

1. EXTENT OF CONTRACT

Building contract

The work embodied in the contract comprises of remedial work to House Botes, ERF 19788, Somerset West, WC.

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 tenderer 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:

- * Notes to Tenders
- * Bill of Quantities
- * Engineer's Report / Scope of work

4. BILLS OF QUANTITIES

These bills of quantities contains pages numbered consecutively as indicated in the Index. Before the contractor submits his/her tender he/she should check the number of pages, and if any obvious errors, he/she should apply to the quantity surveyor 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 material orders. The contractor may do so at his/she own risk, but shall not be reimbursed for additional cost incurred.

Unless a separate rate for the supply and installation of any items has been specifically called for, the unit price for all items shall include the supply and installation costs.

These Bill of Quantities to be priced in accordance with the Engineer's Report/Scope of works, with all the quantities being provisional and are to be re-measured on completion of the project.

For the purpose of this Bill Of Quantities, the following words shall have meanings hereby assigned to them:

Unit:	The unit of measurement for each item of work as defined in the specifications
Quantity:	The number of units of work for each item
Rate:	The price per unit of measurement at which the tenderer tenders to do the work
Amount:	The product of the quantity and the rate tendered for an item

The following abbreviations are used in the Bill Of Quantities:

mm	=	millimetre
m	=	metre
m ²	=	square metre
m ³	=	cubic metre
no	=	number
%	=	percent

All rates and sums of money quoted in the Bill Of Quantities shall be in rands and whole cents. Fractions of a cent shall be discounted.

5. MATERIAL AND LABOUR COST FLUCTUATIONS

All rates in this tender shall be fixed for the duration of the contract.

6. CONDITIONS TO BE OBSERVED IN TENDERING

- 6.1 Tenders shall include Value Added Tax.
- 6.2 The Conciliation Officer will notify the tenderer of the tender results.
- 6.3 The lowest, or any, or portion of any tender will not necessarily be accepted.
- 6.4 All tender prices/rates must be filled in on the form provided.
- 6.5 Tenders prices/rates must hold good for thirty (90) calendar days from the tender closing date as stated herein.
- 6.6 All recipients of the tender document (whether they submit a tender or not) must treat the details of the document as private and confidential.
- 6.7 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.

7. 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.

8. SITE INSPECTION

The compulsory site visit date will be communicated to the tenderer.

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.

9. SUBMISSION OF TENDERS

By Email:

The tenderer shall email The Form Of Tender and Completed Priced Bill of Quantities to scmrequests@nhbrc.org.za

Neither late tenders nor faxed tenders will be considered.

NOTES TO TENDERERS
PROVISIONAL BILL OF QUANTITIES
NHBRC REMEDIAL WORK

NAMES OF PARTIES

1. EMPLOYER

National Home Builders Registration Council
Contact Person: Tamlyn Bower
Physical Address: 27 Leeuwkop Road, Sunninghill, Johannesburg
Postal address: P O BOX 461, Randburg, 2125
Tel: (011) 317-0000
Fax: (011) 317-0105

2. ENGINEER

National Home Builders Registration Council
Contact Person : Mr Dalitso Mkandawire
Physical Address: Centennial Office Park, First Floor, East Block, Century City
Tel: 083 475 3546

3. CONCILIATION OFFICER

National Home Builders Registration Council
Contact Person : Ms Nwabisa Mayongo
Physical Address: Centennial Office Park, First Floor, East Block, Century City
Tel: 073 590 7466

4. QUANTITY SURVEYORS

National Home Builders Registration Council
Contact Person: Mr Waldo Van Rooyen
Physical Address: 27 Leeuwkop Road, Sunninghill, Johannesburg
Postal address: P O BOX 461, Randburg, 2125
Tel: (011) 317-0118

