

## **C. TAKE OFF SHEETS FOR QUANTITY SURVEY**

Draft Bills  
Main Building  
External Works

BILL NO. (1)

DIVISION (2) - SITE WORK

~~AA~~ National Museums

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Item	Description	Quantity	Unit	Rate	Amount
				USD/Cent	USD/Cent
	SITework (CONT'D)				
	02100 - EXCAVATION AND EARTHWORK (CONT'D)				
	02110 - CLEANING (CONT'D)				
	02210 - SITE GRADING (CONT'D)				
	02211 - ROCK REMOVAL (CONT'D)				
	02219 - STRUCTURAL EXCAVATION & BACKFILL (CONT'D)				
	02221 - TRENCHING (CONT'D)				
	02260 - FINISH GRADING (CONT'D)				
	<u>BACK FILLING</u>				
	Imported selected <del>fill</del> <sup>coarse grained granular</sup> material including all necessary <del>compaction</del> complete as per specifications				
A	To make up levels <u>Backfilling</u>	51671 <del>500</del>	m3		
	Imported selected hard-core material complete as per specifications				
B	<u>150</u> <del>200</del> mm thick	781 <del>266</del>	m3		
C	<del>250mm thick, sloping</del>	<del>165</del>	<del>m3</del>		
	<del>Imported selected base course (filter) material complete as per specifications</del>				
D	<del>To planters, as drawing AD54-detail-1</del>	<del>2</del>	<del>m3</del>		
	<del>Imported approved planting soil complete as specification</del>				
E	<del>To planters, as drawing AD54-detail-1</del>	<del>6</del>	<del>m3</del>		
	Imported selected single size coarse <del>backfilling</del> material complete as specifications				
*	To make up levels	1143	M3		
	To Collection			USD	

BILL NO. 1  
DIVISION 3 - CONCRETE

Item	Description	Quantity	Unit	Rate	Amount
				USD/Cent	USD/Cent
	CONCRETE				
	03100 - CONCRETE FORMWORK				
	Extra Over for fairface concrete (Grade 1) finish including positioning of grooves, chamfers, "V" shapes, recesses ...etc., complete as shown on the drawings and as specifications				
* A	To basement walls, externally	3703	m2		
* A	To Ceilings	637	m2		
	03200 - CONCRETE REINFORCEMENT	2848	M2		
	Deformed high yield steel bar reinforcement of characteristic strength $FY=420 \sqrt{N/mm^2}$ — MPa				
	including bending, hooks, tying wires, distance blocks and spacers, complete as per specifications				
B	Various diameters	1446613	kg		
	Deformed mild steel bar reinforcement of characteristic strength $FY=275 \sqrt{N/mm^2}$ — MPa	280 MPa			
	including bending, hooks, tying wires, distance blocks and spacers, complete as per specifications				
C	Various diameters	79,565	kg		
	Wiremesh steel reinforcement including all necessary fixing, distance blocks and spacers, complete as per specifications				
* A	5 mm diameter wire mesh	2942	M2		
	To Collection			USD	

Item	Description	Quantity	Unit	Rate	Amount
				<del>USD/Cent</del>	<del>USD/Cent</del>
	CONCRETE (CONT'D)				
	03251 - EXPANSION & CONSTRUCTION JOINTS				
	Joint Filler <i>compressible joint filler including mastic sealant</i>				
	Polystyrene-filler, 15-kg/m <sup>3</sup> -density, complete as shown on drawings and as per specifications	12			
A	Laid horizontally and vertically, <i>50 mm thick</i>	<del>509</del>	m <sup>2</sup>		
	<del>Watershops.</del>				
	<del>Approved flat dumbbell water stop, type 250FD complete as per specifications.</del>				
<del>B</del>	<del>250 mm wide</del>	<del>29</del>	<del>m</del>		
	03300 - CAST-IN-PLACE CONCRETE				
	03370 - CONCRETE CURING				
	Plain concrete (C 15), <sup>MPa</sup> 15-N/mm <sup>2</sup> at 28 day compressive strength with ordinary Portland cement including all necessary formwork complete as per specifications.				
C	50 mm thick blinding, <del>trowelled smooth</del>	<del>38</del> 325	m <sup>3</sup>		
D	100 mm thick blinding	<del>116</del> 228	m <sup>3</sup>		
<del>E</del>	<del>Beds, laid to slope, to planters as drawing AD54 detail 1</del>	<del>2</del>	<del>m<sup>3</sup></del>		
	<del>Plain concrete (C18), 18 N/mm<sup>2</sup> at 28 day compressive strength with ordinary portland cement including all necessary formwork complete as per specifications</del>				
<del>F</del>	<del>Mass concrete for chairs and the like</del>	<del>5</del>	<del>m<sup>3</sup></del>		
<del>G</del>	<del>Rubble concrete, 70% plain concrete and 30% rubble</del>	<del>100</del>	<del>m<sup>3</sup></del>		
	To Collection			<del>USD</del>	

Item	Description	Quantity	Unit	Rate	Amount
				USD/Cent	USD/Cent
	CONCRETE (CONT'D)				
	03300 - CAST-IN-PLACE CONCRETE (CONT'D)				
	03370 - CONCRETE CURING (CONT'D)				
	Reinforced concrete (C <sup>25</sup> <del>30</del> ), <sup>25</sup> <del>30</del> N/mm <sup>2</sup> at 28 days compressive strength with ordinary Portland cement including all necessary formwork complete <i>as shown on drawings and</i> per specifications				
A	Column bases	884 <del>31</del>	m3		
B	Strip Foundations	605 <del>323</del>	m3		
<del>C</del>	<del>Ditto, curved on plan</del>	<del>30</del>	<del>m3</del>		
	<i>Ditto, 300 mm thick</i>	694	m3		
<del>D</del>	<del>Ground beams</del>	<del>58</del>	<del>m3</del>		
E	Slab on grade, <sup>100</sup> <del>150</del> mm thick	311 <del>214</del>	m3		
*E	<i>Ditto, 200 mm thick</i>	475	m3		
F	Walls, various thicknesses	2877 <del>1218</del>	m3		
<del>G</del>	<del>Ditto, curved on plan</del>	<del>19</del>	<del>m3</del>		
H	Parpet walls	29 <del>80</del>	m3		
J	Drob beams	217 <del>152</del>	m3		
<del>K</del>	<del>Ditto, for frames</del>	<del>265</del>	<del>m3</del>		
L	Isolated beams	7 <del>18</del>	m3		
<del>M</del>	<del>Audditorium beams as drawing SD03, section 28-28</del>	<del>23</del>	<del>m3</del>		
N	Suspended solid slabs, <sup>200</sup> <del>100</del> mm thick, <del>curved on plan, as drawing SD03, Section 29-29</del>	104 <del>66</del>	M3 <del>m3</del>		
P	Ditto, <sup>250</sup> <del>150</del> mm thick	15	m3		
Q	Ditto, <sup>300</sup> <del>200</del> mm thick	821 <del>14</del>	m3		
R	Ditto, <sup>300</sup> <del>250</del> mm thick, <i>sloped</i>	96 <del>738</del>	m3		
	To Collection			USD	



BILL NO. 1  
DIVISION 3  
CONCRETE

Item	Description	Quantity	Unit	Rate	Amount
				USD/Cent	USD/Cent
	CONCRETE (CONT'D)				
	03346 - CONCRETE FLOOR FINISHING				
	Cement and sand <del>levelling</del> screed with hardener "trowelled smooth" complete as shown as drawings and as per specifications				
A	To floors, <del>30 mm thick</del>	4 <del>670</del>	M3 <del>m2</del>		
	<del>Special steel trowelled finish concrete screed complete as shown on drawings and as per specifications</del>				
B	<del>To water tank floors</del>	38	m2		
C	<del>Ditto, to walls</del>	68	m2		
D	<del>Ditto, to soffits</del>	38	m2		
	<i>Protection</i> Cement and sand <del>levelling</del> screed with hardener "trowelled smooth" with liquid surface hardener (non-metallic and dust proof) complete as shown on drawings and as per specifications				
3	<i>20 mm thick</i> To floors, 75 mm thick	141 300	M3 m2		
*	<i>50 mm thick</i>	46	M3		
	To Collection			<del>USD</del>	



