

Item No	Quantity	Rate	Amount
<u>SECTION NO. 1</u>			
<u>BILL NO. 1</u>			
<u>PRELIMINARIES & GENERAL</u>			
<u>NOTES</u>			
<p>i) The NEC3 Engineering and Construction Contract - Option B: Priced contract with bill of quantities (Third edition of June 2005 with amendments June 2006) in conjunction with the Contract Data is taken to be incorporated herein.</p> <p>ii) The Tenderer is deemed to have taken cognisance of the above mentioned documents for the full intent and meaning of each clause. These clauses are referred to by clause number and heading only.</p> <p>iii) Where standard clauses or options are not applicable to this contract, such modifications, corrections or supplements as are necessary, are given under each relevant clause.</p> <p>iv) Where any items are not used for this specific contract such items are nevertheless listed but marked not applicable in the amount column.</p> <p>v) The amount of the Preliminaries to be included in each monthly payment certificate shall be assessed as an amount prorated to the value of the work duly executed in the same ratio as the preliminaries bears to the total of prices excluding any contingency sum, the amount for the Preliminaries and any amount in respect of contract price adjustment provided for in the contract.</p> <p>vi) Where the initial contract period is extended, the monthly charge shall be calculated on the basis as set out in (v) but taking into account the revised period for completing the works.</p>			
Carried Forward			R
Section No. 1 Bill No. 1 Preliminaries and General			

Brought Forward	R
<p>vii) The amount or the items of the Preliminaries are adjusted to take account of the theoretical financial effect which changes in time or value (or both) have on this section. Such adjustments are based on adjustments in the following categories as recorded in the Bill of Quantities:</p> <p>a) an amount which is not varied, namely Fixed</p> <p>b) an amount which is varied in proportion to the contract value, namely Value Related; and</p> <p>c) an amount which is varied in proportion to the construction period as compared to the initial construction period excluding revisions to the construction period for which the contractor is not entitled to adjustment in terms of the contract, namely Time Related.</p> <p>viii) Where no provision is made in the Bill of Quantities to indicate which of the three categories in (vii) apply or where no selection is made, the adjustments shall be based on the following breakdown:</p> <p>a) 10 percent is Fixed</p> <p>b) 15 percent is Value Related</p> <p>c) 75 percent is Time Related</p> <p>ix) The adjustment of the Preliminaries shall apply notwithstanding the actual employment of resources in the execution of the works. The contract value used for the adjustment of the Preliminaries shall exclude any contingency sum, the amount for the Preliminaries and any amount in respect of contract price adjustment provided for in the contract. Adjustments in respect of any staged or sectional completion shall be prorated to the value of each section.</p> <p>x) Items not priced in these preliminaries are deemed to be included elsewhere in this bills of quantities.</p> <p><u>SECTION A : CORE CLAUSES</u></p> <p><u>GENERAL (A1)</u></p> <p>Clause 1.0</p>	
Carried Forward	R
<p>Section No. 1 Bill No. 1 Preliminaries and General</p>	

Brought Forward			R
<p>Clause 11.2(4) is amended by replacing it with the following:</p> <p>The Contract Date is the date when the contractor receives one fully completed signed copy of this document, including the schedule of deviations (if any) as contained in the Form of Offer and Acceptance</p>			
1	Fixed:..... Value Related:..... Time Related:.....	Item	
<u>THE CONTRACTOR'S MAIN RESPONSIBILITIES (A2)</u>			
<p>Clause 2.0</p> <p>The contractor must provide and keep a copy of the NEC3 Engineering and Construction Contract - Option B: Priced contract with bill of quantities applicable to this contract and a copy of the Procurement Document on the site, to which the Project Manager and Supervisor have access at all times.</p>			
2	Fixed:..... Value Related:..... Time Related:.....	Item	
<u>TIME (A3)</u>			
<p>Clause 3.0</p>			
3	Fixed:..... Value Related:..... Time Related:.....	Item	
<u>TESTING AND DEFECTS (A4)</u>			
<p>Clause 4.0</p>			
4	Fixed:..... Value Related:..... Time Related:.....	Item	
<u>PAYMENT (A5)</u>			
<p>Clause 5.0</p> <p>Clause 50.0 is amended by the addition of the following clause:</p>			
Carried Forward			R
<p>Section No. 1 Bill No. 1 Preliminaries and General</p>			

	Brought Forward		R	
	Materials and goods stored off site are not included in the amount authorised for payment unless approved by the Employer in writing			
5	Fixed:..... Value Related:..... Time Related:.....	Item		
	<u>COMPENSATION EVENTS (A6)</u>			
	Clause 6.0			
	<u>TITLE (A7)</u>			
6	Fixed:..... Value Related:..... Time Related:.....	Item		
	<u>RISK AND INSURANCE (A8)</u>			
	Clause 8.0			
7	Fixed:..... Value Related:..... Time Related:.....	Item		
	<u>TERMINATION (A9)</u>			
	Clause 9.0			
8	Fixed:..... Value Related:..... Time Related:.....	Item		
	<u>SECTION B: MAIN OPTION CLAUSES</u>			
	<u>PRICED CONTRACT WITH BILL OF QUANTITIES (B1)</u>			
	Clause 10.0			
	The quantities in provisional bill of quantities are an indication of the works to be executed and are subject to remeasurement.			
9	Fixed:..... Value Related:..... Time Related:.....	Item		
	<u>SECTION C : DISPUTE RESOLUTION</u>			
	Carried Forward		R	
	Section No. 1			
	Bill No. 1			
	Preliminaries and General			

