

REPAIRS & MAINTENANCE TO DOULL ROAD MECHANICAL WORKSHOP ROOF

Item	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	PROVISIONAL BILL OF QUANTITIES				
	<u>SECTION NO. 1</u>				
	<u>BILL NO.01</u>				
	<u>PRELIMINARIES</u>				
	The P&G's are priced excluding Vat but are inclusive of all items and expressed as a percentage amount of the Contract Sum in the appropriate category as indicated in a percentage amount to form a Final Contract Amount. (%)	Item	1		
	Carried to Summary				
	<u>SECTION NO. 3</u>				
	<u>BILL NO. 01</u>				
	<u>REPAIR WORKSHOP</u>				
	<u>ALTERATIONS</u>				
	<u>PREAMBLES</u>				
	The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.				
	<u>REMOVAL OF EXISTING WORK</u>				
	<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc off site</u>				
1	Damaged corrugated iron roof covering	m ²	390		
2	Timber purlins	m	384		
3	Fascia boards	m	48		
4	Bargeboards	m	32		
5	Gutters	m	48		
6	Rainwater pipes	m	14		

		Carried Forward		
<u>WORKSHOP SHELTER</u>				
<u>REMOVAL OF EXISTING WORK</u>				
7	Damaged corrugated iron roof covering	m ²	70	
8	Gutters	m	15,2	
9	Rainwater pipes	m	7	
10	3,5m high Steel Pole size 75 x 75 x 3mm thick square tubing, saw cut and dig out from concrete base	No	1	
		Carried Forward		
<u>EXTENSION WORKSHOP</u>				
11	Damaged corrugated iron roof covering	m ²	520	
12	Fascia boards	m	50	
13	Bargeboards	m	22	
14	Gutters	m	50	
15	Industrial box gutters	m	20	
16	Rainwater pipes	m	56	
17	Whirlybirds	no	6	
		Carried Forward		
<u>MAIN WORKSHOP 1</u>				
18	Damaged corrugated iron roof covering	m ²	893	
19	Steel flat bar purlins	m	640	

20	Perspex side cladding	m ²	160	
21	Fascia boards	m	80	
22	Bargeboards	m	24	
23	Gutters	m	80	
24	Rainwater pipes	m	56	
25	Whirlybirds	no	8	
26	Sisalation	m ²	893	
		Carried Forward		
<u>EXTENSION TO WORKSHOP 1</u>				
27	Damaged corrugated iron roof covering	m ²	240	
28	Timber purlins	m	384	
29	Fascia boards	m	40	
30	Bargeboards	m	12	
31	Gutters	m	40	
32	Rainwater pipes	m	14	
		Carried Forward		
<u>MAIN WORKSHOP 2</u>				
33	Damaged corrugated iron roof covering	m ²	800	
34	Gutters	m	70	
35	Rainwater pipes	m	48	
36	Whirlybirds	no	6	

37	Sisalation	m ²	800	
	Carried Forward			
	<u>WASH BAY</u>			
38	Damaged corrugated iron roof covering	m ²	308	
39	Fascia boards	m	70	
40	Bargeboards	m	41	
41	Gutters	m	30	
42	Rainwater pipes	m	36	
	Carried Forward			
	<u>WASH BAY STORAGE ROOM</u>			
43	Taking up and removing damaged Derbigum	m ²	80	
	Carried Forward			
	Carried to Summary			
	<u>BILL NO. 02</u>			
	<u>WASH BAY</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>SUPPLEMENTARY PREAMBLES</u>			

Proprietary products in descriptions:

Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.

WATERPROOFING TO ROOFS

One layer Derbigum SP4 waterproofing membrane or equal Architect approved, with 75mm side laps and 100mm end laps, sealed to primed surface to falls and crossfalls by "torch-fusion" including protection of 50mm thick layer clean 19-25mm crushed stone on Interdek separation layer. Waterproofing to be installed by an Approved Derbigum Contractor under a ten-year guarantee.

44	On flat roofs.	m ²	80
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45	Sealing edges to brickwork or concrete	m	25
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Two coats bituminous aluminium paint

46	On waterproofing to roofs	m ²	80
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Carried to Summary

BILL NO. 03

REPAIR WORKSHOP

ROOF COVERINGS ETC.

PREAMBLES

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SUPPLEMENTARY PREAMBLES

Proprietary products in descriptions:

	Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent. <u>Fixing:</u> Finished structure to comply with latest amendmenr of SABS 0400 <u>Guarantee:</u> The contractor will be required to provide a written guarantee, stating that :1. The roof sheeting is of the specified thickness.2. The client is indemnified against any defects, including colour deterioration for a minimum period of 15 years. <u>Pricing:</u> Prices for roof covering and cladding are to include for all necessary drive screws, hook bolts, sheet bolts, nuts, washers, etc., for drilling holes for screws and bolts including removing all swarf from the sheeting and all right angle cutting and waste (Measured net). <u>CORRUGATED METAL SHEETING AND ACCESSORIES</u> <u>0.53mm Factory painted Chromadek roof sheeting (colour as per Architect's approval) on existing purlins. Sheetting shall be drilled and not punched for fixing of the screws. Use "Dunrose" or equally approved convex head screws of 75mm in conjunction with neoprene and metal washers. All fixing etc to be carried out in strict accordance with the manufacturers instructions:</u>			
47	0.53mm Chromadek sheeting	m ²	390	
	<u>0.58mm Nominal thickness ditto, but flashings:</u>			
48	Ridge Capping 500mm girth bent thrice, fixed to roof sheeting	m	48	
49	Broadflute Polyclosures under flashing	m	48	
	<u>ROOF AND WALL INSULATION</u>			
	<u>Alucushion thermal insulation or similar approved heavy industrial grade aluminium foil based</u>			
50	Insulation laid taut over rafters (at approximately 950mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m ²	390	
	<u>0.53mm SHEET METAL FLASHINGS, LININGS, COPINGS, ETC</u>			
51	Gable trim 550mm girth and three times bent along girth.	m ²	24	
	Carried Forward			
	<u>WORKSHOP SHELTER</u>			

	<u>CORRUGATED METAL SHEETING AND ACCESSORIES</u>			
	<u>0.53mm Factory painted Chromadek roof sheeting (colour as per Architect's approval) on existing purlins. Sheeting shall be drilled and not punched for fixing of the screws. Use "Dunrose" or equally approved convex head screws of 75mm in conjunction with neoprene and metal washers. All fixing etc to be carried out in strict accordance with the manufacturers instructions:</u>			
52	0.53mm Chromadek sheeting	m ²	70	
	Carried Forward			
	<u>EXTENSION WORKSHOP</u>			
	<u>CORRUGATED METAL SHEETING AND ACCESSORIES</u>			
	<u>0.53mm Factory painted Chromadek roof sheeting (colour as per Architect's approval) on existing purlins. Sheeting shall be drilled and not punched for fixing of the screws. Use "Dunrose" or equally approved convex head screws of 75mm in conjunction with neoprene and metal washers. All fixing etc to be carried out in strict accordance with the manufacturers instructions:</u>			
53	0.53mm Chromadek sheeting	m ²	520	
	<u>ROOF AND WALL INSULATION</u>			
	<u>Alucushion thermal insulation or similar approved heavy industrial grade aluminium foil based</u>			
54	Insulation laid taut over rafters (at approximately 950mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m ²	520	
	<u>0.53mm SHEET METAL FLASHINGS, LININGS, COPINGS, ETC</u>			
55	Gable trim 550mm girth and three times bent along girth.	m ²	28	
	Carried Forward			
	<u>MAIN WORKSHOP 1</u>			
	<u>CORRUGATED METAL SHEETING AND ACCESSORIES</u>			
	<u>0.53mm Factory painted Chromadek roof sheeting (colour as per Architect's approval) on existing purlins. Sheeting shall be drilled and not punched for fixing of the screws. Use "Dunrose" or equally approved convex head screws of 75mm in conjunction with neoprene and metal washers. All fixing etc to be carried out in strict accordance with the manufacturers instructions:</u>			

56	0.53mm Chromadek sheeting	m ²	893	
	<u>0.53mm Nominal thickness ditto, but flashings:</u>			
57	Ridge Capping 500mm girth bent thrice, fixed to roof sheeting	m	56	
58	Broadflute Polyclosures under flashing	m	56	
	<u>ROOF AND WALL INSULATION</u>			
	<u>Alucushion thermal insulation or similar approved heavy industrial grade aluminium foil based</u>			
59	Insulation laid taut over rafters (at approximately 950mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m ²	893	
	<u>0.53mm SHEET METAL FLASHINGS, LININGS, COPINGS, ETC</u>			
60	Gable trim 550mm girth and three times bent along girth.	m ²	44	
	Carried Forward			
	<u>EXTENSION TO WORKSHOP 1</u>			
	<u>CORRUGATED METAL SHEETING AND ACCESSORIES</u>			
	<u>0.53mm Factory painted Chromadek roof sheeting (colour as per Architect's approval) on existing purlins. Sheeting shall be drilled and not punched for fixing of the screws. Use "Dunrose" or equally approved convex head screws of 75mm in conjunction with neoprene and metal washers. All fixing etc to be carried out in strict accordance with the manufacturers instructions:</u>			
61	0.53mm Chromadek sheeting	m ²	240	
	<u>ROOF AND WALL INSULATION</u>			
	<u>Alucushion thermal insulation or similar approved heavy industrial grade aluminium foil based</u>			
62	Insulation laid taut over rafters (at approximately 950mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m ²	240	
	<u>0.53mm SHEET METAL FLASHINGS, LININGS, COPINGS, ETC</u>			
63	Gable trim 550mm girth and three times bent along girth.	m ²	22	
	Carried Forward			
	<u>MAIN WORKSHOP 2</u>			

<u>CORRUGATED METAL SHEETING AND ACCESSORIES</u>				
<u>0.53mm Factory painted Chromadek roof sheeting (colour as per Architect's approval) on existing purlins. Sheetting shall be drilled and not punched for fixing of the screws. Use "Dunrose" or equally approved convex head screws of 75mm in conjunction with neoprene and metal washers. All fixing etc to be carried out in strict accordance with the manufacturers instructions:</u>				
64	0.53mm Chromadek sheeting	m ²	800	
<u>0.53mm Nominal thickness ditto, but flashings:</u>				
65	Ridge Capping 500mm girth bent thrice, fixed to roof sheeting	m	35	
66	Broadflute Polyclosures under flashing	m	35	
<u>ROOF AND WALL INSULATION</u>				
<u>Alucushion thermal insulation or similar approved heavy industrial grade aluminium foil based</u>				
67	Insulation laid taut over rafters (at approximately 950mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m ²	800	
<u>0.53mm SHEET METAL FLASHINGS, LININGS, COPINGS, ETC</u>				
68	Gable trim 550mm girth and three times bent along girth.	m ²	19	
Carried Forward				
<u>WASH BAY</u>				
<u>CORRUGATED METAL SHEETING AND ACCESSORIES</u>				
<u>0.53mm Factory painted Chromadek roof sheeting (colour as per Architect's approval) on existing purlins. Sheetting shall be drilled and not punched for fixing of the screws. Use "Dunrose" or equally approved convex head screws of 75mm in conjunction with neoprene and metal washers. All fixing etc to be carried out in strict accordance with the manufacturers instructions:</u>				
69	0.53mm Chromadek sheeting	m ²	308	
<u>0.53mm Nominal thickness ditto, but flashings:</u>				
70	Ridge Capping 500mm girth bent thrice, fixed to roof sheeting	m	15	

71	Broadflute Polyclosures under flashing	m	15	
	<u>0.53mm SHEET METAL FLASHINGS, LININGS, COPINGS, ETC</u>			
72	Gable trim 550mm girth and three times bent along girth.	m ²	39	
	Carried Forward			
	Carried to Summary			
<u>BILL NO. 04</u>				
	<u>REPAIR WORKSHOP</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Prefabricated roof trusses:</u>			
	Prefabricated timber roof trusses shall be constructed of South African pine by a firm of specialist designer manufacturer's as approved by the Architect.			
	Prices must include for all cross and windbracing according to the manufacturer's instruction.			
	Prices must include for the design, plans and approval of all timber trusses and no claim shall be considered.			
	Pre-fabricated timber roof trusses shall comply with the requirements of SABS Specification 0163 and be constructed of South African pine as described in clause 8.5 to the designs shown on the Manufacturer's detail drawings. The timber shall be of cross-sectional dimensions shown, cut to correct lengths with ends square or at the required angle.			
	Trusses shall be assembled in truss fabricating jigs with the truss having the proper camber, all tightly clamped together with joints secured using approved connector plates of galvanised steel sheet. Connector plates shall be pressed into the timber simultaneously from both sides of the truss with a hydraulic press capable of exerting such pressure as will ensure complete penetration of the teeth into the timber.			

The connector plates shall be of such size as will ensure that the joints so made will adequately withstand the forces exerted on the joints.

In coastal areas connector plates in buildings without ceilings shall be painted with two coats of epoxy tar complying with SABS Specification 801 Type 2, or rust neutralising paint.

Approval of pre-fabricated roofing systems, whether measured as an alternative or not, shall be subject to the following requirements: (a) The Manufacturer of the pre-fabricated trusses shall hold a certificate of competence issued by the Insitute for Timber Construction. (b) A polyester print, size A1 having a minimum thickness of 0,5mm, shall be submitted by the Contractor to the Regional Representative at an early stage for approval by the Directorate: Structural Engineering Services. (c) The drawings shall be signed by a Registered Professional Engineer whose name appears on the Departmental panel for structural work. (d) In the case of systems buildings, approval shall be given with submission of the contract drawings on acceptance of the tender.

The following minimum information shall be shown on the drawings:

(a) Details of the roof system with the position of the rafters and purlins indicated thereon as well as typical elevations.

(b) Bracing as recommended by the Institute for Timber Construction.

(c) Sizes and grading of the timber components.

(d) Truss sizes, e.g. height of ridge or angle of pitch

(e) Plate sizes for every construction point. (Code numbers only are deemed insufficient).

(f) Seperate connection details for hip, valley and jack rafters.

(g) Maximum spacing for purlins and branderling to ceilings shall be according to Subclauses 7.6.1 and 7.6.2 and Clauses 7.8, 7.9 and 9.5.

(h) The type of roof covering as well as the design load. Over and above the supervision undertaken by the Representative / Agent, the Truss Fabricator or his Design Engineer shall inspect the completed roof structure and issue a certificate of confirmation to the Department that:

"The roof structure(s) has (have) been erected in accordance with the Design Engineer's drawings, as accepted by the Department, and the relevant details given in the manual "THE ERECTION AND BRACING OF TIMBER ROOF TRUSSES" issued by the National Timber Research Institute and the Institute for Timber Construction".

Fixing:

All nailing of timber roof trusses, purlins, etc shall be done with galvanised nails. In coastal areas, copper, aluminium or stainless steel nails shall be used.

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.

<u>PREFABRICATED PURLIN RAFTERS, ETC.</u>				
<u>Prefabricated timber purlin rafters shall be constructed of South African pine by a firm of specialist designer manufacturers. Rafters to be a minimum of 1200mm centres and are to support metal roof covering. Prices must include for the design , plans and approval of all timber trusses and no claim shall be considered. An Engineers approval certificate is required once the purlin rafters installation is complete and is for the contractors account.</u>				
73	Re- designing of Purlin Rafters as before including all necessary fittings and make good on completion	Sum	1	
<u>EAVES, VERGES, ETC</u>				
74	12 x 225mm Fascia board three times drilled, and brass screwed to and including 38 x 50 x 114mm long S.A. Pine cleats twice brass screwed to rafter foot including galvanised steel H-profile jointing strips, screws, holes etc.	m	48	
75	80 x 275 x 12mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes etc.	m	32	
76	Extra on last for splay cut end.	no	4	
Carried Forward				
<u>EXTENSION WORKSHOP</u>				
<u>PREFABRICATED PURLIN RAFTERS, ETC.</u>				
<u>Prefabricated timber purlin rafters shall be constructed of South African pine by a firm of specialist designer manufacturers. Rafters to be a minimum of 1200mm centres and are to support metal roof covering. Prices must include for the design , plans and approval of all timber trusses and no claim shall be considered. An Engineers approval certificate is required once the purlin rafters installation is complete and is for the contractors account.</u>				
77	Re- designing of Purlin Rafters as before including all necessary fittings and make good on completion	Sum	1	
<u>EAVES, VERGES, ETC</u>				
78	12 x 225mm Fascia board three times drilled, and brass screwed to and including 38 x 50 x 114mm long S.A. Pine cleats twice brass screwed to rafter foot including galvanised steel H-profile jointing strips, screws, holes etc.	m	50	
79	80 x 275 x 12mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes etc.	m	22	
80	Extra on last for splay cut end.	no	2	
Carried Forward				

<u>MAIN WORKSHOP 1</u>				
<u>PREFABRICATED PURLIN RAFTERS, ETC.</u>				
<u>Prefabricated timber purlin rafters shall be constructed of South African pine by a firm of specialist designer manufacturers. Rafters to be a minimum of 1200mm centres and are to support metal roof covering. Prices must include for the design , plans and approval of all timber trusses and no claim shall be considered. An Engineers approval certificate is required once the purlin rafters installation is complete and is for the contractors account.</u>				
81	Re- designing of Purlin Rafters as before including all necessary fittings and make good on completion	Sum	1	
<u>EAVES, VERGES, ETC</u>				
82	12 x 225mm Fascia board three times drilled, and brass screwed to and including 38 x 50 x 114mm long S.A. Pine cleats twice brass screwed to rafter foot including galvanised steel H-profile jointing strips, screws, holes etc.	m	24	
83	80 x 275 x 12mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes etc.	m	80	
84	Extra on last for splay cut end.	no	4	
Carried Forward				
<u>EXTENSION TO WORKSHOP 1</u>				
<u>PREFABRICATED PURLIN RAFTERS, ETC.</u>				
<u>Prefabricated timber purlin rafters shall be constructed of South African pine by a firm of specialist designer manufacturers. Rafters to be a minimum of 1200mm centres and are to support metal roof covering. Prices must include for the design , plans and approval of all timber trusses and no claim shall be considered. An Engineers approval certificate is required once the purlin rafters installation is complete and is for the contractors account.</u>				
85	Re- designing of Purlin Rafters as before including all necessary fittings and make good on completion	Sum	1	
<u>EAVES, VERGES, ETC</u>				
86	12 x 225mm Fascia board three times drilled, and brass screwed to and including 38 x 50 x 114mm long S.A. Pine cleats twice brass screwed to rafter foot including galvanised steel H-profile jointing strips, screws, holes etc.	m	40	
87	80 x 275 x 12mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes etc.	m	12	
88	Extra on last for splay cut end.	no	2	

		Carried Forward			
<u>WASH BAY</u>					
<u>PREFABRICATED PURLIN RAFTERS, ETC.</u>					
<u>Prefabricated timber purlin rafters shall be constructed of South African pine by a firm of specialist designer manufacturers. Rafters to be a minimum of 1200mm centres and are to support metal roof covering. Prices must include for the design , plans and approval of all timber trusses and no claim shall be considered. An Engineers approval certificate is required once the purlin rafters installation is complete and is for the contractors account.</u>					
89	Re- designing of Purlin Rafters as before including all necessary fittings and make good on completion	Sum	1		
<u>EAVES, VERGES, ETC</u>					
90	12 x 225mm Fascia board three times drilled, and brass screwed to and including 38 x 50 x 114mm long S.A. Pine cleats twice brass screwed to rafter foot including galvanised steel H-profile jointing strips, screws, holes etc.	m	70		
91	80 x 275 x 12mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes etc.	m	41		
92	Extra on last for splay cut end.	no	4		
		Carried Forward			
		Carried to Summary			
<u>BILL NO. 04</u>					
<u>WORKSHOP SHELTER</u>					
<u>STRUCTURAL STEELWORK</u>					
<u>PREAMBLES</u>					
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<u>SUPPLEMENTARY PREAMBLES</u>					
<u>Proprietary products in descriptions:</u>					
Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.					

All steelwork to be manufactured as per engineers drawings, details and specifications.

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

Descriptions

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.

Descriptions of steel, including tonnage, shall be deemed to include hot dipped galvanizing.

GALVANISED RAFTERS, PURLINS, GIRTS, BRACING, ETC.

Treater prefabricated steel frames, section, rafters, purlins bolted to steel:

93	Galvanized brackets 50mm x 5m x 2mm thick @ 500 centres	t	1,20
94	75 x 75 x 3mm Hollow square section	t	2
95	Galvanized lip channel 125 x 75 x 20 x 2.5mm thick	t	4

Carried to Summary

BILL NO. 04

REPAIR WORKSHOP

PLUMBING AND DRAINAGE

PREAMBLES

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SUPPLEMENTARY PREAMBLES

Proprietary products in descriptions:

Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.

RAINWATER DISPOSAL:

Industrial seamless aluminium prepainted gutters

96	150 x 150mm Box gutters with baked enamel finish with concealed brackets	m	48	
97	100mm Diameter rainwater downpipe with brackets fixed to brick wall	m	14	
<u>Rain Water Pipes</u>				
98	Extra over gutter for stopped end	No	4	
99	Extra over gutter for outlet	No	4	
Carried Forward				
<u>WORKSHOP SHELTER</u>				
<u>RAINWATER DISPOSAL:</u>				
<u>Industrial seamless aluminium prepainted gutters</u>				
100	150 x 150mm Box gutters with baked enamel finish with concealed brackets	m	15,2	
101	100mm Diameter rainwater downpipe with brackets fixed to brick wall	m	7	
<u>Rain Water Pipes</u>				
102	Extra over gutter for stopped end	No	2	
103	Extra over gutter for outlet	No	2	
Carried Forward				
<u>EXTENSION WORKSHOP</u>				
<u>RAINWATER DISPOSAL:</u>				
<u>1mm Galvanised sheet steel gutters and rainwater pipes</u>				
104	150 x 200 x 150mm High eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets.	m	50	
105	Hopper Heads	No	6	
<u>uPVC gutters and downpipes</u>				
106	100mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	56	

107	Extra over rainwater pipe for bend	No	6	
108	Extra over rainwater pipe for shoe	No	6	
109	Extra over gutter for outlet	No	6	
Carried Forward				
<u>MAIN WORKSHOP 1</u>				
<u>RAINWATER DISPOSAL:</u>				
<u>1mm Galvanised sheet steel gutters and rainwater pipes</u>				
110	150 x 200 x 150mm High eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets.	m	80	
111	Hopper Heads	No	16	
<u>uPVC gutters and downpipes</u>				
112	100mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	80	
113	100mm Diameter rainwater spreader	m	32	
114	Extra over rainwater pipe for bend	No	16	
Carried Forward				
<u>EXTENSION TO WORKSHOP 1</u>				
<u>RAINWATER DISPOSAL:</u>				
<u>1mm Galvanised sheet steel gutters and rainwater pipes</u>				
115	150 x 200 x 150mm High eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets.	m	40	
116	Hopper Heads	No	8	

	<u>uPVC gutters and downpipes</u>			
117	100mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	18	
118	Extra over rainwater pipe for bend	No	8	
119	Extra over rainwater pipe for shoe	No	8	
	Carried Forward			
	<u>MAIN WORKSHOP 2</u>			
	<u>RAINWATER DISPOSAL:</u>			
	<u>1mm Galvanised sheet steel gutters and rainwater pipes</u>			
120	150 x 200 x 150mm High eaves gutter fixed to falls in continuous lengths at not exceeding 600mm centres with and including approved gutter brackets.	m	70	
121	Hopper Heads	No	16	
	<u>uPVC gutters and downpipes</u>			
122	100mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	48	
123	100mm Diameter rainwater spreader	No	32	
124	Extra over rainwater pipe for bend	No	16	
	Carried Forward			
	<u>WASH BAY</u>			
	<u>RAINWATER DISPOSAL:</u>			
	<u>Industrial seamless aluminium prepainted gutters</u>			
125	150 x 150mm Box gutters with baked enamel finish with concealed brackets	m	70	
126	100mm Diameter rainwater downpipe with brackets fixed to brick wall	m	36	
	<u>Rain Water Pipes</u>			
127	Extra over gutter for stopped end	No	6	

128	Extra over gutter for outlet	No	5	
	Carried Forward			
	<u>WASH BAY STORAGE ROOM</u>			
	<u>RAINWATER DISPOSAL:</u>			
	<u>1mm Galvanised sheet steel gutters and rainwater pipes</u>			
130	100mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	6	
131	Hopper Heads	No	2	
	Carried Forward			
	Carried to summary			
<u>BILL NO. 05</u>				
	<u>PAINTWORK</u>			
	<u>PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate document The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary products in descriptions:</u>			
	Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.			

	Where surfaces of plaster etc are sandy / friable, the first coat must be replaced with plaster primer thinned 10% with turpentine.				
	<u>PAINTWORK TO PREVIOUSLY PAINTED WORK</u>				
	<u>ON METAL</u>				
	<u>Galvanised Metal surfaces to be cleaned down with galv. cleaner, apply 1 coat calcium plumbate primer, overcoated with 2 coats satin gloss enamel.</u>				
132	Metal surfaces	m ²	923		
	<u>ON WOOD, WOOD BOARD</u>				
	<u>Clean down existing painted surfaces, prepare and apply two coat carbolineum wood preservative on:</u>				
133	Exposed eaves timbers	m ²	610		
134	Timber bargeboards	m ²	112		
135	Ditto but fascia boards	m ²	240		
	Carried to summary				
SUMMARY OF SCHEDULES					
1	PRELIMINARY AND GENERAL	BILL No	1		
2	ALTERATIONS	BILL No	1		
3	WATERPROOFING	BILL No	2		
4	ROOF COVERINGS	BILL No	3		
5	CARPENTRY & JOINERY	BILL No	4		
6	STRUCTURAL STEELWORK	BILL No	5		
7	PLUMBING & DRAINAGE	BILL No	6		
8	PAINTWORK	BILL No	7		

			SUB - TOTAL			
			ADD Escalation @ %			
			SUB - TOTAL			
			ADD VAT @ 15%			
			TOTAL			