cement mortar mix incl. float finish to receive the tiles	1.87	m ³		
3.2.4.1		1.87	m ³		
		1.87	m ³		
TOTAL OF	receive the tiles	1.87	m ³		
TOTAL OF	F BILL NO. 03 (MASONRY AND PLASTERING)	1.87	m ³		
TOTAL OF	receive the tiles F BILL NO. 03 (MASONRY AND PLASTERING) OVER TO THE GENERAL SUMMARY)	1.87	m ³		

4.1.1	a) Rates shall include for: all labour in framing,				
	notching and fitting around projections, pipes, light				
	fittings, hatches, grilles and similar and complete				
	with cleats, packers, wedges and timber beeding etc				
4.1.2	similar and all nails and screws.				
4.1.2	b) Rate shall include for: timber priming and all painting as specified in the drawing				
4.1.3	c) Rates shall include for fabrication and erection				
4.1.3	and temporary supports and fixing into position.				
4.2	CEILING FOR BATHROOM/ SHOP / OFFICE				
4.2.1	Ceiling board (Boral) for office inside	39.96	m ²		
4.2.2	Ceiling board (exterior) for roof soffit	12.10	m ²		
TOTAL O	F BILL NO. 04 (CEILING)				
(CARRIEL	OVER TO THE GENERAL SUMMARY)				
	Bill no. 05				
5	DOORS AND WINDOWS				
5.1	GENERAL				
5.1.1	a) Rates shall include for: locks, latches, closers, push				
	plates, pull handles, bolts, kick plates, hinges and all				
F 1 0	door & window hardware.				
5.1.2	b) All Aluminum windows shall be white powder				
5.1.3	coated 60-80 micron aluminum. c) All timber doors shall be solid timber paneled				
5.1.5	door with paint finish				
5.1.4	d) All glazing shall be 6mm clear glass.				
5.2	ALUMINUM DOOR & WINDOW UNITS				
5.2.1	Door D1	2.00	nos		
5.2.2	Door D2	2.00	nos		
5.2.3	Window W1	8.00	nos		
5.2.4	Ventilation V1	2.00	nos		
TOTALO	F BILL NO. 05 (DOORS AND WINDOWS)				
	OVER TO THE GENERAL SUMMARY)				
CHINILL	Bill no. 06				
6	TILING WORKS				
6.1	GENERAL				
6.1.1	a) Rates shall include for: fixing, bedding, grouting,				
0.1.1	pointing, finishing and any other similar works to				
	ensure the required finish.				
6.1.2	Colour combination of tiles, pattern and texture may				
	vary.				
6.2	FLOOR TILES				
6.2.1	600 X 600 mm Homogeneous floor tiles laid on		m ²		
	cement mortar on the General areas	1.87			
6.3	TOILET WALL TILES				
6.3.1	300 X 600 Ceramic Gloss high quality tiles upto full	26 52	m ²		
	wall height with border tiles etc	36.52			
6.4 6.4.1	SKIRTING TILE 600mm x 100mm High Homogenous skirting tile	33.40	m		
0.4.1	oooninii x tooninii Higii Homogenous skii ting the	33.40	111		
TOTAL O	F BILL NO. 06 (TILING WORKS)	•			
	OVER TO THE GENERAL SUMMARY)				
	Bill no. 07				
7	PAINTING				
7.1	GENERAL				
7.1.1	a) Rates shall include for: the provision, erection and				
	removal of scaffolding, preparation, rubbing down				
	between coats and similar work, the protection and				
	/ or making floors, fittings and similar work,				
	removing and replacing door and window furniture				
7.1.2	b) All painting work shall be carried in accordance				
/.1.4	by an panning work shan be carried in accordance				
	with the specifications of "SKK or Equivalent"				
7.1.3	c) Colour and quality shall be approved prior to				
	work.				