	Brought Forward	R	
	<u>OPTION W1 (C1)</u>		
	Clause 11.0		
10	Fixed:..... Value Related:..... Time Related:.....	Item	
	<u>SECTION D: SECONDARY OPTION CLAUSES</u>		
	<u>X1 PRICE ADJUSTMENT FOR INFLATION (D1)</u>		
	Clause 12.0		
11	Fixed:..... Value Related:..... Time Related:.....	Item	
	<u>X2 CHANGES IN THE LAW (D2)</u>		
	Clause 13.0		
12	Fixed:..... Value Related:..... Time Related:.....	Item	
	<u>X3 MULTIPLE CURRENCIES (D3)</u>		
	Clause 14.0		
13	Fixed:..... Value Related:..... Time Related:.....	Item	
	<u>X4 PARENT COMPANY GUARANTEE (D4)</u>		
	Clause 16.0		
14	Fixed:..... Value Related:..... Time Related:.....	Item	
	<u>X5 SECTIONAL COMPLETION (D5)</u>		
	Clause 16.0		
15	Fixed:..... Value Related:..... Time Related:.....	Item	
	Carried Forward	R	
	Section No. 1 Bill No. 1 Preliminaries and General		

Brought Forward			R
<u>X6 BONUS FOR EARLY COMPLETION (D6)</u>			
Clause 17.0			
16	Fixed:..... Value Related:..... Time Related:.....	Item	
<u>X7 DELAY DAMAGES (D7)</u>			
Clause 18.0			
17	Fixed:..... Value Related:..... Time Related:.....	Item	
<u>X12 PARTNERING (D8)</u>			
Clause 19.0			
18	Fixed:..... Value Related:..... Time Related:.....	Item	
<u>X13 PERFORMANCE BOND (D9)</u>			
Clause 20.0			
19	Fixed:..... Value Related:..... Time Related:.....	Item	
<u>X14 ADVANCED PAYMENT TO THE CONTRACTOR (D10)</u>			
Clause 21.0			
20	Fixed:..... Value Related:..... Time Related:.....	Item	
<u>X15 LIMITATION OF THE CONTRACTOR'S LIABILITY FOR HIS DESIGN TO REASONABLE SKILL AND CARE (D11)</u>			
Clause 22.0			
21	Fixed:..... Value Related:..... Time Related:.....	Item	
Carried Forward			R
Section No. 1 Bill No. 1 Preliminaries and General			

		Brought Forward		R	
		<u>X16 RETENTION (D12)</u>			
		Clause 23.0			
22	Fixed:..... Value Related:..... Time Related:.....		Item		
		<u>X17 LOW PERFORMANCE DAMAGES (D13)</u>			
		Clause 24.0			
23	Fixed:..... Value Related:..... Time Related:.....		Item		
		<u>X18 LIMITATION OF LIABILITY (D14)</u>			
		Clause 25.0			
24	Fixed:..... Value Related:..... Time Related:.....		Item		
		<u>X20 KEY PERFORMANCE INDICATORS (D15)</u>			
		Clause 26.0			
25	Fixed:..... Value Related:..... Time Related:.....		Item		
		<u>SECTION E : CONTRACT DATA</u>			
		<u>CONTRACT DATA (E1)</u>			
		Tenderers are referred to Part C1.2 Contract Data for variables pertaining to this contract.			
26	Fixed:..... Value Related:..... Time Related:.....		Item		
		<u>Z ADDITIONAL CONDITIONS OF CONTRACT (D16)</u>			
		Clause 27.0			
27	Fixed:..... Value Related:..... Time Related:.....		Item		
		Carried Forward		R	
		Section No. 1			
		Bill No. 1			
		Preliminaries and General			

	Brought Forward		R
	<u>Z1.1 PHASING OF THE PROJECT</u>		
	Allow for the phasing of the project during construction		
28	Fixed:..... Value Related:..... Time Related:.....	Item	
	<u>Z1.2 NEW OCCUPATIONAL HEALTH AND SAFETY REGULATIONS</u>		
	Allow costs for complying with the Occupational Health and Safety Act (No. 85 of 1993) as ammended by the Occupational Health and Safety Amendment Act (No 181 of 1993) and the Construction regulations of 2014, paying attention in particular to medicals, induction and protective equipment with a special focus on asbestos removal as part of the project.		
29	Fixed:..... Value Related:..... Time Related:.....	Item	
	<u>Z1.4 PROVISION OF WATER</u>		
	Contractor to allow for provision of water for the works		
30	Fixed:..... Value Related:..... Time Related:.....	Item	
	<u>Z1.5 PROVISION OF ELECTRICAL POWER</u>		
	Contractor to allow for provision of electrical power for the works		
31	Fixed:..... Value Related:..... Time Related:.....	Item	
	<u>Z1.6 PROVISION OF ABLUTION FACILITIES</u>		
	Contractor to allow for provision of ablution facilities for the works		
32	Fixed:..... Value Related:..... Time Related:.....	Item	
	Carried to Final Summary		R
	Section No. 1		
	Bill No. 1		
	Preliminaries and General		