# ① Finish

Solid concrete blockwork in cement and sand mortar (1:4) including all cutting, bonding, control and expansion joint, reinforced continuous vertical and horizontal joints, bond beams and reinforced concrete Jamps and lintels to openings complete as shown on drawings and as per specifications

- \* 100 mm thick walls, built against stone cladding 45 M<sup>2</sup>
- \* Ditto, inclined walls 800 M<sup>2</sup>
- \* 150 mm thick walls, internally 220 M<sup>2</sup>
- \* Ditto, built against stone cladding 215 M<sup>2</sup>

(2) 2/24

Dark desert Gold ~~As~~ Nubab stone wall cladding including cement and sand mortar bed and backing, special stones, heads, jamps, sills, external and internal angles, grooves, all necessary fixings, mechanical fixing <sup>system</sup>, wire mesh, fitting, accessories and painting complete as shown on drawings and as per specification

* 50 mm thick, smooth stone wall cladding	4269	M2
* Ditto, Hammered stone wall cladding	3514	M2
* Ditto, inclined wall cladding	2323	M2
* Ditto, To sides & soffits of arches	60	M2
* Ditto, To soffits of Domes	32	M2

A

3

Desert Yellow exclusive

~~Dark desert Gold~~ ~~As~~ Nagaib stone wall cladding including cement and sand mortar bed and backing, special stones, heads, jamps, sills, external and internal angles, grooves, all necessary fixings, mechanical fixings, wire mesh, fitting, accessories and painting complete as shown on drawings and as per specification ]

* 30 mm thick, mattarbeh finish wall cladding	1481 M <sup>2</sup>
* Ditto, natural layers stone wall cladding	850 M <sup>2</sup>
* Ditto, base cladding	140 M <sup>2</sup>
* Ditto, soffits cladding	85 M <sup>2</sup>
* Ditto, to sides and soffits of arches	155 M <sup>2</sup>
* Stone cornice, <sup>overall size 140 mm <sup>thick</sup> x 250 mm high</sup> <del>250 mm high overall</del>	27 M
* Honed stone wall neich overall size 1000 mm wide x 1750 mm high x 450 mm deep.	2 No.

4

Rose. (similar to stone of Petra ruins)  
~~Dark desert Gold~~ ~~to~~ Nugab stone wall cladding  
including cement and sand mortar bed and backing,  
special stones, heads, jambs, sills, external and  
internal angles, grooves, all necessary fixings,  
mechanical fixings, wire mesh, fitting, accessories  
and pointing complete as shown on drawings  
and as per specification.]

- \* 30 mm thick, Honed finish wall cladding 150 M<sup>2</sup>
- \* ~~Ditto~~ 50 mm thick, Rough finish wall cladding 60 M<sup>2</sup>
- \* ~~Columns~~ Balestars columns including  
base and crown ~~top~~ head size  
1200 mm ~~girth~~ External girth x 4800 mm ~~approx~~ height  
2 No.
- \* Circular column size 300 mm dia. x  
3500 mm high 4 No.

Double faced

↓ Rubble stone walls including ~~all necessary~~  
cement and sand mortar bed and  
backing, all necessary fixing, fittings,  
accessories and pointing complete as shown  
on drawings and as per specification.]

- \* Wall, 800 mm thick overall 25 M<sup>2</sup>

Item	Description	Quantity	Unit	Rate		Amount	
				USD/Cent		USD/Cent	
MASONRY (CONT'D)							
04455 - NATURAL MARBLE <del>GRANITE</del> (CONT'D)							
<del>First quality</del> <sup>✓</sup> <del>marble vanity unit</del> <sup>✓stet</sup> consisting of 30 mm thick marble counter tops, 100 mm high x 30 mm thick marble back splash, 30 mm thick <del>marble</del> <sup>stet</sup> fascia, all necessary fixings, framing system, fittings accessories and decoration complete as shown on drawings and as per specifications							
A	Vanity unit, size 600 mm wide x 1400 mm long with cutout for <del>one</del> <sup>two</sup> basins	2	No.				
T	Ditto, size 600 mm wide x 1700 mm long with cutouts for two basins	1	No.				
First quality "Italian Type" marble urinal dividers comprising 30 mm thick marble panels fixed to wall with 50 x 50 x 5 mm thick stainless steel angles complete as shown on detail drawing No. AD73 and as per specifications							
B	Urinal divider, overall size 350 mm wide x 1300 mm high	14	No.				
*	Ditto, size 600 mm wide x 2000 mm long with cutouts for two basins	1	No.				
T	Ditto, size 600 mm wide x 2500 mm long with cutouts for three basins	2	No.				
*	Ditto, size 600 mm wide x 2500 mm <sup>overall length</sup> obliqued end cut, with <del>two</del> cutouts for three basins	1	No.				
*	Ditto, size 600 mm wide x 2870 mm long, with cutouts for four basins	1	No.				
T	Ditto, size 600 mm wide x 2915 mm long, with cutouts for four basins	1	No.				
*	Ditto, size 600 mm wide x 3300 mm long, with cutouts for three basins	1	No.				
*	Ditto, size 600 mm wide x 4450 mm long, with cutouts for six basins	To Collection					
<del>Palastinian Cultural Center - Ramallah</del> <del>4413</del> <del>2.3</del>		2	No.				
marble top above urinal dividers, 1200 mm wide		17	M				

→ Divider at handicapped toilet, overall size 600 mm wide x 1250 mm high

USD

Item	Description	Quantity	Unit	Rate	Amount
				USD/Cent	USD/Cent
	<b>MASONRY (CONT'D)</b>				
	<b>04455 - NATURAL MARBLE / GRANITE (CONT'D)</b>				
	First quality "Rosa or Baveno Type" Italian granite floor tiles on and including cement and sand mortar bed, sand fill material, cutting, fittings, fixings, grouting and polishing complete as shown on drawings and as per specifications				
A	To floors, 30 mm thick	690	m2		
B	Ditto, laid diagonally	55	m2		
C	Ditto, motif, circular shape, 2700 mm diameter	3	No.		
D	Ditto, 1200 mm diameter	5	No.		
E	Ditto, motif, square shape, size 3000 x 3000 mm	2	No.		
F	Treads, 330 mm wide x 30 mm thick	100	m		
G	Risers, 138 mm high x 20 mm thick	100	m		
H	Skirting, 100 mm high x 15 mm thick	170	m		
	First quality "Rosa or Baveno Type" Italian granite wall cladding on and including cement and sand mortar backing, stainless steel fixations, cutting, fittings, pointing and polishing complete as shown on drawings and as per specifications				
J	To walls and soffits, 20 mm thick	45	m2		
K	To columns, 20 mm thick	15	m2		
L	To circular columns, 20 mm thick	20	m2		
	<b>To Collection</b>			<b>USD</b>	

05161

SPACE FRAME

National Music-

MERO System Space Frame complete including all steel nodes and members, 250mm diameter. ~~pipe~~ Steel columns, 100mm thick sandwich panel roof with thermal insulation, chippings, roof Felt, vapour barrier, separation layer and roof drains free discharge roof drains, all necessary fixings, fittings, accessories and decoration complete as shown on drawings and as per specifications. (Contractor ~~has~~ to submit construction calculation and drawings for Engineer's approval)

space frame

273

m<sup>2</sup>

05500 - MISCELLANEOUS METALS

Security grill rolling shutter  
~~includ~~ of stainless steel pipes  
 including all necessary frames,  
 hardware, fixings, fittings  
 accessories and decoration  
 complete as shown on drawings  
 and as per specification

Steel cover shutters  
 including all necessary  
 steel frames, fixings,  
 fittings, weldings,  
 accessories and  
 decoration complete  
 as shown on drawing  
 and as per specification

Security grill  
 rolling shutter,  
 overall size  
 4500 - - wide x  
 4250 - - high

Steel cover shutter  
 overall  
 type SL 1, size  
 7500 - - long x 750  
 high

No.

2

No.

~~☆~~

Ditto, type SL2,  
overall size  
4900-- long X  
750-- high

1 No.

~~☆~~

Ditto, type  
SL3, overall  
size 4250--  
long X 750--  
high

2 No.

~~☆~~

Ditto, type SL4,  
overall size  
2400-- long X  
750-- high

1 No.

05520 - HANDRAILS & RAILINGS

↑ Powder coated  
 Galvanized steel balustrade comprising 1.5" diameter steel pipe supports, 3" diameter steel pipe handrail including all necessary fixings, fittings, accessories and decoration complete as shown on drawings and as per specifications.

