

SUMMARY OF BILL OF QUANTITIES**R. INGURAI DHOO PARK**

Bill No	Description
1	PRELIMINERIES
2	GROUND WORK
3	CONCRETE
4	MASONRY, PLASTERING AND FLOORING
5	WOOD WORKS
6	DOORS AND WINDOWS
7	PAINTING
8	HYDRAULICS AND DRAINAGE
9	ELECTRICAL INSTALLATIONS
GRAND TOTAL	

Item	Description	Unit	Qty
BILL No: 01 <u>PRELIMINARIES</u>			
1.1	<u>General Notes</u>		
(1)	<u>Abbreviations</u>		
	m - metre		
	No - numbers		
	m ³ - cubic metre		
	m ² - square metre		
	Lm - Linear metre		
	t - tonnes		
	incl - including		
	mm - millimetre		
	dia - diameter		
	SS - Stainless steel		
	GI - Galvanized iron		
1.2	<u>Site Management Costs</u>		
(1)	Allow for all on and off site management cost		
	including costs of forman and asistants,		
	temporaryservices,telephone,fax,hoardings and similar	item	1.00
1.3	<u>Sign Board</u>		
(1)	Allow for sign boards	item	1.00
1.4	<u>Clean-up</u>		
(1)	Allow for clean-up of completed works and site upon		
	completion.	item	1.00
BILL No: 01 - PRELIMINERIES			
TOTAL OF BILL No: 01 - Carried over to summary			

Item	Description	Unit	Qty
<u>BILL No: 02</u>			
<u>GROUND WORKS</u>			
2.1	<u>General</u> (a) Rates shall include for: levelling, Grading, Trimming, Compacting to faces of excavation, keeping sides plumb, backfilling, consolidating and disposing surplus soil.		
2.2	<u>Site Clearing</u> (1) Clearing site including trees less than 0.5m girth complete with stumps and roots.	item	1.00
2.3	<u>Excavation</u> (a) Excavation quantities are measured to the faces of concrete members. Rates shall include for all additional excavation required to place the formwork. Excavation for (1) Foundation Beam	m ³	75.82
2.4	<u>Back filling</u> (a) Rates shall include for levelling, grading, trimming and compacting. (1) Backfilling to get level of 1850mm below G.L (2) Minimum 150mm thick hardcore on compacted ground (3) 25mm thick sand bedding on hardcore	item item item	1.00 1.00 1.00
BILL No: 02 - GROUND WORKS			
TOTAL OF BILL No: 02 - Carried over to summary			

Item	Description	Unit	Qty
	<u>BILL No: 03</u> <u>CONCRETE</u>		
3.1	<u>General</u>		
	(a) Rates shall include for: placing in position; making good after removal of formwork and casting in all required items to conform to structural and excavated tolerances		
	(b) Rates shall include supply of all formwork item including form oil, timber, plywood, nails etc.		
	(c) Mix ratio for reinforced concrete shall be 1:2:3 and lean concrete shall be 1:2:6 by volume.		
(1)	Allow for concrete testing	item	1.00
3.2	<u>Lean Concrete</u>		
	(a) Quantity is measured to the edges of concrete foundation members. Rates shall be inclusive of any additional concrete required to place the formwork.		
	50mm thick lean concrete to bottom of		
(3)	Foundation	m ³	5.40
3.3	<u>Reinforced Concrete</u>		
	In-situ reinforced concrete to:		
3.3.1	<u>Foundations</u>		
(4)	Foundation Beam	m ³	12.45
3.3.2	<u>Ground floor</u>		
(1)		m ³	17.50
(2)	RC benches	m ³	2.55
3.4	<u>Reinforcement</u>		
	(a) Rates shall include for: cleaning, fabrication, placing, the provision for all necessary temporary fixings and supports including tie wire and chair supports, laps and wastage		
	(b) All reinforcing bars shall be high strength bars		
3.4.1	<u>Foundation</u>		
	6mm dia. Bars in Foundation Beam TB	m	772.00
	16mm dia. Bars in Tie Beam TB	m	694.20
3.4.2	<u>Ground floor</u>		
	10mm dia. Bars in RC Walls	m	1,725.00
	10mm dia. Bars in RC Bench	m	170.00
3.5.6	<u>WATER PROOFING</u>		
	Rates shall include for: dressing around and sealing to all penetrations		
(1)	Apply 2 coat slurry type water proofing to all surfaces of concrete below ground level in accordance with manufacturer's instructions.	m ²	500.00
BILL No: 03 - CONCRETE WORKS			
TOTAL OF BILL No: 03 - Carried over to summary			
Item	Description	Unit	Qty

