

NHBRC REMEDIAL WORKS DATABASE
REMEDIAL WORKS CONTRACTORS PANEL

1. EXTENT OF CONTRACT

Building contract

The work embodied in the contract comprises remedial work of a house

The successful tenderer for this contract will be appointed in terms of the National Home Builders Registration Council Remedial work.

2. ACQUAINTANCE WITH TENDER DOCUMENTS

By submission of a tender, the contractor shall be deemed to have acquainted himself with the contract documents, local requirements and laws and all aspects of the work envisaged in the documents, prior to pricing and submission of a tender. It is of vital importance that the tenderers visit the site prior to the submission of a tender to study conditions on site.

No claim resulting from failure to comply with any of the above will be entertained.

3. CONTRACT DOCUMENTS

The contract documents shall comprise:

- * This tender enquiry document, bills of quantities and its annexures.

4. BILLS OF QUANTITIES

These bills of quantities contain pages numbered consecutively as indicated in the Index. Before the contractor submits his tender he should check the number of pages, and if any are found to be missing or duplicated, or the figures or writing indistinct, or the tender documents contain any obvious errors, he should apply to the quantity surveyors at once and have same rectified as no liability whatsoever will be admitted by the National Home Builders Registration Council (NHBRC) in respect of errors in a tender due to the foregoing.

On no account should these documents be used for placing orders for materials. The contractor may do so at his own risk but shall not be reimbursed for additional costs so incurred.

Unless a separate rate for the supply and for the installation of any items is specifically called for, the supply and installation costs of any item shall be deemed to be fully included in the unit price.

NOTES AND SPECIFICATIONS
NOTES TO TENDERERS
PROVISIONAL BILL OF QUANTITIES
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5. MATERIAL AND LABOUR COST FLUCTUATIONS

Tenders shall be fixed ie inclusive of provision for material and labour cost fluctuations during the course of the works.

6. RATES

Tenders note that the rates will be subject to the volume of works.

7. CONDITIONS TO BE OBSERVED IN TENDERING

7.1 Tenders shall include Value Added Tax

7.2 The conciliation officer will notify the tenderers of the tender results

7.3 The lowest, or any, or portion of any tender will not necessarily be accepted.

7.4 All tenders must be entered on the form provided herein.

7.5 Tenders must hold good for thirty (90) calendar days from the tender closing date as stated herein.

7.6 All recipients of the tender document (whether they submit a tender or not) must treat the details of the document as private and confidential

7.7 The employer will not be responsible for, or pay for, expenses or losses, which may be incurred by any tenderer in the preparation of his tender.

8. TENDER INFORMATION

The employer may require additional information from the tenderer in order to evaluate the tender. The tenderer is required to provide such information if so required by the employer.

9. SITE INSPECTION

Tenderers are required to inspect the site before submission of his tender.

The tenderer is also required to familiarise himself before submission of his tender with regard to relevant local site conditions, site accessibility, the nature of operations required, availability of labour and any conditions pertaining there to, together with conditions relating to unloading, carting and storage of materials, equipment and tools required for the works.

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10. SUBMISSION OF TENDERS

The tenderer shall submit the Form of Tender in a sealed envelope markedemail to scmrequests@nhbrc.org.za

The tender shall be delivered at the office of the Procurement & Contracts, 27 Leeuwkop Road, Sunninghill, Johannesburg, by no later than.....h.....on.....

late tenders nor faxed tenders will be considered.

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NAMES OF PARTIES

1. EMPLOYER

National Home Builders Registration Council
Contact Person:
Physical Address: 27 Leeuwkop Road, Sunninghill, Johannesburg
Postal Address: P O BOX 461, Randburg, 2125

Tell : (011) 317 0000
Fax: (011) 317-0105

2. ENGINEER

National Home Builders Registration Council
Contact Person :
Physical Address : 27 Leeuwkop Road, Sunninghill, Johannesburg
Postal Address: P O BOX 461, Randburg, 2125

Tel:

3. CONCILIATION OFFICER

National Home Builders Registration Council
Contact person :
Physical Address : 27 Leeuwkop Road, Sunninghill, Johannesburg
Postal Address : P O BOX 461, Randburg 2125

Tel:

4. QUANTITY SURVEYORS

National Home Builders Registration Council
Contact Person:
Physical Address 27 Leeuwkop Road, Sunninghill, Johannesburg
Postal address: P O BOX 461, Randburg, 2125

Tel:

NOTES AND SPECIFICATIONS
NAMES OF PARTIES
PROVISIONAL BILL OF QUANTITIES
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Item No	Quantity	Rate	Amount
<p><u>BILL NO.1</u></p>			
<p><u>PRELIMINARIES AND GENERALS</u></p>			
<p><u>NOTES</u></p>			
<p>Preliminaries and general will differ from project to project.</p>			
<p>Carried Forward to Sectional Summary: 1</p>			
<p>Section No. 1 BUILDINGS Bill No. 1 PRELIMINARIES AND GENERALS <i>PROVISIONAL BILL OF QUANTITIES</i> NHBRC REMEDIAL WORKS</p>			
			R

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Item No		Quantity	Rate	Amount
	<p><u>PREPARATION OF DAMAGED SLAB SOFFIT</u></p> <p><u>BILL 1</u></p> <p><u>ALTERATIONS</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>View site</u></p> <p>Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated</p> <p><u>General</u></p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p> <p>Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent</p> <p style="text-align: right;">Carried forward</p> <p>Section No. 1 BUILDINGS Bill No. 2 ALTERATIONS PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS</p>			R

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	Brought forward		R
	<p>Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing ant glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately</p> <p>Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc</p> <p>Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing</p> <p>With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork</p> <p>Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary</p> <p>The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)</p> <p><u>REMOVAL OF EXISTING WORK</u></p> <p>Breaking up and removing unreinforced concrete</p>		
1	50 - 100mm Thick concrete slab	m2	120.00
	Carried forward		R
	<p>Section No. 1 BUILDINGS Bill No. 2 ALTERATIONS PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS</p>		