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>BILL NO.1</u></p> <p><u>ALTERATIONS (PROVISIONAL)</u></p> <p><u>WORK GROUP ALLOCATION</u></p> <p>Unless otherwise stated, all items in this Bill will be allocated to Work Group 102 - Alterations</p> <p><u>PREAMBLES</u></p> <p>The General Preambles for Trades (2017 edition), 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 General Preambles, will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>View site:</u></p> <p>Before submitting his tender, the Contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished.</p> <p>No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p><u>Old materials to be carted away:</u></p> <p>Old materials from the alterations, except where described as to be re-used or handed over, as well as all rubbish, etc must be regularly carted from the site and not be allowed to accumulate on or around the site</p>			
<p>Carried Forward</p> <p>Section No. 2 Bill No. 1 Alterations (Provisional)</p>			<p>R</p>

<p style="text-align: right;">Brought Forward</p> <p><u>Old materials to be re-used:</u></p> <p>None of the old materials are to be used for new work, except where specifically described as being set aside for re-use</p> <p><u>Handing over of materials to Prasa:</u></p> <p>Where certain materials or articles from demolitions or alterations are described as to be "handed over to the Prasa", it shall be taken to mean "handed over by the Contractor to the Principal Agent" and such materials or articles shall be properly stored by the Contractor until handing over thereof and shall include all necessary transport</p> <p>The Contractor must obtain an official receipt from the Principal Agent listing the materials or articles and dates of handing over</p> <p>Should the Contractor fail to submit the receipt when requested to do so, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Employer for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor</p> <p><u>Explosives:</u></p> <p>No explosives whatsoever may be used for demolition purposes, unless otherwise stated</p> <p><u>GENERAL</u></p> <p><u>The contractor shall carry out the whole of the work with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide and erect any temporary tarpaulins and temporary plumbing that may be necessary during the progress of the works, all to the satisfaction of the Architect, and remove when directed.</u></p> <p><u>The contractor will be required to take all dimensions affecting existing building on the site and he will be held solely responsible for the accuracy of all such dimensions.</u></p>	<p style="text-align: center;">R</p>
<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 Bill No. 1 Alterations (Provisional)</p>	<p style="text-align: center;">R</p>

Brought Forward			R
<p><u>Taking down and removing Asbestos roof coverings, including all sundry items (all in compliance with Health and Safety requirements priced in the preliminaries section) Note: The contractor shall keep the area of the works, where the roof has been removed, weatherproof by means of tarpaulins, etc. for the entire period that the area is without a permanent weatherproof roof covering. The cost of all repairs consequential upon the contractor failing to comply with the requirements will be for the contractor's sole account.</u></p>			
1	Asbestos roof covering, complete	m2	11,754
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 1			
Alterations (Provisional)			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 2</u>			
	<u>EARTHWORKS (PROVISIONAL)</u>			
	<u>WORK GROUP ALLOCATION</u>			
	Unless otherwise stated, all items in this Bill will be allocated to Work Group 104 - Earthworks			
	<u>PREAMBLES</u>			
	The General Preambles for Trades (2017 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be included in these bills of quantities and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained			
	The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Nature of ground</u>			
	The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock".			
	The nature of the ground is assumed to be gravel, therefore "earth", but possibly interspersed with "soft rock".			
	The nature of the ground is assumed to be silty clay with loose river boulders varying in size up to approximately 450mm diameter, therefore "earth", but possibly interspersed with "hard rock".			
	Carried Forward		R	
	Section No. 2 Bill No. 2 Earthworks (Provisional)			

<p style="text-align: center;">Brought Forward</p> <p>Trial holes indicate that the nature of the ground is silty clay to a depth of approximately 500mm with fine to medium loose sandy material below, therefore "earth". The trial holes also indicate that the water table is at a maximum depth of approximately 1000mm.</p> <p>A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured</p> <p><u>Subterranean water:</u></p> <p>No subterranean water is expected</p> <p>Should the Contractor however, encounter any subterranean water on the site, he shall immediately notify the Principal Agent thereof and submit recommendations for keeping the works free from subterranean water together with all costs involved therewith</p> <p><u>Excavation for working space in rock:</u></p> <p>Notwithstanding clause 10 measurement rule 27 of the Standard System of Measuring Building Work, excavation for working space in material of a more different character (e.g. soft or hard rock) will be measured in cubic metres to the extent executed and given as "extra over" bulk excavation or trench and hole excavation as the case may be</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p>	<p style="text-align: center;">R</p>
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 Bill No. 2 Earthworks (Provisional)</p>	<p style="text-align: center;">R</p>