Item No		Quantity	Rate	Amount
	<u>BILL NO 1</u> <u>PRELIMINARIES AND GENERALS</u> <u>NOTES</u> The agreement is to be a "Remedial work contract agreement" that will be signed between the Employer (NHBRC) and Contractor upon acceptance of tender offer <u>Temporary works and plant</u> The contractor shall protect, uphold and maintain all public utilities and services and shall not interfere with their operation without the consent of the service authorities and the Conciliation Officer. The contractor shall notify the Conciliation Officer of any damage to such services and shall make good same at his own cost to the satisfaction of the service authorities. Fuel, power and water for commissioning of mechanical and other specialised equipment shall also include for the cost of all necessary reticulation and connections thereto The contractor shall provide noise and dust control to the approval of the Conciliation Officer. The contractor shall maintain the access roads, paths, buildings, etc., adjacent to the construction area etc., during the period of the works in a clean and rubble free condition.			
	Carried forward		R	
	Section No. 1 Bill No. 1 PRELIMINARIES AND GENERALS PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORK			

	Brought forward		R	
	<u>Identity of employees</u> All employees of the contractor and his subcontractors shall be identifiable at all times by means of ID cards, company name and logos imprinted on overalls. Any person found on site not complying with the aforementioned conditions the contractor shall be requested by Conciliation Officer, to remove such person from the site. <u>Health and safety</u> The contractor is to comply with all requirements of the Health and Safety Act <u>Housekeeping and compliance with Conciliation officer site rules</u> The contractor will be responsible for a high standard of housekeeping in his site establishment, delivery of materials and goods and removal of rubble, debris, etc., storage areas and construction working areas to the approval of the Conciliation Officer. <u>Working hours</u> Should the contractor wish to work outside normal working hours or at weekends in order to maintain his building programme, he shall notify and obtain the approval of the Conciliation Officer before doing so. The cost of this overtime will be for the contractor's account. <u>PRELIMINARIES AND GENERAL</u> <u>All risk insurance</u>			
1	Allowance for contractor's all risk insurance and all other relevant insurance etc.	Item		
	Carried forward		R	
	Section No. 1 Bill No. 1 PRELIMINARIES AND GENERALS PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORK			

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Brought forward		R
	<u>Health and Safety</u>	
2	Allowance for all health and safety requirements as deemed necessary for the successful execution of the project. (i.e All work to be in a compliance with the provisions of the OHS Act 85 of 1993 and Regulations R1010)	Item
	<u>Management of contract</u>	
3	Management of the works, programming for the works, progress meetings, technical meetings, etc	Item
	<u>Temporary works and plant</u>	
4	Plant, small tools, equipment, scaffolding etc.	Item
	<u>Temporary Services</u>	
5	Allowance for site establishment and de establishment etc. (Site office, Temporary Portable Toilet, water and electricity etc)	Item
	<u>Adhere to Estate rules and regulations</u>	
6	Allowance for registration of all workers and access cards etc. to work in the estate.	Item
Carried Forward to Sectional Summary: 1		R
Section No. 1 Bill No. 1 PRELIMINARIES AND GENERALS PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORK		

Item No		Quantity	Rate	Amount
	<u>BILL NO 2</u> <u>ALTERATIONS</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>View site</u> Before submitting the 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 <u>Explosives</u> No explosives whatsoever may be used for demolition purposes unless otherwise stated <u>General</u> The contractor shall carry out the whole of the works with as little mess and noise as possible and with minimum of disturbance to adjoining premises and their tenants. He/she 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/engineer 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/engineer. Carried forward Section No. 1 Bill No. 2 ALTERATIONS. PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORK			
			R	

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	Brought forward			R	
	Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before re fixing including taking off. easing and rehangng, cramping up, re wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all ail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately Prices for taking out doors, windows, etc shall including for removal of all beads, architraves, ironmongery, etc Prices for taking out and removing doors and frames shall include for removing door stop, cabin hook, etc and making good floor and wall finishes to match existing With regard to building up of openings in existing walls, cement screeds and pavings, granolithis, tops of walls, etc, shall be levelled and prepared for raising of brickwork Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc) All loading and carting away cost of demolished material will be included in the Rate <u>TEMPORARY BARRIERS, SCREENS, ETC</u> Temporary barriers, screens, etc including removal				
1	Heavy duty waterproofing sheets to cover the expose roof timber. Including fixing cable etc.	m2	35		
	Carried forward			R	
	Section No. 1 Bill No. 2 ALTERATIONS. PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORK				