Balustrades

95 m

~~30.0~~

ST1

~~30.0~~

ST2

30. -

ST3

90

28

→ Powder coated

Stainless steel balustrade comprising 3mm thick stainless steel plate, 1.5" diameter stainless steel supporting pipes, ~~powder coated~~ steel flanges, stainless steel ~~rod base~~, 3" diameter timber hand rail including all necessary fixings, fittings, accessories and decoration complete as shown on drawings and as per specifications

Balustrades

163 m

~~4~~ 9.75

At Main Ent. @ 1st floor

113.5

At Main Exh.

2.6

At STS

155.1 x 1.05 = 163

Powder coated galvanized  
 steel handrail comprising  
 3" diameter steel pipe  
 screwed to steel neck, 1.5" ~~diameter~~  
 diameter steel pipe supports,  
 steel flanges, steel roses and  
 plates, including all necessary  
 weldings, fixings, fittings,  
 accessories and decoration  
 complete as shown on drawings  
 and as per specifications

224. M

73.3	ST 1
69.45	ST 2
70.21	ST 3

$$\frac{212.96}{\underline{\quad}} \times 1.05 = \frac{224}{\underline{\quad}}$$
 29

~~powder coated~~

Stainless steel hand rail  
comprising 3mm thick stainless  
steel plate, 1.5" diameter stainless  
steel supporting pipes, stainless  
steel roses, powder coated steel  
flanges, 3" diameter oak  
wood handrail including  
all necessary fixings, fittings,  
accessories and decoration  
complete as shown on  
drawings and as per  
specifications

Handrail

40.0 m

22.0

ST 4

16.10

ST 5

38.10

30

SUNDRIES

size 80mm wide x 10mm thick

Brass divider strip including  
all necessary fixings and  
fittings complete as shown  
on detailed drawings and  
as per specifications

Brass Strip

32 - - m

Assumed Qty

Aluminum divider strip;

size 50-- wide x 5--

thick including all necessary

fixings <sup>and</sup> fittings complete as

shown on drawings and as

per specifications

1400 m ~~100~~

Rooms area  
about 1200-<sup>2</sup>

Assumed qty

The National  
Museum.

~~Ceiling Finish:~~

Steel pipe grid ceiling

system powder coated finish.

including all necessary <sup>supporting system,</sup> fittings

fittings accessories and decorative

complete as shown on  
drawings and as per  
specifications

3082 m<sup>2</sup>

1565

G-01

1.0

1565

Steel pipe grid  
system 3082 m<sup>2</sup>

Collection

1565

1370

2935

1.05 ✓

3081.75

Ceiling Finish.			
Steel pipe grid ceiling system.			
			m <sup>2</sup>
1305.		S-01	
<u>1.0</u>			
		1370.25 ✓	

The National Museum.

stainless steel pergala

comprising ~~3~~ 3" diameter  
and ~~2~~ 2" diameter

stainless steel pipes including  
all necessary fixings, fittings  
and accessories, complete as  
shown on drawings and  
as per specifications

At Courts

85. - m<sup>2</sup>

Assumed

5.5

4. -

7. -

4.5

7.20

3.20

4. -

2. -

84.54



Polish stone counter top,  
~~Complete~~  
 including polished stone  
 facing, block wall backing,  
 mechanical fixation accessories,  
 wooden ~~shelf~~ shelves and  
 drawers, all necessary fixings,  
 fittings, accessories and  
 decoration complete as shown  
 on drawings and as per  
 specifications

Ch oak room  
 counter, overall  
 size 2380mm x  
 800mm wide x  
 1100mm high  
 with ~~metal~~  
 swinging door.

1 No.

Tickets office  
 counter, overall  
 size <sup>4200 long</sup> ~~1720~~ <sup>1100</sup> ~~440~~ mm wide  
 x 1250mm high

~~Ditto~~ <sup>Room</sup>  
 Security Counter  
~~overall size~~

Ditto, to  
 Security room  
 reference G-85

1 No.

1 No.

Ditto, to  
 Security office  
 reference S-04

1 No.

\*

Security office  
Counter, overall  
size 3150--  
x 600-- x 1250--  
high, room  
reference G-39  
1 No.

\*

\*

Restaurant  
Counter, overall  
~~size 4350--~~  
L-shaped,  
overall size  
4350/1800--  
x 600-- wide  
x 1150-- high  
1 No.

Wooden counters, including wooden shelves and drawers, counter top, all necessary fixings, fitting, hardware, accessories and decoration complete as shown on drawings and as per specifications.

Library Counter,  
overall size 2000 X 600 X 750 mm high

1 No.

~~Kitche~~

Restaurant Counter  
L-shaped,  
overall size  
4350/1800 mm X  
600 mm wide X  
1150 mm high

1 No.

**BILL NO. 1**  
**DIVISION 7 - THERMAL & MOISTURE PROTECTION**

Item	Description	Quantity	Unit	Rate	Amount
				USD/Cent	USD/Cent
<b>THERMAL &amp; MOISTURE PROTECTION</b>					
	<b>03300 - CONCRETE</b>				
	<i>foam</i> <del>Perlite</del> concrete screed complete as shown on drawings and as per specifications				
A	To roofs, <del>150 mm thick</del> , sloping	387 <del>1840</del>	M3 m2		
	Trowelled smooth" cement and sand leveling screed complete as shown on drawings and as per specifications				
	To roof, 20 mm thick <i>topping</i> protection layer	77 <del>1840</del>	M3 m2		
C	Triangular fillet, size 50 x 50 mm	622	m		
<b>07111 - WATERPROOFING FOR UNDER GROUND WORKS</b>					
	Approved 4 mm thick torch applied waterproofing membrane sheet complete as shown on drawings and as per specifications				
D	Laid horizontally	6745 <del>1329</del>	m2		
E	Laid to-slope	658	m2		
F	Laid vertically	4568 .637	m2		
	<del>Two coats of cold bituminous coating (Solvent Base) complete as shown on drawings and as per specifications</del>				
G	Laid horizontally	600	m2		
H	Laid vertically	1400	m2		
<b>07120 - FLUID APPLIED WATERPROOFING</b>					
	Fluid applied waterproofing membrane coating complete as shown on drawings and as per specifications				
J	Horizontally <sup>T</sup> to wet areas	399 <del>155</del>	m2		
K	To planters	35	m2		
	To collection	40			
				USD	

Reinforced concrete screed ~~complete~~ complete as shown on drawings and as per specifications including triangular fillet  
\* To roofs 581 M3

including mastic sealant where necessary

BILL NO. 1  
 DIVISION - 7  
 THERMAL &  
 MOISTURE  
 PROTECTION

Item	Description	Quantity	Unit	Rate	Amount
				USD/Cent	USD/Cent
	THERMAL & MOISTURE PROTECTION (CONT'D)				
	07181 - ELASTOMERIC WATER PROOFING SYSTEMS				
	<del>Polyurethane elastomeric water proofing coating complete as shown on drawings and as per specifications.</del>				
	<del>Horizontally, below slab on grade</del>	<del>1329</del>	<del>m2</del>		
B	<del>Laid to slope</del>	<del>658</del>	<del>m2</del>		
	<i>Elastomeric cement with acrylic base</i> <del>Cement base waterproofing membrane coating complete as shown on drawings and as per specifications</del>				
	<i>waterproofing coating, 2 coats including glass cell backing cord and mastic sealant</i>				
C	To <del>concrete</del> walls, externally	<del>3820</del>	m2		
	<del>07211 - BOARD INSULATION</del>				
	<del>"Sound-sorba" material or approved equal including all necessary fixings complete as shown on drawings and as per specifications</del>				
D	To concrete soffits	835	m2		
	<i>Polythene sheet waterproofing complete as shown on drawings and as per specifications</i>				
*	<i>Under slab on grad</i>	2942	M2		
		41	To collection	USD	