Brought Forward			R	
<u>Filling</u>				
Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material				
<u>Testing:</u>				
<i>Prices for backfilling to trenches and holes only are to include for all necessary density tests in accordance with SANS 1200D</i>				
<u>EXCAVATIONS, FILLING, ETC</u>				
<u>EXCAVATIONS, ETC</u>				
<u>Excavation in earth not exceeding 2m deep:</u>				
1	Reduced levels under floors	m3	27	
<u>Extra over trench and hole excavations in earth for excavation in:</u>				
2	Soft rock	m3	1	
3	Hard rock	m3	0.3	
<u>Extra over all excavations for carting away:</u>				
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	27	
<u>Risk of collapse of excavations:</u>				
5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	12	
<u>Keeping excavations free of water:</u>				
6	Keeping excavations free of all water other than subterranean water		Item	
<u>FILLING ETC</u>				
Carried Forward			R	
Section No. 2 Bill No. 2 Earthworks (Provisional)				

**PASSENGER RAIL AGENCY OF SOUTH AFRICA
PV SOLAR PLANT
SALT RIVER STATION**

Brought Forward			R
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density:</u>			
7	Backfilling to trenches, holes, etc.	m3	3
<u>G5 filling material supplied by the contractor, compacted to 93% Mod AASHTO density:</u>			
8	Under floors, steps, pavings, etc.	m3	27
9	Backfilling to trenches, holes, etc.	m3	27
10	Under floors, steps, pavings, etc.	m3	27
<u>Compaction of surfaces:</u>			
11	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 91% Mod AASHTO density	m2	89
<u>Prescribed density tests on filling:</u>			
12	"Modified AASHTO Density" test	No	25
<u>SOIL POISONING</u>			
<u>Soil insecticide in accordance with SANS 5859:</u>			
13	Soil insecticide (protection against termites) applied as specified under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc. filling in furrows and ramming	m2	89
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 2			
Earthworks (Provisional)			

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 3</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>WORK GROUP ALLOCATION</u>			
The items in this Bill will be allocated to Work Groups as indicated in brackets at the end of headings or descriptions			
<u>PREAMBLES</u>			
The General Preambles for Trades (2017 edition) 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 General Preambles will be entertained			
The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Cost of tests:</u>			
<u>Breeze concrete:</u>			
Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (1:12); the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated			
Carried Forward		R	
Section No. 2 Bill No. 3 Concrete, Formwork and Reinforcement			

<p style="text-align: right;">Brought Forward</p> <p><u>Lightweight concrete:</u></p> <p>Lightweight concrete shall have a density of 600kg/m³ for the top 50mm and 400kg/m³ for the remaining thickness. The minimum thickness at outlets, channels, etc shall be 50mm</p> <p><u>Waterproof concrete:</u></p> <p>"Waterproof concrete" shall have the same properties as normal concrete, but the following shall be modified to make the the concrete more water-tight:</p> <ol style="list-style-type: none"> 1. a cement/water ratio of minimum 1.9 and maximum 2.1 2. minimum OPC content of 300kg/m³ 3. Polypropylene micro fibres added to concrete at rate of 182 million per m³ <p><u>Formwork:</u></p> <p>Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use</p> <p>The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself</p> <p>Formwork to soffits of solid slabs, etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described</p> <p>Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described</p> <p><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES (WORK GROUP 110)</u></p>	<p style="text-align: right;">R</p>
<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 Bill No. 3 Concrete, Formwork and Reinforcement</p>	<p style="text-align: right;">R</p>

Brought Forward			R
<u>30MPa/19mm concrete:</u>			
	Surface beds on waterproofing	m3	22
<u>TEST CUBES (WORK GROUP 110)</u>			
1	Making and testing sets of three 150 x 150 x 150mm concrete strength test cubes (Provisional)	Sets	3
<u>CONCRETE SUNDRIES (WORK GROUP 110)</u>			
<u>Finishing top surfaces of concrete smooth with a steel trowel:</u>			
2	Surface beds, slabs, etc.	m2	89
<u>REINFORCEMENT (PROVISIONAL) (WORK GROUP 114)</u>			
<u>Mild steel reinforcement to structural concrete work:</u>			
3	Mild steel bar reinforcement (8 to 40mm diameter bars)	t	0.30
<u>Fabric reinforcement:</u>			
4	Type 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	89
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 3			
Concrete, Formwork and Reinforcement			

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 4</u>			
<u>WATERPROOFING</u>			
<u>WORK GROUP ALLOCATION</u>			
Unless otherwise stated, all items in this Bill will be allocated to Work Group 120 - Waterproofing			
<u>PREAMBLES</u>			
The General Preambles for Trades (2017 edition) 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 General Preambles will be entertained			
The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Waterproofing:</u>			
Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets, etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs			
<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape:</u>			
1	Under surface beds	m2	89
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 4			
Waterproofing			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 5</u>			
	<u>ROOF COVERINGS</u>			
	<u>WORK GROUP ALLOCATION</u>			
	The items in this Bill will be allocated to Work Groups as indicated in brackets at the ends of headings or descriptions			
	<u>PREAMBLES</u>			
	The General Preambles for Trades (2017 edition) 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 General Preambles will be entertained			
	The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Profiled metal roof sheeting and accessories shall be supplied with a 10 year guarantee and be installed by an approved installer			
	All fixing holes shall be drilled and not punched			
	Roof covering accessories shall be manufactured from the same material as used for roof covering			
	<u>PROFILED METAL SHEETING AND ACCESSORIES (WORK GROUP 124)</u>			
	<u>0.58 Global Roofing Solutions Klip-Lok 700 Chromadek profiled roof sheeting or similar approved - Finish specification Chromadek finish topcoat and</u>			
1	Roof coverings with pitch not exceeding 25 degrees	m2	11,754	
	Carried Forward			R
	Section No. 2 Bill No. 5 Roof Coverings			