7.2	EXTERNAL WALLS				
7.2.1	Oil-Based paint finish				
7.2.2	1 coat of wall sealer, 1 coat of textured & 2 coats of		m ²		
l	paints on external walls	66.00	-	I	I

7.3.1 7.3.2 7.4 7.4.1 7.4.2 7.4.3 TOTAL OF H (CARRIED 0	INTERNAL WALLS Emulsion paint finish on plastered surfaces of on internal walls. 1 coat of wall sealer, & 2 coats of paints CEILING Putty with emulsion paint finish Interior	97.60	m²	
7.3.2 7.4 7.4.1 7.4.2 7.4.3 TOTAL OF F	internal walls. <u>1 coat of wall sealer</u> , <u>& 2 coats of paints</u> CEILING <u>Putty with emulsion paint finish</u>	97.60	m ²	
7.3.2 7.4 7.4.1 7.4.2 7.4.3 TOTAL OF H (CARRIED 0)	1 coat of wall sealer. & 2 coats of paints CEILING Putty with emulsion paint finish	97.60	m ²	
7.4 7.4.1 7.4.2 7.4.3 TOTAL OF H (CARRIED O	CEILING Putty with emulsion paint finish	97.00		
7.4.1 7.4.2 7.4.3 TOTAL OF H (CARRIED O	Putty with emulsion paint finish			
7.4.2 7.4.3 TOTAL OF H (CARRIED 0				
7.4.3 TOTAL OF H (CARRIED O		39.96	m ²	
TOTAL OF F	Exterior	12.10	m ²	
(CARRIED O	Exterior	12.10	111	
	BILL NO. 07 (PAINTING)			
I	VER TO THE GENERAL SUMMARY) Bill no. 08			
8				
	ELECTRICAL, IT & HVAC INSTALLATION			
8.1	GENERAL			
8.1.1				
	(a) Rates shall include for: screws, nails, bolts, nuts,			
	standard cable fixing or supporting clips, brackets,			
	straps, rivets, plugs and all incidental accessories			
8.1.2	(b) Rates for electrical conduits, fittings, equipment			
	and similar items shall include for: all fixings to			
010	various building surfaces			
8.1.3	(d) Light end and switch end of wiring together			
	measured as one point			
8.1.4	(e) A point wiring for power points is measured as one point for each socket outlet; other end of wire is			
	not included in the quantity.			
	(h) The Contractor shall provide shop drawings for			
8.1.5	approval before proceeding with any works			
8.1.6	(i) All electrical wires, cables, fittings, fixtures,			
	accessories & similar shall be approved by the			
	Consultant			
8.2	ELECTRICAL BOARDS & PANELS			
8.2.1	ELECITICAL BUARDS & FANELS			
0.2.1	Complete installation, including for all connections,			
	earthing, painting, testing and similar of:			
8.2.2	Distribution Boards	1.00	Nos	
8.3	ELECTRICAL WIRING	1.00		
8.3.1	Electrical wiring with copper conductor cable in			
	conduits in walls and concrete as per government			
	regulations.			
8.3.2	Wiring to lights & fans	16.00	Nos	
8.3.3	Wiring to power points	11.00	Nos	
8.3.4	Wiring to DB	1.00	Nos	
8.3.5	Wiring to mains or power distribution box	1.00	item	
8.4	LIGHTING, POWER POINTS & FANS			
8.4.1	Supply and fixing of, fans, lights, switches, sockets			
	and similar			
8.4.2	Ceiling recessed E/S down light	9.00	Nos	
8.4.3	Waterprood spotlight LV halogen	4.00	Nos	
	Wall socket outlet Double Gang (2x13Amp)	7.00	Nos	
8.4.5	Wall socket outlet Single Gang (1x13Amp)	2.00	Nos	
	Service socket outlet (1x13Amp)	2.00	Nos	
	Ceiling fan 1.2m dia with Dimmer	3.00	Nos	
	Emergency light (rechargeable)	2.00	Nos	
8.4.9	One Way Switch 01 Gang	5.00	Nos	
8.4.10	One Way Switch 02 Gang	2.00	Nos	
TOTAL OF I	BILL NO. 08 (ELECTRICAL , IT & HVAC INSTALLATION	I		
	VER TO THE GENERAL SUMMARY)	-		
	Bill no. 09			
9	HYDRAULICS & DRAINAGE			
	PREAMBLE NOTES			
9.1.1	(a) Rates shall include for sockets, running joints,			
	connectors, elbows, junctions, valves, reducers,			
	expansion joints, backnuts and similar, incidental			
	fittings, clips saddles, brackets, straps, hangers,			
	screws, nails and fixing complete, including cutting			
	and forming holes, excavating, laying pipes and			

9.1.2	(b) All pipe work and fittings shall be high pressure			
9.1.3	PVC (c) Rates shall include for supply and fixing of all			
9.1.4	pipes (d) All sanitary fixtures used shall be of superior			
9.1.4	quality and approved by the architect/consultant on			
	submission of samples.			