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Brought forward			R
<u>Breaking up and removing reinforced concrete including cutting off and removing reinforcement</u>			
2	90mm Thick surface bed	m2	150.00
3	100 - 250mm Thick slabs	m2	250.00
<u>Taking out and removing paving etc, setting aside for re-use and later refixing in similar position</u>			
4	Cement paving bricks including header course edging of 50mm thick mortar bed	m2	45.00
<u>Breaking down and removing brickwork etc</u>			
5	Half brick wall	m2	75.00
6	One brick wall	m2	130.00
Taking out and removing doors, windows, etc including thresholds, sills, etc			
7	Timber single door and frame not exceeding 2,5m2	No	150.00
8	Timber double door and frame exceeding 2.5m2 and not exceeding 4m2	No	200.00
9	Timber single door and steel frame not exceeding 2,5m2	No	150.00
10	Timber double door and steel frame exceeding 2.5m2 and not exceeding 4m2	No	200.00
11	Glazed timber window not exceeding 2,5m2	No	100.00
12	Glazed timber window exceeding 2.5m2 and not exceeding 4m2	No	150.00
13	Glazed steel window not exceeding 2,5m2	No	100.00
14	Glazed steel window exceeding 2.5m2 and not exceeding 4m2	No	150.00
Carried forward			R
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Brought forward			R
Taking out doors, windows, etc including thresholds, sills, etc and setting aside for re-use (refixing and make good work elsewhere)			
15	Timber single door and frame 813 x 2032mm high overall from half brick wall	No	150.00
16	Timber single door and frame 813 x 2032mm high overall from one brick wall	No	160.00
17	Timber double door and frame 1511 x 2032mm high overall from half brick wall	No	200.00
18	Timber double door and frame 1511 x 2032mm high overall from one brick wall	No	210.00
19	Timber single door and steel frame 813 x 2032mm high overall from half brick wall	No	150.00
20	Timber single door and steel frame 813 x 2032mm high overall from one brick wall	No	160.00
21	Timber double door and steel frame 1511 x 2032mm high overall from half brick wall	No	200.00
22	Timber double door and steel frame 1511 x 2032mm high overall from one brick wall	No	210.00
Refixing of existing doors, windows, etc (removal and setting aside elsewhere)			
23	Setting up and building in timber door frame in brickwork, rehangng single door on new 100mm brass hinges and servicing existing lock set	No	270.00
24	Setting up steel window 1511 x 1245mm high in brickwork and replacing any broken glass panes with 4mm clear float glass	No	180.00
25	Setting up steel window 533 x 949mm high in brickwork and replacing any broken glass panes with 4mm obscure glass	No	100.00
Carried forward			R
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Brought forward			R
Taking down and removing roofs, floors, panelling, ceilings, partitions, etc (and setting aside for re-use)			
26	Gypsum plasterboard ceilings including cornices, timber bandering, etc	m2	45.00
27	Carefully take down concrete roof tiles (Measure flat on floor plan.) and set aside for re-use.	m2	55.00
28	Ridge tiles	m	30.00
29	Hip tiles	m	30.00
30	Timber roof construction, including roof trusses, purlins, wall plates etc (Measured flat on floor plan)	m2	70.00
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>			
31	Remove and prep for new: Laminated floor	m2	40.00
32	Gypsum plasterboard ceilings, including cornices, timber bandering, etc	m2	45.00
33	Timber skirtings including quarter round from brickwork	m	20.00
34	Cornice from brickwork	m	20.00
<u>Taking out and removing sundry joinery work, fittings, etc, setting aside for re-use and later refixing in similar new position</u>			
35	Timber sink floor cupboard 1000 x 600 x 910mm high with granite top, including sink and disconnecting water pipes and installing new trap etc and connecting to new waste pipe etc.	m	350.00
36	Timber floor cupboard 1000 x 600 x 910mm high including granite top etc.	m	250.00
37	Timber wall cupboard 1000 x 600 x 2600mm high.	m	300.00
Carried forward			R
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Brought forward			R
38	Timber skirtings including quarter round from brickwork	m	40.00
39	Cornice from brickwork	m	40.00
40	Bathroom cabinet 300 x 450mm high	No	100.00
<u>Taking out and removing ironmongery etc. setting aside for re-use and later refixing in similar new position</u>			
41	Curtain Rail	No	30.00
42	Towel Rail	No	30.00
43	Toilet roll holder	No	30.00
44	Towel Ring	No	30.00
<u>Taking out/off sundry metalwork and setting aside for re-use and later refix in similar new position</u>			
45	Chromadeck gutter including stop end etc	m	30.00
46	Chromadeck downpipes including bend etc.	m	30.00
47	Carefully take out stainless steel balustrade 900mm high from concrete and set aside and make good concrete and plaster work. Reinstall balustrades including coredrilling, epoxy etc. to match original.	m	800.00
<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u>			
48	30mm Screed from floors	m2	40.00
49	Average 50mm Screed from slabs including waterproofing	m2	50.00
50	Internal plaster from walls	m2	40.00
51	External plaster from walls	m2	40.00
Carried forward			R
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Brought forward			R
<u>Hacking up/off and removing ceramic tiles including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc</u>			
52	Tiles to floors	m2	55.00
53	Tiles to walls	m2	55.00
54	Tiles to treads and risers of stairs	m2	55.00
55	Skirting tiles	m	20.00
<u>Taking out and removing piping, sanitary fittings, etc, including cutting off as necessary, disconnecting piping from fittings etc setting aside for re-use</u>			
56	Wash hand basin and pedestal, including short length pipings etc.	No	350.00
57	Wash hand basin, including short length pipings	No	350.00
58	WC pan with cistern, including short lengths of piping, etc	No	350.00
59	Bath, including pipings etc	No	450.00
60	Shower arm and rose including short length of piping etc.	No	250.00
<u>Taking out/off and removing glass panels etc and setting aside for re-use and later refixing in similar new position</u>			
61	Shower door, including side panels	No	1 000.00
62	Mirror from wall	No	150.00
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Brought forward		R
<u>Taking out and removing electrical items, setting aside for re-use</u>		
63	Make safe all electrical work and remove all wall sockets including wiring etc. and set aside for re-use.	125.00
	No	
64	Make safe all electrical work and remove all light fittings including, Light switches, wiring etc. and set aside for re-use.	125.00
	No	
65	Make safe all electrical work, Stove and Geysor electrical point including isolator, wiring etc. and set aside for re-use.	125.00
	No	
66	Make safe all electrical work and remove Distribution Board including brakers, wiring etc. and set aside for re-use.	500.00
	No	
<u>Sundries</u>		
67	Carefully take down and set aside DSTV Dish and later refixing in similar new position	1 000.00
	No	
68	Carefully take down and removing Geysor etc and set aside for re-use and later fixing in similar new position	1 200.00
	No	
69	Carefully take down and removing Solar Geysor including Solar Panels etc and set aside for re-use and later fixing in similar new position	1 800.00
	No	
70	Carefully remove alarm and camera system and set aside for re-use and later reinstall in new position	800.00
	No	
<u>PREPARATION OF DAMAGED SOFFIT SURFACES</u>		
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	Brought forward		R
	<p><u>Preparation of slab soffit damaged by dampness and allow to dry completely before paint can be applied. This item includes scrapping of existing paint of the affected areas down to plaster, blister or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable sealer and smooth finished.</u></p>		
71	Soffit of slabs	m2	35.00
	<p><u>PREPARATION OF DAMAGED WALL SURFACES</u></p> <p><u>Preparation of wall surfaces damaged by dampness and allow to dry completely before paint can be applied. This item includes scrapping of existing paint of the affected areas down to plaster, blister or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable sealer and smooth finished.</u></p>		
72	On walls	m2	35.00
	<p><u>MAKING GOOD OF FINISHES ETC</u></p> <p><u>Making good internal cement plaster</u></p>		
73	Walls in patches	m2	150.00
	<p><u>Making good External cement plaster</u></p>		
74	Walls in patches	m2	150.00
	<p><u>Making good cement screeds</u></p>		
75	30mm Screed patches to floors	m2	185.00
	Carried Forward to Sectional Summary: 1		R
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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 3</u></p> <p><u>EARTHWORKS (PROVISIONAL)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>User note</u></p> <p>The following are typical examples of descriptions of "nature of ground"</p> <p><u>Nature of ground</u></p> <p>The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "soft rock" or "hard rock"</p> <p>The nature of the ground is assumed to be silty clay with loose river boulders varying in size up to approximately 450mm diameter, all of which will be deemed as "earth", but possibly interspersed with "hard rock"</p> <p>Trial holes indicate that the nature of the ground is silty clay to a depth of approximately 500mm with fine to medium loose sandy material below, therefore "earth"</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations.</p> <p><u>Filling</u></p> <p>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and back filling shall include for all selection and any necessary multiple handling of material</p> <p style="text-align: right;">Carried forward</p>			R
	<p>Section No. 1 BUILDINGS Bill No. 3 EARTHWORKS PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS</p>			