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Brought forward			R
Temporary barriers, screens, etc including removal			
2	Heavy duty Drop sheets and Ply wood to cover all finishes, floor tiles, cupboards, bath, wash hand basin, etc.	m2	35
3	Drywall barrier 2700mm high formed of galvanised steel channel section rails and studs covered on one side with 12,7mm gypsum board panels and finished with two coats interior quality PVA emulsion paint on one side including corners, ends, etc	m	3
<u>REMOVAL OF EXISTING WORK</u>			
<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	27
<u>Breaking down and removing brickwork etc</u>			
5	Half brick wall	m2	3
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc (and setting aside for re-use)</u>			
6	Fascia and Barge boards including screws, brackets etc.	m	33
7	Ceilings including cornices, timber bandering, etc	m2	37
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc.</u>			
8	Mono Pitched Roof made of timber trusses, corrugated sheet steel roof covering, flashings and timber purlins etc. (Measured flat on floor plan)	m2	43
9	Steel Flashings including waterproofing	m	29
Carried forward			R
Section No. 1 Bill No. 2 ALTERATIONS. PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORK			

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		Brought forward		R	
	<u>Taking out and removing ironmongery etc, setting aside for re-use and later re fixing in similar new position</u>				
10	Blinds	No	2		
	<u>Taking out and removing sundry joinery work, fittings, etc, setting aside for re-use and later refixing in similar new position</u>				
11	Timber wall cupboard 600 x 2600mm high.	m	3		
	<u>Taking out/off and removing sundry metalwork, setting aside for re-use and later re fixing in similar new position and make good.</u>				
12	Gutter including stop ends etc	m	10		
13	Down pipes including bend, shoe etc	m	7		
	<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>				
14	Average 70mm Screed from slabs including waterproofing etc.	m2	36		
15	Internal plaster from walls	m2	1		
16	External plaster from walls	m2	1		
	<u>Taking out and removing electrical items, setting aside for re-use</u>				
17	Make safe all electrical work and remove all light fittings including, Light switches, wiring etc. and set aside for re-use.	No	17		
18	Make safe all electrical work and remove ceiling fans including, Light switches, wiring etc. and set aside for re-use.	No	2		
	Carried forward			R	
	Section No. 1				
	Bill No. 2				
	ALTERATIONS.				
	PROVISIONAL BILL OF QUANTITIES				
	NHBRC REMEDIAL WORK				

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BILL NO 3

EARTHWORKS (PROVISIONAL)

SUPPLEMENTARY PREAMBLES

User note

The following are typical examples of descriptions of "natureof ground"

Nature of ground

The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "soft rock" or "hard rock"

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"

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"

Carting away of excavated material

Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations.

Filling

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

Carried forward

R

Section No. 1

Bill No. 3

EARTH WORKS

PROVISIONAL BILL OF QUANTITIES

PROVISIONAL BILL OF COSTS NHBRC REMEDIAL WORK

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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>EXCAVATIONS, ETC</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
1	Trenches	m3	6		
	<u>Risk of collapse of excavations</u>				
2	Sides of trenches and holes not exceeding 1.5m deep	m2	31		
	<u>Keeping excavations free of water</u>				
3	Keeping excavations free of all water other than subterranean water		Item		
	<u>FILLING ETC</u>				
	<u>Earth Filling (G7 Material) supplied by the contractor compacted in 150mm layers to a 97% Mod AASHTO density (All as per Engineers Detail)</u>				
4	Backfilling to trenches, holes, etc	m3	4		
	<u>Stone filling of 19mm broken stone supplied by the contractor</u>				
5	In Sub soil drain trenches around pipes	m3	3		
	Carried forward			R	
	Section No. 1				
	Bill No. 3				
	EARTH WORKS				
	PROVISIONAL BILL OF QUANTITIES				
	NHBRC REMEDIAL WORK				

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Brought forward			R
<u>Compacting of surfaces</u>			
6	Bottom of Trenches	m2	8
7	Compaction of ground surface under existing paving, including scarifying for a depth of 100mm, stabilize with 2% cement and compact to 95% Mod AASHTO density. (All as per Eng. Detail)	m2	27
<u>SOIL POISING</u>			
<u>Soil insecticide in accordance with SANS 5859</u>			
8	Under paving/Apron etc	m2	27
Carried Forward to Sectional Summary: 1			R
Section No. 1 Bill No. 3 EARTH WORKS PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORK			