9.1.5	(e) Sanitary fixtures complete including brackets,			
71110	flush pipes, valves, overflows, plugs and washers, as			
	specified.			
9.2	INTERNAL PLUMBING - COLD WATER			
9.2.1	Internal plumbing to all toilets and kitchen incl.			
	supply and laying of pipes.	1.00	Item	
9.2.2	Fresh water or utility water connection to all toilets			
	and kitchen including the necessary catch pits and			
	manholes as necessary. Rates shall include for			
	supply and laying of pipes including clean-outs as	1.00	v .	
	necessary	1.00	Item	
9.3	EXTERNAL PLUMBING Waste water and sewage connection from all the			
9.3.1	toilets and kitchen and leachate tank including the			
	necessary catch pits and manholes as necessary.			
	Rates shall include for supply and laying of pipes			
	including clean-outs as necessary	1.00	Item	
9.4	SANITARY FIXTURES & ACCESSORIES	1100		
9.4.1	Sanitary fixtures complete including brackets, stop			
	valves, fittings etc. All sanitary fittings shall be as			
	given in product manual.			
9.4.2	WC Complete	2.00	Nos	
9.4.3	Wash Basin	2.00	Nos	
9.4.4	Wash basin Tap	2.00	Nos	
9.4.5	Muslim Shower	2.00	Nos	
9.4.6	Frameless Mirror 450mm x 450mm high	2.00	Nos	
9.4.7	Floor drain 100 mm dia	2.00	Nos	
9.5	RAINWATER DISCHARGE PIPE (a) Rates shall include for excavation, maintaining			
9.5.1	faces of drain pipe trenches and pits, backfilling,			
	disposal of surplus soil, bends, junctions, reducers,			
	expansion joints and all joints and other incidental			
	materials.			
9.5.2	75 mm Ø Rainwater discharge pipe from roof, rates			
	shall include for supply and installation of piping			
	from roof.	2.00	Item	
	BILL NO. 09 (HYDRAULICS & DRAINAGE) WER TO THE GENERAL SUMMARY)			
(CARRIED C	Bill no. 10			
10	ROOFING			
10	GENERAL			
10.1 10.1.1	Lysaght roofing sheet. Rate shall include all			
10.1.1	necessary laps, fastening, fixtures and sealing of	71.20	m ²	
	joints	, 1.20		
10.1.2	Insulation - 50 thick glass wool quilt both sides		2	
	aluminum	71.20	m ²	
10.1.3	50x150 timber rafters	72.00	m	
10.1.4	50x38 timber battens	160.20	m	
10.1.5	200x50 timber battens	8.90	m	
10.1.6	Gutter	17.80	m	
10.1.7	25x180 timber facia	17.80	m	
10.1.8	Lysaght ridge cap	8.90	m	
10.1.9	Flashing	16.00	m	
TOTAL OF				
	BILL NO. 10 (ROOFING) OVER TO THE GENERAL SUMMARY)			
LCHURD	WEN TO THE GENERAL SUMMARIJ			

BOQ SHED A

NO	BILL	TOTAL (MVR)
1	GROUND WORKS	
2	CONCRETE WORKS	
3	MASONRY AND PLASTERING	
4	METAL WORKS	
5	ELECTRICAL , IT & HVAC INSTALLATION	
6	HYDRAULICS & DRAINAGE	
7	ROOFING	
	GRAND TOTAL	

	SHED A DETAILS			n	1
IETM NO:	DESCRIPTION	QTY	UNIT	RATES REDUCED	TOTAL IN MVR
	Bill No. 01			REDUCED	
1	GROUND WORKS				
1.1	GENERAL				
1.1.1	(a) Rates shall include for: leveling, grading,				
	trimming, compacting to faces of excavation, keep				
	sides plumb, backfilling, consolidating and disposing				
	surplus soil.				