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Brought forward			R
<u>User note</u>			
When no information regarding density tests is available the following preamble in respect of testing may be inserted			
<u>Testing</u>			
Prices for filling are to include for all necessary density tests in accordance with SABS 1200D			
<u>EXCAVATION, FILLING, ETC</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
1	Trenches	m3	90.00
2	Ground beams etc	m3	90.00
3	Thickening under surface beds etc.	m3	90.00
<u>Back excavation of vertical sides of excavations in earth for working space including backfilling compacting in 100mm layers to 95% Mod AASHTO density</u>			
4	Exceeding 1.0m deep and not exceeding 1.5m deep for placing and removing formwork to walls etc, against excavated face	m2	125.00
<u>Extra over excavation in earth for excavation in</u>			
5	Soft rock	m3	200.00
6	Hard rock	m3	1 000.00
<u>Extra over all excavations for carting away</u>			
7	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	90.00
Carried forward			R
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Brought forward			R
<u>Risk of collapse of excavations</u>			
8	Sides of trench and hole excavations not exceeding 1,5m deep	m2	15.00
9	Sides of trench and hole excavations exceeding 1,5m deep	m2	20.00
<u>Keeping excavations free of water</u>			
10	Keeping excavations free of all water other than subterranean water	Item	
<u>FILLING</u>			
<u>Earth filling obtained from the excavations compacted to 97% Mod AASHTO density</u>			
11	Trenches etc.	m3	90.00
12	Under floors, steps, paving etc.	m3	90.00
<u>Earth filling supplied by the contractor compacted to 97% Mod AASHTO density</u>			
13	G5 Fill compacted in layers of 150mm under surface beds	m3	375.00
14	G7 filling material, 3% cement stabilised and compacted in layers of 150mm under surface beds	m3	500.00
<u>Coarse river sand filling supplied by the contractor</u>			
15	Under Floors etc	m3	215.00
<u>Compaction of surfaces</u>			
16	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 97% Mod AASHTO density	m2	60.00
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	Brought forward		R
17	Under surface beds	m2	40.00
18	Bottom of Trenches	m2	40.00
	<u>Prescribed density tests on filling</u>		
19	"Modified AASHTO Density" test	No	500.00
	<u>SOIL POISONING</u>		
	Soil insecticide in accordance with SANS 5859		
	<u>Soil insecticide</u>		
20	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	15.00
21	Bottom and sides of trenches	m2	15.00
22	Under paving etc.	m2	15.00
	Carried Forward to Sectional Summary: 1		R
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		Brought forward	R
4	Ground Slabs including ground beams etc on waterproofing (Raft foundation)	m3	2 000.00
		<u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u>	
		<u>20 Mpa/19 concrete</u>	
5	Surfacebeds in panels on waterproofing	m3	1 900.00
		<u>25Mpa/19 concrete</u>	
6	Slabs including beams and inverted beams	m3	2 000.00
7	Filling in cavity walls or brick piers	m3	2 000.00
		<u>TEST CUBES</u>	
8	Making and testing 150 x 150 x 150mm concrete strength test cubes (Provisional)	No	450.00
		<u>CONCRETE SUNDRIES</u>	
		<u>Finish top surface of concrete smooth with a wood float</u>	
9	Surface beds, slabs etc.	m2	40.00
10	Apron	m2	40.00
		<u>Finish top surface of concrete smooth with a power float</u>	
11	Surface beds, slabs etc.	m2	60.00
		<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>	
		Carried forward	R
Section No. 1 BUILDINGS Bill No. 4 CONCRETE, FORMWORK AND REINFORCEMENT. PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS			

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Brought forward			R
	<u>Smooth formwork to soffits</u>		
12	Slabs propped up exceeding 2.5m and not exceeding 3m high	m2	400.00
	<u>Smooth formwork to sides</u>		
13	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	50.00
<u>MOVEMENT JOINTS ETC</u>			
	<u>Expansion joints with 10mm softboard between vertical concrete and brick surfaces</u>		
14	10mm Joints not exceeding 300mm high	m	70.00
	<u>Saw cut joints</u>		
15	3 x 40mm Saw cut joints in top of concrete	m	35.00
<u>REINFORCEMENT (PROVISIONAL)</u>			
	<u>High tensile steel reinforcement to structural concrete work</u>		
16	12mm Diameter bars	t	16 500.00
	<u>Fabric reinforcement</u>		
17	Type Ref 193 Fabric reinforcement in concrete surface beds, slabs etc.	m2	50.00
18	Type Ref 245 Fabric reinforcement in concrete surface beds, slabs etc.	m2	65.00
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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 5</u></p> <p><u>MASONRY</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Sizes in description</u></p> <p>Where sizes in descriptions are given in bricks units, " one brick" shall represent the length and " half brick" the width of a brick</p> <p><u>Hollow walls</u></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole</p> <p><u>User note</u></p> <p>The following preambles generally applies for works in hot and humid coastal areas</p> <p><u>Bagged and sealed walls</u></p> <p>Walls in two skins described as " bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and fixture and sealed with two coats bitumen emulsion waterproofing coating.</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p style="text-align: right;">Carried forward</p> <p>Section No. 1 BUILDINGS Bill No. 5 MASONRY PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS</p>			R

**NHBRC REMEDIAL WORKS DATABASE
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<p style="text-align: center;">Brought forward</p> <p><u>BLOCKWORK</u></p> <p><u>Concrete masonry units</u></p> <p>Blocks are to be either solid or hollow modular dense concrete masonry units</p> <p><u>Wall ties for blockwork</u></p> <p>Metal wall ties for use in cavity walls shall be wire ties complying with SABS 28. Ties shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other</p> <p><u>Blockwork</u></p> <p>Blockwork shall comply with SABS 0145 "Concrete Masonry Construction"</p> <p>Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole</p> <p><u>Standard complementary blocks</u></p> <p>Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary</p> <p><u>FOUNDATIONS (PROVISIONAL)</u></p> <p style="text-align: center;">Carried forward</p> <p>Section No. 1 BUILDINGS Bill No. 5 MASONRY PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS</p>		R
		R

NHBRC REMEDIAL WORKS DATABASE
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Brought forward			R
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>			
1	Half brick walls	m2	200.00
2	One brick walls	m2	400.00
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of concrete bricks in class II mortar</u>			
3	Half brick walls	m2	200.00
4	Half brick walls in beamfilling	m2	220.00
5	One brick walls	m2	400.00
6	90mm Hollow walls of two half brick skins including wire ties	m2	420.00
7	Brick Piers	m3	1 700.00
8	90mm Brick wall	m2	125.00
9	140mm Brick wall	m2	190.00
10	140mm Brick walls in beamfilling	m2	220.00
<u>BRICKWORK SUNDRIES</u>			
<u>Cement wash of 1:3 liquid cement and sand mixture applied with a brush</u>			
11	Brick walls	m2	50.00
<u>2.5mm Galvanised brick reinforcement</u>			
12	75mm Wide reinforcement built in horizontally	m	7.00
13	150mm Wide reinforcement built in horizontally	m	7.00
Carried forward			R
Section No. 1 BUILDINGS Bill No. 5 MASONRY PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS			