[illegible]

Item No	Quantity	Rate	Amount
<u>SECTION NO. 2</u>			
<u>BILL NO. 6</u>			
<u>PLASTERING</u>			
<u>WORK GROUP ALLOCATION</u>			
Unless otherwise stated, all items in this Bill will be allocated to Work Group 142 - In situ finishes			
<u>PREAMBLES</u>			
The General Preambles for Trades (2017 edition) 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 General Preambles will be entertained			
The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said General Preambles			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Moisture tests:</u>			
Before any finishes, coverings, etc are applied to screeds, plastering, etc or any other in-situ finish, moisture tests are to be carried out to the complete satisfaction of the Project Manager to ensure that these surfaces have the correct moisture content for the finish to be applied			
<u>Labours, etc</u>			
Labours such as fair, rounded and chamfered edges, trowel cuts, throats, V-joints, angles, etc shall be deemed to be included in the descriptions			
Carried Forward		R	
Section No. 2 Bill No. 6 Plastering			

<p style="text-align: right;">Brought Forward</p> <p><u>Sample Panels</u></p> <p>A sample panel size 1m x1m, of each of the various plaster type wall and floor finishes in this contract, shall be prepared for the approval of the Project Manager and the cost of the sample panel(s) shall be deemed to be included in the overall costs of the <u>relevant</u> wall and floor finishes</p> <p><u>GRANOLITHIC</u></p> <p><u>Method:</u></p> <p>The method to be used shall be either the monolithic method or the bonded method</p> <p><u>Preparation:</u></p> <p>For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic</p> <p><u>Mix:</u></p> <p>Unless otherwise described, granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic</p>		R	
<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 Bill No. 6 Plastering</p>		R	

<p style="text-align: right;">Brought Forward</p> <p><u>Panels:</u></p> <p>Granolithic shall be laid in panels not exceeding 14m² for monolithic finishes, not exceeding 9,5m² for bonded finishes and not exceeding 6m² for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width</p> <p>Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints</p> <p><u>Laying:</u></p> <p>Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels</p> <p>Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels</p> <p>After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated</p> <p><u>Curing, seasoning and protection:</u></p> <p>Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying</p> <p><u>Colour:</u></p> <p>Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour</p>		R	
<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 Bill No. 6 Plastering</p>		R	

Brought Forward			R
<u>TINTED WHITE CEMENT SCREEDS</u>			
Tinted screed shall be composed of one bag White Portland Cement and two wheelbarrows "Malmesbury" sand. Surfaces shall be finished with a steel trowel to leave a smooth finish and coated with two coats "Earthcote S.I. Floorcote" two-pack polyurethane floor sealer applied as per the manufacturer's recommendations			
NOTE: Tinted screeds are to be strengthened with "Primal Eccos" acrylic polymer (15% of the water volume is to be substituted with the acrylic polymer during the mixing process)			
Coarse sand is to be used for these screeds			
All tinting, finishing, strengthening, etc are to be mixed, applied, etc strictly in accordance with the manufacturer's instructions			
<u>SCREEDS</u>			
<u>3:1 Cement plaster screeds wood floated for "vinyl" or other flexible type flooring, including applying an approved self-levelling coating applied by an approved specialist, on concrete:</u>			
1	40mm Thick on floors and landings	m2	18
Carried Forward to Summary of Section No. 2			R
Section No. 2			
Bill No. 6			
Plastering			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 1</u>			
	<u>ELECTRICAL SUBSTATION</u>			
	<u>DISCONNECTION/ REMOVAL OF REDUNDANT ELECTRICAL EQUIPMENT</u>			
	<u>The following equipment shall be isolated, disconnected, removed and handed over to the Employer:</u>			
1	Decommissioning and stripping of existing electrical installations including cables, conductors, luminaries, control devices, DB's, etc in the existing building as indicated on the drawing and scope of works. this include MV and LV installations.		SUM	
	<u>LOW VOLTAGE</u>			
	<u>LV SWITCHGEAR</u>			
	<u>DBs and LV Switchgear</u>			
	<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>			
2	Kiosk 1	No	1	
	<u>CABLES</u>			
	<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>			
3	2,5mm conductors (mixed colours - live, neutral and earth)	m	1	Rate Only
	Carried Forward		R	
	Section No. 3 Bill No. 1 Electrical Installation			