1.1.2	Excavation quantities are measured to the faces of				
	concrete members. Rates shall include for all				
	additional excavation required to place the				
1.1.3	formwork.				
1.1.3	Filling rates shall include for: leveling, grading, trimming and compacting.				
1.1.4	Water proofing and damproofing rates shall include				
	water prooning and damprooning rates shan merade				
	for: dressing around and sealing to all penetrations.				
1.2	EXCAVATION				
1.2.1	Excavation quantities are measured to the faces of				
	concrete members. Rates shall include for all				
	additional excavation required to place the				
	formwork, back fill, dewatering and others				
1.2.2	Excavation for foundation including foundation				
	beams (Foundation depth 600 mm and additional 50	16.25	m ³		
1.3	mm for lean concrete) BACK FILLING	10.25	ш		
1.3 1.3.1	(a) Rates shall include for: leveling, grading,				
1.5.1	trimming, compacting and similar.				
1.3.2	(b) Ground need to be compacted to the required				
	density by the consultant.				
1.3.3	Back filling to foundations	1.00	item		
1.3.4	200 mm thick compacted gravel bed layer to receive				
	damp proof membrane	33.28	m ³		
1.4	DAMP PROOF MEMBRANE				
1.4.1	(a) Rates shall include for: dressing around and				
	sealing to all penetrations, laps and turnups				
1.4.2	Polythene damp proof membrane (1000 gauge) laid		-		
	on blinding layer under ground floor slab	179.00	m²		
TOTAL OF	BILL NO. 01 (GROUND WORKS)				
	WER TO THE GENERAL SUMMARY)				
	Bill no. 02				
2	CONCRETE WORKS				
2.1	GENERAL				
2.1.1	a) Rate shall include for: placing in position; making				
	good after removal of formwork and casting in all				
	required items; additional concrete required to				
2.1.2	conform to structural and excavated tolerances. b) Mix ratio for reinforced concrete shall be 1:2:3				
2.1.2 2.1.3	c) Concrete quantity is measured to the edges of				
2.1.5	concrete foundation members. Rates shall be				
	inclusive for any additional concrete required to				
	place the formwork.				
2.2	REINFORCED CONCRETE				
2.2.1	Add water proofing compound to concrete mix for				
	walls and cover slab below GL				
2.2.2	Slab beams		2		
2.2.2.1	Edge beam	11.61	m ³		
2.2.2.2	Mid beam	4.64	m ³		
2.2.3	Ground Floor				
2.2.3.1	RCC Ground Slab 100 mm thick with T10@200 mm				
	c/c (Rate should include reinforcement and required shuttering for edge of slab)	16.64	m ³		
	Shutter mg for euge of Stab J	10.04	111	I	1

2.2.4.1	Column pipe sleeve	0.07	m ³		
	F BILL NO. 02 (CONCRETE WORKS)				
	OVER TO THE GENERAL SUMMARY)				
	Bill no. 03				
3	MASONRY AND PLASTERING				
3.1	GENERAL				
3.1.1	Rates shall include for: cleaning out cavities, forming				
	rebated reveals and pointing and cleaning down to				
	reveals where necessary; fractional size blocks, all				
	necessary machine cutting, cutting or forming chases				
	or edges of floor slabs, cutting or leaving holes and				
	openings as recesses for and building in pipes,				
	conduits, sleeves and similar as required for all				
	trades; leaving surfaces rough or raking out joints for				
	plastering and flashings, bedding frames or plates,				
	building in joists, bearers or similar, temporary				
	supports to openings, templates, reinforcement in				
	walls and for all necessary making good.				