**NHBRC REMEDIAL WORKS DATABASE
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Brought forward			R
<u>Prestressed fabricated lintels including necessary temporary support</u>			
14	110 x 75mm Lintels in lengths not exceeding 3m <u>Galvanised hoop iron cramps, ties, etc</u>	m	70.00
15	4mm Diameter roof tie 2m girth bent double with one end fixed to wood and other end built into brickwork <u>TESTING OF BRICKS</u>	No	22.00
16	Allowance for testing of bricks to comply with SABS standards	Item	
<u>REPAIRING OF CRACKS</u>			
<u>Repairs for vertical diagonal and horizontal wall cracks which are smaller than 5mm in width and where small deformation occurred (All as per Eng Detail)</u>			
17	Saw-cut neatly at least 250mm either side of crack ensuring a square cut with no further edges	m	20.00
18	Rake out crack to a depth of 30mm to form a v -groove and fill with Sikadur crack filler and smooth	m	35.00
19	Install chicken mesh using 6mm easy drive nails with 20mm washers to sustain the mesh in position. <u>Repairs for vertical diagonal and horizontal wall cracks which are greater than 5mm in width and where large deformation occurred (All as per Eng Detail)</u>	m2	30.00
20	Saw-cut neatly at least 250mm either side of crack ensuring a square cut with no further edges	m	20.00
21	Rake out crack to a depth of 30mm to form a v -groove and fill with Sikadur crack filler and smooth	m	35.00
Carried forward			R
Section No. 1 BUILDINGS Bill No. 5 MASONRY PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS			

**NHBRC REMEDIAL WORKS DATABASE
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Brought forward			R
22	Steel diamond mesh (Metal plaster lath) to walls secured with galv. nails @300mm centres	m2	105.00
	<u>Masonry Stitching repairs for vertical diagonal and horizontal wall cracks which are greater than 10mm in width and where large deformation occurred (All as per Eng Detail)</u>		
23	Saw-cut neatly at least 250mm either side of crack ensuring a square cut with no further edges	m	20.00
24	Rake out crack to a depth of 30mm to form a v -groove and fill with Sikadur crack filler and smooth	m	35.00
25	Bend R8 rods in the form of staples with 100mm long legs from a 500mm long bar at 200mm centres and Epoxy ends of staples into pre drilled holes (200mm c/c) in the wall on the either side of the crack with staples Install 500mm long R8 right angles to crack	No	90.00
	<u>Masonry Stitching repairs for vertical diagonal and horizontal wall cracks which are greater than 10mm in width and where large deformation occurred (All as per Eng Detail)</u>		
26	Chase 8 - 10mm wide slots 200mm apart in mortar beds with angle grinder. Slots to extend 500mm each side of crack. Dept of slots to be 30mm.	m	30.00
27	Clean out all mortar between bricks. Pump Sikadur 20 repair grout to rear of slot, filling it evenly to approximately 2/3 full.	m	40.00
28	Install one Y6 reinforcing bar into grout and make good wall chase to disguise slot. (All as per Engineers detail)	m	65.00
<u>PAVING</u>			
Carried forward			R
Section No. 1 BUILDINGS Bill No. 5 MASONRY PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS			

**NHBRC REMEDIAL WORKS DATABASE
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	Brought forward		R
	<u>Paving of 60mm thick interlocking paving bricks with butt joints on 20mm thick riversand bed with sand and cement mixture swept into joints and hosed down, including preparation of ground or filling</u>		
29	Paving in stretcher bond to falls (to match existing)	m2	195.00
	Carried Forward to Sectional Summary: 1		R
	Section No. 1 BUILDINGS Bill No. 5 MASONRY PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS		

**NHBRC REMEDIAL WORKS DATABASE
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Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u>			
	<u>WATERPROOFING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Waterproofing</u>			
	Waterproofing of roofs, basements, etc shall be laid under ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs			
	<u>DAMP PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer 375 micron embossed polyethylene damp proof course (SANS 952-1985 Type B)</u>			
1	In walls vertical at reveals	m2	20.00	
2	In walls	m2	20.00	
	<u>One layer of 250 micron " Consol plastic Gunplas USB Green"</u>			
3	Under surface beds	m2	25.00	
	<u>WATERPROOFING TO ROOFS, BASEMENTS, ETC</u>			
	Carried forward			R
	Section No. 1 BUILDINGS Bill No. 6 WATERPROOFING PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS			

**NHBRC REMEDIAL WORKS DATABASE
 REMEDIAL WORKS CONTRACTORS PANEL**

Brought forward			R
	<u>Cementitious waterproofing system (suitable for tiling) comprising patching defects with polymer modified flexible (PMF) waterproofing slurry and three full coats PMF waterproofing slurry applied with a brush to a final dry film thickness of 2 to 3mm</u>		
4	Floors	m2	265.00
5	Showers	m2	265.00
	<u>Two layers mastic asphalt waterproofing</u>		
6	Covering all flashings, as per Engineers detail	m2	185.00
<u>PROTECTIVE ROOFING PAINT</u>			
	<u>Two coats bituminous aluminium paint</u>		
7	On waterproofing to roofs	m2	70.00
<u>SEALING STRIPS, JOINT SEALANTS, ETC</u>			
	<u>Silicone sealing compound including backing cord, bond breaker, primer etc</u>		
8	10 x 10mm in expansion joints in floors including raking out expansion joint filler as necessary	m	50.00
9	On waterproofing to flat roofs and top and sides of parapet walls	m2	80.00
<u>SUNDRIES</u>			
	<u>Testing</u>		
10	Allow for flooding of waterproofing area (All as per Engineers detail)	Item	
Carried Forward to Sectional Summary: 1			R
Section No. 1 BUILDINGS Bill No. 6 WATERPROOFING PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS			

**NHBRC REMEDIAL WORKS DATABASE
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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 7</u></p> <p><u>ROOF COVERING</u></p> <p><u>ROOFS ETC</u></p> <p><u>ROOF CONSTRUCTION</u></p> <p><u>User note</u></p> <p>Where battens for roof coverings form part of the platenailed timber roof truss design it shall be included under the roof construction in the "Carpentry and Joinery" trade and not under this trade</p> <p><u>ROOF COVERINGS</u></p> <p><u>TILES</u></p> <p><u>User note</u></p> <p>The fixing recommendations of the manufacturer of the tiles used for the specific region and/or situation are to be incorporated as supplementary preambles</p> <p><u>420 x 332mm "Double Roman" concrete terracotta tiles laid on and including an underlay of 250 micron "Dakseel" sheeting with 75mm lapped and sealed joints and nailed through underlay with non-corrosive tile nails to 38 x 38mm sawn softwood battens at 320mm centre</u></p>			
1	Reinstate existing roof tiles with 26 degrees pitch (Measured flat on plan)	m2	80.00	
2	Reinstate existing Hips, bedded and pointed in 1:3 tinted cement mortar, including 300mm wide strip of 375 micron embossed dampproof course in accordance with SANS 952 Type B underlay and raking cutting to tiles on both sides	m	20.00	
	Carried forward		R	
	<p>Section No. 1 BUILDINGS Bill No. 7 ROOF COVERINGS PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS</p>			