Item No		Quantity	Rate	Amount
	<u>BILL NO 4</u> <u>PRECAST CONCRETE</u> <u>SUPPLEMENTARY PREAMBLES</u> Sizes: Blocks, sills, etc measured linear shall be made in suitable lengths. Large size setting out drawings shall be prepared where necessary and submitted to the architect for approval before moulds are made General: Where kerbstones, blocks, etc are laid in ground descriptions shall be deemed to include necessary excavation, filling in and ramming <u>PRECAST CONCRETE</u> User note: The following precast concrete paving descriptions are only to be used when paving slabs etc are purpose made to detailed specifications and other than those available ex stock Storm water channel 250 x 610 x 90mm			
1	Storm water channel laid to falls including all ground works, levelling, compacting and 75mm blinding etc.	m	17	
	Carried Forward to Sectional Summary: 1		R	
	Section No. 1 Bill No. 4 PRECAST CONCRETE PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORK			

Item No		Quantity	Rate	Amount
	<u>BILL NO 5</u> <u>MASONRY</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Sizes in description</u> Where sizes in descriptions are given in bricks units, " one brick" shall represent the length and " half brick" the width of a brick <u>Hollow walls</u> 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 <u>User note</u> The following preambles generally applies for works in hot and humid coastal areas <u>Bagged and sealed walls</u> 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. <u>Face bricks</u> Bricks shall be ordered timeously to obtain uniformity in size and colour <u>Pointing</u> Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc Carried forward Section No. 1 Bill No. 5 MASONRY PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORK			
			R	

Brought forward <u>BLOCKWORK</u> <u>Concrete masonry units</u> Blocks are to be either solid or hollow modular dense concrete masonry units <u>Wall ties for blockwork</u> 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 <u>Blockwork</u> Blockwork shall comply with SABS 0145 "Concrete Masonry Construction" 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 <u>Standard complementary blocks</u> 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 <u>SUPERSTRUCTURE</u> Carried forward Section No. 1 Bill No. 5 MASONRY PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORK		R	
		R	

Brought forward			R
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>			
1	Half brick walls in beamfilling	m2	2
2	One brick walls	m2	3.00
<u>BRICKWORK SUNDRIES</u>			
<u>2.8mm Galvanised brick reinforcement</u>			
3	230mm Wide reinforcement built in horizontally	m	17
<u>Galvanised hoop iron cramps, ties, etc</u>			
4	4mm Diameter roof tie 2m girth bent double with one end fixed to wood and other end built into brickwork	No	12
<u>REPAIRING OF CRACKS</u>			
<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>			
5	Saw-cut neatly at least 250mm either side of crack ensuring a square cut with no further edges	m	2
6	Rake out crack to a depth of 30mm to form a v-groove and fill with Sikadur crack filler and smooth	m	2
7	Steel diamond mesh (Metal plaster lath) to walls secured with galv. nails @300mm centres	m2	2
<u>PAVING</u>			
<u>SUPPLEMENTARY PREAMBLES</u>			
Carried forward			R
Section No. 1 Bill No. 5 MASONRY PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORK			

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Item No		Quantity	Rate	Amount
	<u>BILL NO 6</u> <u>WATERPROOFING</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Waterproofing</u> Tenderer must attach manufacturer's specification for their waterproofing system Waterproofing of roofs, basements, etc shall be laid under a 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 The contractor shall provide a written five (5) years warranty for workmanship, materials and installation from the date of certified completion <u>WATERPROOFING TO ROOFS, BASEMENTS, ETC</u> <u>Prime with one coat bitumen primer and one layer 4mm fully bonded waterproof membrane (DEBIGUM CG3) comprising two bitumen layers reinforced with woven spun bonded polyester fabric and coated with polyethylene film for heat bonding, laid with 100mm side and 150mm end laps</u>			
1	On flat floors	m2	36	
	<u>Prime with one coat bitumen primer and one layer 4mm fully bonded waterproof membrane (DEBIGUM CG4) comprising two bitumen layers reinforced with woven spun bonded polyester fabric and coated with polyethylene film for heat bonding, laid with 100mm side and 150mm end laps</u>			
2	On top and sides of parapet walls	m2	15	
	Carried forward		R	
	Section No. 1 Bill No. 6 WATERPROOFING PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORK			