3.1.2	Cement solid block, laid on and incl. mortar tie rods,				
	compression joint gap filler, nylon/plastic mesh as				
0.4.9	specified				
3.1.3	Cement plastering on walls and concrete surfaces as specified incl. wire mesh at the joints of concrete				
	specified incl. wire mesh at the joints of concrete surfaces and walls				
3.1.4	Masonry brick should be salt free PWS / Municipalty				
	solid bricks.				
3.2	EXTERNAL WALLS				
3.2.1	150mm wide solid block wall on cement plastered				
	and painted finish, laid on and incl. 1:4 Cement Mortar, tie rods, compression gap filler, nylon /		m ²		
	plastic mesh as specified.	75.60			
3.3	PLASTERING				
3.3.1	a) 18mm cement plastering on EXTERNAL WALLS				
	and concrete surfaces with 1:4 Cement mortar mix as		2		
	specified incl. wire mesh at joints of concrete		m ²		
	surfaces and walls (first, second coats).	151.20			
	F BILL NO. 03 (MASONRY AND PLASTERING)				
(CARRIED	OVER TO THE GENERAL SUMMARY)			1	T
	Bill no. 04				
4 4.1	METAL WORKS GENERAL				
4.1 4.1.1	a) Rates shall include for: all fabrication work,				
	welding, marking, drilling for bolts incl. steel Flanges,				
	bolts, nuts and any type of washer, riveted work,				
	counter sinking and tapping for bolts or machine				
412	screws.				
4.1.2	b) Rates shall include for fabrication and erection and temporary supports and fixing into position.				
4.2	COLUMNS				
4.2.1	100 mm dia GI Pipe Column with 200x200 plate				
	welded to base as given in drawings	9.00	Nos		
4.3	BRACINGS				
4.3.1	38 mm dia GI Pipe Bracing pairs attached to columns				
	as given in drawings (one set is considered as two				
		6.00	sets		
4.4	diagonals between columns spanning 6m) TRUSS				1
4.4 4.4.1	diagonals between columns spanning 6m) TRUSS Truss TR1 - 6.1 m long, 0.475 wide truss made from				
	TRUSS	10.00	Nos		
	TRUSS Truss TR1 - 6.1 m long, 0.475 wide truss made from GI Pipes as given in the drawings Truss TR2 - 12 m long, 0.475 wide truss made from	10.00			
4.4.1	TRUSS Truss TR1 - 6.1 m long, 0.475 wide truss made from GI Pipes as given in the drawings		Nos Nos		

(CARRIED OVER TO THE GENERAL SUMMARY)

(CARRIED	OVER TO THE GENERAL SUMMARY)				
	Bill no. 05				
5	ELECTRICAL , IT & HVAC INSTALLATION				
5.1	GENERAL				
5.1.1					
	(a) Rates shall include for: screws, nails, bolts, nuts,				
	standard cable fixing or supporting clips, brackets,				
	straps, rivets, plugs and all incidental accessories				
5.1.2	(b) Rates for electrical conduits, fittings, equipment				
	and similar items shall include for: all fixings to various building surfaces				
5.1.3	(d) Light end and switch end of wiring together				
5.1.5	measured as one point				
5.1.4	(e) A point wiring for power points is measured as				
0.1.1	one point for each socket outlet; other end of wire is				
	not included in the quantity.				
5.1.5	(h) The Contractor shall provide shop drawings for				
	approval before proceeding with any works				
5.1.6	(i) All electrical wires, cables, fittings, fixtures,				
	accessories & similar shall be approved by the				
	Consultant				
5.2	ELECTRICAL BOARDS & PANELS				
5.2.1	Complete installation, including for all connections,				
	earthing, painting, testing and similar of:				
5.2.2	Distribution Boards	1.00	Nos		
5.3	ELECTRICAL WIRING	1.00	1105		
5.3.1	Electrical wiring with copper conductor cable in				
	conduits in walls and concrete as per government				
	regulations.				