**NHBRC REMEDIAL WORKS DATABASE
 REMEDIAL WORKS CONTRACTORS PANEL**

Brought forward			R
3	Reinstate existing Purpose made tile to end of ridge bedded and pointed on 1:3 cement mortar tinted to match tile colour	No	15.00
4	New Roof covering tiles with 26 degrees pitch	m2	185.00
5	New Ridges of tiles to match roofing tiles, bedded and pointed in 1:3 tinted cement mortar, including 300mm wide strip of 375 micron embossed dampproof course in accordance with SANS 952 Type B underlay	m	70.00
6	New Hips of tiles to match roofing tiles, bedded and pointed in 1:3 tinted cement mortar, including 300mm wide strip of 375 micron embossed dampproof course in accordance with SANS 952 Type B underlay and raking cutting to tiles on both sides	m	70.00
7	New Purpose made tile to end of ridge bedded and pointed on 1:3 cement mortar tinted to match tile colour	No	55.00
<u>SHEET METAL FLASHINGS, LININGS, COPINGS, ETC</u>			
User note:			
Supplementary preambles in connection with fixing of sheeting and accessories and laps are to be inserted when the Model Preambles for Trades (or other preambles not covering the fixing of sheeting and accessories and laps) are used			
When the pitch of troughed roof covering is less than 5 degrees or if dustproofing is required then the description of roof coverings "with side laps sealed" is to be used			
Carried forward			R
Section No. 1 BUILDINGS Bill No. 7 ROOF COVERINGS PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS			

**NHBRC REMEDIAL WORKS DATABASE
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Brought forward			R
	Where roof coverings are fixed on top of rigid board insulation to purlins etc descriptions of roof coverings are to include therefore		
	Note that sheeting is also available in corten steel, stainless steel, copper and aluminium		
	<u>0.6mm Galvanised sheet iron flashings</u>		
8	Lining to valleys	m	70.00
9	Stepped cover flashings	m2	70.00
10	Side wall flashing 400mm girth	m	70.00
11	Head wall flashing 400mm girth	m	70.00
12	Cover flashing 400mm girth	m	70.00
13	Undertile flashings ne 400mm girth	m	70.00
14	Apex flashing	m	70.00
Carried Forward to Sectional Summary: 1			R
Section No. 1 BUILDINGS Bill No. 7 ROOF COVERINGS PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS			

**NHBRC REMEDIAL WORKS DATABASE
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Item No		Quantity	Rate	Amount
<u>BILL NO. 8</u>				
<u>CARPENTRY AND JOINERY</u>				
<u>Fixing</u>				
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete				
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere				
<u>Joinery</u>				
Descriptions of frames shall be deemed to include frames, transoms, rails, etc				
Descriptions of hardwood joinery shall be deemed to include sinking and pelleting heads and nuts of bolts				
<u>ROOFS ETC</u>				
<u>Sawn softwood</u>				
<u>User note</u>				
The following 2 items will only occur when the battens are not included under the roof covering or plate nailed roof construction				
1	76 x 38mm Wall plates	m	70.00	
2	Re-instate timber roof construction to its original state, including bracing, hurricane clips, purlines etc. (measure flat on floor plan)	m ²	100.00	
Carried forward			R	
Section No. 1 BUILDINGS Bill No. 8 CARPENTRY AND JOINERY PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS				

**NHBRC REMEDIAL WORKS DATABASE
 REMEDIAL WORKS CONTRACTORS PANEL**

Brought forward			R
<u>SKIRTINGS</u>			
<u>Wrought meranti</u>			
4	19 x 75mm Skirting nailed	m	70.00
<u>DOORS ETC</u>			
<u>40mm hollow core flush doors with 3,2mm standard hardboard covering on both sides hung to steel frames</u>			
5	45mm Door 813 x 2032mm high	No	750.00
<u>Solid meranti doors hung to steel frames supplied by Swartland Doors or similar approved</u>			
6	45mm Door 813 x 2032mm high	No	2 050.00
<u>Semi Solid 8 Panel Wrought meranti doors hung to steel frames supplied by Swartland Doors or similar approved</u>			
7	45mm Door 813 x 2032mm high	No	1 650.00
<u>FRAMED FRAMES ETC</u>			
<u>Wrought softwood</u>			
8	44 x 65mm Frames plugged	m	550.00
Carried Forward to Sectional Summary: 1			R
Section No. 1 BUILDINGS Bill No. 8 CARPENTRY AND JOINERY PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS			

**NHBRC REMEDIAL WORKS DATABASE
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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 9</u></p> <p><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing</u></p> <p>Item described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere</p> <p><u>Ceilings</u></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><u>Bulkheads</u></p> <p>Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. Their purpose is either to conceal services or to create architectural features</p> <p>Bulkheads have only been described as such where they confirm to the above definition and where the horizontal or vertical dimensions do not exceed 900mm such portions of ceilings have been included in the appropriate general items of the ceilings</p> <p>Unless otherwise described bulkheads shall be deemed to be horizontal along the length</p> <p style="text-align: right;">Carried forward</p> <p>Section No. 1 BUILDINGS Bill No. 9 CEILING, PARTITIONS AND ACCESS FLOORING PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS</p>			R

**NHBRC REMEDIAL WORKS DATABASE
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Brought forward		R
<u>Steel components</u>		
All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121		
<u>User note</u>		
Circular bulkheads shall be given separately		
<u>NAILED UP CEILING</u>		
<u>Openings</u>		
Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc		
<u>6.4mm 'Rhino' gypsum plasterboards with 63mm wide strips of mesh scrim nailed over joints and the whole finished with gypsum skim plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer.</u>		
1	Ceiling including 38 x 38mm sawn softwood branderling at 400mm centres	190.00
2	Extra over ceiling for opening for ?mm diameter downlighter	95.00
3	Extra over ceiling for 600 x 600mm trap door of 50 x 76mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in open	650.00
<u>SUNDRIES</u>		
<u>Gypsum plasterboard cornices</u>		
4	75mm Coved cornice	60.00
Carried forward		R
Section No. 1 BUILDINGS Bill No. 9 CEILING,PARTITIONS AND ACCESS FLOORING PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS		

**NHBRC REMEDIAL WORKS DATABASE
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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 10</u></p> <p><u>IRONMONGERY</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Proprietary items</u></p> <p>Where applicable the manufacturer's names or product catalogue titles are given in sub-headings preceding the items</p> <p>Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered</p> <p>On request returnable samples are to be provided to the principal agent for consideration</p> <p><u>Finishes to ironmongery</u></p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded</p> <p style="text-align: right;">Carried forward</p> <p>Section No. 1 BUILDINGS Bill No. 10 IRONMONGERY PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS</p>			R