BILL NO. 1  
 DIVISION - 7  
 THERMAL &  
 MOISTURE  
 PROTECTION

Item	Description	Quantity	Unit	Rate	Amount
				USD/Cent	USD/Cent
	THERMAL & MOISTURE PROTECTION (CONT'D)				
✓	07212 - ROCK WOOL INSULATION				
	50 mm thick high density (60 kg/m3) rockwool thermal insulation including all necessary fixings complete as shown on drawings and as per specifications				
A	To external walls	<del>1630</del>	m2		
	<del>07213 - BATT INSULATION</del>				
	<del>50 mm thick rolled out batt insulation</del>				
	<del>"Dunlop" or equivalent including all necessary</del>				
	<del>fixings complete as shown on drawings and as</del>				
	<del>per specifications</del>				
B	To roof, under machine bases	310	m2		
	07535 - MODIFIED BITUMEN ROOFING MEMBRANE				
	4 mm thick touch applied bitumen membrane waterproofing sheet including all necessary fixings, complete as shown on drawings and as per specifications				
	<i>2 layers</i>				
	<i>closed cell backing cordle and mastic sealant and</i>				
C	<del>To</del> Horizontally main roofs	3689 <del>2150</del>	m2		
D	Vertically to roofs	125	m2		
	<i>Solar - shield heavily textured aluminum sheet with self-adhesive including all necessary fixings and fittings complete as shown on drawings and as per specifications</i>	1421	M2		
	43 To collection			USD	

3	Walls finish		
	Acrylic emulsion paint.		
			2166 m <sup>2</sup>
	1105.96 <u>1.0</u>	Ground	
	940.54 <u>1.0</u>	First	
	16.15 <u>1.0</u>	second	
	<hr/>		
		2062.65 * 1.05 =	
		2165.8	

The National  
museum.

Dig no.	Notes	Factor	Length m	Width m	Area m <sup>2</sup>	Total	Height m	Total m <sup>3</sup>
04/001L	G-04		8.66			8.66	3.00	25.98
04/002L	G-06		29.29			29.29	3.75	109.84
04/003L	G-08		12.98			12.98	2.80	36.34
04/004L	G-11		12.81			12.81	2.80	35.87
04/005L	G-12		48.30			48.30	2.80	135.24
04/006L	G-13		59.42			59.42	3.75	222.83
04/007L	G-14		9.52			9.52	3.75	35.70
04/008L	G-15		82.45			82.45	3.75	309.19
04/009L	G-19		8.79			8.79	2.40	21.10
04/010L	G-27		16.10			16.10	2.40	38.64
04/011L	G-30		13.75			13.75	2.40	33.00
04/012L	G-32		17.34			17.34	2.80	48.55
04/013L	G-33		9.51			9.51	2.80	26.63
04/014L	G-39		9.66			9.66	2.80	27.05
<b>04/</b>			<b>338.58</b>					<b>1105.96</b>
						<b>338.58</b>		<b>1105.96</b>
<b>nationa</b>								

WALLS OF FIRST FLOOR (A-EI) on 2.5 thk MORTAR PLASTERING) Drawing No. A104

Dig no.	Notes	Factor	Length m	Width m	Area m <sup>2</sup>	Total	Height m	Total m <sup>3</sup>
07/001L F3			114.46			114.46	2.40	274.70
07/002L F4			35.36			35.36	2.80	99.01
07/003L F5			14.97			14.97	2.80	41.92
07/004L F6			23.60			23.60	2.80	66.08
07/005L F7			26.19			26.19	2.80	73.33
07/006L F8			18.36			18.36	2.80	51.41
07/007L F9			12.88			12.88	2.80	36.06
07/008L F10			12.53			12.53	2.80	35.08
07/009L F11			25.10			25.10	2.80	70.28
07/010L F12			9.38			9.38	2.40	22.51
07/011L F14			70.90			70.90	2.40	170.16
<b>07/</b>								<b>298.03</b>
						<b>363.73</b>		<b>940.54</b>

nationa

1

29/02/00

national museum  
 WALLS OF SEC. FLOOR (A-EM) ON 2.5THK MORTAR PLASTERING) Drawing No. A105

Dig no.	Notes	Factor	Length m	Width m	Area m <sup>2</sup>	Total	Height m	Total m <sup>3</sup>
10/001L S3			1.13			1.13	2.80	3.16
10/002L S4			1.90			1.90	2.80	5.32
10/003L S6			1.59			1.59	2.80	4.45
10/004L S7			1.15			1.15	2.80	3.22
<b>10/</b>							<b>11.20</b>	
						<b>5.77</b>		<b>16.15</b>

national

1

07820 - METAL FRAMED SKY LIGHT

Metal framed skylight consisting of ~~space frame~~ at upper and lower levels, fixed double glazing, 6mm clear glass, and 6mm thick tempered glass, gutter with insulation, aluminum frame, flashing, ~~flat aluminum sheeting sandwich panel~~ including all necessary rods, anchor bolts, welding, mastic, fixings, fittings, accessories and painting complete as shown on drawings M11, M12, M13 and as per specifications (~~the contractor shall provide complete system, calculation and shop drawings~~).

~~Space Frame and Skylight s~~

24  
~~185~~

m2

~~280~~

24 m<sup>2</sup>

SKY Light

10.60

2.20

2332

BILL No. 1

The National Museum

DIVISION 8-DOORS AND WINDOWS

08110 - Steel Doors & Windows

08111 - Standard Steel Frames

Steel doors comprising steel frames, sub frames, vision glass panels, louvers, trims, flashings, hardware, push handle, weldings, fixings, fittings, accessories and decoration complete as shown on drawings and as per specification

Ditto, door type SD 02, size 1000x2250 mm high mm wide

9  
8 No.

8

2 Basement

1

additional  
As per Eng. Om.  
query sheet  
answers

Single leaf door ~~ref. type~~ type SD 01, size 1000x2250 mm high mm wide

11 No.

Door ref. SD 01

3

2 Basement

3

2 G.F.

2

2 F.F.

3

2 2/F

11

49

8

Ditto, double leaf  
door-type SDO3,  
size 2000mm wide X  
2250-- high

2

No.

Ditto, ~~double~~  
~~leaf~~ door-type  
SD04, size 1800--  
wide X 2250-- high

5

No.

1

At basement

1

At Ground F.

5

At Basement

2

5

Ditto, door type  
SD05, size  
2250 x 2250 wide x  
2250 -- height

7. No.

Ditto, door type  
SD06, size  
1400  
2250 -- wide  
x 2250 -- height

3 No.

4

At Basement

1

At G.F.

1

At F.F.

At

At

Ditto, door type  
SD07, size  
1300mm wide  
X 2250 -- high

2 No.

Ditto, single  
leaf door type  
SD08, size  
1000 -- wide  
X 2250 -- high  
with ~~pull~~  
push latch

1 No.

Ditto, double  
leaf door, ~~type~~  
type SD09,  
size 2000mm  
wide x 2250 mm  
high with push  
latch and over  
head door closer

1 No.

Ditto, single  
leaf door type  
SD40, size  
1000 mm wide  
x 2250 mm high  
with over head  
closer

1 No.

Ditto, double  
leaf door type  
SD 11, size 1800--  
wide X 2250--  
high with ~~door~~  
over head door  
closer

2 No.

Ditto, single  
leaf door type  
AP 01, size  
800-- wide X  
2250-- high

7 No.

Steel doors comprising powder coated galvanized steel pipes 3" diameter horizontally and 2" diameter vertically including all necessary hardware, weldings, fixings, fittings, accessories and decorations — complete as shown on drawings and as per specifications

Ditto door type SD13, overall size 2000 — wide x 11000 — high

1 No.

Double leaf door type SD12, overall size 2500 — wide x 7750 — high

1 No.

Ditto door type SD14, overall size 2000 — wide x 3750 — high

1 No.

Ditto, door type  
SD15, overall size  
1800-- wide x  
3750-- high

1

No.

Ditto, door  
type SD16,  
overall size  
2000-- wide  
x 2500mm high

1

No.