BILL No: 04		
<u>MASONRY, PLASTERING AND FLOORING</u>		
4.1 GENERAL		
(a) 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		
4.2 Cement blockwork		
4.2.2 125 mm wide solid blocks, laid on and incl. mortar, tie rods, tie rods, compression joint gap filler, GI wire mesh as specified		
Boundary walls (sand pit)	m ²	0.80
Boundary walls (Mech room)	m ³	10.48
Boundary walls (Kiosk)	m ⁴	6.90
Boundary walls (Water island)	m ⁵	3.71
Rc Walls		
4.3 Plastering		
(a) Cement plastering on walls and concrete surfaces as specified incl. wire mesh at the joints of concrete surfaces and walls and water proofing additives / admixtures for all surfaces		
4.3.1 <u>12mm plaster on surfaces of walls (2 coat)</u>		
(1) walls	m ²	16.38
4.4 Cement Screed		
4.4.1 35mm thick rough screed slab. Rates shall include for water proofing for toilet floor areas and terrace floor in addition to concrete water proofings.		
(1) Ring around Combine Slider	m ²	75.00
(2) Ring around SeaSaw	m ²	31.90
4.4 Paving		
4.4.1 35mm thick rough screed slab. Rates shall include for water proofing for toilet floor areas and terrace floor in addition to concrete water proofings.		
(1) Ring around Sand pit	m ²	23.00
BILL No: 04 - MASONRY, PLASTERING AND FLOORING		
TOTAL OF BILL No: 04 - Carried over to summary		

Item	Description	Unit	Qty
<u>BILL No: 05</u> <u>WOOD WORK</u>			
5.1	<u>General</u> (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 similar and all nails and screws.		
5.2	<u>Timber Fixtures</u> Timber Fixture include for all bolts, screws, washers, angled fixtures	item	9.69
BILL No: 05 - WOOD WORK			
TOTAL OF BILL No: 05 - Carried over to summary			
Item	Description	Unit	Qty

<u>BILL No: 06</u> <u>DOORS AND WINDOWS</u>			
6.1	<u>General</u> (a) Rates shall include for locks, latches, closers, push plates, pull handles, bolts, kick plates, hinges and all door & window hardware. (b) Rates shall include for door frames and window frames, mullions, transoms, trims, glazing, tinting, timber panels, boardings, framing, lining, fastenings and all fixings and insallation. (c) Glazing marked as Powder coated Aluminium to be with 60 micron anodised aluminium in metallic silver finish with 6mm green tinted clear glass as specified in the drawing. (d) Rates shall include for door and window jamb as specified in the drawing (e) All doors and windows shall be as specified in the drawing (f) Rates shall include for all painting as specified (g) All fire doors shall have at least 1hr fire rating		
6.2	<u>Timber Door Units</u> Door D1 Door D2 Door SD1 Window W1	no no no no	1.00 1.00 1.00 1.00
BILL No: 06 - DOORS AND WINDOWS			
TOTAL OF BILL No: 06 - Carried over to summary			
<u>BILL No: 07</u>			

<u>PAINTING</u>			
7.1 <u>General</u>	(a) Rates shall include for: the provision, erection and removal of scaffolding, preparation, rubbing down between coats and similar work, the protection and / or masking floors, fittings and similar work, removing and replacing door and window, furniture (b) All painting work shall be in accordance with the specifications		
7.2 <u>Floor Paint</u>	Epoxy paint finish or approved equivalent on plastered Ring Around the Seesaw	m ²	31.92
	Ring Around the sand pit	m ²	23.00
7.3 <u>Doodle wall Paint</u>	Emulsion paint finish or approved equivalent on plastered (interior walls) Doodle wall Matt white Paint		
		m ²	16.34