**NHBRC REMEDIAL WORKS DATABASE
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Brought forward			R
<u>LOCKS</u>			
<u>Approved Lockset</u>			
1	Re-instate bathroom lockset	No	150.00
2	Re-instate mortice lockset	No	150.00
<u>BATHROOM FITTINGS</u>			
"Solid"			
<u>Kimberly Clark</u>			
3	Re-instate soap holder plugged	No	150.00
4	Re-instate chromium plated towel rail 1 000mm long including end bracket	No	150.00
5	Re-instate chromium plated toilet roll holder plugged	No	140.00
6	Re-instate towel rail (re-use existing)	No	50.00
7	Re-instate toilet roll holder (re-use existing)	No	50.00
8	Re-instate bathroom cabinet (re-use existing)	No	75.00
9	Re-instate curtain rail	No	50.00
10	Re-instate blinds	No	50.00
Carried Forward to Sectional Summary: 1			R
Section No. 1 BUILDINGS Bill No. 10 IRONMONGERY PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS			

**NHBRC REMEDIAL WORKS DATABASE
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Item No		Quantity	Rate	Amount
<u>BILL NO. 11</u>				
	<u>FLOOR COVERINGS, PLASTIC LININGS, ETC</u>			
	<u>FLOOR COVERINGS</u>			
	<u>Laminated floor covering (To match existing)</u>			
1	On floors (PC amount R 300m2)	m2	405.00	
	Carried Forward to Sectional Summary: 1		R	
	Section No. 1 BUILDINGS Bill No. 11 FLOOR COVERINGS, PLASTIC LINING, ETC PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS			

**NHBRC REMEDIAL WORKS DATABASE
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Item No		Quantity	Rate	Amount
	<u>BILL NO. 12</u>			
	<u>METALWORK</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	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 concrete			
	Metalwork described as "bolted" shall be deemed to exclude the bolts unless otherwise described			
	<u>GALVANIZED PRESSED STEEL DOOR FRAMES</u>			
	<u>1,2mm Double rebated frames suitable for half brick walls</u>			
1	Frame for door 813 x 2 032mm high	No	700.00	
	<u>1,2mm Double rebated frames suitable for one brick walls</u>			
2	Frame for door 813 x 2 032mm high	No	950.00	
	<u>Standard residential windows with fixed burglar bars</u>			
3	Window 533 x 949mm high	No	1 050.00	
4	Window size 533 x 1559mm high	No	1 150.00	
5	Window size 1022 x 1559mm high	No	1 300.00	
6	Window size 1022 x 949mm high	No	1 450.00	
	Carried forward		R	
	Section No. 1 BUILDINGS Bill No. 12 METALWORK PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS			

**NHBRC REMEDIAL WORKS DATABASE
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	Brought forward		R
	<u>Burglar bars</u>		
7	Door burglar bars Door size 813 x 2032mm high (re-instate existing)	No	250.00
	<u>GALVANISED STEEL BALUSTRADES</u>		
	<u>Welded balustrades to match existing</u>		
8	Re-instate hollow section balusters to match existing	No	1 000.00
	Carried Forward to Sectional Summary: 1		R
	Section No. 1 BUILDINGS Bill No. 12 METALWORK PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS		

**NHBRC REMEDIAL WORKS DATABASE
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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 13</u></p> <p><u>PLASTERING</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>User Note</u></p> <p><u>The following preambles are to be included only when specifically required by the principal agent</u></p> <p><u>GRANOLITHIC</u></p> <p><u>Method</u></p> <p>The method to be used shall be either the monolithic method or the bonded method</p> <p><u>Preparation</u></p> <p>For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic</p> <p><u>Mix</u></p> <p>Granolithic shall attain a compressive strength of at least 41 MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10 mm mesh sieve. Where the thickness of the granolithic exceeds 25 mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic</p> <p style="text-align: right;">Carried forward</p> <p>Section No. 1 BUILDINGS Bill No. 13 PLASTERING PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS</p>			R

**NHBRC REMEDIAL WORKS DATABASE
 REMEDIAL WORKS CONTRACTORS PANEL**

<p style="text-align: center;">Brought forward</p> <p><u>Panels</u></p> <p>Granolithic shall be laid in panels not exceeding 14m² for monolithic finishes, not exceeding 9,5m² for bonded finishes and not exceeding 6m² for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width</p> <p>Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints</p> <p><u>Laying</u></p> <p>Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels</p> <p>Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels</p> <p>After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated</p> <p><u>Curing, seasoning and protection</u></p> <p>Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying</p>		R
<p style="text-align: center;">Carried forward</p> <p>Section No. 1 BUILDINGS Bill No. 13 PLASTERING PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS</p>		R

**NHBRC REMEDIAL WORKS DATABASE
 REMEDIAL WORKS CONTRACTORS PANEL**

<p style="text-align: center;">Brought forward</p> <p><u>Colour</u></p> <p>Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour</p>		R
<p style="text-align: center;">Carried forward</p> <p>Section No. 1 BUILDINGS Bill No. 13 PLASTERING PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS</p>		R

**NHBRC REMEDIAL WORKS DATABASE
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Brought forward			R
<u>SCREEDS</u>			
<u>Screeds on concrete</u>			
1	25mm Thick on floors and landings	m2	95.00
2	70mm Average thick screed to falls	m2	110.00
3	50 x 50mm Triangular fillets against walls, kerbs, etc	m	45.00
<u>INTERNAL PLASTER</u>			
<u>Cement plaster on brickwork</u>			
4	On walls	m2	95.00
5	On narrow widths	m2	115.00
<u>Rhinolite</u>			
6	One coat Rhinolite to soffits and ceiling	m2	50.00
7	One coat Rhinolite on walls	m2	50.00
<u>EXTERNAL PLASTER</u>			
<u>Cement plaster on brickwork</u>			
8	On walls	m2	115.00
9	On narrow widths	m2	140.00
<u>METAL LATHING</u>			
<u>12 x 40mm Expanded steel mesh lathing with 1,6 x 2,5mmstrands (mass 4,1kg/m²)</u>			
10	On walls	m2	90.00
Carried Forward to Sectional Summary: 1			R
Section No. 1 BUILDINGS Bill No. 13 PLASTERING PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS			

**NHBRC REMEDIAL WORKS DATABASE
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Item No		Quantity	Rate	Amount
	<u>BILL NO. 14</u>			
	<u>TILING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
	<u>FLOOR TILING</u>			
	<u>600x600x10mm Porcelain floor tiles (To match existing) (PC R 200/m2) fixed with adhesive on to screed (Including the treating of screed with bonding liquid) and flush pointed waterproofing grout.</u>			
1	On floors	m2	450.00	
	<u>400x400x8mm Ceramic floor tiles (To match existing) (PC R 100/m2) fixed with adhesive on to screed (Including the treating of screed with bonding liquid) and flush pointed waterproofing grout.</u>			
2	On floors	m2	350.00	
	<u>WALL TILING</u>			
	<u>600x600x10mm Porcelain Wall tiles (To match existing) (PC R 200/m2) fixed with adhesive on to walls and flush pointed waterproofing grout.</u>			
3	On walls	m2	450.00	
4	Skirting tiles 100mm high (of cut tiles)	m	85.00	
	Carried forward			R
	Section No. 1 BUILDINGS Bill No. 14 TILING PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS			