08210 - WOOD DOORS AND FRAMES

Decorative wood doors including wood or steel door frames, wooden subframes, glazing and architraves, all necessary fixings, fittings, accessories, hardware and decoration complete as shown on drawings and as per specifications

\*

Ditto, door type TD03, size 1000 mm wide X 2250 mm high

20 No.

Single leaf door type TD01, size 900 mm wide X 2250 mm high with overhead door closer

\*

Ditto, door type TD05, size 2250 mm wide X 2250 mm high

22 No.

6 No.

\*

door Ditto, type TD02 size 600 mm wide X 1800 mm high

\*

Ditto, single leaf door, type TD06, size 1000 mm wide X 1800 mm high

43 No.

2 No.

~~\*~~

Ditto, double leaf door, type TD07, size 2400 -- wide X 3500 -- high with half circle shaped fixed top panel

~~\*~~

Ditto, single leaf door, type TD10, size 1000mm wide X 2500 -- high

2 No

1 No.

~~\*~~

Ditto, four leaf door, type TD08, overall size 4800 -- wide X 5000 -- high

~~\*~~

Ditto, double leaf door, type TD11, size 2000mm wide X 3500mm overall high

1 No.

1 No.

~~\*~~

Ditto, double leaf door, type TD09, size 1300 -- wide X 2250 -- high with overhead closer

Ditto, single leaf door, type TD12, size 1000mm wide X 3500 -- overall high

3 No.

4 No.

~~✗~~

Ditto, double leaf door, type TD13, size 1800mm wide x 2500mm high

2 No.

~~✗~~

Ditto, door type TD16, overall size 7832mm wide x 3500mm high

1 No.

~~✗~~

Ditto, door type TD14, size 2000mm wide x 2500mm high

1 No.

~~✗~~

Ditto, four leaf door, type TD15, overall size 4800mm wide x 4500mm high

1 No.

08800 - GLAZING

→ 12mm thick  
 Tempered glass doors and screens including all necessary embed in walls aluminium frames hardware, glazing, subframes, trims, flashings, mastic sealant and weather stripping complete as shown on drawings and as per specifications

Double leaf door  
~~type ref.~~  
~~Reference~~ TG01,  
 overall clear size 2400mm wide x 3500mm high with half circle shape top panel

1 No.

Z-shape  
 ref.  
 screen ~~type~~

TG02, overall clear size 9630<sub>mm</sub> wide x 3500mm high, including double leaf door

1 No.

12mm thick tempered glass  
 panels, ~~and~~ including  
 all necessary ~~and~~ stainless  
 steel supports, fixings,  
 fittings and accessories  
 complete as shown on drawings  
 and as per specifications

~~60~~  
~~56~~ m<sup>2</sup>

Tempered glass  
 12mm thick  
 @ Main Entrance  
 1st floor.

4 / 9.5  
 1.45

1.25  
 1.45

At Stair No. 4  
 Drg A304

569

08835 MIRRORS

6 mm thick mirrors,  
including all necessary  
fixings, fittings and  
accessories complete as  
shown on drawing and  
as per specifications

Mirrors, to Toilets

36. — m<sup>2</sup>

1.65  
1.1

B23

3.25  
1.10

B22

4.40  
1.10

B10

4.55  
1.10

G09

2/ 2.85  
1.10

G24 + G23

2/ 1.60  
1.10

G17 + G18

2.5  
1.10

G38

27.775

62

2.15  
1.10

G35

2.5  
1.10

F02

2. —  
1.10

F01

Collect.

7.315

27.775

35.09

7.315

SUNDRIES

12 mm thick glass stiffeners  
including all necessary  
fixings, fittings and  
adhesive complete  
as shown on drawings  
and as per specifications

Telephone glass  
stiffeners, 200mm  
wide

6 m

(Assumed)

08520 - ALUMINUM WINDOWS AND DOORS

Double glazed <sup>anodized</sup> ~~powder coated~~  
aluminum windows, doors

and ~~frames~~ <sup>screens</sup> consisting of  
6mm thick tempered glass

each pane, frames, subframes,  
trims, flashings, mastic  
sealant, weather stripping

flyscreens, all necessary  
fixings, fittings, accessories

and hardware complete  
as shown on drawings  
and as per specifications

Ditto, type AW02,  
size 3370--  
wide X 3250--  
high

13 No.

Ditto, type AW03,  
~~size~~ overall  
size 3370 mm  
wide X 3200mm  
high, with  
double leaf door

2 No.

Aluminum window  
type AW01, size  
1500 mm <sup>wide</sup> X 1500--  
high, with ~~two~~  
options opening directions

13 No.

~~Ditto, type~~  
Aluminum door  
type AD01,  
overall size  
7450mm wide  
X 2450 mm high  
with double leaf  
door

2 No.

~~0~~

Ditto, door type  
AD02, overall  
size 4880mm  
wide  
~~long~~ X 2450mm  
high. (Fixed)

1 No.

~~\*~~

~~Ditto~~

~~\*~~

Ditto, door type  
AD03, overall  
size 2390mm  
wide X 2450mm  
high. (Fixed)

1 No.

~~\*~~

Ditto, door type  
AD04, overall  
size 8000mm  
wide X 2450mm  
high, with double  
leaf door.

2 No.

<p>Double glazed anodized aluminum curtain walls <del>comprising</del> including frames, subframes, glazing, stainless steel brackets and plates, trims, flashings, mastic sealant, weather stripping, all necessary fixings, fittings, accessories and hardware complete as shown on drawings and as per specifications</p>	<p>X</p>		<p>Ditto, type CW2, approximate area of 146 m<sup>2</sup></p> <p>1 No.</p>
<p>X</p> <p>Aluminum curtain type CW1, approximate area of 252 m<sup>2</sup> with double leaf door</p> <p>1 No.</p>	<p>X</p>		<p>Ditto, type CW3, approximate area of 100 m<sup>2</sup></p> <p>2 No.</p>

BILL NO. 1  
DIVISION 9 - FINISHES

Item	Description	Quantity	Unit	Rate	Amount
				USD/Cent JD	USD/Cent JD
	<b>FINISHES</b>				
	<b>09220 - PORTLAND CEMENT PLASTER</b>				
	25 mm thick cement and sand plastering including all necessary casing stops, angle beads and wire mesh complete as shown on drawings and as per specifications				
A	To concrete or block walls, <del>internally</del>	2436			
	<del>To walls, under ceramic wall tiles</del>	<del>7535</del>	m2		
B	To concrete or block walls, externally	7635	M2		
		25	m2		
C	To concrete soffits, internally	255			
	<del>sloping</del>	2092	m2		
D	To concrete soffits, externally	170			
	<del>50</del>		m2		
	<del>20 mm thick cement and sand plastering including all necessary casing stop, angle beads, and wire mesh, complete as shown on drawings and as per specifications</del>				
E	To concrete or block walls, externally	345	m2		
F	To walls, under ceramic wall tiles	610	m2		
	<del>External rendering including all necessary casing stops, angle beads and wire mesh complete as shown on drawings and as per specifications</del>				
G	To parapet walls, externally	510	m2		
	<del>Cement and sand plastering on and included Expanded metal Lath <del>with</del> all necessary casing stops, angle beads complete as shown on drawings and as per specifications</del>				
*	To Walls externally	9726	M2		
	<del>To collection</del>			JD	
				USD	

BILL NO. 1  
DIVISION - 9  
FINISHES

Item	Description	Quantity	Unit	Rate	Amount
				USD/Cent	USD/Cent
	<b>FINISHES (CONT'D)</b>				
	<b>09260 - GYPSUM BOARD FALSE CEILING SYSTEM</b>				
	Gypsum board suspended ceiling including suspension system, access panels, fixings, fittings, accessories, and skim coat and decoration complete as shown on drawings and as per specifications				
	<i>forming bulkheads, coffers and coves</i>				
	<i>Gypsum board water "water repellent" suspended ceiling including suspension system, access panels, fixings, fittings, accessories and skim coat complete as shown on drawings and as per specifications</i>				
A	Horizontally, 2 Layers Gypsum board	1936	m2		
	<del>Gypsum cornice L shape overall size 300 x 150 mm</del>	<del>5</del>	<del>m</del>		
	<del>Ditto, L shape overall size 750 x 1000 mm</del>	<del>19</del>	<del>m</del>		
	<del>Decorative gypsum board suspended panels, including all necessary fixings, fittings, accessories, skim coat and decoration complete as shown on drawing AP04 and as per specifications</del>				
C	Auditorium panels	115	m2		
D	Ditto, curved on plan	40	m2		
	<del>"Fibrous Plaster" gypsum cornice, trim pieces and moulds including all necessary fixings and decoration complete as shown on drawings and as per specifications</del>				
	<del>Cornice, to room GR18</del>	<del>17</del>	<del>m</del>		
F	<del>Ditto, 150 mm high</del>	<del>35</del>	<del>m</del>		
G	<del>Ditto, 200 mm high, complete as shown on detail drawing No. AD12 detail 4</del>	<del>25</del>	<del>m</del>		
H	<del>Ditto, circular shape, size 150 x 150 mm complete as shown on detail drawing No. AD12 detail 5</del>	<del>10</del>	<del>m</del>		
J	<del>Trim piece, 80 mm high, complete as shown on detail drawing No. AD12 detail 4</del>	<del>25</del>	<del>m</del>		
K	<del>Mould, 600 mm high, complete as shown on detail drawing No. AD12 detail 2</del>	<del>40</del>	<del>m</del>		
L	<del>Ditto, size 775 mm wide x 600 mm high (overall), complete as shown on detail drawing No. AD12 detail 3</del>	<del>10</del>	<del>m</del>		
	<b>To collection</b>			<b>USD</b>	