**PASSENGER RAIL AGENCY OF SOUTH AFRICA
PV SOLAR PLANT
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	Brought Forward			R
4	4,0mm conductors (mixed colours - live, neutral and earth)	m	1	Rate Only
5	2.5 mm ² 2c 600/1000V PVC/SWA/PVC ECC Cu Cable	m	200	
6	2.5 mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	m	400	
7	4,0 mm ² 2c 600/1000V PVC/SWA/PVC ECC Cu Cable	m	400	
8	6,0 mm ² 2c 600/1000V PVC/SWA/PVC ECC Cu Cable	m	8,125	
9	10 mm ² 2c 600/1000V PVC/SWA/PVC Cu Cable	m	3,000	
10	10 mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	m	600	
11	16mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	m	2,500	
12	25mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	m	1	Rate Only
13	35mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	m	2,250	
14	50mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	m	1	
15	70mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	m	2,200	
16	95mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	m	500	
17	120mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	m	1,200	
18	185mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	m	1	Rate Only
<u>CABLE TERMINATIONS</u>				
<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>				
19	2.5 mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	No	20	
20	4,0 mm ² 4c 600/1000V PVC/SWA/PVC Cu Cable	No	20	
Carried Forward				R
Section No. 3 Bill No. 1 Electrical Installation				

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	Brought Forward			R	
21	6,0 mm ² 2c 600/1000V PVC/SWA/PVC ECC Cu Cable	No	3,666		
22	10 mm ² 2c 600/1000V PVC/SWA/PVC Cu Cable	No	40		
23	10 mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	No	80		
24	16mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	No	66		
25	25mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	No	66		
26	35mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	No	30		
27	50mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	No	22		
28	70mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	No	56		
29	95mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	No	350		
30	120mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	No	48		
31	185mm ² 4c 600/1000V PVC/SWA/PVC ECC Cu Cable	No	1		Rate Only
<u>CABLE TRAY, LADDER, TRUNKING, POWER SKIRTING, CONDUIT AND ACCESSORIES</u>					
<u>Supply, deliver to site unpainted hot dipped galvanised steel cable tray, cable ladder as specified heavy duty range, inclusive of all items required to install in accordance with manufacturers specification. Power skirting and shall be PVC as per line item below. Rate to include all necessary required accessories for a complete installation.</u>					
<u>Supply, deliver and Install hot dip galvanised heavy duty all items such as brackets, rawl bolts, splices, bonding straps etc. required to install in accordance with manufacturers specification. NB: all additional HDG steel supports to be included in the rates.</u>					
32	300mm wide tray - Cable ladder complete with all required accessories.	No	200		
33	Cable ladder bends, 4-way (x8), 90 degree bends (x10), tee ways (x10) and accessories			SUM	
Carried Forward				R	
Section No. 3 Bill No. 1 Electrical Installation					

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				R	
	Brought Forward				
34	300mm wide heavy duty tray - Cable tray complete with all required accessories.	m	100		
35	Cable tray Heavy duty 4-ways complete with accessories	No	12		
36	Cable tray bends Heavy duty - 90 degree bends complete with accessories	No	10		
	<u>SUNDRIES</u>				
37	Signs, Labels & Equipment Tags Supply and install all power, lighting, motors and earthing signs, labels and equipment tags as specified and in accordance with all Statutory requirements.			SUM	
38	EARTH BAR - A 500 mm x 20mm x4mm copper earth bar with 10no. 6 mm diameter holes pre-drilled, surface fixed on insulators	No	12		
39	70mm ² PVC Green insuare Copper single core	m	1,200		
40	Supply, deliver, installation and terminate conductors of Copper earth spike 1,2m, install in ground for earthing purpose. Rate to include termination of conductors.	No	80		
	<u>EXCAVATIONS</u>				
	<u>Trenching shall be calculated using the formula below: (700mm deep * 0.5m wide * length)</u>				
41	Excavate in concrete/tar and hard soil, backfilling and compaction to 93% MOD AASHTO and re-instate tar / concrete	m3	175		
	<u>CABLE SLEEVES</u>				
	<u>Supply, deliver and install the following UPVC flexible black & green ring sleeves. All material to be SABS approved as suitable for cable installation. Must have 1,5mm draw wire.</u>				
42	160 mm UPVC Flexible sleeves	m	500		
43	110 mm UPVC Flexible sleeves	m	500		
44	75 mm UPVC Flexible sleeves (green sleeves)	m	1		Rate Only
	Carried Forward			R	
	Section No. 3 Bill No. 1 Electrical Installation				

PASSENGER RAIL AGENCY OF SOUTH AFRICA
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	Brought Forward			R	
45	Construction of manholes complete with cover as per drawing	No	10		
	<u>PHOTOVOLTAIC SOLAR SYSTEM</u>				
	<u>Supply, deliver, accept and install the following solar system equipment, complete with control gear supporting structure. Refer to the specification document for details.</u>				
46	Photovoltaic Modules / solar panels - 650W as per specification	No	1,848		
47	PV Solar System 500kW Transformer complete with all necessary accessories for a complete operation. Rates to include all pre-test required.	No	2		
48	DC Combiner box complete with all required accessories for complete installation and operation	No	48		
49	Solar Inverters - 100kW complete with all required accessories for complete installation and operation	No	11		
50	Inverter- Charger 500kW complete with all required accessories for complete installation and operation	No	2		
51	Bypass panels complete with all necessary required accessories	No	2		
52	Lithium-Ion Battery bank energy storage 4-hours backup for a 1MW PV Plant on container as per specification. TFM 1. Refer to specifications for details.	No	1		
53	Energy management system / controls including on-line monitoring platform.			SUM	
54	Digital kW meters with comm cables and CTs			SUM	
55	Other - any other material and installation required and not listed above for photovoltaic solar system for a full and operational system as discussed on the scope and specification document. Breakdown to be submitted with the tender.			SUM	
	Carried Forward			R	
	Section No. 3				
	Bill No. 1				
	Electrical Installation				

