

REPAIRS TO ELIDZ ADMIN 1 & 2 TOWERS
PROJECT - ADMIN/20/TOWERS/01
BILL OF QUANTITIES

Appendix A

ITEM	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
BILL NO 1: PRELIMINARIES					
1	Site Establishments	Item	1		
2	Supervision	Item	1		
3	Guarantees and insurances	Item	1		
4	Plant and equipment	Item	1		
5	Safety and security	Item	1		
6	The Site: Existing premises occupied	Item	1		
7	Programme of the works	Item	1		
8	Progress & Technical Meetings	Item	1		
9	Samples of materials	Item	1		
10	Enclosure of the works	Item	1		
SPECIFIC PRELIMINARIES					
11	Site instructions issued by Engineer on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor	Item	1		
12	Warranties for material and workmanship Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to Engineer on the certified completion of the contract. The warranty shall state that workmanship, materials and installation are warranted for a specified period from the date of final completion and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice to do so. The warranty will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor	Item	1		
13	ELIDZ OHS- On-going compliance with Occupational Health and Safety requirements	Item	1		
14	ELIDZ CEMP- On-going compliance with Environmental requirements	Item	1		
TOTAL FOR SCHEDULE CARRIED TO SUMMARY					

**SECTION 2: ALTERATIONS AND DEMOLITIONS
(PROVISIONAL)**

BILL NO.1 REMOVAL OF EXISTING WORK

Temporary screens

Provide, fix, maintain in position as required and remove as and when directed all temporary materials, tarpaulins, barriers, screens, overhead protections, etc. that may be necessary when carrying out any portion of the work for the protection of persons and property including the protection of adjoining buildings and everything in remaining parts of new buildings, etc. while the work is in progress.

1	Item	1
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Taking down and removing curtain walls, waterproofing, etc	H3	0.0
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2	Carefully remove existing glazing and spandrels.	m2	230
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3	Carefully remove existing aluminium frames (mullions and transoms) at stairwells	Item	2
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4	Carefully remove existing derbigum from concrete roof slabs (both upper and intermediate roofs)	Item	2
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Service existing materials by means of cleaning. Easing. Adjusting, oiling, sanding etc and bringing into good working order

H2	0.0
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Thoroughly sand and remove dust, flaking paint, rust, grit etc from structural steel frames and prepare surface for new paint	H3	0.0
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5	Steel frames (200mm x 6mH or 6mL beams)	No	8
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Making good of finishes etc	H2	0.0
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6	Making good floors at ends supported by steel frames.	m2	10
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TOTAL FOR SCHEDULE CARRIED TO SUMMARY

SECTION 3: NEW WORKS

BILL NO.1: METALWORK

SUPPLEMENTARY PREAMBLES

Descriptions of bolts shall be deemed to include nuts and washers
Descriptions of expansion anchors and bolts and chemical
anchors and bolts shall be deemed to include nuts, washers and
mortices in brickwork or concreteMetalwork described as "holed
for bolt(s)" shall be deemed to exclude the bolts unless otherwise
described

NOTE: All steel will be Hot dipped galvanised unless otherwise
stated.

ALUMINIUM CURTAIN WALLS, WINDOWS, DOORS etc. H2 0.0

Design:
The contractor shall be responsible for the design of the purpose
made aluminium shopfronts, windows and doors and shall provide
detailed shop drawings for approval by the Engineer prior to
putting any work in hand and within two weeks of being awarded
the contract.

Aluminium shopfronts, doors and windows shall comply with
AAAMSA design criteria.

System:
Tenderers are referred to Stairwell drawing layouts and detail
annexed to these bills of quantities for the architectural design
intent details of aluminium curtain walling, windows and doors.

All aluminium curtain walls, windows, doors, etc are to be
manufactured from approved sections, components, etc by a
registered AAAMSA fenestration contractor. Aluminium work is to
be protected by covering with plastic sheeting fixed with low tack
adhesive prior to leaving the factory. Plastic sheeting is to remain
in place during construction. All aluminium systems to be approved
by AAAMSA.

Glazing shall comply with SAGGA regulations and SANS 10137.
Glass shall be as specified on Window and Shopfront Schedules
and shall be of thickness and type to comply with the SAGGA
regulations and SANS 10137. All safety glazing materials
(individual panes) shall be permanently marked. Such marking
shall be visible after glazing process. If it is not marked, it is
regarded not safety glass

Glass to doors shall be 6,38mm 'Intruderprufe' clear laminated
safety glass unless otherwise described.

The design wind load for the glazed façade (external) shall be
1000Pa, in accordance with Table 3.1: Selection of AAAMSA
Performance Class Designations.

Design intent:

Glass and glazing:

Finishes:

Anodising shall comply with SANS 999 and shall be Grade AA25 (average coating thickness of 25 micron).

Powder coating shall be polyester powder coating. Colour to match existing. Polyester powder coating shall comply with SANS 1796 and SANS 1578.

Quality assurance:

Prior to the commencement of any site work, the following is required to be provided by the manufacturer/specialist contractor supplying/installing the aluminium windows, shopfronts and doors:

- a) AAAMSA Performance Test Certificate/s
- b) Shop drawings/detailed manufacturing drawings, including any relevant manuals (all for approval by the Engineer)
- a) AAAMSA or SAGGA Glass & Glazing Certificate/s
- b) AAAMSA Surface Finishing Certificate/s
- c) AAAMSA or SASA Skylight System Certificate/s (where applicable)
- d) AAAMSA Architectural Product Certificate/s (where applicable).