5.3.2	Wiring to lights & fans	4.00	Nos		
5.3.3	Wiring to power points	8.00	Nos		
5.3.4	Wiring to DB	1.00	Nos		
5.3.5	Wiring to mains or power distribution box	1.00	Nos		
5.4	LIGHTING, POWER POINTS & FANS Supply and fixing of, fans, lights, switches, sockets				
5.4.1	and similar				
5.4.2	Mercury flood led light	4.00	Nos		
5.4.3	Wall socket outlet Single Gang	4.00	Nos		
5.4.4	Service socket outlet Single Gang	4.00	Nos		
5.4.5	One Way Switch 01 Gang	1.00	Nos		
TOTAL O	F BILL NO. 05 (ELECTRICAL, IT & HVAC INSTALLATION)	I			
UCARRIED	OVER TO THE GENERAL SUMMARY)				
c	Bill no. 06				
6 6.1	HYDRAULICS & DRAINAGE PREAMBLE NOTES				
6.1 6.1.1	(a) Rates shall include for sockets, running joints,				
0.1.1	connectors, elbows, junctions, valves, reducers,				
	expansion joints, backnuts and similar, incidental				
	fittings, clips saddles, brackets, straps, hangers,				
	screws, nails and fixing complete, including cutting				
	and forming holes, excavating, laying pipes and				
	backfilling trenches.				
6.1.2	(b) All pipe work and fittings shall be high pressure				
	PVC				
6.1.3	(c) Rates shall include for supply and fixing of all				
(1.4	pipes (d) All sanitary fixtures used shall be of superior				
6.1.4	quality and approved by the architect/consultant on				
	submission of samples.				
6.1.5	(e) Sanitary fixtures complete including brackets,				
	flush pipes, valves, overflows, plugs and washers, as				
	specified.				
6.2	INTERNAL PLUMBING - COLD WATER				
6.2.1	Internal plumbing to all toilets and kitchen incl.				
	supply and laying of pipes.	1.00	Item		

6.2.2	1			1	
	Fresh water or utility water connection to all toilets				
	and kitchen including the necessary catch pits and				
	manholes as necessary. Rates shall include for supply				
	and laying of pipes including clean-outs as necessary	1.00	Item		
6.3	EXTERNAL PLUMBING				
6.3.1	Waste water and sewage connection from all the				
	toilets and kitchen including the necessary catch pits				
	and manholes as necessary. Rates shall include for				
	supply and laying of pipes including clean-outs as				
	necessary	1.00	Item		
10.1.13	SANITARY FIXTURES & ACCESSORIES				
10.1.14	Sanitary fixtures complete including brackets, stop				
	valves, fittings etc. All sanitary fittings shall be as				
	given in product manual.				
10.1.15	Faucet	1.00	Nos		
6.4	RAINWATER DISCHARGE PIPE				
6.4.1	(a) Rates shall include for excavation, maintaining				
	faces of drain pipe trenches and pits, backfilling,				
	disposal of surplus soil, bends, junctions, reducers,				
	expansion joints and all joints and other incidental				
	materials.				
6.4.2	75 mm Ø Rainwater discharge pipe from roof, rates				
	shall include for supply and installation of piping				
	from roof.	4.00	Item		
TOTAL OI	F BILL NO. 06 (HYDRAULICS & DRAINAGE)				
	OVER TO THE GENERAL SUMMARY)				
	Bill no. 07				
7	ROOFING				
7.1	GENERAL				
7.1.1	Lysaght roofing sheet. Rate shall include all				
	necessary laps, fastening, fixtures and sealing of	157.38	m ²		
	joints				
7.1.2	Insulation - 50 thick glass wool quilt both sides		3		
	aluminum	157.38	m ²		
7.1.3	Purlins GI RHS 100x50x3	193.50	m		
	Gutter	25.80	m		
7.1.4					
7.1.4 7.1.5	25x180 timber facia	25.80 1	m		
7.1.5		25.80 12.90	m		
	25x180 timber facia Lysaght ridge cap				
7.1.5 7.1.6					