NHBRC REMEDIAL WORKS DATABASE
REMEDIAL WORKS CONTRACTORS PANEL

	Brought forward		R
	<u>400x400x8mm Ceramic Wall tiles (To match existing) (PC R 100/m2) fixed with adhesive on to walls and flush pointed waterproofing grout.</u>		
5	On walls	m2	350.00
6	On walls in isolated panels, splashbacks, etc	m2	400.00
7	Skirting tiles 100mm high (of cut tiles)	m	55.00
 Carried Forward to Sectional Summary: 1			 R
Section No. 1 BUILDINGS Bill No. 14 TILING PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS			

**NHBRC REMEDIAL WORKS DATABASE
 REMEDIAL WORKS CONTRACTORS PANEL**

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 15</u></p> <p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>uPVC pipes and fittings:</u></p> <p>soil, waste and vent pipes and fittings shall be solvent weld jointed</p> <p><u>Copper pipes:</u></p> <p>Pipes shall be hard drawn and half-hard pipes of class 1 and only be bent with benders with inner and outler former. fittings. fittings to copper pipes to be capillary type complying with ISO 2016.</p> <p><u>Laying, backfilling, bedding, etc of pipes</u></p> <p>Pipes shall be laid and bedded and trenches shall be carefully backfilling in accordance with manufacturer's instructions</p> <p><u>Waste union</u></p> <p>Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings</p> <p><u>SOIL DRAINAGE</u></p> <p><u>uPVC pipes</u></p>			
1	110mm pipes laid in and including trenches not exceeding 1m deep	m	150.00	
	<p><u>Extra over uPVC pipes for fittings</u></p>			
2	110mm bend	No	80.00	
	Carried forward			R
	<p>Section No. 1 BUILDINGS Bill No. 15 PLUMBING AND DRAINAGE PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS</p>			

**NHBRC REMEDIAL WORKS DATABASE
 REMEDIAL WORKS CONTRACTORS PANEL**

	Brought forward		R
3	110mm IE Junction	No	100.00
4	110mm Rodding eye cover in end of pipes	No	140.00
5	110mm Junction	No	150.00
	<u>Gulley</u>		
6	110mm gulley not exceeding 500mm deep	No	550.00
	<u>WASTE UNIONS ETC</u>		
	<u>'Cobra Watertech'</u>		
7	32mm Basin waste Union	No	150.00
8	32mm Bath overflow union	No	150.00
9	38mm Bath waste union	No	185.00
10	38mm Shower waste union	No	200.00
	<u>TRAPS ETC</u>		
	<u>uPVC</u>		
11	32 x 40mm deep seal "P" trap	No	125.00
12	40mm Bath trap complete with overflow outlet and pipe	No	250.00
	<u>Marley</u>		
13	40 x 300mm Sink combination for double bowl deepseal	No	275.00
	Brass		
14	40mm Shower trap including stainless steel grating	No	220.00
	<u>TAPS, VALVES, ETC</u>		
	Carried forward		R
	Section No. 1 BUILDINGS Bill No. 15 PLUMBING AND DRAINAGE PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS		

**NHBRC REMEDIAL WORKS DATABASE
 REMEDIAL WORKS CONTRACTORS PANEL**

Brought forward			R
<u>Cobra watertech</u>			
15	15mm Stopcock	No	125.00
16	Re-instate sink taps (re-use existing)	No	250.00
17	Re-instate bath taps (re-use existing)	No	250.00
18	Re-instate basin tap (re-use existing)	No	250.00
19	Re-instate shower arm and rose including taps	No	300.00
20	Re-instate washing mashine tap (re-use existing)	No	250.00
<u>Brass</u>			
21	Re-instate garden tap (re-use existing)	No	250.00
<u>SANITARY PLUMBING</u>			
<u>uPVC pipes</u>			
22	50mm Pipes	m	65.00
23	110mm Pipes	m	90.00
<u>Extra over uPVC pipes for fittings</u>			
24	50mm Bend	No	50.00
25	50mm Access bend	No	50.00
26	50mm Access junction	No	50.00
27	50mm Vent valve	No	50.00
28	110mm Access bend	No	125.00
29	110mm Junction	No	125.00
30	110mm Pan connector	No	125.00
Carried forward			R
Section No. 1 BUILDINGS Bill No. 15 PLUMBING AND DRAINAGE PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS			

**NHBRC REMEDIAL WORKS DATABASE
 REMEDIAL WORKS CONTRACTORS PANEL**

Brought forward			R
31	110 x 50 x 50mm Reducing junction	No	170.00
32	110 x 50mm Reducer	No	170.00
<u>WATER SUPPLIES</u>			
<u>Class 1 copper pipes</u>			
33	15mm Pipes	m	75.00
34	22mm Pipes	m	90.00
<u>Extra over class 1 copper pipes for capillary fittings</u>			
35	15mm Fittings	No	35.00
36	22mm Fittings	No	40.00
<u>Sundries</u>			
37	150mm Brick bath surrounding wall	m2	275.00
38	Internal cement plaster to bath surrounding brick wall	m2	100.00
<u>ELECTRIC WATER HEATER</u>			
<u>"Kwikot"</u>			
39	Re-instate electrical water heater including drip tray and pressure valves.	No	1 200.00
<u>Sundries</u>			
40	Allowance for testing plumbing system	Item	
41	Provide certification of the plumbing works	Item	
Carried Forward to Sectional Summary: 1			R
Section No. 1 BUILDINGS Bill No. 15 PLUMBING AND DRAINAGE PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS			

**NHBRC REMEDIAL WORKS DATABASE
 REMEDIAL WORKS CONTRACTORS PANEL**

Item No		Quantity	Rate	Amount
	<u>BILL NO. 16</u>			
	<u>ELECTRICAL WORK</u>			
	<u>User note</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Switches, socket outlets, etc</u>			
	Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates			
	<u>Light fittings</u>			
	Rates for light fittings are to include for hanging, fixing and connecting and for lamp holders and fluorescent tubes and lamps of the type and wattage described			
	<u>Electrical installation and Connection</u>			
1	Re-instate all light fittings, light switches, including new wiring and conduits chased into brick walls etc.	No	450.00	
2	Re-instate all wall sockets (single and double), including new wiring and conduits chase into brick walls etc.	No	450.00	
3	Re-instate isolators, including new wiring and conduits chase into brick walls etc.	No	550.00	
4	Re-instate Distrubition Board including brakers, wiring, conduits etc.	No	1 500.00	
	<u>TESTING</u>			
5	Testing and Providing certification of the electrical works (COC)	Item		
	Carried Forward to Sectional Summary: 1			R
	Section No. 1 BUILDINGS Bill No. 16 ELECTRICAL WORK PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS			

