PROJECT: R. MADUVVAREE SCHOOL (BOUNDARY WALL & GATE)

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	BILL No: 01					
	<u>PRELIMINARIES</u>					
1.1	General Notes					
(1)	Abbreviations					
	m - metre					
	no - numbers					
	m³ - cubic metre					
	m² - square metre					
	m - metre					
	t - tonnes					
	incl - including					
	mm - millimetre dia - diameter					
	SS - Stainless Steel					
	GI - Galvanised Iron					
	GI Garvainsed For					
1.2	Site Management Costs					
(1)						
	Allow for all on and off site management cost including					
	costs of foreman and assistants, temporary services,					
	telephone, fax, hoardings, fences, Crane/Concrete pump,					
	Machinaries and similar items	Item	1.00			
1.3	Sign Board		1.00			
(1)	Allow for sign board.	No	1.00			
1.4	SAFETY					
(1)						
(-)	Safety - Providing and fixing scaffolding with G.I. pipes and clamps and pvc netting alaround					
	building during construction	Item	1.00			
	outling during construction	Ittiii	1.00			
1.5	Clean-up					
(1)	Allow for clean-up of completed works and site upon					
	completion.	Item	1.00			
		Itterin	1.00			
	BILL No: 01 PRELIMINARIES					
	TOTAL OF BILL No: 01 - Carried over to summary					

Prepared by JP 2/13/2022

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
2.1	BILL NO: 02 GROUND WORK General (a) Rates shall include for: leveling, grading, trimming,					
	compacting to faces of excavation, keep sides plumb, backfilling, consolidating, additional working space and disposing surplus soil.					
2.2	Site clearance Clearing site - Demolition of Existing Wall and dispatch all debris, clearing and dispose all unwanted materials away from site and prepare site ready for proposed construction (including all subsurface structure of the wall).	Item	1.00			
2.4.1	Excavation (a) 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 Excavation					
(1)	Foundation Beam TB	m³	28.45			
. ,	Foundation Beam (Wall)	m ³	17.62			
(3)	Foundation Pad		8.00			
2.4.2	Back filling (a) Rates shall include for: leveling, grading, trimming and compacting. (b) Ground need to be compacted to the density required by the consultant					
1)	Foundation Beam (TB)	m²	26.67			
2)	Foundation Beam (Wall)	m²	19.60			
3)	Foundation Pad	m²	7.28			
2.5	<u>Damp Proof Membrane</u> (a) Rates shall include for: dressing around and sealing to all penetrations, laps and turnups.					
1)	Polythene damp proof membrane (500 gauge) laid on					
	blinding layer.	m²	2.88			