68

BILL NO. 1  
DIVISION - 9  
FINISHES

Item	Description	Quantity	Unit	Rate	Amount
				USD/Cent	USD/Cent
FINISHES (CONT'D)					
09310 - CERAMIC TILES					
First quality "anti slip" <del>heavy-duty</del> ceramic floor tiles on and including cement and sand mortar bed, sand fill material, cutting, fittings, trims, grouting and cleaning complete as shown on drawings and as per specifications					
A	To floors, size <sup>200 200 6</sup> 300 x 300 x 8 mm thick	334 <del>155</del>	m2		
<del>B</del>	<del>Ditto, laid diagonally</del>	<del>5</del>	<del>m2</del>		
<del>C</del>	<del>Skirting, 100-mm-high</del>	<del>188</del>	<del>m</del>		
First quality glazed ceramic wall tiles including all necessary fixings, accessories, adhesive, pointing and cleaning, complete as shown on drawings and as per specifications					
D	To walls, size 200 x 200 x 6 mm thick ✓	7635 <del>610</del>	m2		
09410 - TERRAZZO TILES					
Terrazzo floor tiles on and including cement and sand mortar bed, sand fill material, cuttings, fittings, trims, accessories, grouting and polishing complete as shown on drawings and as per specifications					
E	To floors, size <sup>250 250 25</sup> 300 x 300 x 30 mm thick	441 <del>780</del>	m2		
F	Ditto, laid diagonally <sup>Size 400 x 400 x 40 mm thick</sup>	1192 <del>12</del>	<del>M2</del> m2		
G	Skirting, 100 mm high	682 <del>730</del>	m		
*	To treads, 30 mm thick	77	M2		
x	To Risers, 20 mm thick	46	M2		
To collection				USD	

BILL NO. 1  
 DIVISION - 9  
 FINISHES

Item	Description	Quantity	Unit	Rate	Amount
				USD/Cent	USD/Cent
FINISHES (CONT'D)					
	09410 - TERRAZZO TILES (CONT'D)				
	Cast in place composite terrazzo <sup>flooring</sup> steps consisting of treads and risers on and including sand fill material, grouting, polishing and fixings, complete as shown on drawings and as per specifications			* 20 mm thick, to floors	2719 M <sup>2</sup>
				* Ditto, to landings	175 M <sup>2</sup>
				* Skirting, 20 mm thick	761 M <sup>2</sup>
				* Skirting for staircases	221 M <sup>2</sup>
A	Composite steps, 300 mm wide x 170 mm high	11	m		
09510 - ACOUSTICAL CEILINGS					
	Acoustic tiles suspended ceiling including suspension system, access panels, fixings, fittings and accessories complete as shown on drawings and as per specifications				
B	Horizontally, size 600 x 600 mm <sup>regular edge</sup>	<del>792</del> 814	m <sup>2</sup>		
	<del>Auditorium reflector acoustic panels comprising 15 mm thick curved gypsum board panels, 100 mm thick rockwool batt laid in tray, 3 mm thick plywood battens, suspended chains, all necessary fixings, fittings and accessories complete as shown on detail drawing No. AD10 and as per specifications.</del>				
C	Acoustic reflector panels (measured flat)	370	m <sup>2</sup>		
To collection				USD	

Item	Description	Quantity	Unit	Rate	Amount
				USD/Cent	USD/Cent
FINISHES (CONT'D)					
09557 - HARDWOOD FLOORING					
	<p><i>strip</i></p> <p>Hard wood flooring comprising 25-x-100-mm hardwood planks fixed to 75-x-75-mm wood joists at 450 mm centers, including all necessary wood blocking, fixings, fittings, accessories and decoration complete as shown on detail drawing No. DD02 and as per specifications</p>				
A	To floors	<del>310</del> 346	m2		
	<p><del>Front stage steps comprising 22-mm thick block board steps, hardwood trims fixed to 22-mm thick blockwood stair jambs with mahogany veneer including all necessary fixings fittings, accessories, wood blocking and decoration complete as shown on detail drawing No. AD22 and as per specifications</del></p>				
B	Steps, 300-mm wide x 750-mm long	6	No.		
09570 - WOOD PANEL SUSPENDED CEILING					
	<p><i>paneling false ceiling</i></p> <p>Hardwood timber finish ceiling grids and cornice including all necessary fixings, fittings, accessories, trims and decoration complete as shown on detail drawing No. AD12 detail 6 <del>5</del> <i>specification</i></p>				
C	<p><i>Horizontally</i></p> <p>Ceiling grids, U-shape, size 500-x-200-mm-high</p>	<del>40</del> 91	m		
D	Cornice, 150 mm high, complete as shown on detail drawing No. AD12	13	m		
	To collection			USD	
	71				

Item	Description	Quantity	Unit	Rate	Amount
				USD/Cent	USD/Cent
FINISHES (CONT'D)					
	09610 - STONE FLOORING				
	Stone floor tiles on and including cement and sand mortar bed, sand fill material, cutting, fittings, fixings and grouting complete as shown on drawings and as per specifications				
	* Floor tiles, 30 mm thick	46	M2		
A	Floor tiles, patterned type, 30 mm thick	4147	m2		
	* Landings, 30 mm thick	44	M2		
B	Stone-steps, 330-mm-wide-x-170-mm-thick-(overall)	80	m		
	09650 - RESILIENT FLOORING				
	Vinyl flooring including adhesive material complete as shown on drawings and as per specifications				
C	To floors	552	m2		
	09695 - CARPETING WITH UNDERLAY				
	Carpet flooring including adhesive, underlay, cutting and fixings complete as shown on drawings and as per specifications				
	To floors	213 -120	m2		
	Anti-static carpet flooring including adhesive, underlay, cutting and fixings, complete as shown on drawings and as per specifications				
E	To floors	670	m2		
	To collection			USD	



BILL NO. 3  
DIVISION 10 - SPECIALTIES

Item	Description	Qty	Unit	Rate		Amount					
				US\$/Cent		US\$/Cent					
	SPECIALTIES										
0	<del>4455 - MARBLE</del> <del>10162 - LAMINATED TOILET</del> COMPARTMENT  <i>40 thick local marble toilet compartment</i> <del>28mm composite chipboard panel cladding</del> <del>with rough matt melamine resin fixed on</del> <del>aluminum wall connection profile with PVC</del> with stainless steel <del>covering rosette, 16mm diameter anodized</del> <del>aluminum supports including all necessary</del> <del>doors, hardware, fixings, fittings, accessories</del> <del>complete as shown on Detailed D1, D2,</del> <del>D3 drawing A300 and as per specification,</del> (doors measured elsewhere)										
A	Toilet compartment comprising one divider panel size <sup>1400</sup> 1500mm deep x <sup>1800</sup> 2100mm high, front panel size <sup>850</sup> 2000mm long with <sup>1</sup> 2 No. doors openings	1	No.	1500-							
B	Ditto, comprising 2 No. divider panel size <sup>1400</sup> 1900mm deep x <sup>1800</sup> 2100mm high front panel size <sup>3500</sup> 3500mm long with <sup>1850</sup> 2 No. doors openings	4	No.	1700-							
C	Ditto, comprising 2 No. divider panel size <sup>1400</sup> 1900mm deep x <sup>1800</sup> 2100mm high, front panel size <sup>3300</sup> 3300mm long with 3 No. doors openings	2	No.	1900-							
D	Ditto, <sup>3</sup> 3 No. divider panel size <sup>1400</sup> 1500mm deep x <sup>1800</sup> 2100mm high, front panel size <sup>3600</sup> 2000mm long with <sup>4</sup> 2 No. doors openings	2	No.	1500-							
E	Ditto, comprising <sup>3</sup> 2 No. divider panel size <sup>1400</sup> 1900mm deep x <sup>1800</sup> 2100mm high front panel size <sup>3500</sup> 3500mm long with <sup>3700</sup> 3 No. doors openings	1	No.	1700-							
F	Ditto, comprising <sup>4</sup> 2 No. divider panel size <sup>1400</sup> 1900mm deep x <sup>1800</sup> 2100mm high, front panel size <sup>3300</sup> 3300mm long with <sup>5600</sup> 3 No. doors openings	2	No.	1900-							