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Item No		Quantity	Rate	Amount
	<u>BILL NO 7</u> <u>ROOF COVERINGS</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>ROOFS ETC</u> <u>PROFILED METAL SHEETING AND ACCESSORIES</u> 0.5mm IBR Chroma Deck roof sheeting (Colour to match existing) fixed to timber purlins or rails. (All as per specification)			
1	Roof covering including roof screws, washers, roof underlay etc, with Mono pitch roof not exceeding 25 degrees (Measured flat on plan) 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 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	m2	44	
	Carried forward		R	
	Section No. 1 Bill No. 7 ROOF COVERINGS PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORK			

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>Decorative laminate finish:</u> Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish <u>ROOFS ETC</u> <u>PLATED NAILED TIMBER ROOF TRUSS CONSTRUCTION ETC</u> The following is applicable in respect of roof trusses: Trusses are at maximum 900mm centres Roof covering are 450mm centres on battens Carried forward Section No. 1 Bill No. 8 CARPENTRY AND JOINERY PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORK			
			R	

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	Brought forward			R	
	References given in descriptions refer to the respective types of trusses details on the architect/engineer's drawings				
	Dimension in descriptions of trusses are nominal and actual measurements are to be obtained from the architect/engineer and/or taken on site before design or fabrication commences				
	<u>Sawn softwood Graded 5 SA PINE</u>				
1	38x114mm wall plate	m	10		
2	228 x 50mm Rafter build into brick work on one end and screwed to Truss hangers (Teco clamps) at other end. (All as per the Engineers detail)	m	54		
	SA Pine Sawn softwood				
3	76 x 50mm Cross bracing	m	17		
4	38 x 38mm Purlins	m	68		
	Sundries				
5	Two coats creosote on sawn timbers	m2	2		
6	90 x 50 x 1.6mm Truss Hangers	No	12		
	<u>EAVES, VERGES, ETC</u>				
	"Everite Flexit" pressed nutec-cement				
7	80 x 275 x 6mm fascia board including galvanised steel H-profile jointing strips etc	m	14		
	Carried Forward to Sectional Summary: 1			R	
	Section No. 1				
	Bill No. 8				
	CARPENTRY AND JOINERY				
	PROVISIONAL BILL OF QUANTITIES				
	NHBRC REMEDIAL WORK				

Item No		Quantity	Rate	Amount
	<u>BILL NO 9</u> <u>CEILING, PARTITIONS AND ACCESS FLOORING</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Fixing</u> 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 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>Ceilings</u> Unless otherwise described ceilings shall be deemed to be horizontal <u>Bulkheads</u> 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 Bulkheads have only been described as such where they conform 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 Unless otherwise described bulkheads shall be deemed to be horizontal along the length Carried forward Section No. 1 Bill No. 9 CEILINGS, PARTITIONS AND ACCESS FLOORING PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORK			
			R	

	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 brandering at 400mm centres	m2	37		
2	Extra over ceiling for opening for 75mm diameter down lighter	No	12		
	<u>SUNDRIES</u>				
	<u>Insulation</u>				
3	50mm insulation closely fitted and laid on top of brandering between roof timbers, etc	m2	37		
	Carried Forward to Sectional Summary: 1			R	
	Section No. 1 Bill No. 9 CEILINGS, PARTITIONS AND ACCESS FLOORING PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORK				

Item No		Quantity	Rate	Amount
	<u>BILL NO 10</u> <u>PLASTERING</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>User Note</u> <u>The following preambles are to be included only when specifically required by the principal agent</u> <u>GRANOLITHIC</u> <u>Method</u> The method to be used shall be either the monolithic method or the bonded method <u>Preparation</u> 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 <u>Mix</u> 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 Carried forward Section No. 1 Bill No. 10 PLASTERING PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORK			
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	Brought forward		R	
	<u>Panels</u> 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 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 <u>Laying</u> Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels 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 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 <u>Curing, seasoning and protection</u> Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying <u>Colour</u> Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour			
	Carried forward		R	
	Section No. 1 Bill No. 10 PLASTERING PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORK			