BILL No: 07 - PAINTING

TOTAL OF BILL No: 07 - Carried over to summary

Item	Description	Unit	Qty
------	-------------	------	-----

<u>BILL No: 08</u>			
<u>HYDRAULICS & DRAINAGE</u>			
8.1 <u>Hydraulics</u>	<u>General</u>		
	(a) Rates shall include for: sockets, running joints, connectors, elbows, junctions, reducers, expansion joints; backnuts and similar; incidental fittings, clips, saddles, brackets, hangers, screws, nails and fixing complete, including cutting and forming holes; excavating, laying pipes and backfilling trenches. (b) All pipework shall be uPVC.		
	<u>Internal Plumbing</u>		
	Internal plumbing to all toilets & sinks incl. supply and laying of pipes	item	1.00
	<u>External Plumbing</u>		
	Well water connections to all WC's & sinks. Rate shall include for supply and laying of pipes	item	1.00
	<u>Sanitary fixtures & accessories</u>		
	Sanitary fixtures complete including brackets, flush pipes, overflows, plugs and washers as specified. All sanitary fittings shall be superior quality. Taps, hand shower, head shower, bidet shower, towel ring, and towel bar should be plastic.		
	SS kitchen Sinks incl. taps with fresh water and well water	no	1.00
	Floor drain with trap	no	20.00
	Low level taps with MWSC water connections	no	10.00
	<u>Pumps</u>		

	Supply and installation of water pump complete including connecting to pipework and electricity as specified. Ground water pump (electric)	no	1.00
8.2	<u>Drainage</u>		
	<u>General</u>		
	(a) Rates shall include for: excavation, maintaining faces of drain pipe trenches and pits, backfilling, disposal of surplus spoil; bends, junctions, reducers, expansion joints and all joints and other incidental materials.		
	(b) All pipework shall be uPVC		
	<u>Discharge Pipework</u>		
	Waste water and sewage connection from sink and water basin incl. supply and laying of pipes	item	1.00
	Waste water and sewage connection to MWSC junction box incl. supply and laying of pipes	item	1.00
BILL No: 08 - HYDRAULICS & DRAINAGE			
TOTAL OF BILL No: 08 - Carried over to summary			
Item	Description	Unit	Qty

<u>BILL No: 09</u>			
<u>ELECTRICAL INSTALLATIONS</u>			
9.1	<u>General</u>		
	(a) Rates shall include for: screws, nails, bolts, nuts, standard cable fixing or supporting clips, brackets, straps, rivets, plugs and all incidental accessories.		
	(b) Rates for work in trench shall include for: excavation, maintaining faces of excavations, backfilling, compaction, appropriate cable covers, warning tape and disposal of surplus spoil.		
	(c) Rates for work in trench shall include for electrical conduits, fittings, equipment and similar all fixings to various building surfaces		
	(d) Each Light / light fixtures and its switch is measured as one point; similarly each fan or each socket outlet is measured as one point installation		
	(f) All main distribution boards are 3 phase.		
9.2	<u>Main connection</u>		
	Allow for connection to electrical mains (STELCO)	item	1.00
9.3	<u>Electrical boards</u>		
	Complete installation, including for all connections, earthing, painting, testing and similar of:		
	Three phase main board with connections from all the mains including meter, cutoff fuse and other accessories to electrical engineer's specification	item	1.00
	Panel board	no	1.00
	Kilowatt hour meter	no	1.00
9.4	<u>Electrical wiring</u>		
	Electrical wiring with copper conductor cable in conduits in walls and in casing on soffits of slab as specified to:		
	Wiring with 1.5mm ² cable to lighting	points	31.00
	Wiring with 2.5mm ² cable to power points	points	8.00
	Wiring to distribution board	points	39.00
9.5	<u>Fans</u>		
	Exhaust fan	no	1.00

9.6 Lighting			
Street Lamp Lights (Ceiling, wall mount, led strips, check specification)	no		6.00
Lights (Floor recessed)	no		18.00
Lights (LED strips)	no		4.00
Lights (Spot)	no		2.00
surface mount light (under the slab) weatherproof	no		1.00
9.7 Socket outlets			
(a) All socket outlets shall be "Clipsal" or equivalent.			
1x13A socket outlet	no		7.00
1x15A range / cooker socket outlet (1200 FFL)	no		1.00
9.8 Light switches			
(a) All light switches shall be "Clipsal" or equivalent			
One way switch	no		18.00
9.9 Sinage			
(a) Singn Board fabrication and fixing (LED)	no		1.00
BILL No: 09 - ELECTRICAL INSTALLATIONS			
TOTAL OF BILL No: 09 - Carried over to summary			

