

BILL NO. 1: PRELIMINARIES AND GENERAL ITEMS

WATER BORNE ABLUTION BLOCK FOR THE SCHOOL

Item	Description	Unit	Qty	Rate	Total
	<p>SUBSTRUCTURE -ALL PROVISIONAL</p> <p>Preamble</p> <p>The substructure has been measured up to including the concrete floor slab</p> <p>the site is assumed to be level and the substructure has been measured accordingly</p> <p>the top of the ground floor slab is assumed to be 300mm above existing ground level</p> <p>The top of the concrete foundation to external walls and main cross walls is assumed to be 1000mm below existing ground level</p> <p>Unless otherwise stated ,all excavations shall be in pickable material and including excavating for working space where applicable</p> <p>The term "reduced level " shall mean the ground level after removal of vegetable soil or the surface level of any filling required</p> <p>The quantities of excavation and disposal within this bill will be found to balance ,the contractor is to allow in his rates for forming temporary spoil heaps,multiple handling etc.as required</p> <p>The contractor's attention is directed to PREAMBLE Notes preceding work section in the superstructure Bills .Such notes are to apply equally to similar work contained in this substructure Bill</p> <p>Clearing of the site has been measured in the External Works Bill</p>				
	DESCRIPTION	UNIT	QTY		
	EXCAVATIONS AND EARTHWORK CON'TD				

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Search for and excavate surface and remove ants,nests ,treat with approval white fumigant , fill in with approved imported fill , well watered and consolidated in layers not exceeding 150mm thick and cart away surplus excavated materias	m ²	150		
Ant treatment to whole of surface of excavations,top of hardcore bed and foundation walls with "Dieldrin 15 as described	m ²	116.91		
excavated oversite 150mm deep to remove top soil wheel to spoil or distance not exceeding 2 meters	m ³	30		
Excavate trench to receive foundation commencing at reduced level and not exceeding 1.50 meters deep	m ³	29		
Extra over excavating in hard rock as described	m ³	2		
Backfilling around foundation	m ³	21		
Disposal of excavated materials off site	m ³	8		
Levelling and compacting bottoms of excavations	m ²	20		
50mm thick sand blinding to bottoms of excavations	m ²	20		
Keep all excavations freee from general water	m ²			
Provide all necessary planking and strutting to faces of excavation as described	Item			
To Collection				
DESCRIPTION	UNIT	QTY		
EXCAVATIONS AND EARTHWORK CON'TD				
Hardcore Filling				
150mm bed hardcore laid and consolidated as described	m ²	24		
From sinking battered sies 410(avarage) X125mm deep and hand packing as described	m ²	4		
Sand blinding				
Sand blinding on top of the hardcore	m ³	2		
Concrete Works				
Reinforced concrete grade 20 as described				

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Foundation in trenches (reinforced with Y12 deformed bars at 200mm cc.	m ³	4		
Reinforced concrete grade 25 as described				
100mm slab bed laid level	m ³	3		
Steel fabric reinforcement to BS 4483 (1969)				
" Conforce" renference 257 or other equal and approvde fabric reinforcement with 150mm side and end laps	m ²	39		
Wrought formwork to produce a smooth finsh on concrete slab edge				
	Item	1		
500 gauge polythene damp proof membrane laid on blinded hardcore with 150mm double taped side and end laps with approved adhensive tape both sides (no allowance made for laps)	m ²	28		
TO COLLECTION				
DESCRIPTION	UNIT	QTY		
BRICKWORK AND BLOCKWORK				
Precast concrete hollow blocks type A (5.0) as described filled solid with plain concrete mix 20/20 bedded end pointed in cement sand mortar				
200mm wall (6")	m ²	27		
SUNDRIES				
1.5M brick force bedded in every two courses (6")	M	97		
Finishing and Decorating				
15mm thick cement sand (1:3)plaster to concrete block wall plinth	m ²	22		
Painting and Decorating				
prepare and apply three coats of black bituminous paint on plastered plinth exceeding 300mm	m ²	10		
TO COLLECTION				
COLLECTION				

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SUBSTRUCTURE-TOTAL CARRIED TO SUMMARY				
DESCRIPTION	UNIT	QTY		
CONCRETE WORK				
PREAMBLE				
Concrete cover to main reinforcement is to be and 25mm for beams etc. Maximum size of aggregate is to be 20mm				
PLAIN IN -SITU CONCRETE				
Reinforced concrete 25/20 as described				
High yield steel bar reinforced as described including all cutting bending hooking and cranking assembling etc. in accordance with the drawings and wiring with and including No. 16 annealed iron binding with and hoisting and low aering anfixing in posion				
12mm bar in beam and linto	kg	120		
10mm bar in beam and linto	kg			
Conforce mesh type 257 fabric reinforcement with 150mm side and end laps including all necessary tying wire and distance blocks (measured net, no allowance made for laps)				
Sawn formwork to reinforced concrete to produce a smooth finish as described				
To soffits of suspended slab	m ²	2		
To edges of suspended slabs	m ³	3		
250 x 50mm precast concrete window sill with a slant of 10° on the outside	m ³	0.44		
CONCRETE WORK - TOTAL CARRIED TO SUMMARY				
DESCRIPTION	UNIT	QTY		
BRICKWORK AND BLOCK WORK				

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<p>PREAMBLE</p> <p>Precast concrete hollow blocks typed A (2.5N/mm²) as described in cement mortar (1:4)</p> <p>200mm wall</p> <p>150mm wall</p> <p>"Brickforce "or other equal and approved brick reinforcedment every third course as described (no allowance made for laps)</p> <p>200mm wide ditto built into 150mm block wall</p> <p>150mm wide ditto built into 150mm block wall</p> <p>Airbricks</p> <p>Air bricks comprising 230 x 190mm square hole pattern precast concrete outer grille with copper gauze from hole in 200mm blockwall and render assumed in cement mortar (1:4) and plastic 230 x 190mm inner grille and make good plaster around (provisional)</p>	<p>m²</p> <p>m²</p> <p>M</p> <p>M</p> <p>pairs</p>	<p>118</p> <p>24</p> <p>135</p> <p>32</p> <p>12</p>		
BRICKWORK AND BLOCKWORK				
TOTAL CARRIED TO SUMMARY				
DESCRIPTION	UNIT	QTY		
<p>ROOFING</p> <p>0.5mm gauge chromadek pre-coated IT4 corrugated galvanised steel roofin sheets with 230mm end laps and 3/4 corrugation side laps fixed in accordance with maufacturer</p> <p>Roofing sheets hooked to Lipped Channels</p> <p>IT4 Ridge capping</p> <p>100x75x2 and 5mm Thick Lipped Channels</p>	<p>m²</p> <p>m</p> <p>m</p>	<p>43</p> <p>8.1</p> <p>65</p>		

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	ROOFING -TOTAL CARRIED				
	TO SUMMARY				
	DESCRIPTION	UNIT	QTY		
	<p>CARPENTRY</p> <p>N.B The contractor is referred also to separate specifications prepared by the Engineers for full descriptions and details</p> <p>STRUCTURAL TIMBER</p> <p>Structural softwood pressure impregnated with preservative as described</p>				
	To Collection				
	DESCRIPTION	UNIT	QTY		
	<p>JOINERY CONT'D</p> <p>DOOR ETC</p> <p>Exterior quality Rosewood with engraving as described</p> <p>44mm door size 825 x 1960mm d1</p> <p>no 2</p> <p>ditto 725 x 1960 (flush doors as d2)</p> <p>no 5</p>				
	TO COLLECTION				
	DESCRIPTION	UNIT	QTY		
	<p>IRONMONGERY</p> <p>Preamble</p> <p>Rates for locks are to include for providing each lock with a pair of keys. Each key shall have an approved plastic or metal label with the name of the room or other necessary identification indelibly marked thereon and attached to the key with a split steel ring</p> <p>Supply and fix the following complete with metal screws finished to match the article described</p>				

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Two lever mortice lock with anodised aluminium lever furniture all as legge 3260/397/86 fixed to hollow core flush doors	no			
Three lever mortice lock with anodised aluminium lever furniture all as legge 326397/86	no	7		
TO COLLECTION				
CARPENTRY ,JONERY and IRONMONERY				
TOTAL CARRIED TO SUMMARY				
DESCRIPTION	UNIT	QTY		
METAL WORK				
DOOR FRAMES				
ZAM 100 Double rebate prssed steel door frames as manufactured by monarch Limited or other equal and approved including a pair of butt hinges welded on adjustable striker plate and rubber buffers primed with one coat of red lead before delivery ,Building in lugs to blockwork.				
Standard pressed 800x2000 steel 2 M double rebate factory finished dipped in red oxide painted gloss emamel paint 3 coats	no	5		
900x2000 steel 2 M double rebate factory dipped in red oxide	no	2		
TO COLLECTION				
DESCRIPTION	UNIT	QTY		
WINDOW FRAMES				
All window shall have opening and fixed sections fitted with standard pattern burglar bars welded to window frames as described				
Supply and fix cottage section window section as mornarch limited or other similar approved primed before delivery including all necessary couplings ,assembling ,Y12 mild steel bars cutting and pinning or plugging and scewing ,building into wall and pointed all round and servicing on completion				
Type w2 overall size 600 x600mm	no	5		
Type w1 overall size 1000 x 800mm	no	3		

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	TO COLLECTION				
	METAL WORK -TOTAL				
	CARRIED TO SUMMARY				
	DESCRIPTION	UNIT	QTY		
	<p>ELECTRICAL INSTALLATION</p> <p>Preamble</p> <p>Source</p> <p>Solar Energy source</p> <p>Regulations and Tests</p> <p>Regulations and tests shall be as set out in the standard specification</p> <p>Type of Installation</p> <p>The installation shall be of the flush mounted PVC conduit type .Conduit may be in the floor screed if required</p> <p>Method of measurement Notes</p> <p>The contractor is deemed to have included inn his rates for cutting and forming holes and chases ,making good all work except ,where such items are specially measured below under "BUILDERS WORK IN CONNECTION WITH ELECTRICAL INSTALLATION"</p>				
	TO COLLECTION	Item	1		
	DESCRIPTION	UNIT	QTY		
	<p>ELECTRICAL INSTALLATION CON'TD</p> <p>The contractor is deemed to have included in his rate for</p> <p>(i) Constance supervision by a supervisor supervisor possessing approved qulification</p>				

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<p>(ii) Protection of the installation until handed over and for taking requisite precautions to protect workmen and the public for electric shock or burn</p> <p>The contractor is deemed to have included for cost of distribution boards and -distribution boards in the rates inserted against the items for supply points .Such distribution boards shall be complete with burgalar bars ,earth and neutral connecing blocks of adquate size,isolators and miniature circuit breakers the whole mounted 1.50 metres above above finished floor level .The contractor should note that the incoming supply upto the Distribution Board is measured elsewhere</p> <p>2 DISTRIBUTION BOARD</p> <p>3 Distribution Board (MCB),labelled 10 way TP and free standing ,comprising :-</p> <p>EARTHING INTALLATION</p> <p>Provide for earth bonding to all isolated pipe work ,waste pipes roots etc</p> <p>Provided for testing the completed installation to the satisfaction of the D.B as described</p>		<p>Item</p> <p>Item</p>	<p>1</p> <p>1</p>		
TO COLLECTION					
ELECTRICAL INSTALLATION-					
TOTAL CARRIED TO SUMMARY					
	DESCRIPTION	UNIT	QTY		
	FLOOR ,WALL AND ROOFING				
	SCREED				

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	<p>Cement and Sand (1:3) screed Finished with a Steel Trowel and laid in one layer</p> <p>40mm thick screed laid level on concrete with vee joints as per drawing.</p> <p>25mm skirting 75mm high on blockwork with core at bottom and vee joint to plater at top</p> <p>WALLS</p> <p>18mm cement and sand(1:4) plaster in one coat with steel trowel finish on the the following</p> <p>Concrete block walls externally</p> <p>Block walls plaster with backing coat for tyrolean (rough cast) externally</p> <p>Concrete block walls internally</p> <p>Plaster to reveal or return not exceeding 100mm wide to reveals</p>	<p>m²</p> <p>m²</p> <p>m²</p> <p>m²</p> <p>m²</p> <p>m²</p> <p>m²</p> <p>m²</p>	<p>27</p> <p>86</p> <p>52</p> <p>6</p> <p>123</p> <p>9</p>		
	FLOOR ,WALL AND ROOFING - TOTAL				
	CARRIED TO SUMMARY				

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	DESCRIPTION	UNIT	QTY		
	<p>GLAZING</p> <p>Glazing to metal with putty as described</p> <p>6mm Clear Glass in glass panes excd 0.10 m2 but not exceeding 0.5m²</p>	m ²	4		
	GLAZING - TOTAL				
	CARRIED TO SUMMARY				
	DESCRIPTION	UNIT	QTY		
	<p>PAINTING AND DECORATING</p> <p>Painting Externally</p> <p>prepare and apply one undercoat and three coats of clear PVA as described</p> <p>Plastered walls</p> <p>To reveals and returns not exceeding 100mm wide</p> <p>Painting -Internally</p> <p>Prepared and apply three coats of clear PVA as described</p>	m ²	175		
		m ²	26		

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Platered walls	m ²	175		
Soffits of suspended slab	m ²	4		
To reveals and returns not exceeding 100mm wide	m ²	12		
Prepare and apply one undercoat three coats of oil gloss as described on				
Platered walls	m ²	175		
Touch up primer and apply one under coat two coats gloss oil paint as decribed on				
Steel windows and barglar bars (both sides measured overall,no deduction made for glass)	m ²	6		
pressed steel frames not exceeding 300mm girth	m ²	4		
Prepare Red Oxide for all metal structures	m ²	4		
Knot,prime stop apply one under coat and two coats gloss oil paint as described on				
General surfaces of flush doors and shelving	m ²	8		

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	PAINTING AND DECORATING-				
	TOTAL CARRIED TO SUMMARY				
	PLUMBING				
	Supply and install squat pan	No.		5	
	Supply and install highlevel CI cistern complete with with down pipe and accessories to allow connection to pan	No.		5	
	Supply and install Urinals	No.		2	
	Other (Supply and install 1/2" GI Pipes)	No.		3	
	Other (Supply and install 3/4" GI pipe)	No.		3	
	Other (Supply and install 1/2" gate valves)	No.		7	
	Other (Supply and install 3/4" gate valves)	No.		2	
	Supply and install concrete heavy duty handwash basin	No.		6	
	Supply and install 1/2" flexible connector	No.		10	
	Supply and install 1/2" bends	No.		6	
	Supply and install 1/2" elbows	No.		4	
	Supply and install 3/4" bends	No.		1	
	Supply and install 3/4" sockets	No.		4	
	Supply and install 3/4" socket union	No.		4	
	Supply and install breeze block	No.		2	
	Supply and install heavy duty garden tap	No.		6	
	Supply and install locking system to include tower bolt and pad lock	No.		4	
	Supply and install toilet roll holder	No.		5	
	Supply and install aluminium handrails complete with fixtures	No.		4	

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	Supply and install shower rose in girl toilet	No.	3		
	PLUMBERING				
	TOTAL CARRIED TO SUMMARY				
	TOTAL SUMMARY				
1	BRICKWORK AND BLOCKWORK				
2	ROOFING				
3	CARPENTRY ,JOINERY AND IRONMONGERY				
4	METAL WORK				
5	ELECTRICAL INTALLATION				
6	FINISHINGS				
7	GLAZING				
8	PAINTING AND DECORATIONS				
9	PLUMBERING				

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	TOTAL CARRIED TO GENERAL SUMMARY				