**NHBRC REMEDIAL WORKS DATABASE
 REMEDIAL WORKS CONTRACTORS PANEL**

Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 17</u></p> <p><u>PAINTWORK</u></p> <p><u>User note</u></p> <p>The following four items, given as examples, have been set up to comply with the munsell system (the extra over option) as prescribed in the standard system of measuring building work and should be inserted at the end of each type of paint where applicable.</p> <p>Extra over paintwork to all areas, for paintwork in colours which have a value of 7 or less based on the munsell system m2</p> <p>Extra over paintwork to gates, grilles, burglar screens balustrades, etc, for paintwork in colours which have a value of 7 or less based on the munsell</p> <p>Extra over paintwork to skirtings, rails, etc not exceeding 300mm girth for paintwork in colours which have a value of 7 or less based on the munsell system m</p> <p><u>Note</u></p> <p>It has however become evident that application problems exist with the said " Munsell" system and unit such time as the standard system building work is adjusted to overcome these problems users should determine from the relevant manufacturer which of their colour grouping differ appreciably in price and adjust description accordingly.</p> <p style="text-align: right;">Carried forward</p>			R
	<p>Section No. 1 BUILDINGS Bill No. 17 PAINTWORK PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS</p>			

**NHBRC REMEDIAL WORKS DATABASE
 REMEDIAL WORKS CONTRACTORS PANEL**

	Brought forward		R
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>PREPARATORY WORK TO EXISTING WORK</u></p> <p><u>Previously painted plastered surfaces</u></p> <p>Surface shall be thoroughly washed down and allowed to dry complete before any paint is applied. Blistered or peeling paint shall be complete removed and cracks shall be opened, filled with a suitable filler and finished smooth</p> <p><u>Previously painted metal surfaces</u></p> <p>Surface shall be thoroughly rubbed and cleaned down blistered or peeling paint shall be complete removed down bare metal</p> <p><u>Previously painted wood surfaces</u></p> <p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finish smooth</p> <p><u>COLOURS</u></p> <p>Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on the munsell system in accordance with SANS 1091</p> <p><u>PAINTWORK ETC TO NEW WORK</u></p> <p><u>ON INTERNAL FLOATED PLASTER SURFACES</u></p> <p><u>Prepare and apply one coat primer and two coats quality paint to match existing (Plascon Product)</u></p>		
1	On walls	m2	70.00
	Carried forward		R
	<p>Section No. 1 BUILDINGS Bill No. 17 PAINTWORK PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS</p>		

**NHBRC REMEDIAL WORKS DATABASE
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Brought forward			R
<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>			
<u>Prepare and apply one coat primer and two coats quality paint to match existing (Plascon Product)</u>			
2	On walls	m2	70.00
<u>ON WOOD SURFACES</u>			
<u>Prepare and apply one under coat and two coats high quality paint to match existing</u>			
3	Doors	m2	70.00
4	On door frames etc	m2	70.00
<u>Prepare and apply three coats superior quality clear gloss varnish</u>			
5	Doors	m2	70.00
<u>ON SMOOTH CONCRETE SURFACES</u>			
<u>One undercoat and two coats premium quality highly washable paint to match existing. Applied strictly to manufacturer's specification (Plascon)</u>			
6	Ceilings and Beams	m2	70.00
<u>ON FIBRE-CEMENT BOARD SURFACES</u>			
<u>Prepare and apply one coat primer and two coats high quality acrylic emulsion paint</u>			
7	Ceilings and cornices, including priming metal cover strips and nail heads	m2	70.00
<u>PAINTWORK ETC TO PREVIOUSLY PAINTED WORK</u>			
Carried forward			R
Section No. 1 BUILDINGS Bill No. 17 PAINTWORK PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS			

**NHBRC REMEDIAL WORKS DATABASE
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Brought forward			R
<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
<u>Two coats premium quality highly washable paint on work in sound condition to match existing. Applied strictly to manufacturer's specification</u>			
8	On walls	m2	60.00
<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>			
<u>Two coats superior quality acrylic emulsion paint on work in sound condition to match existing (Dulux Wall and All or similar approved)</u>			
9	On external walls	m2	60.00
<u>ON SMOOTH CONCRETE SURFACES</u>			
<u>Two coats premium quality highly washable paint on work in sound condition to match existing. Applied strictly to manufacturer's specification (Plascon or Dulux)</u>			
10	Ceilings and Beams	m2	60.00
<u>PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK</u>			
<u>Prepare and apply two coats enamel paint to match existing</u>			
11	Window frames including burglar bars	m2	60.00
Carried Forward to Sectional Summary: 1			R
Section No. 1 BUILDINGS Bill No. 17 PAINTWORK PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS			

**NHBRC REMEDIAL WORKS DATABASE
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Item No		Quantity	Rate	Amount
	<p><u>BILL NO. 18</u></p> <p><u>EXTERNAL WORK</u></p> <p><u>LANDSCAPING</u></p>			
1	<p>Allowance for making good of landscaping after construction work</p>	Item		
	<p><u>ROADWORK,PARKING AREAS AND PAVING</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Testing of material and filling</u></p> <p>Description of earth filling, compacted, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series</p> <p><u>Precast concrete block road surfacing</u></p> <p>Paving shall be laid in accordance with SABS 1200 MJ, SANS 1058 and the Concrete Masonry Association's specifications.</p> <p>Paving shall be laid to herringbone pattern on 20mm thick (thickness after final compaction) clean river sand</p> <p>Clean sand shall be swept into joints between roadstone at completion.</p> <p><u>Compaction of surfaces</u></p>			
2	<p>Compaction of ground surfaces under paving etc, compacting to 93% Mod AASHTO density including "Modified AASHTO Density" test</p>	m2	50.00	
	<p style="text-align: right;">Carried forward</p>		R	
	<p>Section No. 1 BUILDINGS Bill No. 18 EXTERNAL WORK PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS</p>			

**NHBRC REMEDIAL WORKS DATABASE
 REMEDIAL WORKS CONTRACTORS PANEL**

	Brought forward		R
	<u>Re-instate precast concrete interlocking block paving in accordance with SANS 1058, laid to falls on and including 25mm thick sand layer with joints filled in with sand, compacted with a vibration compactor</u>		
3	Paving to apron areas etc to falls	m2	100.00
	<u>Grassing ground covers, etc</u>		
4	Artificial grass	m2	130.00
	Carried Forward to Sectional Summary: 1		R
	Section No. 1 BUILDINGS Bill No. 18 EXTERNAL WORK PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS		

**NHBRC REMEDIAL WORKS DATABASE
 REMEDIAL WORKS CONTRACTORS PANEL**

Bill No	Section No. 1 BUILDINGS <u>SECTION SUMMARY - BUILDINGS</u>	Page No	Amount
1	PRELIMINARIES AND GENERALS	5	
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9	CEILING,PARTITIONS AND ACCESS FLOORING	39	
10	IRONMONGERY	41	
11	FLOOR COVERINGS, PLASTIC LINNING, ETC	42	
12	METALWORK	44	
13	PLASTERING	48	
14	TILING	50	
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16	ELECTRICAL WORK	55	
17	PAINTWORK	59	
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	Carried to Final Summary		R
	Section No. 1 BUILDINGS PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS		

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Section No	<u>FINAL SUMMARY</u>	Page No		Amount
1	BUILDINGS	62		
	SUB TOTAL		R	
	<u>BUDGETARY ALLOWANCE</u>			
	Allow a budgetary allowance of 5% of remedial works, for general demolition, etc. to be used as directed by the Quantity Surveyor.		SUM	
	SUB TOTAL		R	
	<u>CONTINGENCY</u>			
	Allow a contingency of 10% to be used as directed by the Quantity Surveyor.		SUM	
	VALUE ADDED TAX		R	
	Carried to Form of Tender		R	
	PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORKS			