

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
**UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME**  
**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 1</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>PRELIMINARIES</u></b>			
	<b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b>			
	The <b>JBCC</b> Principal Building Agreement (May 2018 Edition 6.2) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described			
	The <b>JBCC</b> Principal Building Agreement <b>contract data</b> form an integral part of this <b>agreement</b>			
	The Preliminaries revision 1 (February 2016) published by the Association of South African Quantity Surveyors for use with the <b>JBCC</b> Principal Building Agreement Edition 6.2 shall be deemed to be incorporated in these <b>bills of quantities</b> , amended as hereinafter described			
	The <b>contractor</b> is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause			
	The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only			
	Where any item is not relevant to this <b>agreement</b> such item is marked N/A signifying "not applicable"			
	<b><u>PREAMBLES FOR TRADES</u></b>			
	<i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated descriptions utilised in these bills of quantities by inter alia referring to SANS construction standards.</i>			
	<i>Note that the text of the Standard System of Measuring Building Work (seventh edition) and that of the Standard Method of Measuring Building Work for Africa 2015 (first edition) is the same</i>			
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	Section No. 1 Bill No. 1 Preliminaries			

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The Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these **bills of quantities** and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained

Supplementary preambles and/or specifications are incorporated in these **bills of quantities** to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the Model Preambles

The **contractor's** prices for all items throughout these **bills of quantities** shall take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles and/or specifications

**NOTES TO TENDERERS**

**Minimum Threshold for Local Content**

**Section No.2 - Builder's Work**

BILL	Item	Description	Threshold
<b><u>Steel doors (transformer doors) and frames</u></b>			
		<b><u>PRESSED STEEL TRANSFORMER ROOM DOORS AND FRAMES</u></b>	
		<b><i>Pressed Transformer doors</i></b>	
6	1	Door size 1605 x 2032mm high with rebated frame suitable for 230mm wall	100%
		<b><u>STEEL ROLLER SHUTTERS ETC</u></b>	
6	2	Electronically operated slatted roller shutter for 925x 1100mm high opening	100%
		<b><u>PRESSED STEEL DOOR FRAMES</u></b>	
6	6	Single door size frame 813 x 2032 mm high	100%
		<b><u>ALUMINIUM WINDOWS,</u></b>	

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		<b>DOORS, ETC</b>	
6	7-30	Aluminium Windows	100%
6	31-32	Aluminium Doors	100%

**Metal sheeting**

		<b>ROOF SHEETING</b>	
2	1	Roof sheeting pitch no exceeding 18 degrees	100%

**Gutters, downpipes and lauders**

		<b>RAINWATER GOODS</b>	
8	1	PVC gutters with 20mm overlapping joints sealed with and including bitumen impregnated foam plastic joint sealing strip and riveted at 20mm centres	100%
8	2	80mm PVC down pipe fixed to brick wall including brackets	100%
8	3	Extra over eaves gutter for offset	100%
8	4	Extra over eaves gutter for outlet	100%
8	5	Extra over eaves gutter for stopped end	100%
8	6	Extra over for shoe	100%

**Section No.2 - Builder's Work (Wet Services)**

<b>BILL</b>	<b>Item</b>	<b>Description</b>	<b>Threshold</b>
		<b><u>SANITARY PLUMBING</u></b>	
8	12-14	Class 34 uPVC Pipe	100%
8	15-27	Class 34 uPVC FITTINGS	100%
		<b><u>WATER SUPPLY - COLD WATER RETICULATION</u></b>	
		<b>Replace defective pipe sections and fittings</b>	
8	28-29	PEX Piping	100%
8	31-33	Extra over PEX pipes for fittings	100%
8	34-36	Plastic Pipe Compression Fittings And Valves	100%

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8	37-38	Pipe Hangers - Anchor, Threaded Rod & Hanger	100%
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**Section No.3 - Electrical Installation**

BILL	Item	Description	Threshold
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**CABLES AND CONDUCTORS**

1	23 & 26	2,5mm conductors (mixed colours - live, neutral and earth). 4,0mm conductors (mixed colours - live, neutral and earth)	90%
1	23 - 24 & 27 - 33	2.5 mm <sup>2</sup> 2c 600/1000V PVC/SWA/PVC ECC Cu Cable. 4,0 mm <sup>2</sup> 4c 600/1000V PVC/SWA/PVC ECC Cu Cable. 10 mm <sup>2</sup> 2c 600/1000V PVC/SWA/PVC ECC Cu Cable. 10 mm <sup>2</sup> 4c 600/1000V PVC/SWA/PVC ECC Cu Cable. 25 mm <sup>2</sup> 4c 600/1000V PVC/SWA/PVC ECC Cu Cable.	90%
1	63, 71 & 75	50 mm <sup>2</sup> 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	90%
1	67	95 mm <sup>2</sup> 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	

**TRUNKING, POWER SKIRTING & CONDUITS**

1	34	25mm PVC Conduit including all necessary accessories. 32mm steel Conduit including all necessary accessories.	100%
1	35-36	25mm steel Conduit including all necessary accessories. 32mm steel Conduit including all necessary accessories. 32mm steel Conduit including all necessary accessories. 32mm steel Conduit including all necessary accessories.	100%

**Section No.4 - Fire Protection**

BILL	Item	Description	Threshold
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<b><u>Supply, deliver and install all Fire appliances and piping with complete with all auxiliary fittings :.</u></b>			
1	7-10	Black Mild Steel Fittings	100%
1	11-12	Black Mild Steel Piping	100%
1	13-19	Class 16 HDPE Piping & Fittings	100%

**Section No.5 - HVAC Installation**

<b>BILL</b>	<b>Item</b>	<b>Description</b>	<b>Threshold</b>
<b><u>Supply, deliver and install the following Units as per specification:</u></b>			
1	11	Refrigeration Copper Piping With Thermal Insulation and all associated Fittings.	100%
1	12	PVC Condensate Drain Piping With Insulation	100%
1	16	Fabricate , Supply and Install lockable Security Cages around each Outdoor Condensing Unit	100%
	17-26	Supply The following Ablution Extraction System with Complete Associated Fittings	100%

Tenderers are to inspect the drawings issued with these Bills of Quantities and to satisfy themselves with the nature and the requirements of the Contract works. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.

Tenderers are to read the descriptions, which are intended as a means of identifying various facets of the work, in conjunction with the drawings. Tenderers shall allow for all costs in connection with the various items taking full cognisance of both the drawings and the Bills of Quantities.

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<p>Tenderers shall notify the Quantity Surveyor in writing of any discrepancies encountered upon which clarification will be given by the Quantity Surveyor in writing to the Tenderer. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard</p> <p>Tenderers are to note that setting out of the works will be the complete responsibility of the Tenderer and they should therefore acquaint themselves with the site boundaries, site co-ordinates, datum levels etc. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.</p> <p>Tenderers are to note that all items with ZERO quantities are Rate Only items and should be priced as such.</p> <p>Tenderers are to note that there might be specified suppliers to be used for certain trades as per the annexure to this tender document. Tenderers should familiarise themselves with the suppliers on the list and ensure to allow for accordingly. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.</p> <p>Tenderers are to fully acquaint themselves with the construction period and shall allow for any night shift if required. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.</p> <p><b><u>STRUCTURE OF THIS PRELIMINARIES BILL</u></b></p> <p><b>Section A</b> : A recital of the headings of the individual clauses of the aforementioned <b>JBCC Principal Building Agreement</b></p> <p><b>Section B</b> : A recital of the headings of the individual clauses of the aforementioned Preliminaries document</p> <p><b>Section C</b> : Any special clauses to meet the particular circumstances of the project</p>	
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<p style="text-align: right;"><b>Brought Forward</b></p> <p><b><u>PRICING OF PRELIMINARIES</u></b></p> <p>Should the <b>contractor</b> select Option A in the <b>contract data</b> for the adjustment of <b>preliminaries</b>, the amounts entered against the relevant items in these <b>preliminaries</b> are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)</p> <p><b><u>LOCATIONS DESCRIPTIONS:</u></b></p> <p>QUANTITIES IN THESE BILLS OF QUANTITIES ARE SPLIT INTO THE LOCATIONS:</p> <p>LOCATION [A] - CONGELLA STATION</p> <p>LOCATION [B] - UMBILO STATION</p> <p>LOCATION [C] - ROSSBURGH STATION</p> <p>LOCATION [D] - MEREBANK STATION</p>		R	
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<b><u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u></b>		
<b><u>Interpretation (A1-A7)</u></b>		
1	<p>Clause 1.0 - Definitions and interpretation</p> <p>F:..... V:..... T:.....</p>	Item
2	<p>Clause 2.0 - Law, regulations and notices</p> <p>F:..... V:..... T:.....</p>	Item
3	<p>Clause 3.0 - Offer and acceptance</p> <p>F:..... V:..... T:.....</p>	Item
4	<p>Clause 4.0 - Assignment and cession</p> <p>F:..... V:..... T:.....</p>	Item
5	<p>Clause 5.0 - <b>Contract documents</b></p> <p>F:..... V:..... T:.....</p>	Item
6	<p>Clause 6.0 - <b>Employer's agents</b></p> <p><b>1. PRINCIPAL AGENT</b></p> <p>LODEMANN HOLDINGS Suite 301 Wheeler House 112-116 Mathews Meyiwa Rd (Stamford Hill) Morningside Durban</p> <p>F:..... V:..... T:.....</p>	Item
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7	Clause 7.0 - Design responsibility  F:..... V:..... T:.....	Item	
<b><u>Insurance and security (A8-A11)</u></b>			
8	Clause 8.0 - <b>Works</b> risk  F:..... V:..... T:.....	Item	
9	Clause 9.0 - Indemnities  F:..... V:..... T:.....	Item	
10	Clause 10.0 - Insurances  F:..... V:..... T:.....	Item	
11	Clause 11.0 - <b>Security</b>  F:..... V:..... T:.....	Item	
<b><u>Execution (A12 - A17)</u></b>			
12	Clause 12.0 - Duties of the <b>parties</b>  F:..... V:..... T:.....	Item	
13	Clause 13.0 - Setting out  F:..... V:..... T:.....	Item	
14	Clause 14.0 - Nominated <b>subcontractors</b>  F:..... V:..... T:.....	Item	
15	Clause 15.0 - Selected <b>subcontractors</b>		
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	F:..... V:..... T:.....	Item	
16	<p>Clause 16.0 - <b>Direct contractors</b></p> <p><b>Attendance on direct contractors</b></p> <p>In respect of <b>direct contractors</b> the <b>contractor</b> shall:</p> <p>F:..... V:..... T:.....</p>	Item	
17	<p>Clause 17.0 - <b>Contract instructions</b></p> <p><b>Site instructions</b></p> <p>Instructions issued on <b>site</b> are to be recorded in a site instruction book which is to be supplied and maintained on <b>site</b> by the <b>contractor</b></p> <p>F:..... V:..... T:.....</p> <p><b><u>Completion (A18 - A24)</u></b></p>	Item	
18	<p>Clause 18.0 - Interim completion</p> <p>F:..... V:..... T:.....</p>	Item	
19	<p>Clause 19.0 - <b>Practical completion</b></p> <p>F:..... V:..... T:.....</p>	Item	
20	<p>Clause 20.0 - Sectional completion</p> <p>F:..... V:..... T:.....</p>	Item	
21	<p>Clause 21.0 - <b>Defects</b> liability period and <b>final completion</b></p> <p>F:..... V:..... T:.....</p>	Item	
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	Brought Forward		R
22	<p>Clause 22.0 - <b>Latent defects</b> liability period</p> <p>F:..... V:..... T:.....</p>	Item	
23	<p>Clause 23.0 - Revision of date for <b>practical completion</b></p> <p><b>Substitution of materials and goods</b></p> <p>The removal or substitution of any <b>materials and goods</b> which do not conform to the specification or the <b>contract drawings</b> shall not constitute grounds for the extension of the <b>construction period</b> nor for the adjustment of the <b>contract value</b> [17.1.8, 23.1 &amp; 2]</p> <p>F:..... V:..... T:.....</p>	Item	
24	<p>Clause 24.0 - <b>Penalty</b> for late or non-completion</p> <p>F:..... V:..... T:.....</p> <p><b><u>Payment (A25 - A27)</u></b></p>	Item	
25	<p>Clause 25.0 - Payment</p> <p>F:..... V:..... T:.....</p>	Item	
26	<p>Clause 26.0 - Adjustment of the <b>contract value</b> and <b>final account</b></p> <p>F:..... V:..... T:.....</p>	Item	
27	<p>Clause 27.0 - Recovery of expense and/or loss</p> <p>F:..... V:..... T:.....</p> <p><b><u>Suspension and termination (A28 - A29)</u></b></p>	Item	
28	<p>Clause 28.0 - Suspension by the <b>contractor</b></p>		
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	F:..... V:..... T:.....	Item		
29	Clause 29.0 - Termination			
	F:..... V:..... T:.....	Item		
	<b><u>Dispute resolution (A30)</u></b>			
30	Clause 30.0 - Dispute resolution			
	F:..... V:..... T:.....	Item		
	The required information of the <b>parties</b> and the amount of the <b>contract sum</b> shall be inserted in the <b>agreement</b> for signature of the <b>agreement</b> by the <b>parties</b>			
	F:..... V:..... T:.....	Item		
	F:..... V:..... T:.....	Item		
	<b><u>SECTION B: PRELIMINARIES</u></b>			
	<b><u>Interpretation (B1)</u></b>			
31	Clause 1.1 - Definitions			
	F:..... V:..... T:.....	Item		
32	Clause 1.2 - Interpretation			
	F:..... V:..... T:.....	Item		
	<b><u>Documents (B2)</u></b>			
33	Clause 2.1 - Checking of documents			
	F:..... V:..... T:.....	Item		
34	Clause 2.2 - Provisional <b>bills of quantities</b>			
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	Brought Forward	R	
	F:..... V:..... T:.....	Item	
35	Clause 2.3 - Availability of <b>construction information</b>		
	<b>Budgetary allowances and provisional sums</b>		
	The <b>budgetary allowances</b> and/or <b>provisional sums</b> allocated for subsequent trades included in this <b>agreement</b> will be separately procured, based on multiple procurement of <b>subcontractors</b> during the <b>construction period</b>		
	F:..... V:..... T:.....	Item	
36	Clause 2.4 - Ordering of <b>materials and goods</b>		
	F:..... V:..... T:.....	Item	
	<b><u>Previous work and adjoining properties (B3)</u></b>		
37	Clause 3.1 - Previous work - dimensional accuracy		
	F:..... V:..... T:.....	Item	
38	Clause 3.2 - Previous work - <b>defects</b>		
	F:..... V:..... T:.....	Item	
39	Clause 3.3 - Inspection of adjoining properties		
	F:..... V:..... T:.....	Item	
	<b><u>The site (B4)</u></b>		
40	Clause 4.1 - Defined <b>works</b> area		
	F:..... V:..... T:.....	Item	
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41	Clause 4.2 - Handover of <b>site</b> in stages F:..... V:..... T:.....	Item	
42	Clause 4.3 - Enclosure of the <b>works</b> F:..... V:..... T:.....	Item	
43	Clause 4.4 - Geotechnical investigation F:..... V:..... T:.....	Item	
44	Clause 4.5 - Encroachments F:..... V:..... T:.....	Item	
45	Clause 4.6 - Existing premises occupied F:..... V:..... T:.....	Item	
46	Clause 4.7 - Services - known F:..... V:..... T:.....	Item	
47	Clause 4.8 - Protection of trees and/or relevant natural features F:..... V:..... T:.....	Item	
	<b><u>Management of contract (B5)</u></b>		
48	Clause 5.1 - Management of the <b>works</b> F:..... V:..... T:.....	Item	
49	Clause 5.2 - Progress meetings F:..... V:..... T:.....	Item	
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50	Clause 5.3 - Technical meetings F:..... V:..... T:.....	Item	
	<b><u>Samples, shop drawings and manufacturer's instructions (B6)</u></b>		
51	Clause 6.1 - Samples of materials F:..... V:..... T:.....	Item	
52	Clause 6.2 - Workmanship samples F:..... V:..... T:.....	Item	
53	Clause 6.3 - Shop drawings F:..... V:..... T:.....	Item	
54	Clause 6.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....	Item	
	<b><u>Deposits and fees (B7)</u></b>		
55	Clause 7.1 - Deposits and fees F:..... V:..... T:.....	Item	
	<b><u>Temporary services (B8)</u></b>		
56	Clause 8.1 - Water F:..... V:..... T:.....	Item	
57	Clause 8.2 - Electricity F:..... V:..... T:.....	Item	
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58	Clause 8.3 - Ablution and welfare facilities  F:..... V:..... T:.....	Item	
59	Clause 8.4 - Communication facilities  F:..... V:..... T:.....	Item	
<b><u>Prime cost amounts (B9)</u></b>			
60	Clause 9.1 - Responsibility for <b>prime cost amounts</b>  F:..... V:..... T:.....	Item	
<b><u>Attendance on subcontractors (B10)</u></b>			
61	Clause 10.1 - General attendance  F:..... V:..... T:.....	Item	
62	Clause 10.2 - Special attendance  F:..... V:..... T:.....	Item	
<b><u>General (B11)</u></b>			
63	Clause 11.1 - Protection of the <b>works</b>  F:..... V:..... T:.....	Item	
64	Clause 11.2 - Protection/isolation of existing/sectionally occupied <b>works</b>  F:..... V:..... T:.....	Item	
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65	Clause 11.3 - Security of the <b>works</b> F:..... V:..... T:.....	Item	
66	Clause 11.4 - Notice before covering work F:..... V:..... T:.....	Item	
67	Clause 11.5 - Disturbance F:..... V:..... T:..... Clause 11.6 - Environmental disturbance F:..... V:..... T:.....	Item	
68	Clause 11.7 - <b>Works</b> cleaning and clearing F:..... V:..... T:.....	Item	
69	Clause 11.8 - Vermin F:..... V:..... T:.....	Item	
70	Clause 11.9 - Overhand work F:..... V:..... T:.....	Item	
71	Clause 11.10 - Tenant installations by <b>direct contractors</b> F:..... V:..... T:.....	Item	
72	Clause 11.11 - Advertising F:..... V:..... T:.....	Item	
Carried Forward			R
Section No. 1 Bill No. 1 Preliminaries			

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)  
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME  
CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

	<b>Brought Forward</b>		<b>R</b>
	<b><u>Preliminaries schedule (B12)</u></b>		
73	<b>Information for completion of the preliminaries schedule</b>  Information necessary for elections and completion of those clauses contained in the <b>preliminaries</b> schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that no specific requirements are expected or that the clause is not relevant to this specific contract  12.1 - Provisional <b>bills of quantities</b> [2.2]  The quantities are provisional - <b><u>Yes</u></b>  12.2 - Availability of <b>construction information</b> [2.3]  <b>Construction documentation</b> is complete - <b><u>No</u></b>  12.3 - Previous work - dimensional accuracy [3.1]  12.4 - Previous work - <b>defects</b> [3.2]  12.5 - Inspection of adjoining properties [3.3]  12.6 - Defined <b>works</b> area [4.1]  12.7 - Handover of <b>site</b> in stages [4.2]  12.8 - Enclosure of the <b>works</b> [4.3]  12.9 - Geotechnical investigation [4.4]  12.10 - Existing premises occupied [4.6]  12.11 - Services - known [4.7]  12.12 - Protection of trees and/or relevant natural features [4.8]		
	<b>Carried Forward</b>		<b>R</b>
	Section No. 1 Bill No. 1 Preliminaries		

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)  
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME  
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<b>Brought Forward</b>	<b>R</b>
12.13 - Water [8.1]	
Option A (by <b>contractor</b> ) - <u><b>Yes</b></u>	
Option B (by <b>employer</b> - free of charge) - <u><b>No</b></u>	
Option C (by <b>employer</b> - metered) - <u><b>No</b></u>	
12.14 - Electricity [8.2]	
Option A (by <b>contractor</b> ) - <u><b>Yes</b></u>	
Option B (by <b>employer</b> - free of charge) - <u><b>No</b></u>	
Option C (by <b>employer</b> - metered) - <u><b>No</b></u>	
12.15 - Ablution and welfare facilities [8.3]	
Option A (by <b>contractor</b> ) - <u><b>Yes</b></u>	
Option B (by <b>employer</b> - free of charge) - <u><b>No</b></u>	
12.16 - Communication facilities [8.4]	
12.17 - Protection of the <b>works</b> [11.1]	
12.18 - Protection/isolation of existing/sectionally occupied <b>works</b> [11.2]	
Protection/isolation is required - <u><b>Yes</b></u>	
12.19 - Disturbance [11.5]	
12.20 - Environmental disturbance [11.6]	
<b>Controlling all forms of pollution</b>	
The <b>contractor</b> shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution emanating from the <b>site</b> during the <b>construction period</b> due <i>inter alia</i> to noise, artificial light, wind-blown sand, dust, deposits of mud, etc	
The <b>contractor</b> is to ensure that all roads which border the <b>site</b> and is used by the <b>contractor</b> during the execution of the <b>works</b> are kept clean and free of any dirt or debris caused by the execution of the <b>works</b>	
<b>Carried Forward</b>	<b>R</b>
Section No. 1	
Bill No. 1	
Preliminaries	

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)  
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME  
CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

	<b>Brought Forward</b>		<b>R</b>
	F:..... V:..... T:.....	Item	
	<b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b>		
	<b>Section C</b>		
	<b>Section C</b> contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item		
	The warranty will not be enforced if the work is damaged by <b>defects</b> in the execution of the <b>works</b> , in which case the responsibility for replacement shall rest entirely with the <b>contractor</b>		
	F:..... V:..... T:.....	Item	
74	Overtime		
	Should overtime be required to be worked for any reason whatsoever, the cost of such overtime is to be borne by the <b>contractor</b> unless the <b>principal agent</b> has specifically authorised, prior to execution thereof, that costs for such overtime are to be borne by the <b>employer</b>		
	F:..... V:..... T:.....	Item	
75	Co-operation of the <b>contractor</b> for cost management		
	It is specifically agreed that the <b>contractor</b> accepts the obligation of assisting the <b>principal agent</b> in implementing proper cost management. The <b>contractor</b> will be advised by the <b>principal agent</b> of all cost management procedures which will be implemented to ensure that the <b>contract value</b> does not exceed the budget		
	F:..... V:..... T:.....	Item	
	<b>Carried Forward</b>		<b>R</b>
	Section No. 1 Bill No. 1 Preliminaries		

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
**UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME**  
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	Brought Forward		R
76	<p>Overloading</p> <p>The <b>contractor</b> shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the <b>works</b> or temporary works eg scaffolding, etc. The <b>contractor</b> shall submit details of his proposed loading, storage, plant erection, etc to the <b>principal agent</b> for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the <b>principal agent's</b> requirements in connection with the provision of temporary support work, etc. Any damage caused to the <b>works</b> by overloading shall be made good by the <b>contractor</b> at his sole expense</p> <p>F:..... V:..... T:.....</p>	Item	
77	<p>Propping of floors below</p> <p>The <b>contractor</b> is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of <b>materials and goods</b> and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the <b>principal agent</b> and the cost thereof shall be borne by the <b>contractor</b></p> <p>F:..... V:..... T:.....</p>	Item	
78	<p>Testing of flat roof waterproofing for watertightness</p> <p>Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the <b>principal agent</b>, flooded with water and kept "ponded" for at least forty (40) hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing</p> <p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
	<p>Section No. 1 Bill No. 1 Preliminaries</p>		

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
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	<b>Brought Forward</b>		R
	<p>The <b>contractor</b> is to submit to the <b>principal agent</b> on an annual basis a schedule of spend, split into vendors engaged as <b>subcontractors</b> and suppliers indicating their BBBEE rating including proof of the said rating</p> <p>F:..... V:..... T:.....</p>	Item	
79	<p>Advertising rights</p> <p>The <b>employer</b> may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The <b>contractor</b> shall not prevent such an arrangement and will assist in the facilitation of same. Position and type of advertising structure to be agreed with the <b>principal agent</b> so as not to hinder the <b>contractor</b> in meeting the obligations under this <b>agreement</b></p> <p>F:..... V:..... T:.....</p>	Item	
80	<p>Confidentiality</p> <p>The <b>contractor</b> undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all <b>subcontractors</b> and suppliers. Such information shall not be used in any way except in connection with the execution of the <b>works</b></p> <p>No information regarding this project shall be published or disclosed without the prior written consent of the <b>employer</b></p> <p>F:..... V:..... T:.....</p>	Item	
	<b>Carried Forward</b>		R
	<p>Section No. 1 Bill No. 1 Preliminaries</p>		

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)  
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME  
CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

	<b>Brought Forward</b>		<b>R</b>
81	<p>Media releases</p> <p>All rights of publication of articles in the media, together with any advertising relating thereto or in any way connected with this project, shall vest with the <b>employer</b></p> <p>The <b>contractor</b> together with his <b>subcontractors</b> shall not, without the prior written consent of the <b>employer</b>, cause any statement or advertisement connected with this project to be printed, screened or aired by the media</p> <p>F:..... V:..... T:.....</p> <p><b><u>SUMMARY OF CATEGORIES</u></b></p> <p>Category : Fixed R.....</p> <p>Category : Value R.....</p> <p>Category : Time R.....</p>	Item	
	<b>Carried to Final Summary</b>		<b>R</b>
	<p>Section No. 1</p> <p>Bill No. 1</p> <p>Preliminaries</p>		

Item No	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b>			
<b><u>BILL NO. 1</u></b>			
<b><u>DEMOLITIONS AND ALTERATIONS</u></b>			
<b><u>PREAMBLES</u></b>			
The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.			
<b><u>Existing structures</u></b>			
In taking down and removing existing work, the utmost care shall be taken to prevent any structural or other damage to the remaining portions on the building and the Contractor shall provide all shoring, needling, strutting, etc. to ensure the stability of all structures during the alteration work, Any damage to the structure and/or building as well as the rectification of same will be for the contractor's account			
<b><u>Services</u></b>			
Special care shall be exercised during the progress of the work to ensure that electrical installation, water supply pipes, telephone and other services which may be encountered are not interfered with and notice shall be given to the Representative/Agent if any disconnection or alterations become necessary.			
<b><u>Dust and noise</u></b>			
The Contractor is to take all necessary precautions to the satisfaction of the Representative/Agent to prevent any nuisance from the dust and /or noise whilst carrying out the work.			
<b>Carried Forward</b>		R	
Section No. 2 Bill No. 1 Alterations and Renovations			



**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
**UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME**  
**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

Brought Forward				R
<b><u>Disposal of debris</u></b>				
The Contractor shall be responsible for the removal from site of all materials, debris and rubbish resulting from the work which removal is deemed to be included in the rates unless otherwise stated.				
Rates 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				
Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary				
<b><u>Temporary support to openings through existing walls</u></b>				
Making openings, altering openings in existing walls and removing lintels above existing openings shall be done with the utmost care to prevent any structural damage. All necessary supports, propping, shoring, needling, strutting, turning pieces, etc. to walls openings is deemed to be included in the contractor's rates.				
<b><u>Electrical and Mechanical</u></b>				
Where items include for taking down electrical and mechanical fittings the disconnection and making safe electrically is deemed to be included.				
<b><u>REMOVAL OF EXISTING WORK</u></b>				
<b><u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u></b>				
1	Pitched concrete tile roof including roof covering, timber trusses and purlins, ceilings and cornices, eaves soffit covering, fascias, barge boards, gutters and rainwater pipes - At Merebank Station	No	1	
<b><u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u></b>				
2	Roof sheeting from structural steel support structure including damaged fascia and barge boards A : 177      B : 128      C : 928      D : 534	m2	1 766	
3	Acoustic tile suspended ceilings including suspension grid, hangers, etc A : 157      B : 168      C : 1202      D : 549	m2	2 075	
<b>Carried Forward</b>				R
Section No. 2 Bill No. 1 Alterations and Renovations				

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
**UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME**  
**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

Brought Forward				R
<b><u>Taking out and removing doors, windows, etc including thresholds, sills, etc and building up openings in brick walls including making good face brickwork on one side and cement plaster on other side (making good paintwork elsewhere)</u></b>				
4	Timber doors, size 813 x 2032mm A : 12      B : 16      C : 32      D : 37	No	97	
5	Timber doors, size 1605 x 2032mm A : 0      B : 0      C : 7      D : 4	No	11	
<b><u>Taking out/off and removing metalwork</u></b>				
6	Roller shutter doors, size 1530 x 2500mm A : 0      B : 0      C : 0      D : 1	No	1	
7	Roller shutter doors, size 1800 x 2500mm A : 0      B : 0      C : 0      D : 8	No	8	
8	Roller shutter doors, size 2350 x 2500mm A : 0      B : 0      C : 30      D : 0	No	30	
<b><u>Hacking up/off and removing floor tile and wall finishes, including removing mortar bed or backing from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u></b>				
9	Ceramic tile and preparing screed to receive new floor coverings A : 178      B : 167      C : 629      D : 765	m2	1 739	
<b><u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u></b>				
10	Vitreous china wash hand basin A : 7      B : 8      C : 7      D : 0	No	22	
11	Vitreous china WC pan with cistern A : 11      B : 10      C : 7      D : 0	No	28	
<b><u>Taking out/off and removing sundry metalwork</u></b>				
12	Galvanised rainwater goods downpipes A : 93      B : 48      C : 90      D : 90	m	321	
Carried Forward				R
Section No. 2 Bill No. 1 Alterations and Renovations				

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
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**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

Brought Forward				R
13	Steel gutters A : 105      B : 24      C : 164      D : 130	m	422	
<b><u>PREPARATORY WORK TO EXISTING SURFACES</u></b>				
14	Remove all loose paint, surface contaminants, friable materials. Remove any mould release agent using clean water, leaving surface clean, dry and dust free. Concrete soffits to be painted, rippel paint texture. 15mm smooth plaster to underside of soffit & painted. Prime surface with one coat professional plaster primer with an overcoating time of 18 hours and finish with two coats of matt paint with an overcoating time of 4 hours. All in strict specifications as per data sheets which may be provided on request, in accordance with preferred manufacturers	m2	2 042	
	A : 407      B : 190      C : 227      D : 1218			
<b><u>MAKING GOOD OF FINISHES ETC</u></b>				
<b><u>Making good plaster</u></b>				
15	Wall plaster in patches A : 482      B : 281      C : 812      D : 650	m2	2 224	
<b><u>BUDGETARY ALLOWANCES</u></b>				
16	Provide a budgetary amount of R150 000,00(One Hundred and Fifty Thousand Rand) for the pressure washing of facebrick walls at Merebank Station .	Item		150 000,00
<b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2				
Bill No. 1				
Alterations and Renovations				

Item No		Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b>				
<b><u>BILL NO. 2</u></b>				
<b><u>ROOF COVERINGS</u></b>				
<b><u>PREAMBLES</u></b>				
The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
<b><u>ROOF SHEETING</u></b>				
<b><u>Concealed Fix interlocking 0,58mm thick heavy industrial Z275 spelter galvanised steel sheeting with Chromadek, ColorPlus, Colourbond or Globalcoat finish to one side and Grey other side and accessories, fixed to steel purlins using SL 700 approved clips and fasteners. Cover width 700mm. High wind - 120km/h plus - loading to be considered with installation and fixing must be in accordance with manufacturer's recommendations and specifications.</u></b>				
1	Roof sheeting pitch no exceeding 18 degrees A : 177      B : 128      C : 371      D : 356	m2	1 032	
<b><u>ROOF AND WALL INSULATION</u></b>				
<b><u>Heavy industrial grade aluminium foil based insulation</u></b>				
2	Insulation laid taut over purlins (at approximately 1600mm centres) and fixed concurrent with roof covering including galvanised steel straining wires A : 353      B : 128      C : 371      D : 356	m2	1 208	
Carried Forward to Summary of Section No. 2				R
Section No. 2 Bill No. 2 Roof Coverings				

Item No	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b>			
<b><u>BILL NO. 3</u></b>			
<b><u>CARPENTRY AND JOINERY</u></b>			
<b><u>PREAMBLES</u></b>			
The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
<b><u>GENERAL NOTES TO TENDERERS</u></b>			
General notes, described in Bill No.1, shall equally apply to this Bill.			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<u>Joinery</u>			
Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.			
Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.			
<u>Fixing</u>			
Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
<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>Timber</u>			
All softwood to be South African Pine			
<b>Carried Forward</b>		R	
Section No. 2 Bill No. 3 Carpentry and Joinery			

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)  
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<b>Brought Forward</b>	<b>R</b>
<p><u>Descriptions</u></p> <p>Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described.</p> <p>Where the fixing of members is not stated it shall mean the nailing of one timber member to another.</p> <p>The term "planted on" shall mean the nailing of one timber member to another</p> <p>The term "screwed on" shall mean the countersunk screwing of one timber member to another.</p> <p>The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screw sunk and pelleted.</p> <p>The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete.</p> <p>The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screw sunk and pelleted.</p> <p>Shelving, etc. described as screwed to steel must be fixed from underside and prices are to include for countersunk drilling through the steel for screw fixing.</p> <p>Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting</p> <p>Descriptions of items given in linea metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.</p> <p>Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.</p> <p><b><u>ROOFS, ETC</u></b></p>	
<b>Carried Forward</b>	<b>R</b>
<p>Section No. 2 Bill No. 3 Carpentry and Joinery</p>	

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<b>Brought Forward</b>			<b>R</b>
<b><u>Plate nailed timber roof truss construction</u></b>			
The following is applicable in respect of roof trusses:			
All timber to be sawn softwood in accordance with V4 or M4 as defined in SABS 563 or SABS 1245.			
Metal connector plates shall have a minimum yield strength of 228 MPa and a minimum ultimate tensile strength of 330 Mpa with hot-dip galvanised finish.			
All joints to be close fitted butt joints.			
<b>Trusses shall be designed by a registered supplier of prefabricated trusses who shall issue an Engineers Certificate upon completion of the installation.</b>			
<b>The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained on site before design or fabrication commences.</b>			
<b>Tenderers must study the roof plan and sections as attached to the back of these bills of quantities and must obtain prices from a qualified and registered roof truss supplier as no claims in this regard will be entertained.</b>			
<b><u>Sawn softwood</u></b>			
1	Design, take delivery, temporary store, hoist in position and erect plate nailed termite treated timber roof trusses, purlins, gangboarding, temporary and permanent bracing, etc (measured on plan). - to Merebank Station	m2	258
<b><u>FASCIAS AND BARGE BOARDS</u></b>			
2	15 x 225mm Fascia board countersunk screwed to roof timbers (elsewhere) with two brass screws at maximum 754mm centres and jointed with and including standard aluminium halfround cover strips at all	m	653
	A : 190      B : 95      C : 183      D : 185		
<b><u>DOORS ETC</u></b>			
<b>Carried Forward</b>			<b>R</b>
Section No. 2 Bill No. 3 Carpentry and Joinery			

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
**UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME**  
**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

	Brought Forward			R
	<b><u>Heavy duty anti bandit timber door, with gms (coastal) or ms (inland) pressed metal frame to suite door &amp; wall. Including 300x300mm glass viewing panels with aluminium frames and rubber gaskets.</u></b>			
3	900 x 2032 x 44mm aluminium framed solid door - TP-01 A : 2      B : 2      C : 3      D : 1	No	8	
4	900 x 2032 x 44mm aluminium framed solid door - TP-04 A : 1      B : 3      C : 0      D : 1	No	5	
	<b><u>Semi solid timber door sides and concealed edges to suit opening, door to be fitted with 3 x hinges per leaf all to specialist details. Colour of the door and frame to architect's specialist.</u></b>			
5	900 x 2100mm aluminium framed solid door - TP-02 A : 1      B : 3      C : 3      D : 6	No	13	
6	900 x 2100mm aluminium framed solid door - TP-06 A : 1      B : 8      C : 30      D : 10	No	49	
7	900 x 2100mm aluminium framed solid door - TP-07 A : 0      B : 5      C : 0      D : 0	No	5	
	<b><u>Solid timber door sides and concealed edges to suit opening, door to be fitted with 3 x hinges per leaf all to specialist details. Colour of the door and frame to architect's specialist.</u></b>			
8	900 x 2100mm steel framed (elsewhere) solid door - TP-03 A : 6      B : 12      C : 20      D : 14	No	52	
	<b><u>FIRE DOORS ETC</u></b>			
	<b><u>Class "B" 2 hour fire rated solid hardwood double door, all purpose made, steel frame to suite door &amp; wall. Primed &amp; painted with 2 coats</u></b>			
9	1800 X 2100mm aluminium framed solid door - TP-01 A : 0      B : 0      C : 7      D : 0	No	7	
<b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2				
Bill No. 3				
Carpentry and Joinery				



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**UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME**  
**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION NO.2</u></b></p> <p><b><u>BILL NO. 4</u></b></p> <p><b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Note:</u></b></p> <p>Electrical light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance must be made accordingly for their support inclusive of any flexibility inseting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)</p> <p><b><u>GENERAL NOTES TO TENDERERS</u></b></p> <p>General notes, described in Section No.1, Bill No.1, shall equally apply to this Bill.</p> <p><b><u>CEILINGS ETC</u></b></p> <p><b><u>SUSPENDED CEILINGS</u></b></p> <p><b><u>9,5mm Flush plaster gypsum or Magna Board ceiling fixed to concealed suspended tee system skimmed. Ceiling grid to be 1200 c/c. Fixed to concealed suspended tee system, skimmed and prepared to receive 2 coats quality pva paint (elsewhere). All in strict accordance with manufactures specification &amp; requirements.</u></b></p>			
1	<p>Suspended Ceilings</p> <p style="text-align: center;">A : 0      B : 0      C : 458      D : 10</p>	m2	468	
	<b>Carried Forward</b>		R	
	<p>Section No. 2</p> <p>Bill No. 4</p> <p>Ceilings, Partitioning and access flooring</p>			

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
**UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME**  
**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

	<b>Brought Forward</b>			<b>R</b>
	<u>12mm Flush plaster gypsum or Magna Board ceiling fixed to concealed suspended tee system skimmed. Ceiling grid to be 1200 c/c. Fixed to concealed suspended tee system, skimmed and prepared to receive 2 coats quality pva paint (elsewhere). All in strict accordance with manufactures specification &amp; requirements.</u>			
2	Suspended Ceilings  A : 194      B : 60      C : 101      D : 120  <u>12.5mm vinyl faced gypsum ceiling panels, face-covered with white embossed vinyl, size 1200 x 600mm, laid on fire rated cliq system s3 exposed demountable suspension system including galvanised main tees, cross Tees, etc., all suspended with galvanised hangers at centres not exceeding 1200mm, with ceiling perimeter finished with shadowline w-trim plugged at 200mm centres, and all installed to manufacturer's Instructions.</u>	m2	475	
3	Suspended Ceilings  A : 119      B : 499      C : 643      D : 120  <b><u>CEILING INSULATION</u></b>	m2	1 381	
4	50mm cellulose fibre insulation applied strictly in accordance with the manufacturer's instructions. A : 157      B : 168      C : 481      D : 247	m2	1 052	
<b>Carried Forward to Summary of Section No. 2</b>				<b>R</b>
Section No. 2				
Bill No. 4				
Ceilings, Partitioning and access flooring				

Item No		Quantity	Rate	Amount
<b><u>SECTION NO.2</u></b>				
<b><u>BILL NO. 5</u></b>				
<b><u>IRONMONGERY</u></b>				
<b><u>PREAMBLES</u></b>				
The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.				
<b><u>BUDGETARY ALLOWANCES</u></b>				
<b><u>IRONMONGERY FIXED TO DOORS, etc.</u></b>				
1	Allow an amount of R22 250,00 (Twenty Two Thousand Two Hundred and Fifty Rand) for the ironmongery to specialist according to the schedule at Congella Station	Item		22 250,00
2	Allow an amount of R40 000,00 (Forty Thousand Rand) for the ironmongery to specialist according to the schedule at Umbilo Station	Item		40 000,00
3	Allow an amount of R47 250,00 (Forty Seven Thousand Two Hundred and Fifty Rand) for the ironmongery to specialist according to the schedule at Rosburgh Station	Item		47 250,00
4	Allow an amount of R46 250,00 (Forty Six Thousand Two Hundred and Fifty Rand) for the ironmongery to specialist according to the schedule at Merebank Station	Item		46 250,00
			R	
<b>Carried Forward to Summary of Section No. 2</b>				
Section No. 2 Bill No. 5 Ironmongery				

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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO.2</u></b>			
	<b><u>BILL NO. 6</u></b>			
	<b><u>METALWORK</u></b>			
	<b><u>PREAMBLES</u></b>			
	The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<b><u>PRESSED STEEL TRANSFORMER ROOM DOORS AND FRAMES</u></b>			
	<b><u>Galvanised and epoxy coated m/s steel door sides and concealed edges to suit opening, door to be fitted with 3 x hinges per leaf all to specialist details.</u></b>			
1	Door size 900mm x 2100mm - TP-05 A : 18      B : 5      C : 8      D : 10	No	41	
	<b><u>STEEL ROLLER SHUTTERS ETC</u></b>			
	<b><u>Approved roll-up perforated galvanised, sabs 1461, &amp; epoxy coated m/s perforated roller shutter door. Electrically operated with 220 volt hl600 motor with manual override, with 75 x 1.0mm thick galv. Endlocked slats complete with nylon end-locks, 120mm extra-wide tamper proof m/s guides, powder coated ancillary components including door curtain, 4.5mm thick end plates, guide rails, closed shaft, extruded aluminium t-bar with astragal rubber weather seal, &amp; single span (no join) galv. Cover box. Operated with high security key switch. Fixed to brick, concrete or structural steel jambs and structural steel beam over. Contractor to provide cavity of 160mm x 120mm for recessing guides.</u></b>			
2	Electrically operated slatted roller shutter for 925 x 1100mm high opening A : 1      B : 9      C : 0      D : 3	No	13	
	<b>Carried Forward</b>		R	
	Section No. 2 Bill No. 6 Metalwork			

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
**UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME**  
**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

Brought Forward				R
3	Electrically operated slatted roller shutter for 1530 x 2500mm high opening A : 0      B : 0      C : 0      D : 1	No	1	
4	Electrically operated slatted roller shutter for 1800x 2500mm high opening A : 0      B : 0      C : 0      D : 8	No	8	
5	Electrically operated slatted roller shutter for 2350 x 2500mm high opening A : 0      B : 0      C : 30      D : 0	No	30	
<b><u>PRESSED STEEL DOOR FRAMES</u></b>				
<b><u>Standard single rebate steel frame suitable for one brick wall, with 1 pr. 100mm brass butt hinges. Clean down, prepare and apply 1 coat red oxide. Primer 1 undercoat, 2 coats enamel to developer's approval (elsewhere)</u></b>				
6	Single door size frame 813 x 2032 mm high A : 3      B : 12      C : 3      D : 0	No	18	
<b><u>ALUMINIUM WINDOWS, ETC</u></b>				
<b><u>Standard aluminium window frame. Manufactured with approved aluminium sections. Powder coated to Architect's spec. Supplied with glazing (clear glass and opaque glass in bathrooms). Manufacturer to fit galvanised steel lugs to frame, to built into brick wall to spec. (as per schedule)</u></b>				
7	Window panel, size 6960 x 2785mm high - Congella (TP-01) A : 1      B : 0      C : 0      D : 0	No	1	
8	Window panel, size 1160 x 655mm high - Congella (TP-02) A : 3      B : 0      C : 0      D : 0	No	3	
9	Window panel, size 700 x 1100 mm high - Congella (TP-03) A : 5      B : 0      C : 0      D : 0	No	5	
10	Window panel, size 600 x 540mm high - Congella (TP-05) A : 30      B : 0      C : 0      D : 0	No	30	
Carried Forward				R
Section No. 2 Bill No. 6 Metalwork				

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**UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME**  
**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

	<b>Brought Forward</b>			R
11	Window panel, size 1680 x 540mm high - Congella (TP-06) A : 2      B : 0      C : 0      D : 0	No	2	
12	Window panel, size 5800 x 3420mm high - Umbilo (TP-01) A : 0      B : 2      C : 0      D : 0	No	2	
13	Window panel, size 2030 x 3420mm high - Umbilo (TP-02) A : 0      B : 2      C : 0      D : 0	No	2	
14	Window panel, size 600 x 2100 mm high - Umbilo (TP-03) A : 0      B : 1      C : 0      D : 0	No	1	
15	Window panel, size 7300 x 3405mm high - Umbilo (TP-05) A : 0      B : 1      C : 0      D : 0	No	1	
16	Window panel, size 925 x 1100mm high - Umbilo (TP-06) A : 0      B : 9      C : 0      D : 0	No	9	
17	Window panel, size 700 x 1100mm high - Rossburgh (TP-01) A : 0      B : 0      C : 12      D : 0	No	12	
18	Window panel, size 1800 x 540mm high - Rossburgh (TP-02) A : 0      B : 0      C : 2      D : 0	No	2	
19	Window panel, size 1200 x 540mm high - Rossburgh (TP-03) A : 0      B : 0      C : 2      D : 0	No	2	
20	Window panel, size 3000 x 1500mm high - Rossburgh (TP-04) A : 0      B : 0      C : 18      D : 0	No	18	
21	Window panel, size 1515 x 1500mm high - Rossburgh (TP-05) A : 0      B : 0      C : 18      D : 0	No	18	
22	Window panel, size 600 x 600mm high - Rossburgh (TP-06) A : 0      B : 0      C : 33      D : 0	No	33	
	<b>Carried Forward</b>			R
Section No. 2 Bill No. 6 Metalwork				

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
**UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME**  
**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MERE BANK STATION**

	Brought Forward			R
23	Window panel, size 600 x 1100mm high - Rossburgh (TP-07) A : 0      B : 0      C : 6      D : 0	No	6	
24	Window panel, size 1855 x 1100 mm high - Rossburgh (TP-08) A : 0      B : 0      C : 22      D : 0	No	22	
25	Window panel, size 1855 x 1500mm high - Rossburgh (TP-09) A : 0      B : 0      C : 8      D : 0	No	8	
26	Window panel, size 10760 x 1000mm high - Merebank (TP-01) A : 0      B : 0      C : 0      D : 4	No	4	
27	Window panel, size 700 x 1100mm high - Merebank (TP-02) A : 0      B : 0      C : 0      D : 3	No	3	
28	Window panel, size 560 x 540mm high - Merebank (TP-04) A : 0      B : 0      C : 0      D : 14	No	14	
29	Window panel, size 705 x 700mm high - Merebank (TP-05) A : 0      B : 0      C : 0      D : 14	No	14	
30	Window panel, size 1600 x 1195mm high - Merebank (TP-06) A : 0      B : 0      C : 0      D : 2	No	2	
<b><u>ALUMINIUM DOORS, ETC</u></b>				
<b><u>Standard aluminium window frame. Manufactured with approved aluminium sections. Powder coated to Architect's spec. Supplied with glazing (clear glass and opaque glass in bathrooms). Manufacturer to fit galvanised steel lugs to frame, to built into brick wall to spec. (as per schedule)</u></b>				
31	Door size 900 x 2145mm high (TP-09) A : 0      B : 0      C : 0      D : 1	No	1	
32	Door size 1600 x 2145mm high (TP-10) A : 0      B : 0      C : 0      D : 4	No	4	
<b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2				
Bill No. 6				
Metalwork				

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
**UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME**  
**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO.7</u></b>			
	<b><u>TILING</u></b>			
	<b><u>PREAMBLES</u></b>			
	The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<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.			
	<b><u>FLOOR TILING</u></b>			
	<b><u>Full bodied porcelain tiles, size 600 x 600mm x 10mm (P.C allowance of R 150.00/m2 excludes V.A.T. but includes delivery to site), min R9 preferably R10 slip rated fixed to internal floor screed with tile adhesive mixed with bonding liquid in lieu of water with diagonal joints continuous in both directions and grouted with 3mm tile grout, excess grout on the surface to be cleaned with water as work proceeds.</u></b>			
1	On floors A : 74      B : 84      C : 125      D : 675	m2	958	
2	100mm high skirting A : 400      B : 195      C : 338      D : 325	m	1 258	
	<b>Carried Forward to Summary of Section No. 2</b>			
	Section No. 2			
	Bill No. 7			
	Tiling			
			R	



**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
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**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 8</u></b>			
	<b><u>PLUMBING AND DRAINAGE</u></b>			
	<b><u>(PROVISIONAL)</u></b>			
	<b><u>PREAMBLES</u></b>			
	The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill			
	<u>Note:</u>			
	All glazed ceramic sanitaryware to comply with SABS 497			
	All stainless steelware for medical institutions to comply with SABS 497			
	Stainless steel sinks to comply with SABS 907			
	Stainless steel washtroughs to comply with SABS 906			
	Cisterns to comply with SABS 821 and fitments to SABS 1509			
	All taps to comply to SABS 226			
	<b><u>RAINWATER GOODS</u></b>			
	<b><u>225 x 225mm PVC gutters including rivet-fixed mitres and end caps internally sealed using Silicon Mastic, hung by hangers with downpipes (elsewhere specified). Install strictly to manufacturer's specifications. Profile, type and finish all to Architect's approval</u></b>			
1	PVC gutters with 20mm overlapping joints sealed with and including bitumen impregnated foam plastic joint sealing strip and riveted at 20mm centres A : 190      B : 95      C : 182      D : 185	m	652	
2	80mm PVC down pipe fixed to brick wall including brackets A : 93      B : 48      C : 90      D : 90	m	321	
	<b>Carried Forward</b>		R	
	Section No. 2 Bill No. 8 Plumbing and Drainage (Provisional)			

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
**UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME**  
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Brought Forward				R
3	Extra over eaves gutter for offset A : 31      B : 16      C : 30      D : 30	No	107	
4	Extra over eaves gutter for outlet A : 31      B : 16      C : 30      D : 30	No	107	
5	Extra over eaves gutter for stopped end A : 31      B : 16      C : 30      D : 30	No	107	
6	Extra over for shoe A : 31      B : 16      C : 30      D : 30	No	107	
<b><u>SANITARY FITTINGS</u></b>				
Refer to sanitary schedule drawing for full description of abbreviations				
<b><u>Approved</u></b>				
7	Vitreous china close coupled washdown suite colour: white, comprising 90Deg. outlet open rim pan and matching 6 litre top dual flush cistern including lid and fitments, with thermoset seat. A : 11      B : 10      C : 7      D : 7	No	35	
8	Ceramic fire clay drop-in vanity basin, colour: white, size 595 x 455mm including chain stay hole fitted into opening in vanity top (elsewhere specified) and sealed with silicone sealant where basin rim meets vanity top. A : 7      B : 8      C : 7      D : 7	No	29	
<b><u>WASTE UNIONS, TRAPS ETC.</u></b>				
<b><u>The following sanitary fittings to SABS specifications, etc.</u></b>				
<b><u>Approved</u></b>				
9	32mm chrome plated bottle trap A : 7      B : 8      C : 7      D : 7	No	29	
<b><u>TAPS, FLUSH VALVES, ETC</u></b>				
<b><u>Approved</u></b>				
10	Selene basin mixer including valves A : 7      B : 8      C : 7      D : 7	No	29	
Carried Forward				R
Section No. 2 Bill No. 8 Plumbing and Drainage (Provisional)				

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
**UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME**  
**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

Brought Forward				R
<b><u>TESTING</u></b>				
11	Testing water pipe system A : 0.00    B : 0.00    C : 0.00    D : 1.00	Item		
<b><u>SANITARY PLUMBING</u></b>				
<b><u>Sewer and drainage pipes and fittings shall be through Solid wall Class 34 uPVC socketed soil piping in according to SABS 791, jointed and sealed with butyl rubber rings Soil, waste and vent pipes and fittings shall be according to SABS 967 and solvent jointed Cold water supply pressure pipes and fittings shall be according to SABS 966 and jointed by means of the "Lyng" type jointing system Pipes shall be fixed and jointed according to SABS 0112</u></b>				
<b><u>Class 34 uPVC Pipe</u></b>				
12	50mm pipes A : 15    B : 20    C : 25    D : 62	m	122	
13	110mm pipes A : 15    B : 40    C : 40    D : 46	m	141	
14	160mm pipes A : 5    B : 100    C : 15    D : 180	m	300	
<b><u>Class 34 uPVC FITTINGS</u></b>				
15	50mm 90 degree Bend A : 6    B : 0    C : 9    D : 3	No	18	
16	50mm 45 degree Bend A : 5    B : 0    C : 3    D : 5	No	13	
17	50mm Equal Access junction A : 12    B : 20    C : 12    D : 12	No	56	
18	110mm 45 degree Bend A : 5    B : 0    C : 5    D : 5	No	15	
19	110mm pan connector A : 11    B : 22    C : 26    D : 19	No	78	
20	110mm 90 degree Bend A : 2    B : 0    C : 2    D : 2	No	6	
<b>Carried Forward</b>				R
Section No. 2 Bill No. 8 Plumbing and Drainage (Provisional)				

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**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

Brought Forward				R
21	110mm 90 degree access Bend A : 2      B : 0      C : 2      D : 2	No	6	
22	110mm diameter - 50mm diameter junction A : 11      B : 6      C : 13      D : 6	No	36	
23	110mm Equal Access junction A : 1      B : 0      C : 4      D : 1	No	6	
24	160mm diameter- 110mm diameter junction A : 10      B : 6      C : 10      D : 5	No	31	
25	160mm diameter 90 Deg Bend A : 20      B : 20      C : 20      D : 0	No	60	
<b><u>Pipe Hangers - Anchor, Treaded Rod &amp; Hanger</u></b>				
26	50mm A : 2      B : 0      C : 5      D : 2	No	9	
27	110mm A : 2      B : 0      C : 5      D : 2	No	9	
<b><u>WATER SUPPLY</u></b>				
<b><u>COLD WATER RETICULATION</u></b>				
<b><u>Replace defective pipe sections and fittings</u></b>				
<b><u>PEX Piping</u></b>				
28	15mm Diameter pipe. A : 101      B : 50      C : 50      D : 45	m	246	
29	22mm Diameter pipe. A : 55      B : 20      C : 40      D : 60	m	175	
<b><u>Extra over PEX pipes for fittings:</u></b>				
30	15mm elbow. A : 68      B : 28      C : 16      D : 41	No	153	
31	22mm elbow. A : 69      B : 6      C : 6      D : 8	No	89	
32	22mm equal Tee A : 66      B : 12      C : 17      D : 20	No	115	
Carried Forward				R
Section No. 2 Bill No. 8 Plumbing and Drainage (Provisional)				

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Brought Forward				R
33	22-15 mm Reducer A : 66      B : 12      C : 18      D : 20	No	116	
<b><u>Plastic Pipe Compression Fittings And Valves</u></b>				
34	15mm elbow. A : 33      B : 6      C : 7      D : 6	No	52	
35	22mm Isolation Valve. A : 16      B : 6      C : 7      D : 6	No	35	
36	22mm Strainer Valve A : 16      B : 6      C : 7      D : 6	No	35	
<b><u>Pipe Hangers - Anchor, Treaded Rod &amp; Hanger</u></b>				
37	15mm Diameter pipe. A : 43      B : 25      C : 24      D : 23	No	115	
38	22mm Diameter pipe. A : 28      B : 10      C : 14      D : 13	No	65	
<b><u>Heavy brown paper loosely wrapped around pipe as sheath for expansion.</u></b>				
39	15 - 22mm Diameter pipe. A : 101      B : 50      C : 20      D : 45	m	216	
40	Provision For Pipework Chasing and Making Good After A : 96      B : 50      C : 10      D : 40	m	196	
<b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2				
Bill No. 8				
Plumbing and Drainage (Provisional)				

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
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**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO.2</u></b>			
	<b><u>BILL NO. 9</u></b>			
	<b><u>PAINTWORK</u></b>			
	<b><u>PREAMBLES</u></b>			
	The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.			
	<b><u>PAINTWORK ETC TO EXISTING WORK</u></b>			
	<b><u>ON FLOATED PLASTER</u></b>			
	<b><u>Prepare and apply one coat professional plaster primer and two coats acrylic PVA paint. Colour to Architect and Client Approval</u></b>			
1	Plastered walls A : 964      B : 702      C : 1353      D : 0	m2	3 019	
	<b><u>METAL SURFACES</u></b>			
	<b><u>Prepare and apply one coat professional plaster primer, universal undercoat and two coats super enamel. Colour to Architect and Client Approval</u></b>			
2	On doors frames A : 5      B : 21      C : 5      D : 0	m2	32	
	<b><u>ON WOOD</u></b>			
	<b><u>Prepare and paint three coats clear varnish:</u></b>			
3	On doors A : 64      B : 121      C : 238      D : 140	m2	563	
	<b>Carried Forward</b>			
	Section No. 2 Bill No. 9 Paintwork		R	

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
**UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME**  
**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

Brought Forward				R
<b><u>SMOOTH CONCRETE</u></b>				
<b><u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint for interior and exterior use. Colour to Architect and Client Approval</u></b>				
4	Soffits of slab A : 407      B : 170      C : 0      D : 0	m2	577	
<b><u>PAINTWORK ETC TO NEW WORK</u></b>				
<b><u>ON FLOATED PLASTER</u></b>				
<b><u>Prepare and apply one coat professional plaster primer and two coats acrylic PVA paint. Colour to Architect and Client Approval</u></b>				
5	Plastered walls A : 964      B : 702      C : 1353      D : 812	m2	3 831	
<b><u>ON PLASTER BOARD</u></b>				
<b><u>Prepare and apply one coat primer and two coats internal paint with mat finish. Colour to Architect and Client Approval</u></b>				
6	On internal ceilings and cornices A : 194      B : 60      C : 101      D : 120	m2	475	
<b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2				
Bill No. 9				
Paintwork				

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
**UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME**  
**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 10</u></b>			
	<b><u>PROVISIONAL SUMS</u></b>			
	<b><u>Note</u></b>			
	The items described hereunder cover work which is not fully defined at tender date and which is intended to be executed by the contractor and/or his subcontractors. The amounts shown shall be used as directed by the principal agent and shall be deducted in all or in part if not required.			
	<b><u>STATION FIXED FURNITURE</u></b>			
1	Allow an amount of R75 000,00 (Seventy Five Thousand Rand) for the installation of fixed furniture at Congella Station	Item		75 000,00
2	Allow an amount of R75 000,00 (Seventy Five Thousand Rand) for the installation of fixed furniture at Umbilo Station	Item		75 000,00
3	Allow an amount of R100 000,00 (One Hundred Thousand Rand)for the installation of fixed furniture at Rossburgh Station	Item		100 000,00
4	Allow an amount of R250 000,00 (Two Hundred and Fifty Thousand Rand)for the installation of fixed furniture at Merebank Station	Item		250 000,00
5	Profit		%	
6	Attendance		%	
	<b><u>STATION SIGNAGE</u></b>			
7	Allow an amount of R40 000,00 (Forty Thousand Rand) for the installation of missing signage at Congella Station	Item		40 000,00
8	Allow an amount of R40 000,00 (Forty Thousand Rand) for the installation of missing signage at Umbilo Station	Item		40 000,00
	<b>Carried Forward</b>		R	
	Section No. 2			
	Bill No. 10			
	Provisional Sums			



**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
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**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

	Brought Forward		R
9	Allow an amount of R40 000,00 (Forty Thousand Rand) for the installation of missing signage at Rossburgh Station	Item	40 000,00
10	Allow an amount of R50 000,00 (Fifty Thousand Rand) for the installation of missing signage at Merebank station	Item	50 000,00
11	Profit	%	
12	Attendance	%	
<b><u>COMMUNITY LIAISON OFFICER</u></b>			
13	Allow an amount of R90 000,00 (Ninety Thousand Rand) for a Community Liaison Officer at Congella Station	Item	90 000,00
14	Allow an amount of R90 000,00 (Ninety Thousand Rand) for a Community Liaison Officer at Umbilo Station	Item	90 000,00
15	Allow an amount of R90 000,00 (Ninety Thousand Rand) for a Community Liaison Officer at Rossburgh Station	Item	90 000,00
16	Allow an amount of R90 000,00 (Ninety Thousand Rand) for a Community Liaison Officer Merebank Station.	Item	90 000,00
17	Profit	%	
<b><u>PROTECTION SERVICES</u></b>			
18	Allow an amount of R200 000,00 (Two Hundred Thousand Rand) for occupation at Congella Station	Item	200 000,00
19	Allow an amount of R200 000,00 (Two Hundred Thousand Rand) for occupation at Umbilo Station	Item	200 000,00
20	Allow an amount of R200 000,00 (Two Hundred Thousand Rand) for occupation at Rossburgh Station	Item	200 000,00
21	Allow an amount of R200 000,00 (Two Hundred Thousand Rand) for occupation at Merebank Station	Item	200 000,00
22	Profit	%	
<b>Carried Forward</b>			R
Section No. 2			
Bill No. 10			
Provisional Sums			

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)  
 UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME  
 CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

23	Attendance	Brought Forward		R	%
				R	
				R	

**Carried Forward to Summary of Section No. 2**

Section No. 2  
 Bill No. 10  
 Provisional Sums

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
**UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME**  
**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO.2</u></b>			
	<b><u>BILL NO.11</u></b>			
	<b><u>BUDGETARY ALLOWANCES</u></b>			
	<b><u>Note</u></b>			
	The items described hereunder cover work which is not fully defined at tender date and which is intended to be executed by the contractor and/or his subcontractors. The amounts shown shall be used as directed by the principal agent and shall be deducted in all or in part if not required.			
	<b><u>BINS &amp; BENCHES</u></b>			
1	Allow an amount of R190 000,00 (One Hundred and Ninety Thousand Rand) for bins and benches at Congella Station	Item		190 000,00
2	Allow an amount of R25 000,00 (Twenty Five Thousand Rand) for bins and benches at Umbilo Station	Item		25 000,00
3	Allow an amount of R109 000,00 (One Hundred and Nine Thousand Rand) for bins and benches at Rossburgh Station	Item		109 000,00
4	Allow an amount of R20 000,00 (Twenty Thousand Rand) for bins and benches at Merebank Station	Item		20 000,00
5	Profit		%	
	<b><u>RESURFACING</u></b>			
6	Allow an amount of R25 000,00 (Twenty Five Thousand Rand) for the resurfacing on the platforms at Congella Station	Item		25 000,00
7	Allow an amount of R25 000,00 (Twenty Five Thousand Rand) for the resurfacing on the platforms at Umbilo Station	Item		25 000,00
	<b>Carried Forward</b>		R	
	Section No. 2			
	Bill No. 11			
	Budgetary Allowances			

Brought Forward		R
Allow an amount of R50 000,00 (Fifty Thousand Rand) for the resurfacing on the platforms at Rossburgh Station	Item	50 000,00
Allow an amount of R35 000,00 (Thirty Five Thousand Rand) for repairs to the stormwater drain by the entrance at Merebank Station	Item	35 000,00
Profit		%
Carried Forward to Summary of Section No. 2		R
Section No. 2		
Bill No. 11		
Budgetary Allowances		

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
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**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

Bill No	SECTION SUMMARY - BUILDER'S WORK	Page No	Amount
1	Alterations and Renovations	27	
2	Roof Coverings	28	
3	Carpentry and Joinery	32	
4	Ceilings, Partitioning and access flooring	34	
5	Ironmongery	35	
6	Metalwork	39	
7	Tiling	40	
8	Plumbing and Drainage (Provisional)	45	
9	Paintwork	47	
10	Provisional Sums	50	
11	Budgetary Allowances	52	
Carried to Final Summary			R
Section No. 2			

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**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
**UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME**  
**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

Brought Forward			R
<b><u>LV SWITCHGEAR</u></b>			
<b><u>DBs and LV Switchgear</u></b>			
<b><u>Manufacture, deliver to site, install, commission, test kiosks, distribution boards as per specification and single line diagram, to be housed in electrical. All electrical panels shall be stainless steel material, rates to include powder coated, busbars and drilling, busbar connections internal wiring etc. Refer to single line diagram for electrical panel colour</u></b>			
<b><u>CONGELLA STATION</u></b>			
5	Kiosk 1	No	1
6	Kiosk 2	No	1
7	DB - 1	No	4
8	DB - 2	No	7
9	Surface mounted UT4 IP65 Box complete with 32A, 1-pole isolator, 3x 10A circuit breakers with complete with busbars	No	12
<b><u>UMBILO STATION</u></b>			
10	Sub-DB A1	No	1
11	Sub-DB A2	No	1
12	Surface mounted UT4 IP65 Box complete with 32A, 1-pole isolator, 3x 10A circuit breakers with complete with busbars	No	6
<b><u>ROSSBURGH STATION</u></b>			
13	Kiosk AE	No	1
14	Kiosk 1	No	1
15	Kiosk 2	No	2
16	DB - 1 & 2	No	2
17	Surface mounted UT4 IP65 Box complete with 32A, 1-pole isolator, 3x 10A circuit breakers with complete with busbars	No	1
<b>Carried Forward</b>			R
Section No. 3 Bill No. 1 Electrical Installation			

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
**UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME**  
**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

	Brought Forward			R
18	Kiosk concrete plinth for Kiosk AE. Refer to attached kiosk drawings - dimensions are 950mmx 650mmx 150mm and must be 25Mpa. Rate to include removing existing kiosk and slab , clean up, prepare for new slab and construction of new concrete slab			SUM
	<u>MEREBANK STATION</u>			
19	DB - 1	No	1	
20	DB - 2	No	1	
21	DB - 3	No	1	
22	Surface mounted UT4 IP65 Box complete with 32A, 1-pole isolator, 3x 10A circuit breakers with complete with busbars	No	6	
	<b><u>CABLES AND CONDUCTORS</u></b>			
	<b><u>Supply, deliver to site cables and conductors as specified. Install, rack, strap and testing of cables as per specification including clamps, ties and cable numbering system</u></b>			
23	2,5mm conductors (mixed colours - live, neutral and earth) A : 2800      B : 100      C : 7800      D : 2500	m	13 200	
24	2.5 mm² 2c 600/1000V PVC/SWA/PVC ECC Cu Cable A : 500      B : 1      C : 500      D : 200	m	1 201	
25	2.5 mm² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable A : 400      B : 0      C : 0      D : 0	m	400	
26	4,0mm conductors (mixed colours - live, neutral and earth) A : 0      B : 0      C : 7800      D : 0	m	7 800	
27	10 mm² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable A : 350      B : 130      C : 0      D : 300	m	780	
28	16mm² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable A : 10      B : 0      C : 0      D : 0	m	10	
29	70 mm² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable A : 220      B : 0      C : 140      D : 100	m	460	
	<b>Carried Forward</b>			R
	Section No. 3 Bill No. 1 Electrical Installation			



**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)  
UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME  
CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

Brought Forward				R
<b><u>CABLES AND CONDUCTORS</u></b>				
<u>Termination of cables shall include supply installation and testing of the glands with corrosion guard , making-off the cable, lugs, and fitting the gland to the board gland plate, switchgear or equipment and final connection of cable tails into board or terminals. Include for Reducing Glands and shrouds where applicable. NB: IP65 Glands are to be used where applicable.</u>				
30	2,5mm <sup>2</sup> 4c 600/1000V PVC/SWA/PVC ECC Cu Cable A : 70      B : 0      C : 10      D : 10	No	90	
31	10 mm <sup>2</sup> 4c 600/1000V PVC/SWA/PVC ECC Cu Cable A : 8      B : 10      C : 0      D : 4	No	22	
32	16mm <sup>2</sup> 4c 600/1000V PVC/SWA/PVC ECC Cu Cable A : 2      B : 0      C : 0      D : 0	No	2	
33	70mm <sup>2</sup> 4c 600/1000V PVC/SWA/PVC ECC Cu Cable A : 4      B : 0      C : 4      D : 4	No	12	
34	25mm PVC Conduit including all necessary accessories. Rate to include chasing wall for conduit in the wall, close wall and make good. A : 250      B : 10      C : 1300      D : 500	m	2 060	
35	25mm steel Conduit including all necessary accessories. Rate to include chasing wall for conduit in the wall and made close made good / surface mounted with required accessories. A : 0      B : 0      C : 100      D : 100	m	200	
36	32mm steel Conduit including all necessary accessories. Rate to include chasing wall for conduit in the wall and made close made good / surface mounted with required accessories. A : 27      B : 1      C : 0      D : 0	m	28	
37	4-way junction box IP66 A : 0      B : 0      C : 0      D : 12	No	12	
38	100mmX50mm hot deep galvanised draw box recessed mounted on wall A : 0.0      B : 0.0      C : 0.0      D : 0.0	No		rate only
Carried Forward				R
Section No. 3 Bill No. 1 Electrical Installation				

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
**UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME**  
**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

	Brought Forward			R
39	Supply, deliver to site, store & install P9000 trunking hot dipped galvanised inclusive of all items required to install in accordance with manufacturers specification. Rate must be inclusive of all items such as brackets, raw bolts, splices, bonding straps etc. required to install in accordance with manufacturers specification. A : 0      B : 0      C : 150      D : 150	m	300	
40	2 compartment PVC powerskirting complete with elbow, internal and external bends, covers and all required accessories. To be grey in colour. A : 0      B : 0      C : 50      D : 0	m	50	
41	Supply and install 16A, 3pin, 230V Switched Socket Outlets, white coloured cover plate with red toggle A : 0      B : 0      C : 15      D : 3	No	18	
42	Supply and install 16A, 2pin/Euro pin, 230V Switched Socket Outlets, red coloured cover plate A : 0      B : 0      C : 15      D : 6	No	21	
43	Supply and install 16A, 3pin, earth pin chamfered, 230V Switched Socket Outlets, white coloured cover plate with red toggle A : 0      B : 0      C : 15      D : 0	No	15	
44	Supply and install 16A, 2pin, 230V Switched Socket Outlets, red coloured cover plate A : 0      B : 0      C : 0      D : 3	No	3	
<b><u>LUMINARIES AND CONTROL DEVICES</u></b>				
<b><u>Supply, deliver, accept and store the following luminaries, complete with lamps and control gear as per specification. See and refer to the specification document for details of each luminary.</u></b>				
45	Type A5 - IP65 Rated, 30W / +/-4440 lm LED - 4000k vapour-proof Surface-mounted weather-proof luminaire, GRP body and acrylic diffuser, with 50000 hours lifespan. A : 10      B : 0      C : 98      D : 40	No	148	
46	Type A13 - IP65 Rated, 30W / +/-4440 lm LED - 4000k Rough-guard Surface-mounted weather-proof luminaire, GRP body and acrylic diffuser, with 50000 hours lifespan. A : 22      B : 0      C : 93      D : 45	No	160	
<b>Carried Forward</b>				R
Section No. 3 Bill No. 1 Electrical Installation				

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
**UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME**  
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	Brought Forward		R	
47	Type B1 - IP65 Rated high-pressure die cast aluminium base and trim ring 20W/ +/- 2600lm LED - 4000k bulkhead luminaire with an opal high-impact acrylic diffuser, with 50000 hours lifespan. A : 48      B : 4      C : 0      D : 40	No	92	
48	Type B3 - IP65 Rated high-pressure die cast aluminium base and trim ring 32W/ +/- 4370lm LED - 4000k bulkhead luminaire with an opal high-impact acrylic diffuser, with 50000 hours lifespan. A : 32      B : 0      C : 12      D : 0	No	44	
49	Type B4 - same as B3 above, but with battery backup to operate for 1-hour A : 0      B : 0      C : 1      D : 0	No	1	
50	Type C4 - 144W / +/-20869lm LED (4000k) Lowbay, rated IP65 with powder coating as per specification A : 0      B : 8      C : 12      D : 32	No	52	
51	Type C5 - same as type C4 above, but with battery backup to last 1-hour as per specification	No		Rate Only
52	Type C6 - 80W / +/-10000lumen LED (4000k) Floodlight, rated IP65 with powder coating as per specification A : 30      B : 9      C : 0      D : 4	No	43	
53	Type FL1 - 180W / +/-27000lm LED (4000k) Streetlight rated IP66 with powder coating as per specification A : 16      B : 10      C : 14      D : 13	No	53	
54	Type FL3 - 54W / +/-7700 lumen LED (4000k) post pole, rated IP65 with powder coating as per specification A : 0      B : 0      C : 10      D : 0	No	10	
55	Retrofit existing vapour-proof luminaire with LED tube 28W / on a 4ft vapour-proof luminaire. Also removal of electronic balast for a complete operation of the luminaire. A : 37      B : 18      C : 20      D : 61	No	136	
56	Photo electric cell as per specification A : 8      B : 2      C : 5      D : 5	No	20	
57	Supply and installation of 32 Amp 4-Pole surface mounted isolator, complete with all necessary accessories A : 4      B : 1      C : 20      D : 4	No	29	
	Carried Forward			R
	Section No. 3 Bill No. 1 Electrical Installation			

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
**UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME**  
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Brought Forward		R
<b><u>TEST AND COMMISSIONING</u></b>		
<b><u>CONGELLA STATION</u></b>		
<b><u>Test and commission the complete electrical installation including completion of quality check sheets, Compliance Certificates &amp; test results and submitting them to the Employer's Representative.</u></b>		
58	Test and commission the complete electrical installation including Certificates of Compliance & test results to the Engineer. Main administration ticket office with guard houses.	Item 30 000,00
<b><u>UMBILO STATION</u></b>		
<b><u>Test and commission the complete electrical installation including completion of quality check sheets, Compliance Certificates &amp; test results and submitting them to the Employer's Representative.</u></b>		
59	Test and commission the complete electrical installation including Certificates of Compliance & test results to the Engineer.	Item 10 000,00
<b><u>ROSSBURGH STATION</u></b>		
<b><u>Test and commission the complete electrical installation including completion of quality check sheets, Compliance Certificates &amp; test results and submitting them to the Employer's Representative.</u></b>		
60	Test and commission the complete electrical installation including Certificates of Compliance & test results to the Engineer.	Item 40 000,00
<b><u>MEREBANK STATION</u></b>		
<b><u>Test and commission the complete electrical installation including completion of quality check sheets, Compliance Certificates &amp; test results and submitting them to the Employer's Representative.</u></b>		
61	Test and commission the complete electrical installation including Certificates of Compliance & test results to the Engineer.	Item 35 000,00
Carried Forward		R
Section No. 3 Bill No. 1 Electrical Installation		

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
**UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME**  
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Brought Forward			R
<b><u>BACK-UP GENERATOR</u></b>			
<b><u>Congella Station</u></b>			
62	Backup diesel Generator - 60kVA, 400VAC three phase, 50Hz, with auto-change over panel. Generator to be installed and supplied with full tank diesel, must be able to Starts & Stops Automatically, Maintenance-free Battery, Silent Weatherproof 3CR12 steel Canopy, Long-range Fuel Tank, Easy Cable Entry, Emergency Stop Button, Weatherproof Exhaust System.	Item	200 000,00
63	50 mm <sup>2</sup> 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	m	200
64	Cable gland 50 mm <sup>2</sup> 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	No	2
65	Supporting structure for generator set	Item	80 000,00
<b><u>Umbilo Station</u></b>			
66	Backup diesel Generator - 100kVA, 400VAC three phase, 50Hz, with auto-change over panel. Generator to be installed and supplied with full tank diesel, must be able to Starts & Stops Automatically, Maintenance-free Battery, Silent Weatherproof 3CR12 steel Canopy, Long-range Fuel Tank, Easy Cable Entry, Emergency Stop Button, Weatherproof Exhaust System.	Item	260 000,00
67	95 mm <sup>2</sup> 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	m	50
68	Cable gland 95mm <sup>2</sup> 600/1000V PVC/SWA/PVC ECC Cu Cable	No	2
69	Supporting structure for generator set	Item	80 000,00
<b><u>Rosburgh Station</u></b>			
70	Backup diesel Generator - 60kVA, 400VAC three phase, 50Hz, with auto-change over panel. Generator to be installed and supplied with full tank diesel, must be able to Starts & Stops Automatically, Maintenance-free Battery, Silent Weatherproof 3CR12 steel Canopy, Long-range Fuel Tank, Easy Cable Entry, Emergency Stop Button, Weatherproof Exhaust System.	Item	200 000,00
71	50 mm <sup>2</sup> 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	m	200
72	Cable gland 95mm <sup>2</sup> 600/1000V PVC/SWA/PVC ECC Cu Cable	No	2
73	Supporting structure for generator set	Item	80 000,00
<b>Carried Forward</b>			R
Section No. 3 Bill No. 1 Electrical Installation			

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
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Brought Forward			R
<b><u>Merebank Station</u></b>			
74	Backup diesel Generator - 60kVA, 400VAC three phase, 50Hz, with auto-change over panel. Generator to be installed and supplied with full tank diesel, must be able to Starts & Stops Automatically, Maintenance-free Battery, Silent Weatherproof 3CR12 steel Canopy, Long-range Fuel Tank, Easy Cable Entry, Emergency Stop Button, Weatherproof Exhaust System.	Item	200 000,00
75	50 mm <sup>2</sup> 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	m	100
76	cable gland 50 mm <sup>2</sup> 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	No	2
77	Supporting structure for generator set	Item	80 000,00
<b>Carried to Final Summary</b>			R
Section No. 3			
Bill No. 1			
Electrical Installation			

**THE PASSENGER RAIL AGENCY OF SOUTH AFRICA (PRASA)**  
**UMLAZI SUB CORRIDOR 1 - STATION IMPROVEMENT PROGRAMME**  
**CLUSTER 6 - CONGELLA, UMBILO, ROSSBURGH AND MEREBANK STATION**

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 4</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>FIRE PROTECTION</u></b>			
	<b><u>MAIN TICKET OFFICE</u></b>			
	<b><u>Supply, deliver and install all Fire appliances and piping with complete with all auxiliary fittings :.</u></b>			
1	"Everyway" hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket, bolted to wall.	No	8	
2	4.5kg Carbon Dioxide fire extinguisher Mounted on a Wooden Block.	No	33	
3	Fire Hydrant in a Cabinet	No	2	
4	38mm Layflat Hose With Adjustable Nozzle Housed inside a Cabinet	No	2	
	A : 0      B : 0      C : 0      D : 2			
5	Photoluminated Directional Signage		SUM	
	A : 1      B : 1      C : 0      D : 1			
6	Photoluminated Fire Signage		SUM	
	A : 1      B : 1      C : 0      D : 1			
	<b><u>PLATFORMS</u></b>			
	<b><u>Black Mild Steel Fittings</u></b>			
7	25, 90 Degree Threaded Elbow	No	66	
8	25mm steel Union	No	44	
9	80, 90 Degree Threaded Elbow	No	39	
	A : 16      B : 9      C : 7      D : 7			
10	80, Equal Threaded Tee	No	34	
	A : 15      B : 9      C : 6      D : 4			
	<b><u>Black Mild Steel Piping</u></b>			
11	25 mm Pipes	m	120	
	A : 40      B : 20      C : 30      D : 30			
	<b>Carried Forward</b>		R	
	Section No. 4			
	Bill No. 1			
	Fire Protection			

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Brought Forward				R
12	80 mm Pipes	m	184	
	A : 100      B : 40      C : 40      D : 4			
	<b><u>Supply, deliver and install all Fire appliances and piping with complete with all auxiliary fittings .:</u></b>			
	<b><u>Class 16 HDPE Piping &amp; Fittings</u></b>			
13	75mm Pipe laid and including trenches not exceeding 800m deep.	m	700	
	A : 300      B : 150      C : 100      D : 150			
14	25mm Pipe laid and including trenches not exceeding 800m deep.	m	570	
	A : 400      B : 60      C : 50      D : 60			
15	75mm-25mm Reducing TEE (Flanged)	No	28	
	A : 16      B : 4      C : 4      D : 4			
16	75mm Adaptor Flange (for fire hydrants)	No	12	
	A : 4      B : 2      C : 3      D : 3			
17	25mm Adaptor Flange (for FHR lines)	No	20	
	A : 8      B : 4      C : 4      D : 4			
18	75mm , 90 Degree Elbow	No	130	
	A : 50      B : 10      C : 20      D : 50			
19	25mm , 90 Degree Elbow	No	30	
	A : 12      B : 8      C : 6      D : 4			
20	"Everyway" hose reel complete with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket, bolted to wall.	No	20	
	A : 8      B : 4      C : 4      D : 4			
21	4.5kg Carbon Dioxide fire extinguisher Mounted on a Wooden Block.	No	54	
22	Fire Hose reel & fire Extinguisher Cabinet	No	20	
23	Fire Hydrant in a Cabinet	No	10	
24	38mm Layflat Hose With Adjustable Nozzle Housed inside a Cabinet	No	10	
	A : 4      B : 2      C : 2      D : 2			
25	Photoluminated Directional Signage			SUM
	A : 4      B : 1      C : 1      D : 1			
Carried Forward				R
Section No. 4 Bill No. 1 Fire Protection				



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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 5</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>HVAC INSTALLATION</u></b>			
	<b><u>MAIN TICKET OFFICE</u></b>			
	<b><u>Supply, deliver and install the following Units as per specification:</u></b>			
1	16 kW Cooling Concealed Ceiling Indoor Unit	No	3	
2	50 kW Multiple System Type Outdoor Condensing Unit	No	1	
3	3.6 kW Cooling Midwall split Indoor Unit	No	2	
4	3.6 kW Inverter Type Outdoor Condensing Unit	No	2	
5	4 kW Cooling Midwall split Indoor Unit	No	2	
6	4 kW Inverter Type Outdoor Condensing Unit	No	2	
7	5 kW Cooling Midwall split Indoor Unit	No	7	
8	5 kW Inverter Type Outdoor Condensing Unit	No	7	
9	14 kW Cooling Underceiling Indoor Unit	No	1	
10	14 kW Inverter Type Outdoor Condensing Unit	No	1	
11	Refrigeration Copper Piping With Thermal Insulation and all associated Fittings. A : 15 B : 10 C : 50 D : 20	m	95	
12	PVC Condensate Drain Piping With Insulation A : 15 B : 10 C : 20 D : 30	m	75	
13	Wired Controller	No	15	
14	Provide Full Service and Relocate The Existing Midwall Split Unit and The outdoor Condensing Unit A : 1 B : 3 C : 0 D : 1	No	5	
15	Service the Existing Ducting , Air Terminals and Fresh Air Supply Systems at Rossburgh Station	Item		30 000,00
16	Fabricate , Supply and Install locable Security Cages around each Outdoor Condensing Unit	No	16	
	<b>Carried Forward</b>			
	Section No. 5 Bill No. 1 Heating, Ventilation and Air-Conditioning		R	

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Brought Forward					R
<b><u>Supply The following Ablution Extraction System with Complete Associated Fittings</u></b>					
17	400 dia Spiral ducting With Fittings	m	3		
	A : 0      B : 0      C : 3      D : 0				
18	350 dia Spiral ducting With Fittings	m	3		
	A : 0      B : 0      C : 3      D : 0				
19	300 dia Spiral ducting With Fittings	m	3		
	A : 0      B : 0      C : 3      D : 0				
20	250 dia Spiral ducting With Fittings	m	9		
	A : 0      B : 6      C : 3      D : 0				
21	200 dia Spiral ducting With Fittings	m	9		
	A : 0      B : 3      C : 6      D : 0				
22	400 dia - 200 Reducing Tee	No	1		
	A : 0      B : 0      C : 1      D : 0				
23	350 dia - 200 Reducing Tee	No	1		
	A : 0      B : 0      C : 1      D : 0				
24	300 dia - 200 Reducing Tee	No	2		
	A : 0      B : 0      C : 2      D : 0				
25	250 dia - 200 Reducing Tee	No	4		
26	200 dia 90 Deg Bends	No	12		
	A : 0      B : 4      C : 8      D : 0				
27	Silencer STD1.5 Melinex	No	4		
	A : 0      B : 2      C : 2      D : 0				
28	Axial Flow Fan	No	2		
	A : 0      B : 1      C : 1      D : 0				
29	200 Dia Air Damper	No	6		
30	200 Dia Air Valve	No	11		
	A : 0      B : 3      C : 8      D : 0				
31	350x250 Door Grille	No	7		
<b>Carried to Final Summary</b>					R
Section No. 5					
Bill No. 1					
Heating, Ventilation and Air-Conditioning					

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Item No			Quantity	Rate	Amount
	<b><u>SECTION NO.6</u></b>				
	<b><u>BILL NO. 1</u></b>				
	<b><u>RETAINING WALL</u></b>				
	<b><u>MEREBANK STATION</u></b>				
	<b><u>PREAMBLES:</u></b>				
	The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill				
	<b><u>EXCAVATIONS</u></b>				
	<b><u>Excavating soft material situated within the following successive depth ranges:</u></b>				
1	0m up to 1,5m	m3	50		
2	Exceeding 1,5m up to 3m	m3	5		
3	Extra over for excavation in hard material irrespective of depth	m3	5		
	<b><u>Backfill to excavations utilising:</u></b>				
4	material from the excavation	m3	5		
5	imported material	m3	5		
6	soil cement, 3% cement	m3	5		
7	Fill within a restricted area	m3	5		
	<b><u>Overhaul</u></b>				
8	Overhaul in excess of 1,0km on excavated material and on material imported for backfill and foundation fill	M3.KM	5		
	<b>Carried Forward</b>				
	Section No. 6			R	
	Bill No. 1				
	Retaining Wall				

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		Brought Forward			R
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>				
	<b><u>FALSEWORK, FORMWORK AND CONCRETE FINISH</u></b>				
	<b><u>Vertical formwork to provide</u></b>				
	<u>Class F1 surface finish to:</u>				
9	Sides of bases and rear concealed faces of walls	m2	15		
10	Joints between adjacent wall panels	m2	20		
	<u>Class F2 surface finish to:</u>				
11	Front faces of walls	m2	12		
	<u>Class F3 surface finish to:</u>				
12	Front faces of walls	m2	12		
	<b><u>REINFORCED CONCRETE</u></b>				
	<b><u>15MPa/19mm Concrete:</u></b>				
13	Blinding	m3	5		
	<b><u>25MPa/19mm Concrete:</u></b>				
14	Foundations	m3	30		
	<b><u>30MPa/19mm Concrete:</u></b>				
15	Retaining Wall	m3	30		
	<b><u>SUPERSTRUCTURE</u></b>				
	<b><u>Brickwork of NFX bricks (14 MPa nominal compressivestrength) in class II mortar in load bearing walls etc</u></b>				
16	Piers	m3	1		
17	H-shaped Piers	m3	1		
		Carried Forward			R
	Section No. 6 Bill No. 1 Retaining Wall				

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Brought Forward			R
18	Half brick walls	m2	1
19	One brick walls	m2	1
20	280mm hollow walls of two half brick skins including wire ties	m2	1
21	One and a half brick wall	m2	100
22	390mm hollow walls of one half brick and one one brick skins including wire ties	m2	1
23	Two brick walls	m2	1
<b><u>BRICKWORK SUNDRIES</u></b>			
<b><u>Brickwork reinforcement:</u></b>			
24	75mm Wide reinforcement built in horizontally	m	1
25	150mm Wide reinforcement built in horizontally	m	1
26	230mm Wide reinforcement built in horizontally	m	200
Carried to Final Summary			R
Section No. 6			
Bill No. 1			
Retaining Wall			

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6	EXTERNAL WORKS	70	
	SUB-TOTAL		R
	ADD 10% CONTINGENCIES TO BE USED AT THE CLIENT AND PRINCIPAL AGENTS DISCRETION		R
	SUB-TOTAL		R
	ADD VAT		R
	Carried to Form of Tender		R