**PASSENGER RAIL AGENCY OF SOUTH AFRICA
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	Brought Forward			R	
56	Specialist Services - Contractor to investigate the existing roof structure, issue a detailed report indicating the structure integrity. Refer to scope and specification document for other details.	No	1		
57	Rate to include producing of design reports, design calculations, detailed design and construction drawings. Rate to include 3 meeting with clients for get approval. Rate is for all required engineering disciplines.			SUM	
58	Site assessment and condition assesement report. Report to include load recording results			SUM	
59	Training of PRASA team members on operation and maintenance of the solar system and other electrical installations under this contract.			SUM	
60	The close out pack including all operational and maintenance manuals, As Built drawings, monitoring and sign off. Provide support during the defects notification period including sign off of the defects certificate, issuing the performance certificate, including the sign off.			SUM	
61	Service and Maintenance for 36 months of the entire PV Solar system and electrical infrastructure. Rates shall include all necessary costs such as travelling, labour, tools, etc as indicated on the works information document.			SUM	
62	Liaising with supply authority and Municipal authority approval for grid tie with the solar system			SUM	
63	Provisional sum of Five Hundred Thousand rand only (R500 000) for Specialist services. Amount shall be paid upon receiving quotations and or invoice			SUM	
	<u>TEST AND COMMISSIONING</u>				
	<u>Test and commission the complete electrical installation including completion of quality checksheets, Compliance Certificates & test results for the entire electrical installation and submitting them to the Employer's Representative.</u>				
64	Hot and Cold Commissioning			SUM	
	Carried Forward			R	
	Section No. 3 Bill No. 1 Electrical Installation				

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 2</u>			
	<u>GENERATOR SET</u>			
	<u>Manufacture, deliver to site, install, test and commission of a generator set 400 volts at 50Hz as per specification and single line diagram. The generator shall be open type and installed in the generator room. Rates to include for steelwork and powder coated, busbars and drilling, busbar connections internal wiring, earthing for the generator set, etc. Refer to attached single line diagram.</u>			
1	800kVA, 400V Diesel Engine Alternator Set - Containerised generator set, 3CR12 housing, including base.	No	1	
2	Duvalco Water Trap/Fuel Filter cartridge	No	1	
3	Main DB with Main breaker and New AMF panel as per single line diagram drawing	No	1	
4	New Fuel Tank of 1000litre to supply generator with valves and instruments elevated stand	No	1	
	<u>Electrical reticulation</u>			
5	Interconnecting control & power cabling between genset and alternator and AMF panel	No	1	
6	Support & protection of exposed cabling between genset & AMF panel	No	1	
7	Electronic hooter & red flashing general alarm light mounted on the AMF panel.	No	1	
8	Remote alarm indicator panel complete the red indicator lamp and label - GENERATOR FAULT	No	1	
9	External emergency stop push button and cabling	No	1	
10	Earthing of the generator set	No	1	
	Carried Forward			
	Section No. 3 Bill No. 2 Generator Set		R	

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Brought Forward			R
<u>Test and Commissioning</u>			
11	Test & commission on site with load	No 1	
12	Resistance testing of earth system	No 1	
13	Balancing of the essential loads	No 1	
14	Electrical Certification of Compliance	No 1	
<u>Signage</u>			
15	As per OHS Act - fire & resussitation etc.	No 1	
16	Generator "Manual Start/Test Procedure"	No 1	
17	Caution - This generator will start automatically. Isolate power before working on plant	No 1	
18	Electricity logo on door to AMF panel	No 1	
19	PRASA'S ID label of genset & control panel	No 1	
20	Contractors / Municipality's details - laminated plastic	No 1	
<u>General</u>			
21	Diesel fuel for full tank 2000liters	No 1	
22	Automated pump from the diesel tank to the generator to fill up generator tank when required. Rate to included all necessary accessories required for a full operational pump.	No 1	
23	Laminated plastic framed schematic wiring diagram fixed to the inside of the enclosure adjacent the AMF panel	No 1	
24	Operational training of Employer's staff	No 1	
25	Manuals - 3 sets	No 1	
26	Drawings	No 1	
Carried Forward			R
Section No. 3 Bill No. 2 Generator Set			

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Brought Forward			R
<u>Service</u>			
27	Inspection every quarter + new fuel filters for 1st year - Generator 1	No 4	
28	Full annual service + new battery for 1st year - Generator 1	No 1	
29	Service, maintenance and Inspection every quarter + new fuel filters for 3 years (4x maintenance per year). Rate to include all required materials for service and maintenance during this period - Generator 1	No 12	
30	Service of existing 800kVA, 400VAC backup generator set	No 1	
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Bill No. 2			
Generator Set			