Upon completion of all site work and installation, the following is required to be provided by the manufacturer/specialist contractor supplying/installing the aluminium windows, shopfronts and doors:

Warranties:

The following warranties are required to be provided:

- a) A powder guarantee of not less than 15 years issued by the powder manufacturer.
- b) A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for a period of not less than five years.

Descriptions:

Descriptions of aluminium windows, shopfronts and doors shall be deemed to include all necessary temporary protection measures and fittings as well as timber or other subframes, templates, etc which are required in terms of the approved design.

Descriptions of aluminium windows, doors and shopfronts shall be deemed to include for sealing all around on both sides with 'Pro-Struct 749' or equal approved silicone sealing compound.

Descriptions of aluminium curtain walling, windows, shopfronts and doors shall be deemed to include preparation for fitting of ironmongery.

The sizes stated in the descriptions of aluminium units are indicative only, not prescriptive and may have to be adjusted to suit circumstances.

Testing of windows for watertightness:				
Each window shall be tested for watertightness with water sprayed on using adequate pressure. If, in the opinion of Engineer, the pressure proves to be inadequate then the pressure shall be boosted by means of compressed air or other means.				
Drawings of aluminium windows, doors, shopfronts and louvres are annexured to these bills of quantities for tender purposes.				
"Nuklip" (Sheerline) Powder coated aluminium frames, shopfront sections with 6,76mm intruderproof laminated safety glass and installed in accordance with manufacturers instructions:		H3	0.0	
1	Shopfronts: Powder coated aluminium lattices fixed to existing steel frames as indicated on the drawing. Color - Anthracite Grey	m2	230	
BILL NO.2 : GLAZING				
SUPPLEMENTARY PREAMBLES				
Laminated glass				
Laminated glass to have polyvinyl butyral (PVB) interlayer(s).				
Glazing to aluminium with sheerfront clip-on system (Sheerfront clips elsewhere)				
6,38mm 'Intruderprufe' clear laminated safety glass unless otherwise described.				
1	Panes exceeding 0,5m² and not exceeding 2m².	m2	230	
TOTAL FOR SCHEDULE CARRIED TO SUMMARY				

SECTION 4: PROVISIONAL SUMS		H1	0.0		
Prime cost amounts and provisional sums are nett. Prime cost amounts include for delivery to site of all articles concerned.					
Provisional sums are for material and equipment supplied and installed complete by firms of specialists.					
Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor.			0.0		
It is accepted, however, that any builders work instructed by the Engineer and carried out by the Contractor in respect of these items will be measured and valued at tendered rates and paid to the Contractor.			0.0		
Profit: Where stated, the contractor may allow for profit if required.					
General attendance on nominated / selected subcontractors:					
The item 'Attendance' which follows each provisional sum for nominated / selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated / selected subcontractors, the following:					
(1) The services as set out in the Preliminaries					
(2) Making good in all trades and cleaning down and removal of rubbish on completion					
WATERPROOFING		H2			
1	Provide the amount of R 20,000-00 (Twenty Thousand Rand) for Waterproofing on concrete roofs.	Item	2	20 000,00	R40 000,00
2	Profit on above item.	Item	1		
3	Attendance and making good in all trades	Item	1		
BUDGETARY ALLOWANCES		H2			
The following budgetary allowances are for work to be executed by the contractor or his domestic subcontractors subject to Approval by the Engineer:					
1	Provide the following for the services of a specialist for monitoring and control on behalf of the Employer - subject to agreement with ELIDZ	Item	1	100 000,00	R100 000,00
2	Provide the amount of R20 000.00 (Twenty Thousand Rand) for builder's work in connection with electrical installation.	Item	1	20 000,00	R20 000,00
3	Provide the amount of R10 000.00 (Ten Thousand Rand) for reinstating the landscape around work area	Item	1	10 000,00	R10 000,00
4	Provide the amount of R20 000.00 (Twenty Thousand Rand) for relevent compliance certificates, COCs	Item	1	20 000,00	R20 000,00
5	Provide the amount of R20 000.00 (Twenty Thousand Rand) for reinstating the paved walkways and parking	Item	1	20 000,00	R20 000,00
6	Provide the amount of R5 000.00 (Five Thousand Rand) for making good external wall tiles around the stairwells.	Item	1	5 000,00	R5 000,00
TOTAL FOR SCHEDULE CARRIED TO SUMMARY					

SECTION 5		H1	0.0	
SUMMARY		H1	0.0	
1	PRELIMINARIES	Page	1	
2	ALTERATIONS AND DEMOLITIONS	Page	2	
3	NEW WORKS	Page	5	
4	PROVISIONAL SUMS	Page	6	
Sub - Total:		ST	0.0	
Add	CONTINGENCIES (@ 10%)	H1	10%	
Sub Total		ST	0.00	
Add	VALUE ADDED TAX (@ 15%)	TAX	15%	
TOTAL (Carried To Form Of Offer)		ST	0.00	

Name of Tenderer :

Signed on behalf
of Tenderer :

Dated :