Item No			Quantity	Rate	Amount
	<u>BILL 11</u>				
	<u>PLUMBING AND DRAINAGE</u>				
	<u>(PROVISIONAL)</u>				
	<u>RAINWATER DISPOSAL</u>				
	"Watertite" aluminium				
1	100 x 100mm Eaves gutters (Seamless Box gutter)	m	10		
2	100mm Diameter rainwater pipes including bend and shoe etc	m	7		
	uPVC pipes				
3	100mm Diameter rainwater pipes including shoe etc.	m	4		
	<u>HOLES ETC</u>				
	<u>Core drilling hole exceeding 50mm and not exceeding 100mm diameter</u>				
4	330mm brick wall	No	3		
	<u>SUBSOIL DRAINAGE</u>				
	<u>FILTER FABRIC</u>				
	<u>Geotextile membrane (All as per Engineers specification)</u>				
5	Around stone filling in sub-soil drain trenches	m2	29		
	<u>Slotted uPVC flexible drainage pipes</u>				
6	110mm Perforated Pipes laid in stone encasing (encasing elsewhere)	m	18		
	Carried forward			R	
	Section No. 1				
	Bill No. 11				
	PLUMBING AND DRAINAGE				
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Brought forward				R
	<u>Extra over slotted uPVC flexible drainage pipes for fittings</u>			
7	110mm End cap	No	1	
Carried Forward to Sectional Summary: 1				R
Section No. 1 Bill No. 11 PLUMBING AND DRAINAGE PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORK				

Item No		Quantity	Rate	Amount
	<u>BILL NO 12</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	17	
2	Re-instate ceiling fans including new wiring and conduits chased into brick walls etc.	No	2	
	<u>TESTING</u>			
3	Testing and Providing certification of the electrical works (COC)	Item		
	Carried Forward to Sectional Summary: 1		R	
	Section No. 1			
	Bill No. 12			
	ELECTRICAL WORK			
	PROVISIONAL BILL OF QUANTITIES			
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Item No		Quantity	Rate	Amount
	<u>BILL NO 13</u> <u>PAINTWORK</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>PREPARATORY WORK TO EXISTING WORK</u> <u>Previously painted plastered surfaces</u> 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 finished smooth <u>Previously painted metal surfaces</u> Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal <u>Previously painted wood surfaces</u> Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth <u>PAINT SPECIFICATIONS</u> All painting shall be done in accordance with Plascon or Dulux specifications unless otherwise described <u>COLOURS</u> Unless otherwise described all paintwork shall be deemed to have a colour value in excess of 7 on Munsell system in accordance with SANS 1091 Carried forward Section No. 1 Bill No. 13 PAINTWORK PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORK			
			R	

		Brought forward		R	
		<u>PAINTWORK ETC TO PREVIOUSLY PAINTED WORK</u>			
		<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 (Plascon or Dulux)</u>			
1	On walls	m2	184		
		<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)</u>			
2	On walls	m2	95		
		<u>PAINTWORK ETC TO NEW WORK</u>			
		<u>ON FIBRE-CEMENT BOARD SURFACES</u>			
		<u>Prepare and apply one coat primer and two coats high quality acrylic emulsion paint</u>			
3	Fascia and Barge Boards , including priming metal cover strips and nail heads	m2	6		
		<u>One undercoat and two coats premium quality highly washable paint to match existing. Applied strictly to manufacturer's specification (Plascon)</u>			
4	Ceilings and Beams	m2	37		
		<u>ON SMOOTH CONCRETE SURFACES</u>			
		Carried forward		R	
		Section No. 1 Bill No. 13 PAINTWORK PROVISIONAL BILL OF QUANTITIES NHBRC REMEDIAL WORK			

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<u>FINAL SUMMARY</u> BUILDINGS SUB TOTAL <u>CONTINGENCY</u> Allow a contingency of 10% to be used as directed by the Engineer VALUE ADDED TAX Carried to Form of Tender <i>PROVISIONAL BILL OF QUANTITIES</i> <i>NHBRC REMEDIAL WORK</i>		