**BILL NO. 1**  
**DIVISION 10 - SPECIALTIES**

Item	Description	Quantity	Unit	Rate	Amount
				USD/Cent	USD/Cent
<b>SPECIALTIES</b>					
<del>10270 - RAISED FLOORING</del>					
<del>Raised flooring comprising pedestal supporting system, steel heads, steel stringers, steel panels, 30 mm thick chipboard panels, all necessary fixings, and accessories complete as shown on drawings and as per specifications</del>					
<del>A</del>	<del>Raised flooring with vinyl tile finish</del>	<del>70</del>	<del>m2</del>		
<b>10800 - TOILETS AND BATH ACCESSORIES</b>					
<i>Stainless steel finished</i>					
Toilet and bath accessories including all necessary fixings, fittings, and accessories complete as shown on drawings and as per specifications					
<del>A</del>	<del>Toilet roll holder with cover</del>	<del>34</del>	<del>No.</del>		
<del>B</del>	<del>Hand dryer, wall mounted</del>	<del>10</del>	<del>No.</del>		
<del>C</del>	<del>Liquid soap dispenser, basin type</del>	<del>30</del>	<del>No.</del>		
	Sponge tray	22	No.		
D	* dual roll toilet paper dispenser, wall mounted			34	NO
E	* Paper towel dispenser				
F	* Coat hook	10	NO		
G	* Support arm for handicapped	42	NO		
		3	NO		
Total Bill No. 1 - Division 10 - SPECIALIES				Carried to Summary	USD

BILL NO. 1  
DIVISION 12 - FURNISHINGS

Item	Description	Quantity	Unit	Rate	Amount
				<del>USD/Cent</del>	<del>USD/Cent</del>
	FURNISHINGS				
	12690 - DOOR MATS				
	Door mat comprising nylon carpet cover, metal fixings, fittings and accessories complete as shown on drawings and as per specifications				
A	Floor mat, size 2000 mm x 1500 <sup>800</sup> mm	1	✓ No.		
*	Ditto, size 2000 x 1000 mm	1	No		
	Ditto, size, 4900 x 1100 mm	1	No		
	★				
Total Bill No. 1 - Division 12 - FURNISHINGS		Carried to Summary		<del>USD</del>	



DOOR MAT

200 x 80



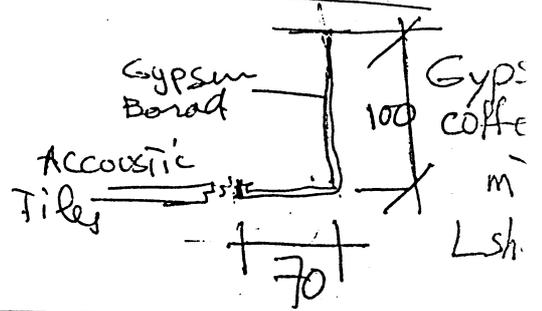
DOOR MAT

490  
~~110~~ X 110

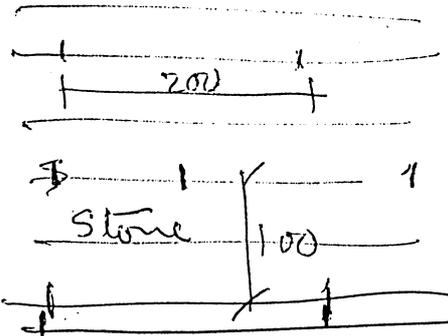


workshop

Foyer B15



(WT. Stone cladding

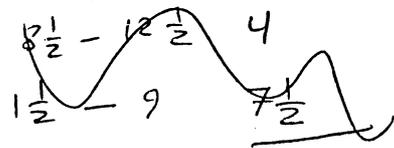


white cement  
with stain less steel  
rod anchor  $\phi 3\text{mm}$   
at 2m  
interval Horizontal  
and @ 1m interval  
vertical.

Bill No. 1 ✓

- Division 2 site works ✓
- 3 concrete ✓
- 4 Stone & Masonary
- 5 Metal ✓
- 6 wood & Plastic ✓
- 7 Thermal ✓ = 4 unit
- 8 Doors & Windows ✓
- 9 Finishes ✓
- 10 specifications ✓
- 12 furn. ✓

Bill No. 2 ✓



**BILL NO. (2)  
EXCTERNAL WORKS**

*National Museum*

**BILL NO. 2**  
**DIVISION NO. 2 - SITEWORK**

Item	Description	Qty.	Unit	Unit Rate	Total Rate
				USD/Cent	USD/Cent
	<b>SITEWORK</b>				
	<b>02110 - CLEARING</b>				
	Site Preparation				
	Clear the site from deleteries materials vegetation, debris, rubbish etc.				
A	Clearing the site generally		Item		
	<b>02219 - STRUCTURAL EXCAVATION AND BACKFILLING</b>				
	Excavation				
	Excavation in any kind of soil, rock ... etc., starting at natural ground levels and removal of surplus excavated materials from site to an approved dumping area complete as per specifications				
B	Reduce level excavation, generally	1500 <del>2759</del>	m3		
<del>C</del>	<del>Water-tank excavations</del>	<del>167</del>	<del>m3</del>		
	Excavation for foundations starting at reduced level and removal of surplus excavated materials from site to an approved dumping area complete as per specifications				
D	Foundation excavations, to sidewalks and boundary walls	1363	m3		
E	Ditto, to ticket room	40	m3		
F	Ditto, to substation room	132	m3		
G	Ditto, to amphitheatre	295	m3		
H	Ditto, to pump-room	18	m3		
	<b>To Collection</b>				
				USD	





BILL NO. 2  
 DIVISION 2  
 SITEWORK

Item	Description	Qty.	Unit	Unit Rate	Total Rate
				USD/Cent	USD/Cent
	SITEWORK (CONT'D)				
	<del>02577 - PAVEMENT MARKING</del>				
	<del>White or colored phosphoric road marking</del>				
	<del>and arrows paint including preparation work</del>				
	<del>and under coats complete as per specifications</del>				
A	Road lines, 100-mm wide	350	m		
B	Arrows, generally	15	No.		
	<del>Subs</del> <i>Rebble</i> Natural stone boulders "different sizes and shapes" complete as shown on drawings and as per specifications				
C	Laid loose <i>over sub on grad to pavement</i> and around planting soil	123	M <sup>3</sup> Item		
				USD	

83 To Collection

**BILL NO. 2**  
**DIVISION 3 - CONCRETE**

Item	Description	Quantity	Unit	Rate	Amount
				USD/Cent	USD/Cent
	<b>CONCRETE</b>				
	<b>03100 - CONCRETE FORMWORK</b>				
	<del>Extra Over for fairface concrete (Grade 1) finish including positioning of grooves, chamfers, "V" shapes, recesses ...etc., complete as shown on the drawings and as specifications</del>				
A	To water tank walls, externally	193	m <sup>2</sup>		
B	To amphitheatre risers	164	m <sup>2</sup>		
	<del>Extra over for "trowelled smooth" concrete finish complete as shown on drawing AG03 and as per specifications</del>				
C	To amphitheatre treads	528	m <sup>2</sup>		
	<del>Extra over for broom concrete finish complete as shown on drawings and as per specifications</del>				
D	To ramps	25	m <sup>2</sup>		
	<b>03200 - CONCRETE REINFORCEMENT</b>				
	Deformed high yield steel bar reinforcement of characteristic strength FY=420 N/mm <sup>2</sup> , including bending, hooks, tying wires, distance blocks and spacers, complete as per specifications				
E	Various diameters, <sup>Site</sup> to side walks, retaining and boundary walls	71500	kg		
		<del>123912</del>	kg		
F	Ditto, to ticket room	3024	kg		
G	Ditto, to substation room	13284	kg		
H	Ditto, to amphitheatre	47088	kg		
J	Ditto, to water tank and pump room	17172	kg		
		<b>To Collection</b>			
				<b>USD</b>	