BILL No: 02 GROUND WORKS

TOTAL OF BILL No: 02 - Carried over to summary

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	BILL NO : 03					
3.0	CONCRETE					
	(a) Rates 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.					
	(b) Mix ratio for reinforced concrete shall be					
	1:2:3 and lean concrete shall be 1:2:6 by volume.					
	(c) Quantity is measured to the edges of concrete					
	foundation members. Rates shall be inclusive for any additional concrete					
211	LEAN CONCRETE					
3.1.1						
	50mm thick lean concrete below Foundation	2	2.00			
	Foundation Footings & Tie beams	m²	2.88			
3.2	REINFORCED CONCRETE					
3.1.2 (1)	FOUNDATIONS Foundation Beam (TB)	m ³	1.78			
(2)	Foundation Beam (Vall)	m ³	2.94			
(3)	Foundation Pad	m ³	0.72			
3.1.3	COLUMNS & BEAMS					
(1)	Wall column	m ³	6.10			
(2)	Gate Column (C1)	m^3	4.10			
(3)	Capping Beam (Wall Top Beam)	m^3	3.47			
(4)	Gate Beams (B1, B2)	m ³	2.13			
(5)	Seating	m^3	0.60			
(6)	Gate Roof Slab	m^3	2.35			
3.2	FORM WORK					
	(a) Exposed surface shall have fair finish while					
	remaining may have rough finish.					
	(b) Timber used for unexposed concrete surface shall					
	sound dressed and seasoned good quality common timber					
	c) Plywood used for forms shall be of commercial					
	standard, moisture resistane conrete form plywoodnot lessthan 6mm thick and atleast 12mm thick.					
	2000 and offin thek and atteast 12 mil thek.					
	(d) Potos shall include for all passesser.					
	(d) Rates shall include for; all necessary boarding, supports, erecting, framing, temporary					
	cambering cutting, perforations for reinforcing bars,					
	bolts, straps, ties, hangers, pipes and removal of					
	formwork.					
3.2.1	<u>FOUNDATIONS</u>					
(1)	Foundation Beam FB	m ²	124.65			
(2)	Foundation Pad	m ²	0.90			
3.2.2	COLUMNS	,				
(1)	Wall column	m^2	121.92			
(2)	Gate Column (C1)	m^2	7.00			
(3)	Capping Beam (Wall Top Beam)	m ²	30.48			
(4)	Gate Beams (B1, B2)	m^2	22.76			
(5)	Seating	m^2	18.00			
(6)	Gate Roof Slab	m ²	25.53			
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Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
3.3	REINFORCEMENT WORK					
	(a) Main reinforcement steel shall be high tensile steel					
	hot rolled deformed bars complying with BS 1119 or					
	BS 1172 Characteristic strength not less than					
	160N/mm2.					
	(b) Stirrups shall be hot rolled mildsteel round bars					
	complying with BS 1119, Characteristic strength not					
	less than 250N/mm2					
	(c) Rates shall include for; distribution steel, cleaning,					
	fabrication, placing, the provision for all necessary					
	temporary fixings, and supports including chairs and tie					
	wire, laps and wastage.					
3.3.1	BELOW GROUND					
	FOUNDATIONS					
(1)	Ground Beam (Wall)	1.1	500.0 6			
	10mm dia deformed bars - 6m	kg	599.86			
(1)	6mm dia deformed bars - 6m	kg	107.64			
(1)	Foundation Beam TB (Gate)	1	115 44			
	12mm dia deformed bars - 6m	kg	115.44			
(2)	6mm dia deformed bars - 6m	kg	43.59			
(2)	Foundation Pad	1.1	20.42			
	10mm dia deformed bars - 6m	kg	28.42			
	COLUMNS W. H. and Land					
(1)	Wall column	1.1	206.12			
	10mm dia deformed bars - 6m	kg	396.12			
(2)	6mm dia deformed bars - 6m	kg	56.39			
(2)	Gate Column (C1)	,	200.00			
	12mm dia deformed bars - 6m	kg	200.00			
(2)	6mm dia deformed bars - 6m	kg	82.76			
(3)	Capping Beam (Wall Top Beam)	1.1	200.02			
	10mm dia deformed bars - 6m	kg	299.93			
(4)	6mm dia deformed bars - 6m	kg	34.17			
(4)	Gate Beams (B1, B2) 10mm dia deformed bars - 6m	l.a	105 44			
	6mm dia deformed bars - 6m	kg	125.44			
(6)	Gate Roof Slab	kg	43.59			
(6)	10mm dia deformed bars - 6m	l luc	107.54			
	Tomin dia deformed bars - 6m	kg	197.54			
	BILL No: 03 - CONCRETE WORKS					
	TOTAL OF BILL No: 03 - Carried over to summary					

Prepared by JP 2/13/2022

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	BILL No: 04					
11	MASONRY AND PLASTERING Conord					
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.					
	b) 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 joints.					
	c) All external wall and all inetrenal walls shall be					
	100mm thick Solid cement blocks and for masonry mix					
	ratio 1:5 (cement and river sand)					
4.2	MASONRY					
1.0	BELOW GROUND LEVEL					
	100mm thick Solid block boundary wall	2	co 27			
2.0	100mm thick solid block single wall	m ²	69.27			
2.0	ABOVE GROUND LEVEL Boundary walls					
a)	100mm thick Hollow block single wall	m^2	437.28			
3.0	BELOW GROUND LEVEL		437.20			
	100mm thick Solid block gate walls					
	100mm thick solid block single wall	m^2	3.84			
4.0	ABOVE GROUND LEVEL					
1)	Gate walls	2				
a)	100mm thick Hollow block single wall	m ²	35.84			
4.3	<u>PLASTERING</u>					
	(a) 20mm thick Coment plactoring on Enterior configuration					
	(a) 20mm thick Cement plastering on Exterior surface of External masonry walls and concrete surfaces and 15mm					
	thick plastering on interior walls and concrete surface as					
	specified incl. wire mesh shall be fixed at the joints of					
	concrete surfaces and walls before plastering. Quantity					
	is measured including concrete surfaces -					
	Parapetwalls, Liftwalls, columns & beams.					
	thick (12+8mm) 2 coats in 1:4 cement and river sand					
	mix ratio					
	c) Rates shall include for approved brand water proofing					
	compound shall be mixed with cement mortar for					
	external wall plastering as per manufacturers specifications.					
4.3.1	BELOW GROUND LEVEL					
1)	20mm thick Plastering					
	Both surface of below ground on boundary walls	m ²	138.54			
4.3.2	ABOVE GROUND LEVEL					
1)	Both Side Plastering					
	Both surface of boundary wall	m ²	874.56			
4.3.3	BELOW GROUND LEVEL					
1)	20mm thick Plastering	. 2				
]	Both surface of below ground on Gate walls	m ²	7.68			

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
4.3.4	ABOVE GROUND LEVEL					
1)	Both Side Plastering Both surface of Gate wall	m ²	71.68			
	BILL No: 04 - MASONRY AND PLASTERING					
	TOTAL OF BILL No: 04 - Carried over to summary					
	BILL NO: 05					
5.1	DOORS AND WINDOWS General (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 installation.					
	(c) All Timber door frames shall be treated timber. Rate shall include for Paint/Varnish finish. (d) All louvres, windows and sliding doors shall be 30 micron powder coated aluminium as per details given in Door/Window schedule. (e) All doors and windows shall be accordance with door/window drawing details.					
1) 2)	External D1 W1	no no	1.00 2.00			
	BILL N0: 05 - DOORS AND WINDOWS TOTAL OF BILL No: 05 - Carried over to summary					

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	BILL No: 06		<u> </u>			
	PAINTING					
6.1	General					
	(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 carried in					
	accordance with the Specifications					
	(c)Rate shall include for weather proof paint finish for					
	exterior surfaces of the wall complete including application of two coats of oil based wall sealer and two					
	coats of weather bond paint					
	(d)Rate shall include for putty and paint finish for					
	interior surfaces of the wall and ceilings complete					
	including application of two coats of wall sealer, two					
	coats of putty finish and two coats of emulsion paint					
	finish on top for Interior painting.					
1)	Painting exterior surfaces of External Wall, Columns &	2				
	beams.	m ²	437.28			
	BILL No: 06 - PAINTING					
	TOTAL OF BILL No: 06 - Carried over to summary				I	
	<u>BILL No: 07</u> METAL WORK					
7.1	General General					
'**	(a) Rates shall include for ; all labour in framing,					
	cutting, welding, cleats, baseplates, flanges, screws, nails,					
	bends, and similar complete with grinding, surface					
	smoothening and polish finishes.					
7.2	GALVANIZED STEEL HOLLOW SECTION					
/.2	RAILING WELDED TOGETHER IN BETWEEN					
	THE POSITIONS OF THE EXISTING					
	COLUMNS					
1.0	Steel Gates					
1)	Steel Gate					
	Supply, Fabrication and Fixing Steel Gate as per details	Nos	1.00			
2.0	Aluminium Cladding on Gate					
1)	Cladding					
	Supply and Fixing of aluminium cladding on gate					
	building, as per details. This also includes support					
	structrue if required any.	Nos	1.00			
	DATA N. OF MERCAY WAS SAVE					
	BILL No: 07 - METAL WORK TOTAL OF BILL No: 07 - Carried over to summary					
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Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
8.1	BILL No: 08 ELECTRICAL INSTALLATIONS General (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 shall include for electrical conduits, fittings, equipment and similar all fixings to various building surfaces and also all elecetrical work shall be carried out according to STELCO standards and specifications.					
	 (d) Each Light/ light fixture and its switch is measured as one one point; similarly each fan or each socket outlet is measured as one point; (e) Rates shall include for supply and complete installation, fittings and fixtures. 					
2.1)	ELECTRIC BOARDS					
a	Supply and Installation	nos	1.00			
,	ELECTRIC FIXTURES Solar Powered LED Gate Lights (12W) IP65 ELECTRICAL WIRING	nos	10.00			
1)	2.5mm ² Wiring to Light Points	points	4.00			
,		Points				
	BILL No: 08 - ELECTRICAL INSTALLATIONS					
	TOTAL OF BILL No: 08 - Carried over to summary					

Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	BILL No: 09					
	ADDITIONS					
9.1	<u>General</u>					
	Provision to include quantities as per the drawing					
	which is missed in the bill of quantities.					
	BILL No: 09 - ADDITIONS					
	TOTAL OF BILL No: 09 - Carried over to summary					

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Item	Description	Unit	Qty	MaterialRate	LabourRate	Total
	BILL No: 10 OMISSIONS					
10.1	General					
	Provision to remove the excess quantity given in the					
	bill quantities if any as per the drawing details					
	DILL N. 10 OMEGIONS					
	BILL No: 10 - OMISSIONS TOTAL OF BILL No: 10 - Carried over to summary					
	101AL OF BILL NO; 10 - Carried over to summary					