SECTION SUMMARY - Electrical Installations		Page No	Amount	
Bill No				
1	Electrical Installation	33		
2	Generator Set	36		
Section No. 3			R	
Carried to Final Summary				

Item No	Quantity	Rate	Amount
<u>SECTION NO. 4</u>			
<u>BILL NO. 1</u>			
<u>PROVISIONAL AMOUNTS</u>			
<u>PREAMBLES</u>			
<p>The General Preambles for Trades (2017 edition) 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 General Preambles will be entertained</p> <p>The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said Model Preambles</p>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>General:</u>			
Subcontract amounts are net.			
Subcontract amounts are for material and equipment supplied and installed complete by firms of specialists			
Each subcontract amount may comprise more than one element of work. Therefore, each subcontract amount may include for work to be carried out by more than one subcontractor			
<u>Profit:</u>			
Where stated, the contractor may allow for profit if required			
Carried Forward			R
Section No. 4 Bill No. 1 Provisional Amounts			

<p style="text-align: right;">Brought Forward</p> <p><u>General attendance on nominated/selected subcontractors:</u></p> <p>The item "General Attendance" which follows each subcontract amount for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:</p> <ol style="list-style-type: none"> 1. Access to the site and places where the subcontract work is to be carried out, including the reasonable use of any temporary personnel hoists erected by the contractor 2. The provision of water and lighting and of single phase electric power to a position within 50 metres of the place where the subcontract work is to be carried out but excluding water, fuel and power for commissioning of any installation 3. The provision of an area for the subcontractor to establish temporary office accommodation and workshops and for the storage of plant and materials 4. The use of erected scaffolding belonging to the contractor, in common with others having the like right, while it remains erected on the site 5. The use, at reasonable times by arrangement of the contractor's erected hoisting equipment 6. Making good in all trades and cleaning down and removal of rubbish on completion <p><u>Special attendance on nominated/selected subcontractors:</u></p> <p>Where stated, special attendance as set out in clause 8.1 of section B of the Preliminaries will be described in detail in this bill</p> <p><u>Builder's work:</u></p> <p>Builder's work in connection with specialist services is given elsewhere in these bills of quantities</p>		R	
<p style="text-align: right;">Carried Forward</p> <p>Section No. 4 Bill No. 1 Provisional Amounts</p>		R	

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Brought Forward			R
<u>SHIPPING CONTAINER</u>			
1	Sub-contract amount of One Hundred and Fifty Thousand Rand for the construction of boreholes complete	Item	150,000.00
2	Profit (.....%)	%	
3	General attendance (.....%)	%	
<u>MOCK-UPS AND SAMPLES</u>			
4	Budgetary Allowance of Fifty Thousand Rand for mock-ups and samples	Item	50,000.00
5	Profit (.....%)	%	
6	General attendance (.....%)	%	
<u>COMMUNITY LIAISON OFFICER</u>			
7	Subcontract amount of one One Hundred and Twenty Thousand Rand for Community Liaison Officer	Item	120,000.00
8	Profit (.....%)	%	
9	General attendance (.....%)	%	
<u>TRAINING PERSONNEL</u>			
10	Subcontract amount of one Two Hundred Thousand Rand for Training Personnel	Item	200,000.00
11	Profit (.....%)	%	
12	General attendance (.....%)	%	
Carried Forward to Summary of Section No. 4			
Section No. 4			R
Bill No. 1			
Provisional Amounts			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 4</u>			
	<u>BILL NO. 2</u>			
	<u>BUDGETARY ALLOWANCES</u>			
	<u>PREAMBLES</u>			
	<u>General:</u>			
	A Budgetary Allowance is a sum of money included in the contract sum for work intended for execution by the Contractor, the extent of which is identified but not detailed			
	Work for which budgetary allowances are provided will be measured and valued in accordance with clause 32 of the Principal Building Agreement and deducted in whole or in part if not required without any compensation for loss or profit on the said allowances			
	Each Budgetary Allowance may comprise more than one element of work			
	<u>PAINTWORK TO STRUCTURAL STEELWORK</u>			
1	Budgetary Allowance of Eight Hundred and Fifty Thousand Rand for the paintwork for structural steelwork	Item		850,000.00
	<u>REPAIRS TO STRUCTURAL STEELWORK</u>			
2	Budgetary Allowance of One Million Five Hundred Thousand Rand for the repairs for structural steelwork	Item		1,500,000.00
	<u>SOLAR PANEL STRUCTURAL SUPPORT</u>			
3	Budgetary Allowance of Four Million Rand for the solar panels structural support	Item		4,000,000.00
	Carried Forward to Summary of Section No. 4		R	
	Section No. 4			
	Bill No. 2			
	Budgetary Allowances			

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Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	Preliminaries and General	8	
2	Building Works	26	
3	Electrical Installations	37	
4	Provisional Sums	42	
			R
			R
			R
			R
			R

Carried to Form of Tender