Palestinian Cultural Center - Ramallah - External Works

Item	Description	Quantity	Unit	Rate	Amount
				USD/Cent	USD/Cent
	CONCRETE (CONT'D)				
	03300 - CAST-IN-PLACE CONCRETE				
	03370 - CONCRETE CURING				
	Plain concrete "C15", 15 <sup>Mpa</sup> N/mm <sup>2</sup> at 28 day compressive strength with ordinary Portland cement including all necessary formwork complete as per specifications				
A	50 mm thick blinding, to amphitheatre toilets and ticket room	219 -5-	m <sup>3</sup>		
B	100-mm-thick blinding, under retaining walls	136	m <sup>3</sup>		
C	Ditto, to ticket room	3	m <sup>3</sup>		
D	Ditto, to substation room	9	m <sup>3</sup>		
E	Ditto, to amphitheatre	28	m <sup>3</sup>		
F	Ditto, to water tank and pump room	13	m <sup>3</sup>		
	Plain concrete (C 18), 18 N/mm <sup>2</sup> at 28 day compressive strength with ordinary Portland cement including all necessary formwork complete as per specifications.				
G	Rubble concrete, 70% plain concrete and 30% rubble, to-substation-room	2	m <sup>3</sup>		
	Reinforced "watertight" concrete (C30), 30 N/mm <sup>2</sup> at 28 days compressive strength with ordinary Portland cement and additive materials including all necessary formwork and special-ties complete as shwon on drawings and as epr specifications				
H	<sup>Mpa</sup> Slab on grade, 150 mm thick Raft Foundation and thicking, to water tank	659 42	m <sup>3</sup>		
J	Walls, various thickness, to water tank	57	m <sup>3</sup>		
K	Suspended solid slab, 300 mm thick, to water tank	30	m <sup>3</sup>		
	To Collection			USD	

Palestinian Cultural Center - Ramallah / External Works



First quality stone works including all special stones, forming grooves, recess and openings voids, all necessary concrete works, reinforcement steel bars, formworks, Mechanical & fixing system, mortar, Pointing, fixing and fitting complete as shown on drawings and as per specifications

\* Decorative stone columns, 50 mm thick stone cladding and 1000 x 1000 x 200 mm thick coping, overall size 1100 x 1100 x 5200 mm high

7 No.

\* Decorative stone museum logo, overall size 6500 mm x 1000 mm x 1000/500 mm high

Items

\* Water fountain, 50 mm thick stone cladding, 500 x 200 mm thick coping and 1500 x 1500 x 400 mm thick sprayed clear waterproofing fountain basin, overall size 3500 x 3500 x 800 mm high

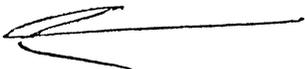
4 No.

\* Planters, 50 mm thick stone cladding, 100 x 50 mm thick coping, overall size 1100 x 1100 x 500 mm high

6 No.

\* Seats, 50 mm thick stone cladding, 1100 x 1100 x 200 mm thick coping, overall size 1100 x 1100 x 500 mm high

6 No.





Item	Description	Quantity	Unit	Rate	Amount
				USD/Cent	USD/Cent
FINISHES (CONT'D)					
09410 - TERRAZZO TILES					
Terrazzo-floor-tiles-on-and-including-cement-and-sand-mortar-bed, sand fill material, cuttings, fittings, trims, accessories, grouting and polishing complete as shown on drawings and as per specifications					
A	To floors, size 300-x-300-x-30 mm thick, to ticket room	29	m <sup>2</sup>		
B	Skirting, 100 mm high, to ticket room	28	m		
C	Ditto, to transformer room	56	m		
D	Ditto, to pump room	16	m		
09610 - STONE FLOORING					
Stone floor tiles on and including cement and sand mortar bed, sand fill material, cutting, fittings, fixings and grouting complete as shown on drawings and as per specifications					
		1646	M <sup>2</sup>		
E	30 mm thick floor tiles, bush hammered finish # Floor tiles, patterned type, 50 mm thick - bush hammered finish	620	m <sup>2</sup>		
F	Ditto, curved on plan Stone steps, 330 mm wide x 170 mm thick (overall).	28 170	M <sup>2</sup> m		
*	Ditto, mosaic finish	516	M <sup>2</sup>		
*	Ditto, Matabba finish	436	M <sup>2</sup>		
*	Ditto, honed finish	1108	M <sup>2</sup>		
*	Ditto, honed finish curved on plan	22	M <sup>2</sup>		
*	Stone curbs, overall size 300 mm wide x 300 mm thick	138	M		
To collection				USD	

Bill No 1

Main Building

Divisions 2 & 3

Site of Concrete Works

Divisions 2 & 3

~~Bulk~~ Bulk excavation

53518 - m<sup>3</sup>

Excavation to Reduced level.

5.125  
7.50  
114.50

$$\frac{7.25 \times 3}{2} = 5.125$$

4.50  
7.50  
37.00

$$\frac{6 \times 3}{2} = 4.50$$

2994.20  
4.00  
1.00

4.90  
45.50  
3.40

$$\frac{6.8 + 3}{2} = 4.90$$

7.65  
32.50  
9.00

$$\frac{6.8 + 8.5}{2} = 7.65$$

7.00  
19.00  
10.00

7.50  
16.20  
123.20

$$\frac{32 + 27.2}{2} = 29.60$$

89.60  
63.00  
4.50

45312.70

92

The National museum

Excavation

360.75  
1.00  
6.00

$$16 \times 35 = 560$$

$$8.5 \times 19 = 161.5$$

$$\frac{560 + 161.5}{2} = 360.75$$

357.-  
1.00  
4.50

$$12 \times 39 = 468.-$$

$$6 \times 39 = 234.-$$

$$\frac{468 + 234}{2} = 351.-$$

2/7.00  
19.00  
4.50

285.-  
1.00  
4.50

$$12 \times 30 = 360$$

$$7 \times 30 = 210$$

$$\frac{360 + 210}{2} = 285$$

collection

45312.70  
5656.50

$$\frac{50969.2 \times 1.05}{2} = 53517.66$$

5656.50

The National Museum

Main Bldg. & Service

Annex

~~1847. - m<sup>3</sup>~~

Excavation for foundations

1758.45
1.00
1.00

$$1758.45 \times 1.05 = 1846.37$$

Selected back fill material

The National museum

Main Bldg. & service

Annex.

51671.-m<sup>3</sup>

Backfilling material

50969.20

1.00  
1.00

553.36

1.00  
1.00

287.63

1.00  
1.00

575.75

1.00  
1.00

61.36

1.00  
1.00

280.35

1.00  
1.00

isolated footings.

strip footings

column necks

walls under  
S.O.B.

$$4920.75 \times 1.05 = 51671.30$$

Single size coarse backfilling

1143

M3

2942-63/M2

Main Building

0.37

—

1088.77 X 1.05

Hard core, 150 mm thick

78A M3

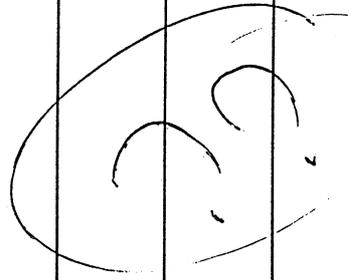
5205.52/M2  
0.15  
—

—  
780-83

The National Museum  
Foundations

2376-3

- 15 cm thick hardcore  
under S.O.B.  
20 cm thick



main Building

986.67  
1.00

$$\begin{array}{r} 986.67 \\ 1276.22 \\ \hline 2262.89 \times 1.05 \\ = 2376.03 \end{array}$$

1276.22  
1.00

Service Annex

986.67

1276.22

Compacted fill 2376-3

main Bldg.

Service Annex

986.67  
1.00

$$\begin{array}{r} 986.67 \\ 1276.22 \\ \hline 2262.89 \times 1.05 \\ = 2376.03 \end{array}$$

1276.22  
1.00

986.67 x

1276.22

The National museum.

Foundations

			m <sup>2</sup>
-	Hard core	under S.O.G.	
		<u>main Building</u>	
		under	
		30 cm thick S.O.G.	
	$2203.86$		
	$1.00$		
		$2203.86 \times 1.05 = 2314$	
-	37 cm	Single size	
		<u>main Building</u>	
		under	
		30 cm thick S.O.G.	
	$2203.86$		
	$1.00$		
		$2203.86 \times 1.05 = 2314$	

