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AIRPORTS COMPANY SOUTH AFRICA SOC LIMITED CONTRACT NUMBER _____

ASSESSMENT, VERIFICATION AND CERTIFICATION OF LOW VOLTAGE (LV) ELECTRICAL INSTALLATIONS AT CAPE TOWN INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

AIRPORTS COMPANY SOUTH AFRICA (SOC)

SCM REFERENCE NR: RFQ 74178

APPOINTMENT OF AN ELECTRICAL CONTRACTOR FOR THE ASSESSMENT, VERIFICATION AND CERTIFICATION OF LOW VOLTAGE (LV) ELECTRICAL INSTALLATIONS AT CAPE TOWN INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

NEC 3: TERM SERVICE CONTRACT (TSC)

Between AIRPORTS COMPANY SOUTH AFRICA SOC LIMITED

Applicable at Cape Town International Airport

(Registration Number: 1993/004149/30)

and

(Registration Number : _____)

For the **Assessment, Verification and Certification of Low Voltage (LV) Electrical Installations at Cape Town International Airport for a Period of 24 Months**

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VOLUME 2

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NAME OF BIDDER:

PART C1: AGREEMENT AND CONTRACT DATA

C1.1 Form of Offer and Acceptance

OFFER

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a contract for the procurement for the **Assessment, Verification and Certification of Low Voltage (LV) Electrical Installations at Cape Town International Airport for a Period of 24 Months**

The tenderer, identified in the Offer signature block, has examined the documents listed in the Tender Data and addenda thereto as listed in the Returnable Schedules, and by submitting this Offer has accepted the Conditions of Tender.

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By the representative of the contractor, deemed to be duly authorised, signing this part of this Form of Offer and Acceptance the contractor offers to perform all of the obligations and incur liabilities of the NEC TSC under the contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the *conditions of contract* identified in the Contract Data.

THE OFFERED TOTAL OF THE PRICES INCLUSIVE OF VAT IS:

The offered total of the Prices exclusive of VAT is	R
Value Added Tax @ 15% is	R
The offered total of the Prices inclusive of VAT is	R
In words	

for the Contractor

Signature Date
Name Capacity

(Name and address of organisation)

Name and signature of witness

This offer may be accepted by the employer by signing the acceptance part of this form of offer and acceptance and returning one copy of this document to the tenderer before the end of the period of validity stated in the tender data, whereupon the tenderer becomes the party named as the contractor in the conditions of contract identified in the contract data.

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Acceptance

By signing this part of this Form of Offer and Acceptance, the Employer identified below accepts the tenderer's Offer. In consideration thereof, the Employer shall pay the Contractor the amount due in accordance with the *conditions of contract* identified in the Contract Data or the Pricing Data. Acceptance of the contractor's Offer shall form an agreement between the Employer and the tenderer upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

The terms of the contract, are contained in:

- Part C1 Agreements and Contract Data, (which includes this Form of Offer and Acceptance)
- Part C2 Pricing Data
- Part C3 Service Information
- Part C4 Site Information

and drawings and documents (or parts thereof), which may be incorporated by reference into the above listed Parts.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Returnable Schedules as well as any changes to the terms of the Offer agreed by the tenderer and the Employer during this process of offer and acceptance, are contained in the Schedule of Deviations attached to and forming part of this Form of Offer and Acceptance. No amendments to or deviations from said documents are valid unless contained in this Schedule.

The contractor shall within two weeks of receiving a completed copy of this agreement, including the Schedule of Deviations (if any), contact the Employer's agent (whose details are given in the Contract Data) to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the *conditions of contract* identified in the Contract Data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Unless the tenderer (now Contractor) within five working days of the date of such receipt notifies the Employer in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the Parties.

for the Employer

Signature Date

Name Capacity

**Administrator Office, Southern Office Block
Private Bag X9002
Cape Town International, Western Cape
South Africa, 7525**

Name and
signature
of witness Date

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Signature(s)

Name(s) _____

Capacity _____

For the employer:

(Insert name and address of organisation)
Name & signature of witness Date

Signature(s)

Name(s) _____

Capacity _____

For the tenderer:

(Insert name and address of organisation)
Name & signature of witness Date

C1.3 TSC3 Contract Data

Part one - Data provided by the *Employer*

Clause	Statement	Data
1	General	
	The <i>conditions of contract</i> are the core clauses and the clauses for main Option:	
	dispute resolution Option and secondary Options	B: Priced contract with price list W1: Dispute resolution procedure
		X1: Price adjustment for inflation X2: Changes in the law X18: Limitation of liability Z: Additional conditions of contract
	of the NEC3 Term Service Contract (April 2013) ¹	
10.1	The <i>Employer</i> is (name):	Airports Company South Africa SOC Limited a juristic person incorporated in terms of the company laws of the Republic of South Africa
	Address	Administrator Office, Southern Office Block, Western Cape, South Africa, 7525. Private Bag X9002, Cape Town International, Western Cape, South Africa, 7525.
	Tel No.	021 937 1200
	Fax No.	N/A
10.1	The <i>Service Manager</i> is (name):	Nkosinathi Khumalo
	Address	Private Bag X9002, Cape Town International, Western Cape, South Africa, 7525.
	Tel	021 935 3929

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Fax **N/A**
e-mail

11.2(2)	The Affected Property is	Cape Town International Airport (All Building Owned by ACSA)
11.2(13)	The service is	Assessment, Verification and Certification of Low Voltage (LV) Electrical Installations at Cape Town International Airport for a Period of 24 Months
11.2(14)	The following matters will be included in the Risk Register	Working on Airside: High noise levels Working on height Mobile Elevated lift equipment
11.2(15)	The Service Information is in	Part C3: Employer's Service Information and all documents and drawings and other specifications to which it makes reference
12.2	The <i>law of the contract</i> is the law of	the Republic of South Africa
13.1	The <i>language of this contract</i> is	English
13.3	The <i>period for reply</i> is	2 weeks

2 The Contractor's main responsibilities

Detailed in Part C3 (Service Information)

21.1	The <i>Contractor</i> submits a first plan for acceptance within	4 weeks of the Contract Date
------	--	-------------------------------------

3 Time

30.1	The <i>starting date</i> is	Upon contract signing by ACSA
30.1	The <i>service period</i> is	24 months from the starting date

4 Testing and defects

No data is required for this section of the conditions of contract

5 Payment

50.1	The <i>assessment interval</i> is	Four (4) weeks (not more than five)
51.1	The <i>currency of this contract</i> is the	South African Rand (ZAR)
51.2	The period within which payments are made is	30 days

6 Compensation events

No data is required for this section of the condition of contract

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7	Use of Equipment Plant and Materials	No data is required for this section of the conditions of the contract
8	Risks and insurance	See attached annexure C.
9	Termination	No data required for this section of the conditions of the contract
10	Data for main Option clause	
A	Priced contract with price list	
11	Data for Option W1	
W1.1	The <i>Adjudicator</i> is: (refer to clause Z19.1 for the list of adjudicators)	

W1.2(3)	The <i>Adjudicator nominating body</i> is:	The current Chairman of Johannesburg Advocate's Bar Council.
W1.4(2)	The <i>tribunal</i> is:	Arbitration
W1.4(5)	The <i>arbitration procedure</i> is	the latest edition of Rules for the Conduct of Arbitrations published by The Association of Arbitrators (Southern Africa) or its successor body
	The place where arbitration is to be held is	Johannesburg, South Africa
	The person or organisation who will choose an arbitrator:	Chairman of the Johannesburg Advocate's Bar Council.

12 Data for secondary Option clauses

X1	Price adjustment for inflation	
X1.1	The <i>base date</i> for indices is	It will be limited to a maximum of CPI as at the anniversary date of the contract
X2	Changes in the law	
		There is no reference to Contract Data in this Option and terms in italics are identified elsewhere in this Contract Data.
X18	Limitation of liability	
X18.1	The <i>Contractor's</i> liability to the <i>Employer</i> for indirect or consequential loss is limited to	Nil - Neither Party is liable to the other for any consequential or indirect loss, including but not limited to loss of profit, loss of income or loss of revenue
X18.2	For any one event, the <i>Contractor's</i> liability to the <i>Employer</i> for loss of or damage to the <i>Employer's</i> property is limited to	Total of the losses incurred and/or repairs to the damages caused.
X18.3	The <i>Contractor's</i> liability for Defects due to his design of an item of Equipment is limited to	Total of the losses incurred and/or repairs to the damages caused
X18.4	The <i>Contractor's</i> total liability to the <i>Employer</i> , for all matters arising under or in connection with this contract, other than the excluded matters, is limited to	The excluded matters are amounts payable by the Contractor as stated in this contract for: <ul style="list-style-type: none"> • Loss of or damage to the Employer's property, • Defects liability, • Insurance liability to the extent of the Contractor's risks • death of or injury to a person; • infringement of an intellectual property right
Z	The <i>additional conditions of contract</i> are	

AMENDMENTS TO THE CORE CLAUSES

Z1 Interpretation of the law

Z1.1 Add to core clause 12.3: Any extension, concession, waiver, non-enforcement of any terms of the contract or relaxation of any action stated in this contract by the Parties, the *Service Manager*, the, or the *Adjudicator* does not constitute a waiver of rights, and does not give rise to an estoppel unless the Parties agree otherwise and confirm such agreement in writing.

Z2 Providing the Service: Delete core clause 20.1 and replace with the following:

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Z2.1 The *Contractor* provides the *service* in accordance with the *Service Information* and warrants that the results of the *service*, when complete, shall be fit for their intended purpose.

Z3. **Other responsibilities: add the following at the end of core clause 27:**

Z3.1 The *Contractor* shall have satisfied himself, prior to the *starting date*, as to the completeness, sufficiency and accuracy of all information and drawings provided to him as at the *starting date* .

Z3.2 The *Contractor* shall be responsible for the correct setting out or carrying out of the *service* in accordance with the original points, lines and levels stated in the *Service Information* or notified by the *Service Manager* . Any errors in the setting or carrying out of the *service* shall be rectified by the *Contractor* at the *Contractor's* own costs.

Z4. **Termination**

Z4.1 **Add the following to core clause 91.1, at the second main bullet, fourth sub-bullet point, after the words "assets or":** "business rescue proceedings are initiated or steps are taken to initiate business rescue proceedings".

Z5. **Ambiguities and inconsistencies: Delete core clause 17 and replace with the following:**

Z5.1 If there is any ambiguity or inconsistency in or between the documents which are part of this contract, the priority of the documents is in accordance with the following sequence:

- The additional conditions of contract under these Z clauses
- The conditions of contract and
- The other documents.

Z5.2 The *Service Manager* or the *Contractor* notifies the other as soon as either becomes aware of any such ambiguity or inconsistency in or between the documents which are part of this contract. The *Service Manager* gives an instruction resolving the ambiguity or inconsistency. Notwithstanding any other provision of this contract, any such ambiguity, inconsistency and/or instruction does not automatically result in any increase to the *Price List* or any delay to the end of the *service period*.

Z6. **Payment: Add the following at the end of core clause 51:**

51.5 The *Employer* does not pay interest to the *Contractor* on a late payment resulting from the *Contractor's* failure to provide the *Employer* with a correctly rendered *VAT invoice* within the period stated in clause 51.1 above.

51.5 The *Employer* is entitled to deduct from or set off against any money due to the *Contractor*

- any sum due to the *Employer* from the *Contractor* or
- any amount for which the *Contractor* is liable to pay to the *Employer* (whether liquidated or otherwise) arising under this contract.

AMENDMENTS TO THE SECONDARY OPTION CLAUSES

Z7. **Changes in Law: Add the following clause to secondary option X2 as X2.2:**

Z7.1 A change in law is defined as:

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- Z7.1.1** the adoption, enactment, promulgation, coming into effect, repeal, amendment, reinterpretation, change in application or other modification after the starting date of any law, excluding (i) the promulgation of any bill, unless such bill is enacted into the *law of the country*, and (ii) any such modification in law relating to any taxes, charges, imposts, duties, levies or deductions that are assessed in relation to a person's income;
- Z7.1.2** any permit being terminated, withdrawn, amended, modified or replaced, other than (i) in accordance with the terms upon which it was originally granted, (ii) as a result of the failure by the *Contractor* to comply with any condition set out therein, or (iii) as a result of any act or omission of the *Contractor*, any Subcontractor or any affiliate to the *Contractor*.
- Z8. Performance Bond: The following amendments are made to clause X13:**
- Z8.1. Add the following new clause as Option X13.2:** The *Contractor ensures* that the performance bond is valid and enforceable until the end of the *service period*. If the terms of the performance bond specify its expiry date and the end of the *service period* does not coincide with such expiry date, four weeks prior to the said expiry date, the *Contractor* extends the validity of the performance bond until the end of the *service period*. If the *Contractor* fails to so extend the validity of the performance bond, the *Employer* may claim the full amount of the performance bond and retain the proceeds as cash security
- Z9. Limitation of liability: Insert the following new clause as Option X18.6:**
- Z8.1** The *Employer's* liability to the *Contractor* for the *Contractor's* indirect or consequential loss or damage of any kind is limited to R0.00.
- Z8.2** Notwithstanding any other clause in this contract, any proceeds received from any insurances or any proceeds which would have been received from any insurances but for the conduct of the *Contractor* shall be excluded from the calculation of the limitations of liability listed in the contract.

ADDITIONAL Z CLAUSES

- Z10. Cession, delegation and assignment**
- Z10.1.** The *Contractor* shall not cede, delegate or assign any of its rights or obligations to any person without the written consent of the *Employer*, which consent shall not be unreasonably withheld. This clause shall be binding on the liquidator/business rescue practitioner /trustee (whether provisional or final) of the *Contractor*.
- Z10.2.** The *Employer* may, on written notice to the *Contractor*, cede and delegate its rights and obligations under this contract to any person or entity.
- Z11. Joint and several liability**
- Z11.1.** If the *Contractor* constitutes a joint venture, consortium or other unincorporated grouping of two or more persons, these persons are deemed to be jointly and severally liable to the *Employer* for the performance of this Contract.
- Z11.2.** The *Contractor* shall, within 1 week of the starting date, notify the *Service Manager* and the *Employer* of the key person who has the authority to bind the *Contractor* on its behalf.
- Z11.3.** The *Contractor* does not materially alter the composition of the joint venture, consortium or other unincorporated grouping of two or more persons without prior written consent of the *Employer*.
- Z12. Ethics**
- Z12.1.** The *Contractor* undertakes:
- Z12.1.1.** not to give any offer, payment, consideration, or benefit of any kind, which constitutes or could be construed as an illegal or corrupt practice, either directly or indirectly, as an inducement or reward for the award or in execution of this contract;

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- Z12.1.2.** to comply with all laws, regulations or policies relating to the prevention and combating of bribery, corruption and money laundering to which it or the *Employer* is subject, including but not limited to the Prevention and Combating of Corrupt Activities Act, 12 of 2004.
- Z12.2.** The *Contractor's* breach of this clause constitutes grounds for terminating the *Contractor's* obligation to provide the service in accordance with the procedures stated P2, P3 or P4 in core clause 92.2 or taking any other action as appropriate against the *Contractor* (including civil or criminal action). However, lawful inducements and rewards shall not constitute grounds for termination.
- Z12.3.** If the *Contractor* is found guilty by a competent court, administrative or regulatory body of participating in illegal or corrupt practices, including but not limited to the making of offers (directly or indirectly), payments, gifts, gratuities, commission or benefits of any kind, which are in any way whatsoever in connection with the contract with the *Employer*, the *Employer* shall be entitled to terminate the contract in accordance with the procedures stated in core clause 92.2, the amount due on termination is A1.
- Z13. Confidentiality**
- Z13.1.** All information obtained in terms of this contract or arising from the implementation of this contract shall be treated as confidential by the *Contractor* and shall not be used or divulged or published to any person not being a party to this contract, without the prior written consent of the *Service Manager*, whose consent shall not be unreasonably withheld.
- Z13.2.** If the *Contractor* is uncertain about whether any such information is confidential, it is to be regarded as such until otherwise notified by the *Service Manager*.
- Z13.3.** This undertaking shall not apply to –
- Z13.3.1.** information disclosed to the employees of the *Contractor* for the purposes of the implementation of this contract. The *Contractor* undertakes to ensure that its employees are aware of the confidential nature of the information so disclosed and that they comply with the provisions of this clause;
- Z13.3.2.** information which the *Contractor* is required by law to disclose, provided that the *Contractor* notifies the *Employer* prior to disclosure so as to enable the *Employer* to take the appropriate action to protect such information. The *Contractor* may disclose such information only to the extent required by law and shall use reasonable efforts to obtain assurances that confidential treatment will be afforded to the information so disclosed;
- Z13.3.3.** information which at the time of disclosure or thereafter, without default on the part of the *Contractor*, enters the public domain or to information which was already in the possession of the *Contractor* at the time of disclosure (evidenced by written records in existence at that time);
- Z13.4.** The taking of images (whether photographs, video footage or otherwise) of the *services* or *Affected Property* or any portion thereof, in the course of providing the *services* or at the end of the service period requires the prior written consent of the *Service Manager*. All rights in and to all such images vests exclusively in the *Employer*.
- Z13.5.** The *Contractor* ensures that all his Subcontractors abide by the undertakings in this clause.
- Z14. Employer's Step-in rights**
- Z14.1.** If the *Contractor* defaults by failing to comply with its obligations in terms of this contract and fails to remedy such default within 2 weeks of the notification of the default by the *Service Manager*, the *Employer*, without prejudice to its other rights, powers and remedies under the contract, or at law may remedy the default either, itself or procure a third party (including any subcontractor or supplier of the *Contractor*) to do so on its behalf. The reasonable costs of the *Employer* exercising its step-in rights in respect of any subcontractor or supplier of the *Contractor* shall be borne by the *Contractor*.
- Z14.2.** The *Contractor* co-operates with the *Employer* and facilitates and permits the use of all required information, materials and other matter (including but not limited to documents and all other drawings CAD materials, data, software, models, plans, designs, programs, diagrams, evaluations, materials specifications, schedules, reports, calculations, manuals or other documents or recorded information)

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(electronic or otherwise) which have been or are at any time prepared by or on behalf of the *Contractor* under the contract or otherwise for and/or in connection with the *works*) and generally does all things required by the *Service Manager* to achieve this end.

Z15. Liens and Encumbrances

Z15.1. The *Contractor* keeps the Equipment used to provide the *service* free of all liens and other encumbrances at all times. The *Contractor*, vis-a-vis the *Employer*, waives all and any liens which he may from time to time have, or become entitled to over such Equipment and any part thereof and ensures that his Subcontractors similarly, vis-a-vis the *Employer*, waive all liens they may have or become entitled to over such Equipment from time to time

Z16. Intellectual Property

Z15.1 Intellectual Property ("IP") rights means all rights in and to any patent, design, copyright, trade mark, trade name, trade secret, other intellectual or industrial property rights, technical information and concepts, know-how, specifications, data, formulae, computer programs, memoranda, scripts, reports, manuals, diagrams, drawings, prototypes, drafts and any rights to them created during the performance of the service and include applications for and rights to obtain or use any such intellectual property whether under South African or foreign law.

Z15.2 IP rights remain vested in the originator and shall not be used for any reason whatsoever other than carrying out the *service*.

Z15.3 The *Contractor* gives the *Employer* an irrevocable, transferrable, non-exclusive, royalty free licence to use and copy all IP related to the *service* for the purposes of constructing, repairing, demolishing operating and maintaining the *service* or the *Affected Property*.

Z15.4 The written approval of the *Contractor* is to be obtained before the *Contractor's* IP made available to any third party which approval will not be unreasonably withheld or delayed. Prior to making any *Contractor's* IP available to any third party the *Employer* shall obtain a written confidentiality undertaking from any such third party on terms no less onerous than the terms the *Employer* would use to protect its IP.

Z15.5 The *Contractor* shall indemnify and hold the *Employer* harmless against and from any claim alleging an infringement of IP rights ("**the claim**"), which arises out of or in relation to:

Z15.5.1 the *Contractor's* *service*;

Z15.5.2 the use of the *Contractor's* Equipment, or

Z15.5.3 the proper use of the *Affected Property* on which the service is provided.

Z15.6 The *Employer* shall, at the request and cost of the *Contractor*, assist in contesting the claim and the *Contractor* may (at its cost) conduct negotiations for the settlement of the claim, and any litigation or arbitration which may arise from it.

Z17. Dispute resolution: The following amendments are made to Option W1:

Z16.1 Under clause W1.3, in the fourth row of the first column of the adjudication table, the following words are added after the words "any other matter": "excluding disputes relating to termination of the contract".

Z16.2 The following clauses are added at the end of clause W1.3 as sub-clauses (12) and (13) respectively:

Z16.2.1 "The Adjudicator shall decide the dispute solely on the written submissions of the parties. No oral

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submissions shall be heard during adjudication.”

Z16.2.2 “Disputes relating to or arising from termination of the Contract shall not be determined by an adjudicator. Any such dispute shall be referred directly to the tribunal in accordance with the procedures set out in clause W1.4.”

Z17 Day:

Z17.1 Any reference to a day in terms of this contract shall be construed as a calendar day.

Z18 Safety

Z18.1 The *Employer*, *Service Manager* or any of his nominated representatives may stop any unsafe *service*. The *Contractor* does not proceed with the relevant service until the safety violation is corrected. This instruction to stop or not to start the *service* is not a compensation event.

Z18.2 As stipulated by section 37(2) of the Occupational Health and Safety Act No. 85 of 1993 (**OHS Act**) as amended the Contractor agrees to the following:

Z18.2.1 As part of the contract the *Contractor* acknowledges that it is an *Employer* in its own right with duties as prescribed in the OHS Act, as amended and agrees to ensure that all work performed, or equipment and materials used, are in accordance with the provisions of the OHS Act.

Z18.2.2 The *Contractor* furthermore agrees to comply with the requirements set forth by the *Service Manager* and agree to liaise with the *Employer* should the *Contractor*, for whatever reason, be unable to perform in terms of the clause Z18.

Z18.3 The *Contractor* acknowledges that it is an *Employer* in its own right and is registered with duties as prescribed in the Compensation for Occupational Injuries & Diseases Act No. 130 of 1993.

Z19 Dispute resolution:

Z19.1 Appointment of the Adjudicator

An *Adjudicator* is appointed when a dispute arises, from the Panel of Adjudicators below. The referring party nominates an *Adjudicator*, which nomination is either accepted or rejected by the other party. In

Name	Location	Contact details (phone & e mail)
Adv. Ghandi Badela	Gauteng	+27 11 282 3700 ghandi@badela.co.za

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the instance of a rejection of the nominated *Adjudicator*, the referring Party refers the appointment deadlock to the Chairman of the Johannesburg Bar Council, who appoints an *Adjudicator* listed in the Panel of Adjudicators below

The Parties appoint the *Adjudicator* under the NEC3 Adjudicator's Contract, April 2013

Mr. Errol Tate Pr. Eng.	Durban	+27 11 262 4001 Errol.tate@mweb.co.za
Adv. Saleem Ebrahim	Gauteng	+27 11 535-1800 salimebrahim@mweb.co.za
Mr. Sebe Msutwana Pr. Eng.	Gauteng	+27 11 442 8555 sebe@civilprojects.co.za
Mr. Sam Amod	Gauteng	sam@samamod.com
Adv. Sias Ryneke SC	Gauteng	083 653 2281 ryneke@duma.nokwe.co.za
Mr. Emeka Ogbugo (Quantity Surveyor)	Pretoria	+27 12 349 2027 emeka@gosiame.co.za

Z19.2 Appointment of the Arbitrator

An *Arbitrator* is appointed when a dispute arises from the Panel of Arbitrators below. The referring party nominates an Arbitrator, which nomination is either accepted or rejected by the other party. In the instance of a rejection of the nominated *Arbitrator*, the referring Party refers the appointment deadlock to the Chairman of the Johannesburg Bar Council, who appoints an *Arbitrator* listed in the Panel of *Arbitrators* below

Panel of Arbitrators

Name	Location	Contact details (phone & e mail)
Adv. Ghandi Badela	Gauteng	+27 11 282 3700 ghandi@badela.co.za
Mr. Errol Tate Pr. Eng.	Durban	+27 11 262 4001 Errol.tate@mweb.co.za
Adv. Saleem Ebrahim	Gauteng	+27 11 535-1800 salimebrahim@mweb.co.za
Mr. Sebe Msutwana Pr. Eng.	Gauteng	+27 11 442 8555 sebe@civilprojects.co.za
Mr. Sam Amod	Gauteng	sam@samamod.com
Adv. Sias Ryneke SC	Gauteng	083 653 2281 ryneke@duma.nokwe.co.za

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**ASSESSMENT, VERIFICATION AND CERTIFICATION OF LOW VOLTAGE (LV) ELECTRICAL INSTALLATIONS AT CAPE TOWN
INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS**

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Part C2: Pricing Data

TSC3 Option A

C2.1 Pricing assumptions: Option B

The conditions of contract

How work is priced and assessed for payment

Clause 11 in the core and Option B clauses of the NEC3 Term Service Contract, April 2013 (TSC3) state:

Identified and defined terms	11	
	11.2	(12) The Price List is the <i>price list</i> unless later changed in accordance with this contract.
		(18) The Price for Services Provided to Date is the Defined Cost which the <i>Contractor</i> has paid plus the Fee.
		(20) The Prices are the amounts stated in the Price column of the Price List. Where a quantity is stated for an item in the Price List, the Price is calculated by multiplying the quantity by the rate.

Payments are made according to Defined Cost plus Fee (See core clauses 11.2(5), 11.2(6) and 11.2(8)). At the dates stated in the Contract Data, the *Service Manager* calculates the *Contractor's* share in terms of clause 53. If the *Contractor* has been paid more than the equivalent Prices in the Price List for the same work he pays the *Employer* a portion of the over-run (the pain) but if he has been paid less than the equivalent Prices in the Price List he is paid a portion of the under-run (the gain). The Prices in the Price List are derived from a list of items of service which can be priced as lump sums or as expected quantities of service multiplied by a rate or a mix of both.

Function of the Price List

In this Option the Price List is used as a means of arriving at a target price. Clause 54.1 in Option C states: "Information in the Price List is not Service Information". This confirms that instructions to do work or how it is to be done are not included in the Price List but in the Service Information. This is further confirmed by Clause 20.1 which states, "The *Contractor* Provides the Service in accordance with the Service Information". Hence the *Contractor* does **not** Provide the Service in accordance with the Price List.

Link to the *Contractor's* plan

Clause 21.4 states "The *Contractor* provides information which shows how each item description on the Price List relates to the operations on each plan which he submits for acceptance". Hence when compiling the *price list*, the tendering contractor needs to develop his first clause 21.2 plan in such a way that operations shown on it can be related to items of service priced in the *price list*.

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Preparing the *price list*

It will be assumed that the tendering contractor has read Pages 14, 15 and 76 of the TSC3 Guidance Notes before preparing the *price list*. Items in the *price list* may have been inserted by the *Employer* and the tendering contractor should insert any additional items which he considers necessary. Whichever party provides the items in the *price list* the total of the Prices is assumed to be fully inclusive of everything necessary to Provide the Service as described at the time of entering into this contract.

1 As the *Contractor* has an obligation to correct Defects (core clause 42.1) and there is no compensation event for this unless the Defect was due to an *Employer's* risk, the lump sum Prices and rates must also include for the correction of Defects.

2 If the *Contractor* has decided not to identify a particular item in the *price list* at the time of tender the cost to the *Contractor* of doing the work must be included in, or spread across, the other Prices and rates in the *price list* in order to fulfil the obligation to complete the *service* for the tendered total of the Prices, in this case the target.

3 There is no adjustment to lump sum prices in the *price list* if the amount, or quantity, of work within that lump sum item of service later turns out to be different to that which the *Contractor* estimated at time of tender. The only basis for a change to the Prices (and hence to the target) is as a result of a compensation event. See Clause 60.1.

4 Hence the Prices and rates tendered by the *Contractor* in the *price list* are inclusive of everything necessary and incidental to Providing the Service in accordance with the Service Information, as it was at the time of tender, as well as correct any Defects not caused by an *Employer's* risk.

5 The *Contractor* does not have to allow in his Prices and rates for matters that may arise as a result of a compensation event. It should be noted that the list of compensation events includes those arising as a result of an *Employer's* risk event listed in core clause 80.1.

Format of the *price list*

(From page 76 of the TSC3 Guidance Notes)

Entries in the first four columns in the *price list* in section C2.2 are made either by the *Employer* or the tendering contractor.

If the *Contractor* is to be paid an amount for the item which is not adjusted if the quantity of work in the item changes, the tendering contractor enters the amount in the Price column only, the Unit, Expected Quantity and Rate columns being left blank.

If the *Contractor* is to be paid an amount for an item of work which is the rate for the work multiplied by the quantity completed, the tendering contractor enters the rate which is then multiplied by the Expected Quantity to produce the Price, which is also entered.

If the *Contractor* is to be paid a Price for an item proportional to the length of time for which a service is provided, a unit of time is stated in the Unit column and the expected length of time (as a quantity of the stated units of time) is stated in the Expected Quantity column.

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C2.2 the price list

PRICING SCHEDULE

Part 1

Item	Item/ Service Description	Unit of Measure	Quantity	Unit Price
1. VERIFY COMPLIANCE OF LOW VOLTAGE (LV) SWITCHBOARDS AND INSTALLATIONS				
1.1	Assessment and reporting on Light Fittings Conditions and Lighting Circuits Loads	Lot	1	R
1.2	Testing and issuing of COC's on electrical LV installations (Single Phase) and update drawings, labelling and DB legend cards	Each	1	R
1.3	Testing and issuing of COC's on LV electrical installations (Single Phase) in hazardous locations and update drawings, labelling and DB legend cards	Each	1	R
1.4	Testing and issuing of COC's on electrical LV installations (Three Phase) and update drawings, labelling and DB legend cards	Each	1	R
1.5	Testing and issuing of COC's on electrical LV installations (Three Phase) in hazardous locations and update drawings, labelling and DB legend cards	Each	1	R
1.6	Infrared scanning/Thermal Imaging and reporting on Distribution Boards within tenant spaces	Each	1	R
1.7	Supply and installation of single-phase DBs in tenants' spaces where there are currently none (DB specification: Indoor white metal enclosure, 1 x 63A double pole main circuit breaker, 1 x single-phase smart energy billing meters that can be monitored remotely through AMR, 1 x 60A earth leakage protection unit, 3 x 20A circuit breaker plug circuits, 3 x 10A circuit breaker lighting circuits, all equipment rated at 6kA short circuit rating)	Each	1	R
1.8	Supply and installation of three-phase DBs in tenants' spaces where there are currently none [DB specification: Indoor white metal enclosure, 1 x 100A 4-pole main circuit breaker, 1 x three-phase smart energy billing meter that can be monitored remotely through AMR, 3 x 60A earth leakage protection units (1 for each phase), 15 x 20A circuit breaker plug circuits (5 for each phase), 15 x 10A circuit breaker lighting circuits (5 for each phase), all equipment rated at 6kA short circuit rating]	Each	1	R
1.9	Supply and installation of single-phase smart energy billing meters that can be monitored remotely through AMR in tenants' spaces	Each	1	R
1.10	Supply and installation of three-phase smart energy meters that can be monitored remotely through AMR in tenants' spaces	Each	1	R
A	Sub-Total 1 (1.1 to 1.10 in ZAR)			R
B	Provisional sum amount for any work to be performed on this contract (This will be paid at proven cost at ACSA discretion)			R3,500,000.00
C	Contingency @10% of (A+B) above			R
D	Sub-Total 2 (B + C in ZAR)			R
E	Part-1 Total (Sub-Total 1 + Sub-Total 2 or A+D) Excl. VAT			R

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Note:

1. Includes: 2 x Vehicle cost; Administration costs; Telephone cost for site team; stationary; training for upkeep of valid certifications; OHS Requirement for safety file validity; and/or other cost pertaining to running the contract over and the above list of works.
2. Site Supervisor to monitor the work and provide technical reports on major incidents and maintenance progress reports.
3. Master installation electrician required for electrical installations compliance inspections and certification in hazardous areas.

Labour Rates and Mark-up

Any works Outside the scope of the contract as per will be charged at the labour rates below:

	Description	Normal Hours (R/hr)	After Hours (R/hr)	Sun/Public H Hr (R/hr)
1	Site Manager / Contract Manager			
2	Electrical Engineer			
3	OEM Specialist			
4	Installation Electrician (IE) (For 1ph and 3ph installations, CoC and Compliance Inspections)			
5	Master Installation Electrician (MIE) {For Specialized 1ph and 3ph installations (Installations in medical and hazardous locations), CoC and Compliance Inspections}			
6	Electrician			
7	Electrical Assistant			
8	General Labourer			

NB: Current rates for year 2 of the contract will be escalated by CPI annually on the anniversary of the contract

Commented [SH1]: Please confirm whether this should not be "year 2"

Commented [NK2]: Yes

Part 2

Preliminaries and general

Item no.	Description - Contract Administration Costs	Frequency	Quantity	Cost per item	Total cost
Preliminary and General - Contract Administration Costs:					
1	Airside Induction Training (AIT Initial)	One Off	8 personnel	R2,200.00	R17,600.00
2	General Security Awareness	One Off	8 personnel	R1,000.00	R8,000.00
3	Vehicle permits and branding.	Annually	2	R13,250.00	R26,500.00
4	Airside Vehicle Operating Permit	One Off	2 personnel	R1,000.00	R2,000.00
5	Safety File	Once off	1	R15,000.00	R15,000.00
Part-2 Total preliminaries and general's costs (Excl. VAT)					R69,100.00

- N.B. Contract administrative costs are not payable upfront but will be drawn off this amount as and when required. This amount covers the full contract duration of 24 Months.
- Safety file cost to include medicals examinations as a once off cost.

Contract Price and Price Adjustment for inflation

The rates applicable to this contract will be listed as in the Bid submission returnable and as per Activity Schedule. The total contract price shall be adjusted on each anniversary date to compensate for increases in

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cost of labours. The labour content of the contract price, as declared in the Bid Price summary, shall be adjusted based on the increase or decrease in CPI.

Mark-up (3rd party procured items/services)

Spares and sub-contracted work will be charged at cost plus mark-up. VAT shall not form part of mark-up calculations. Cost shall be net cost (excluding VAT) of parts supplied to site with all discounts deducted. Percentage added shall include profit, overheads, financing, contract insurance, guarantee costs and supervision, and contract management. ACSA retains the right to procure parts of equal quality and standard if such goods or services can be procured at a lower cost and supply same to the Contractor for fitment or use. This will be used for any works including emergency works as per ACSA process.

Value of Items or Services per month	Mark up-percentage
R 0 – R5000	%
R5001 – R30000	%
R30001 – R100 000	%
R100 001 – R1 000 000	%
Over R 1 000 000	%

NB: Spares and sub-contracted work will be charged at a market related cost, plus mark-up. The mark-up percentage will be closely monitored before releasing payment.

PRICING SCHEDULE SUMMARY TABLE

Line	Description	Total
1	Part-1 Total (Sub-Total 1 + Sub-Total 2) Excl. VAT	R
2	Part-2 Total preliminaries and general's costs (Excl. VAT)	R
Total Cost (Part-1 + Part-2) Excl. VAT (Carry Over to Form of Offer)		R
VAT@ 15% (Carry Over to Form of Offer)		R
Total Cost (incl. VAT) (Carry Over to Form of Offer)		R

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Part C3: EMPLOYER'S SERVICE INFORMATION

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1 Description of the service

1.1 Executive overview

The main objective of this procurement initiative is to appoint a competent and highly reputable electrical contractor for the assessment and certification of all low voltage (LV) electrical installations at Cape Town International Airport (CTIA).

1.2 Employer's requirements for the service

Scope of works: (Investigate compliance on all LV Electrical Installations at Cape Town International Airport)

- Low Voltage (LV) Substation Main Distribution Boards and Sub Distribution Boards (MDB & SDB)
- 400V/230V Distribution Boards (Retail Outlets, Substations, Departments, Tenants, etc.)
- Check COC for Availability, Conformance, and Issuance of New COC Where Not Available and Not Compliant to the Actual Installation
- Audit the Current Installations if They Comply to be Issued with COC's and Where Applicable do Corrections for the Installation to Comply, and Issue new COC's on ACSA Premises
- Audit the Current Installations if They Comply to be Issued with COC's and Where Applicable Respective Tenants to do Corrections for the Installation to Comply, and Issue new COC's on Their Tenant Spaces
- LV Cables Installations (Sizing, marking and / or labelling)
- Circuit Breakers (Verify correct ratings, application, and settings where applicable)
- Light Fittings Conditions and Lighting Circuits Loading
- Plug socket Conditions and Plug Circuits Conditions
- Electrical kiosks
- Infrared Scanning of tenant spaces
- Installation of Sub Distribution Boards and energy meters

1.3 Interpretation and terminology

If required include here definitions additional to those used in the *conditions of contract* which are required only for the purpose of making the Service Information easier to draft and read. Also list abbreviations used and provide a full interpretation of each one, for example:

The following abbreviations are used in this Service Information:

Abbreviation	Meaning given to the abbreviation
ACSA	Airports Company South Africa
CTIA	Cape Town International Airport
BBBEE	Broad Base Black Economic Empowerment
PPPFA	Preferential Procurement Policy Framework Act

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OHS	Occupational Health & Safety
H&S	Health and Safety
SANS	South African National Standard

2 Management strategy and start up.

2.1 The Contractor's plan for the service

The Contractor's plan shall be issued by the Contractor to the Employer at the beginning of each working month throughout the duration of the Contract. The Contractor's plan shall be reviewed by both parties.

The Contractor's plan shall include work time schedules (programme), Material required, plant & equipment required, resources and the Total work cost.

The final plan agreed to shall be adopted for use.

The Contractor's plan shall be as per clause 21 of the Term Service Contract.

2.2 Management meetings

The Contractor will be expected to attend meetings to maintenance, operations, contract management and other issues that may arise from time to time. As far as is practicable, the Contractor will make the required persons available for these meetings. The contract shall record and distribute meeting minutes as may be required or agreed with the Service Manager. The contractor shall not submit claims for payment for attending any of these meetings.

Regular meetings of a general nature may be convened and chaired by the *Service Manager* as follows:

Title and purpose	Approximate time interval	Location	Attendance by:
Risk register and compensation events	Weekly on _____ at _____		
Overall contract progress and feedback	Monthly on _____ at _____		<i>Employer, Contractor and _____</i>

Meetings of a specialist nature may be convened as specified elsewhere in this Service Information or if not so specified by persons and at times and locations to suit the Parties, the nature and the progress of the *service*. Records of these meetings shall be submitted to the *Service Manager* by the person convening the meeting within five days of the meeting.

All meetings shall be recorded using minutes or a register prepared and circulated by the person who convened the meeting. Such minutes or register shall not be used for the purpose of confirming actions or instructions under the contract as these shall be done separately by the person identified in the *conditions of contract* to carry out such actions or instructions.

2.3 Contractor's management, supervision and key people

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The Contractor will be expected to attend meetings to maintenance, operations, contract management and other issues that may arise from time to time. As far as is practicable, the Contractor will make the required persons available for these meetings. The contract shall record and distribute meeting minutes as may be required or agreed with the Service Manager. The contractor shall not submit claims for payment for attending any of these meetings.

2.4 Provision of bonds and guarantees

The form in which a bond or guarantee required by the *conditions of contract* (if any) is to be provided by the *Contractor* is given in Part 1 Agreements and Contract Data, document C1.3, Sureties.

The *Employer* may withhold payment of amounts due to the *Contractor* until the bond or guarantee required in terms of this contract has been received and accepted by the person notified to the *Contractor* by the *Service Manager* to receive and accept such bond or guarantee. Such withholding of payment due to the *Contractor* does not affect the *Employer's* right to termination stated in this contract.

2.5 Documentation control

Documents will be identified with an alpha numeric which indicates source and receipts. The exact document referencing, or numbering option shall be discussed and agreed between the Service Manager and the Contractor upon inception of the contract.

Contractual communication will in the form of:

- Written signed letter, letter can be hand delivered or attached to an e-mail.
- Written signed document, the document can be hand delivered or attached to an e-mail.
- And e-mail

2.6 Invoicing and payment

Include a list of information which is to be shown on an invoice as per the example given below.

Within one week of receiving a payment certificate from the *Service Manager* in terms of core clause 51.1, the *Contractor* provides the *Employer* with a tax invoice showing the amount due for payment equal to that stated in the *Service Manager's* payment certificate.

The *Contractor* shall address the tax invoice to
Private Bag X 9002, Cape Town International, Western Cape, South Africa, 7525.

and include on each invoice the following information:

Name and address of the Contractor and the Service Manager;
The contract number and title;
Contractor's VAT registration number;
The Employer's VAT registration number _____;
Description of service provided for each item invoiced based on the Price List;
Total amount invoiced excluding VAT, the VAT and the invoiced amount including VAT;
(add other as required).

Add procedures for invoice submission and payment (e. g. electronic payment instructions).

Where internal approval policies regulate payment, these should be set out. For example, in the provision of ad hoc services purchase orders may have to be submitted by the Contractor for approval followed by the invoice payment will be made. The following example may apply:

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- (a) uploading of a blanket purchase agreement to enable payment to the Contractor;
- (b) planned maintenance comprising the Service to be preceded by a quotation from the Contractor;
- (c) approval of the quote by the Service Manager;
- (d) authorisation of the issue of a purchase order;
- (e) execution of the Service following issue of the purchase order;
- (f) purchase orders collated into monthly payment certificates and for payment in terms of the contract.

Insofar as emergency work is concerned, the "normal" procedure may not apply. This should be set out here. See: 2.13 below for further detail.

2.7 Contract change management

This section is intended to deal with any additional requirements to the compensation event clauses in section 6 of the core clauses; such as the use of standard forms. Not the same thing as documentation control.

2.8 Records of Defined Cost to be kept by the *Contractor*

If Option C or E applies first read clause 52.2 and then state whether the *Contractor* is required to keep any other records. Include any other constraint which may be required in regard to format and filing of the records, and whether access for the *Service Manager* shall be provided in hard copy or electronically.

Could delete if Option A applies unless the *Employer* requires some form of control over the *Contractor's* record keeping for the purpose of compensation event management.

2.9 Insurance provided by the *Employer*

First read TSC3 Core Clause 86.1 and then add anything necessary for the management of insurance related issues such as a cross reference to where procedures for making claims can be found. Also provide contact details for persons capable of being able to answer any insurance related queries the *Contractor* may have, as well as to whom the information required by Marine Insurance (if any) may be addressed.

2.10 Training workshops and technology transfer

The Contractor must ensure that he/she is, at all times, familiar with ACSA's safety and security requirements relating to permits in order for no work to be delayed as a result thereof. This will include the permit application process.

Note that (with reason) the Contractor will have no claim against ACSA in the event that a permit request is refused.

Proof of having attended the airside induction training course is required for all personal permit applications. Persons applying for an AVOP must provide proof of having attended an AVOP course. Fees are levied for these courses. Fees are further levied for all permit renewals and refresher courses - where applicable.

2.11 Design and supply of Equipment

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On some complex services (e. g. nuclear) it could be in the Parties best interests that some details of the design of Equipment are shared with the *Service Manager*, not necessarily for his acceptance but as an assurance that the Equipment will be able to allow the *Contractor* to Provide the Service efficiently and without delay. For example specialised handling Equipment for a particular maintenance operation. Clause 23.1 is always available to the *Service Manager* if this paragraph is not used.

Also the *Employer* may wish to exercise constraints or include witness and hold points during manufacture, assembly or delivery of such Equipment. Include these constraints here.

Draft in such a way that there is no doubt that the liability for such design supply and use of the Equipment remains with the *Contractor*. Consider deleting this if it is not relevant to the contract.

Refer to clause 23 TSC3.

2.12 Things provided at the end of the *service period* for the *Employer's use*

2.12.1 Equipment

After the end of the service period the Contractor shall deliver to the Employer:

- All material that has been replaced by the contractor may be retained as may be required by the Employer.
- All material, spurs and equipment purchase by the Contractor on behalf of the Employer shall remain property of the Employer.
- Operations and maintenance manuals for installed equipment & spares, as built drawings, design documents, for construction documents, project plans, models, test results for all test performed, and other documents of technical nature.

2.12.2 Information and other things

None

2.13 Management of work done by Task Order

Refer to Clause X19 of TSC3.

3 Health and safety, the environment and quality assurance

3.1 Health and safety risk management

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In addition to the requirements of the laws governing health and safety, the *Employer* may have some additional requirements particular to the *service* and the Affected Property for this contract. The text below provides for these being attached as an Annexure to this Service Information. PLEASE ALSO READ CORE CLAUSE 27.4 TO MAKE SURE THAT WHATSOEVER IS INCLUDED IN THE ANNEXURE FOLLOWS ON FROM THOSE CLAUSES.

The *Contractor* shall comply with the health and safety requirements contained in **Annexure B** to this Service Information

3.2 Environmental constraints and management

The *Contractor* shall comply with the environmental criteria and constraints stated in Annexure B.

3.3 Quality assurance requirements

The Contractor must execute all maintenance work according to the industry quality norms and standards prevailing from time to time. In this regard, the Contractor will be expected to draft quality plans from time to time that must be presented to the Service Manager. Emphasis must be on improving system reliability and ensuring that scheduled maintenance work is indeed completed to recommended standards.

The Contractor shall, in the performance of the Works and in accordance with good Service Manage and construction practices, use suitable items.

Quality Assurance

(a) Prior to commencing the Works, the Contractor shall:

(1) Plan, establish and maintain a quality system which conforms with the job quality management plan; and

(2) Provide the Employer with evidence of compliance with the job quality management plan by presenting Contractor warrants.

(b) The job quality management plan is only an aid to achieving compliance with this contract and to document compliance.

The Contractor's scope of obligations will include the management of the Works to ensure performance in accordance with the requirements of this contract.

4 Procurement

The Contractor will always respect OEM (Original Equipment Manufacturer) warranties to ACSA when procuring spare parts, products or 3rd party services. It will be the Contractor's sole responsibility to ensure that OEM warranty requirements are always adhered to.

The Contractor must adhere to all airport requirements regarding fire resistance, health and safety and quality when procuring replacements.

ACSA currently requires that no casual labour (i.e. "off street labour") may be employed by the Contractor unless pre-arranged with ACSA.

4.1 People

4.1.1 Minimum requirements of people employed

(a) The Contractor shall:

(1) Ensure that all people working in this contract have all necessary relevant working documentation that is compliant to South African labour act, i.e. South African Identity documents and or Working permits for foreigners.

(2) Provide all things and take all measures necessary to protect people and property and, in particular, comply with all Workplace Health and Safety Legislation and take full responsibility for the adequacy, stability and safety of all Materials and Equipment, and methods of construction, transportation and operation; and

(3) Establish, maintain and comply with emergency safety and security procedures applicable to the Work.

If the Contractor or the employees, Subcontractors or agents of the Contractor damage third party property, the Contractor shall:

(a) Make good the damage; and

(b) Pay any compensation to such third party which the Contractor is required to pay under this contract or pursuant to any Applicable Law.

(c) Subject to clause (b), if the Contractor fails to make good such damage or pay any compensation referred to in clause (b) within the time reasonably required by the Employer by notice in writing (which shall not less than fifteen (15) Business Days), the Employer may, by notice in writing to the Contractor remedy the damage at the sole risk and expense of the Contractor.

(d) If the Contractor fails to comply with obligation under this clause, the Employer may, in addition to any other remedy which the Employer may have, perform that obligation on the Contractor's behalf and any cost incurred by the Employer shall be a debt due and payable by the Contractor.

(e) The Contractor shall comply with employment equity act as issued by the Department of Labour.

4.1.2 BBBEE and preferencing scheme

The contractor shall maintain the same BBBEE status level or above during the period of the contract.

4.2 Subcontracting

4.2.1 Preferred subcontractors

Refer to clause 26 TSC3.

4.2.2 Subcontract documentation, and assessment of subcontract tenders

Refer to clause 26 of TSC3.

In addition, appointment of sub-contractors must at all times be in line with the PPPFA.

4.2.3 Limitations on subcontracting

Refer to clause 26 TSC3

4.2.4 Attendance on subcontractors

Refer to clause 26 TSC3

4.3 Plant and Materials

4.3.1 Specifications

The Contractor shall supply all plant necessary to ensure the provision of the Services in a manner that is in conformance with workplace Health and Safety Act. The Contractor shall ensure that all plant supplied by it is, and is maintained in, a condition that is in conformance with workplace Health and Safety act.

All Plant and Material shall conform to the SANS.

The contractor shall use Plant and Materials that are fit for purpose as may be specified in the SANS.

Design and specification shall always be discussed and agreed with the Service Manager.

4.3.2 Correction of defects

Defective Material and Equipment or Works

(a) Notwithstanding any previous test or certification, the Employer may, acting reasonably, instruct the Contractor to:

(1) Remove from the Site and replace any Materials and Equipment which are not in accordance with the Employer's requirement;

(2) Remove and re-execute any other work is not in accordance with the Employer's requirements.

(3) Execute any work which is urgently required for the safety of the Works, whether because of an accident, unforeseeable event or otherwise.

(b) The Contractor shall comply with the instruction within a reasonable time, which shall be the time (if any) specified in the instruction.

(c) If the Contractor fails to comply with any such instruction, the Employer shall be entitled to employ and pay other persons to carry out the work. Except to the extent that the Contractor would have been entitled to payment for work, the Contractor shall pay the Employer all costs arising from this failure.

4.3.3 Contractor's procurement of Plant and Materials

The contractor:

(a) Shall supply:

(1) The Material and Equipment

(2) and anything else necessary for the performance of the Works.

(b) Equipment, spares and Materials: it will be expected that the prospective Contractor maintains an inventory of equipment, spares and materials or have access to those equipment, spares and materials without compromising response times.

4.3.4 Tests and inspections before delivery

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The Employer is entitled to see any Materials and Equipment or attend any part of the Works that are to be tested and inspect the result of any Test.

Who conducts Test?

- (a) Tests are to be conducted as indicated by the Employer/Service Manager/Employer representative.
- (b) Testing required under this contract shall be carried out by appropriately qualified and skilled persons adequately trained for the tasks allocated to them.
- (c) Tests shall be chosen and testing shall be carried out in the manner that shall cause the least possible damage to the Works.
- (d) Tests specification shall be discussed and agreed with the Service Manager.

4.3.5 Plant & Materials provided “free issue” by the *Employer*

None

5 Working on the Affected Property

When planning to work on the affected property, the Contractor shall:

- (a) Issue to the Employer a detailed work methodology, the work methodology shall be reviewed by the Employer and agreed in signing.
- (b) At all times comply with the Operational Health, Safety & Environmental act as detailed on Annexure A.
- (c) Notify in writing the Employer of the date and time of proposed work. Upon receiving the date and time of the proposed work the Employer shall within seven (7) days review the proposal and notify the Contractor about final decision.

Protection of the public

The Contractor shall take special care in order not to harm or endanger the public in any way. Work shall be sufficiently hoarded and guarded in order to safeguard children and the general public from injury relating to machinery, work or other means.

Barricades and lighting

Where hoarding, barricades or lighting is required in the execution of the Works, the Contractor shall provide same. Hoarding, barricades and lighting shall comply with industry accepted safety standards and may not be used for purposes of advertising or any other purpose than safeguarding the Works. All specifications in this regard shall be discussed and agreed with the Service Manager.

5.1 *Employer's* site entry and security control, permits, and site regulations

Contractor should provide to his employees all necessary training, i.e. Airside Induction and AVOP required to obtain airside permits.

The Contractor must ensure that he/she is, at all times, familiar with ACSA's safety and security requirements relating to permits in order for no work to be delayed as a result thereof. This will include the permit application process.

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Note that (within reason) the Contractor will have no claim against ACSA in the event that a permit request is refused.

Proof of having attended the airside induction training course is required for all personal permit applications. Persons applying for an AVOP must provide proof of having attended an AVOP course. Fees are levied for these courses. Fees are further levied for all permit renewals and refresher courses - where applicable.

5.2 People restrictions, hours of work, conduct and records

Restrictions and hours of work may apply at CTIA. It is very important that the Contractor keeps records of his people working on the Affected Property, including those of his Subcontractors. The Service Manager shall have access to these records at any time. These records may be needed when assessing compensation events.

5.3 Health and safety facilities on the Affected Property

Contractor shall comply to all requirements stated in Annexure A

5.4 Environmental controls, fauna & flora

The Contractor shall comply with the environmental criteria and constraints stated in Annexure B.

5.5 Cooperating with and obtaining acceptance of Others

The Contractor shall co-operate with others in obtaining and providing information which they may require in connection with the service. He shall co-operate with others and shares the Affected Property with them as stated in the Service Information.

The Contractor must accept and respect the fact that the Airport is continuously undergoing construction and improvement and that a variety of stakeholders are involved in ACSA's business. Therefore, within reason and with prior arrangement with the Contractor, ACSA might require the following from time to time:

- Assisting with emergency repairs;
- Re-scheduling of work to accommodate other contractors.
- Allowing access and providing assistance to OEM suppliers to correct defects on equipment and/or systems;
- Checking on other contractors in order to reduce risk;
- Pointing out services to consultants or other contractors;
- Providing access to other contractors;
- Attending co-ordination and planning meetings;
- Removing rubble and/or equipment from site;
- Training of ACSA operators and/or technicians;
- Providing of system data to ACSA or its consultants;
- Recommending improvement on maintenance procedures;
- Co-operating with ACSA Security relating to security initiatives.

Notification of Works needs to be issued to Airport stakeholders whenever there is planned work. The Contractor will inform the Service Manager regarding the Work Plan, The Service Manager shall be responsible for distributing the Notification of Work 7 days prior to commencement of work.

5.6 Records of Contractor's Equipment

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Service and Maintenance records of Contractor's vehicles and/or equipment shall be made available on request by Service Manager.

5.7 Equipment provided by the *Employer*

None

5.8 Site services and facilities

5.8.1 Provided by the *Employer*

Employer shall if and when required provide a power supply point, domestic waste disposal (no Hazardous waste) which the contractor will be required to pay for the installation and usage. Contractor will be shown nearest ablution facilities and will have to provide own fire protection systems. The contractor shall provide everything else necessary for providing the service.

5.8.2 Provided by the *Contractor*

Contractor shall if and when required provide own storage containers, provide all equipment required for the work at night and everything else necessary for Providing the Service.

5.9 Control of noise, dust, water and waste

See annexure B

5.10 Hook ups to existing works

5.11 Tests and inspections

5.11.1 Description of tests and inspections

Thorough assessment of all low voltage electrical installations throughout the airport for compliance with the applicable standard, SANS 10142-1, The wiring of premises. And the

The service provider's responsibilities will require compliance with organizational policy and procedures for the assessment activities undertaken, and to report any problems with these activities. All defects highlighted and found during these assessments will be repaired under this contract. The brief scope and frequencies are as below:

5.11.2 Materials facilities and samples for tests and inspections

Responsibilities for Materials facilities, test methods, and required inspection will be discussed and agreed between the Contractor and Employer.

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Notwithstanding anything elsewhere contained in the Contract and without limiting the obligations liabilities or responsibilities of the Contractor in any way whatsoever (including but not limited to any requirement for the provision by the Contractor of any other insurances) the Employer shall effect and maintain as appropriate in the joint names of the Employer , Contractors and Sub-Contractors, Consultants and Sub-Consultants the following insurances which are subject to the terms, limits, exceptions and conditions of the Policy:

(a) PUBLIC LIABILITY Insurance – which will provide indemnity against the insured parties legal liability in the event of accidental death of or injury to third party persons and/or accidental loss of or damage to third party property arising directly from the execution of the contract with a limit of indemnity of R 100 million in respect of all claims arising from any one occurrence or series of occurrences consequent on or attributable to one source or original cause. The policy will be subject to a Deductible of R25 000 for Property Damage claims only but R250 000 where Loss or Damage involves Aircraft.

i (i) The Employer shall pay any premium due in connection with the insurance affected by the Employer.

(ii) The Contractor shall not include any premium charges for this insurance except to the extent that he may deem necessary in his own

interests to effect supplementary insurance to the insurance effected by the Employer. The Employer reserves the right to call for full information regarding insurance costs included by the Contractor.

(iii) Any further clarification of the scope of cover provided by the Policies arranged by the Employer should be obtained from the Employer .

(iv) In the event of any occurrence which is likely to or could give rise to a claim under the insurances arranged by the Employer the Contractor shall:

(A) in addition to any statutory requirement or other requirements contained in the Contract immediately notify the Employer's Insurance Broker or the Insurers by telephone or telefax giving the circumstances nature and an estimate of the loss or damage or liability

(B) complete a Claims Advice Form available from the Insurance Brokers to whom the form must be returned without delay.

(C) negotiate the settlement of claims with the Insurers through the Employer's Insurance Brokers and shall when required to do so obtain the Employer's approval of such settlement.

The Employer and Insurers shall have the right to make all and any enquiries to the site of the Works or elsewhere as to the cause and results of any such occurrence and the Contractor shall co-operate in the carrying out of such enquiries.

(v) The Contractor will be liable for the amount of the Deductible (First Amount Payable in respect of any claim made by or against the Contractor or Sub-Contractors under the insurances effected by the Employer.

Where more than one Contractor is involved in the same claim the Deductible will be borne in pro-rata amounts by each Contractor in proportion to the extent of each Contractor's admitted claim.

(vi) Any amount which becomes payable to the Contractor or any of his Sub-Contractors as a result of a claim under the Contact Works Insurance shall if required by the Employer be paid net of the Deductible to the Employer who shall pay the Contractor from the proceeds of such payment upon rectification repair or reinstatement of the loss or damage but this provision shall not in any way affect the Contractor's obligations liabilities or responsibilities in terms of the Contract.

In respect of any amount which becomes payable as a result of a claim under any Public Liability Insurance the Contractor, or his Sub-Contractors shall be required to pay the amount of the Deductible to the Insurer to facilitate settlement of such claim.

Insurance Affected by the Contractor.

Without in any way detracting from any requirements contained elsewhere in this contract the Contractor and Sub-Contractors shall where applicable, provide as a minimum the following:

(a) INSURANCE OF CONTRACTORS EQUIPMENT (including tools offices and other temporary structures and contents) and other things (except those intended for incorporation into the Works) brought onto the Site for a sum sufficient to provide for their replacement.

(b) Insurance in terms of the provisions of the Compensation for Occupational Injuries and Diseases Act No. 130 of 1993 as may be amended or in terms of any similar Workers Compensation and Unemployment Insurance enactments in the Suppliers' or Sub Supplier's operational, manufacturing or assembly locations.

(c) Motor Vehicle Liability Insurance comprising (as a minimum) "Balance of Third Party" Risks including Passenger Liability indemnity.

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(d) Public Liability Insurance for an amount sufficient to cover the Contractors obligations in terms of the Deductible of R25 000 or R250 000 as stated above.

(i) The insurances to be provided by the Contractor and his Sub-Contractors shall:

(A) be affected with Insurers and on terms approved by the Employer.

(B) be maintained in force for whatever period the perils to be insured by the Contractor are at risk (including any defects liability period during which the Contractor is responsible for the care of the Works)

(C) submit to the Employer the relevant Policy or Policies of Insurance or evidence acceptable to the Employer that such insurances have been affected.

(ii) In the event that the Contractor or his Sub-Contractor receives any notice of cancellation or restrictive modification to the insurance provided to them they shall immediately notify the Employer in writing of such cancellation or restriction and shall advise what action the Contractor or his Sub-Contractor will take to remedy such action.

If the Contractor fails to effect and keep in force the insurances referred to then the Employer may effect and keep in force any such insurances and pay such premium or premiums as may be necessary for that purpose and from time to time deduct the amount paid by the Employer from any monies due or which may become due to the Contractor or recover same as a debt from the Contractor.

Sub-Contractors

The Contractor shall:

(a) ensure that all potential and appointed Sub-Contractors are aware of the whole contents of this clause, and

(b) enforce the compliance by Sub-Contractors with this clause where applicable."

1. Annex 1: Equipment Schedule List of Distribution Boards

Nr.	Shop / Area	DB / Panel Name
1	Terminal 2 1st floor INT-WC-5	SDB 1/V3/E
2	Terminal 2 1st floor INT-WC-5	DB UPS 1
3	Terminal 2 Basement Sub Station	8F
4	Terminal 2 Basement Sub Station	SUB Main Switch
5	Terminal 2 Basement Sub Station	Panel South Extension
6	Terminal 2 Basement Sub Station	Panel South Extension Main switch
7	Terminal 2 Basement Sub Station	6F
8	Terminal 2 Basement Sub Station	PFS
9	Terminal 2 Basement Sub Station	Incomer 2
10	Terminal 2 Basement Sub Station	Bus Coupler
11	Terminal 2 Basement Sub Station	Main DB Board B
12	Terminal 2 Basement Sub Station	Incomer 1
13	Terminal 2 Basement Sub Station	5F
14	Terminal 2 Basement Sub Station	4F
15	Terminal 2 Basement Sub Station	3F
16	Terminal 2 Basement Sub Station	Chiller 3
17	Terminal 2 Basement Sub Station	Chiller 1 & 2
18	Terminal 2 Basement Sub Station	DB 2F
19	Terminal 2 Basement Sub Station	Main DB Board B Emergency Supply
20	Terminal 2 Basement Sub Station	Main Switch
21	Terminal 2 Basement Sub Station	Incomer 1 DB
22	Terminal 2 1st Floor Room K	SDBK Essential

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23	Terminal 2 1st Floor Room K	SDBK non-essential
24	Terminal 2 1st Floor Room K	South DB (fed from duty free wine)
25	International Ground Floor Room L	Public Hall
26	International Ground Floor Room L	Baggage Claim
27	International Ground Floor Room L	Customs / Car rentals
28	International Ground Floor Room L	SDB L non-essential
29	International Ground Floor Room L	Main Switch non-essential
30	International Ground Floor Room L	Line Shops
31	International Ground Floor Room L	UPS
32	International Ground Floor Room L	Public Hall, column perimeter etc.
33	International Ground Floor Room L	Baggage claims / Sealing area
34	International Ground Floor Room L	SDB L essential
35	International Ground Floor Room L	SDB L essential Main Switch
36	International Ground Floor Room L	Atrium / Theme Lighting
37	International Ground Floor Room L	Customs / Car rentals area 1
38	International Ground Floor Room M	SDB -C Normal
39	International Ground Floor Room M	SDB -C UPS
40	International Ground Floor Room M	SDB -C Emergency
41	International 1st Floor Border Police	SDB - B
42	International 1st Floor Border Police	DB (Lufthansa)
43	International Chiller Room (Outside)	SDB R/RE
44	International Chiller Room (Outside)	1F
45	International Chiller Room (Outside)	Main Switch Goods receiving
46	International Chiller Room (Outside)	Main DB Board an essential supply
47	International Chiller Room (Outside)	SDB H Main Switch
48	International Chiller Room (Outside)	3F
49	International Chiller Room (Outside)	Main Switch
50	International Chiller Room (Outside)	4F
51	International Chiller Room (Outside)	DB - R
52	International Chiller Room (Outside)	DB - N
53	International Chiller Room (Outside)	PFC
54	International Chiller Room (Outside)	Incomer 1
55	International Chiller Room (Outside)	Main DB Board A non-essential
56	International Chiller Room (Outside)	Bus Coupler
57	International Chiller Room (Outside)	Incomer 2
58	International Chiller Room (Outside)	5F
59	International Chiller Room (Outside)	6F
60	International Chiller Room (Outside)	Main Switch
61	International Chiller Room (Outside)	7F
62	International Chiller Room (Outside)	8F
63	International Chiller Room (Outside)	9F
64	International Chiller Room (Outside)	10F
65	International Chiller Room (Outside)	INT WC 4 DB
66	Terminal 2 Ground Floor1 MIV & MIV/E	Emergency Panel

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67	Terminal 2 Ground Floor1 MIV & MIV/E	MIV essential
68	Terminal 2 Ground Floor1 MIV & MIV/E	SAGAD
69	Terminal 2 Ground Floor1 MIV & MIV/E	SAA F & B Lounge
70	Terminal 2 Ground Floor1 MIV & MIV/E	MIV non-essential
71	Terminal 2 Ground Floor1 MIV & MIV/E	Main Switch
72	T2 Electrical Room next to MIV Room	SDB - 7
73	T2 Electrical Room next to MIV Room	SDB - 7E
74	T2/2 1st Floor next to AC Room	Essential
75	T2/2 1st Floor next to AC Room	Non-Essential
76	AC Room T2 1st Floor (on right as you enter)	AHU 3
77	AC Room T2 1st Floor (on right as you enter)	AHU 5
78	AC Room T2 1st Floor (on right as you enter)	Heaters and diffusers for Landside
79	AC Room T2 1st Floor (on right as you enter)	Airside General
80	AC Room T2 1st Floor (on right as you enter)	First Class Lounge
81	AC Room T2 1st Floor (on left as you enter)	Supply Nationwide Office
82	AC Room T2 1st Floor (on left as you enter)	DB Metering E1
83	AC Room T2 1st Floor (on left as you enter)	Main Switch from Basement
84	AC Room T2 1st Floor (on left as you enter)	DB Metering E2
85	AC Room T2 1st Floor (DB in back corner)	Main Switch fed from Gen
86	AC Room T2 1st Floor (DB in back corner)	Main Switch fed from UPS
87	International Goods Receiving	SDB - NE
88	International Goods Receiving	SDB - S/S A1
89	International Goods Receiving	SDB - R/RE
90	International Main Switch Room North	Panel A
91	International Main Switch Room North	Panel B
92	International Main Switch Room North	Panel C
93	International Main Switch Room North	Panel D
94	International Main Switch Room North	Panel E
95	International Main Switch Room North	Panel F
96	International Main Switch Room North	Panel G
97	International Main Switch Room North	SAA Lounge
98	International Main Switch Room North	Bid Air
99	International Main Switch Room North	Main Switch
100	International Main Switch Room North	Duty Free Shop
101	International Main Switch Room North	UPS Lan B
102	International Main Switch Room South	DB - J1
103	International Main Switch Room South	BA
104	International Main Switch Room South	Out of Africa
105	International Main Switch Room South	DB H - UPS
106	International Main Switch Room South	Main Switch
107	International Main Switch Room South	Panel A
108	International Main Switch Room South	Panel B
109	International Main Switch Room South	Panel C
110	International Main Switch Room South	Panel D

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111	International Main Switch Room South	Panel E
112	International Main Switch Room South	Panel F
113	International Main Switch Room South	Panel G
114	International Main Switch Room South	Café Fresh
115	1st Floor International	DB Link
116	2nd Floor International	DB Customs
117	Security 2nd Floor North	DB Departure A
118	Electrical Switch Room 2/F-2 CTB 2nd Floor	HVAC - N1 DB
119	Electrical Switch Room 2/F-2 CTB 2nd Floor	HVAC - N1 ACDB
120	Electrical Switch Room 2/F-2 CTB 2nd Floor	Extension for DB General
121	Electrical Switch Room 2/F-2 CTB 2nd Floor	DB General B 2nd Floor (A)
122	Electrical Switch Room 2/F-2 CTB 2nd Floor	DB General B 2nd Floor (B)
123	Electrical Switch Room 2/F-3 CTB 2nd Floor	Normal Panel
124	Electrical Switch Room 2/F-3 CTB 2nd Floor	Emergency Panel
125	CTB 2nd Floor	HVAC N1 ACDB - 2 North E
126	Electrical Switch Room 2/F - 1 CTB 2nd Floor	DB General C 2nd Floor A
127	Electrical Switch Room 2/F - 1 CTB 2nd Floor	DB General C 2nd Floor B
128	Electrical Switch Room 2/F - 1 CTB 2nd Floor	HVAC - N1 ACDB 2.2 A North (E)
129	Electrical Switch Room 2/F - 1 CTB 2nd Floor	HVAC - N1 ACDB 2.2 B North (E)
130	Electrical Switch Room 2/F - 1 CTB 2nd Floor	Extension DB General 2nd Floor
131	2nd Floor North near Toilets	DB Departures B (N)
132	1st Floor Mezzanine T2	DB - INT 1.1
133	Ground Floor WCG1	MDB UPS
134	Food Court DB North (Passage)	MDB Retail North Ground Floor A
135	Food Court DB North (Passage)	MDB Retail North Ground Floor C
136	Food Court DB North (Passage)	MDB Retail North Ground Floor Extension
137	Food Court DB South (Passage)	MDB Retail South Ground Floor A
138	Food Court DB South (Passage)	MDB Retail South Ground Floor B
139	Food Court DB South (Passage)	MDB Retail South Ground Floor C
140	Ground Floor Arrivals Electrical Room CTB near Toilets	MDB - G BUS Departure Ground Floor
141	Ground Floor Arrivals Electrical Room CTB near Toilets	HVAC N1 ACMDB G South
142	Ground Floor Arrivals Electrical Room CTB near Toilets	HVAC N2 ACMDB G South
143	Ground Floor Arrivals Electrical Room CTB near Toilets	HVAC N3 ACMDB G South
144	Domestic Arrivals	SDB 3-1/G
145	CTB 1st Floor	DB 1 FIDS - B
146	CTB 1st Floor SUB DB Office Central	SUB DB Office Central Normal
147	CTB 1st Floor SUB DB Office Central	SUB DB Office Central Emergency
148	CTB 1st Floor SUB DB Office Central	SUB DB Office Central UPS
149	CTB 1st Floor	DB - 4 FIDS-B
150	Electrical Switch Room 1/F-1 Passage 1st Floor	MDB - Office North 1st Floor
151	CTB 1st Floor Passage Electrical Room	MDB 1 Baggage Sortation Void (N)
152	CTB - SWC - 1.2	W/C 1/2 Common

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153	CTB - WC 1.2	MDB - UPS WC 1/2
154	CTB - WC 1.3	MDB - UPS 1/2
155	CTB - SWC - 1.3	WC 1/3 Common
156	CTB - WC 1.3	MDB UPS WC 1/3
157	CTB 1ST Floor Passage DB Room	Temp SUB MDB1 Baggage Sortation Void
158	CTB 1ST Floor Passage DB Room	SUB MDB1 Baggage Sortation Void 1st Floor
159	CTB 1ST Floor Passage DB Room	North Extension for above
160	CTB 1st Floor Electrical Substation A	Left B/B VT
161	CTB 1st Floor Electrical Substation A	SOB Feeder
162	CTB 1st Floor Electrical Substation A	SA Cargo 1
163	CTB 1st Floor Electrical Substation A	MSP
164	CTB 1st Floor Electrical Substation A	International Arrivals
165	CTB 1st Floor Electrical Substation A	Terminal 2010 North SUB Feeder A
166	CTB 1st Floor Electrical Substation A	P & L 1 Incomer
167	CTB 1st Floor Electrical Substation A	Eskom 1 Incomer
168	CTB 1st Floor Electrical Substation A	Bus Coupler
169	CTB 1st Floor Electrical Substation A	Busbar Joggle R/H Side B/B VT
170	CTB 1st Floor Electrical Substation A	Eskom 2 Incomer
171	CTB 1st Floor Electrical Substation A	P & L 2 Incomer
172	CTB 1st Floor Electrical Substation A	Terminal 5
173	CTB 1st Floor Electrical Substation A	International Departures Basement
174	CTB 1st Floor Electrical Substation A	35 Squadron Feeder
175	CTB 1st Floor Electrical Substation A	SA Cargo 2
176	CTB 1st Floor Electrical Substation A	Terminal 2010 South SUB Feeder
177	CTB 1st Floor Electrical Substation A	DB Switchroom
178	Electrical Switch Room 1/F-2 Passage 1st Floor CTB	DB Normal
179	Electrical Switch Room 1/F-2 Passage 1st Floor CTB	DB Emergency
180	UPS Room CTB 1st Floor Passage	DB UPS 1A
181	UPS Room CTB 1st Floor Passage	DB UPS 2B
182	UPS Room CTB 1st Floor Passage	DB UPS 3C
183	UPS Room CTB 1st Floor Passage	DB UPS 4D
184	UPS Room CTB 1st Floor Passage	Cute MDB UPS
185	Electrical DB Board 1 Room	HVAC N2 ACDB1 South
186	Electrical DB Board 1 Room	HVAC N3 ACDB1 South
187	Terminal 2 1st Floor Offices	DB - INT 1.2
188	Terminal 2 1st Floor Offices	MDB Transtel
189	3rd Floor Passage CTB	DB 3 General A 3rd Floor A
190	3rd Floor Passage CTB	DB 3 General A 3rd Floor B
191	Electrical Switch Room 3/F-2 (3rd Floor Passage)	HVAC N1 ACDB 3 North
192	Electrical Switch Room 3/F-2 (3rd Floor Passage)	HVAC N3 ACDB 3 North
193	Electrical Switch Room 3/F-2 (3rd Floor Passage)	Main DB 3 Retailer Concourse N (A)
194	Electrical Switch Room 3/F-2 (3rd Floor Passage)	Main DB 3 Retailer Concourse N (B)

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ASSESSMENT, VERIFICATION AND CERTIFICATION OF LOW VOLTAGE (LV) ELECTRICAL INSTALLATIONS AT CAPE TOWN INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

195	4th Floor Passage CTB	DB General A 4th Floor
196	4th Floor Passage CTB	AC MDB 4 North E
197	4th Floor Passage CTB	HVAC N1 ACDB 4 North
198	4th Floor Passage CTB	HVAC N3 ACDB North 4th Floor
199	4th Floor CTB	DB APC A
200	4th Floor CTB	DB APC B
201	4th Floor CTB	AMC DB
202	4th Floor CTB	ECC DB
203	4th Floor CTB	Control Room DB
204	Electrical DB Room Board 4 Room (4th Floor)	HVAC N1 ACDB South 4th Floor
205	Electrical DB Room Board 4 Room (4th Floor)	HVAC N2 ACDB South 4th Floor
206	Electrical DB Room Board 4 Room (4th Floor)	HVAC N3 ACDB South 4th Floor
207	Electrical DB Room Board 4 Room (4th Floor)	DB General C 4th Floor A
208	Electrical DB Room Board 4 Room (4th Floor)	DB General C 4th Floor B
209	Electrical DB Room Board 4 Room (4th Floor)	DB General C 4th Floor C
210	Electrical DB Board 3 Room 3rd Floor	DB3 General C
211	Electrical DB Board 3 Room 3rd Floor	HVAC N2 ACDB 3 South
212	Electrical DB Board 3 Room 3rd Floor	HVAC N3 ACDB 3 South
213	Electrical DB Board 2 Room 2nd Floor	DB General D 2nd Floor
214	2nd Floor passage CTB	SDB 3/1-2
215	2nd Floor Security	SDB Security
216	4th Floor Electrical Room (Bidvest)	DB General B (4th Floor)
217	Ground Floor Bus Dept	DB Bus DEPT Ground Floor
218	1st Floor passage (near exclusive books)	MDB 3-1/1 Normal
219	2nd Floor passage (near exclusive books)	MDB 3-1/1 Emergency
220	3rd Floor passage (near exclusive books)	SDB 3-1/1
221	HVAC Chiller Room (Outside)	Panels on left when entering
222	HVAC Chiller Room (Outside) Plant Room	DB Plant Room South 1st Floor
223	HVAC Chiller Room (Outside) Plant Room	AC Control Panel ref ACDB-1.2E
224	HVAC Chiller Room (Outside) Plant Room	AC Control Panel ref ACDB-1.2
225	Electrical Switch Room South (S/Station South LV Room)	SDB Apron a Light masts
226	Electrical Switch Room South (S/Station South LV Room)	High Mast A5, A6, A7, A8, A10, A11
227	Electrical Switch Room South (S/Station South LV Room)	High Mast Lighting Control DB
228	Electrical Switch Room South (S/Station South LV Room)	LT Section
229	Electrical Switch Room South (S/Station South LV Room)	SDB-PLB
230	Electrical Switch Room South (S/Station South LV Room)	HVAC S3
231	Electrical Switch Room South (S/Station South LV Room)	GEN 3 (1)
232	Electrical Switch Room South (S/Station South LV Room)	GEN 3 (2)
233	Electrical Switch Room South (S/Station South LV Room)	GEN 3 (3)

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ASSESSMENT, VERIFICATION AND CERTIFICATION OF LOW VOLTAGE (LV) ELECTRICAL INSTALLATIONS AT CAPE TOWN INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

234	Electrical Switch Room South (S/Station South LV Room)	GEN 3 (4)
235	Electrical Switch Room South (S/Station South LV Room)	TRF 3
236	Electrical Switch Room South (S/Station South LV Room)	MDB South Substation
237	Electrical Switch Room South (S/Station South LV Room)	TRF 2
238	Electrical Switch Room South (S/Station South LV Room)	Bus coupler 1
239	Electrical Switch Room South (S/Station South LV Room)	TRF S1 Incoming meter 1
240	Electrical Switch Room South (S/Station South LV Room)	TRF S1 MDB 2 Domestic Arrivals
241	Electrical Switch Room South (S/Station South LV Room)	TRF S1 Woolworths
242	Electrical Switch Room South (S/Station South LV Room)	TRF SS Phase 3A
243	Electrical Switch Room South (S/Station South LV Room)	SS Local DB Ground Floor
244	Electrical Substation North	NS Local DB Ground Floor
245	Electrical Substation North	TRF N1 MDB 3 Rental
246	Electrical Substation North	TRF N1 MDB Baggage Sortation
247	Electrical Substation North	TRF N1 Transformer 1
248	Electrical Substation North	Bus coupler 1
249	Electrical Substation North	TRF N2
250	Electrical Substation North	Bus coupler 2
251	Electrical Substation North	TRF N3
252	Electrical Substation North	GEN N1 (1)
253	Electrical Substation North	GEN N1 (2)
254	Electrical Substation North	GEN N1 (3)
255	Electrical Substation North	GEN N1 (4)
256	Electrical Substation North	GEN N1 (5)
257	Electrical Substation North	TRF HVAC N1
258	Electrical Substation North	GEN N2 (1)
259	Electrical Substation North	GEN N2 (2)
260	Electrical Substation North	GEN N2 (3)
261	Electrical Substation North	GEN N2 (4)
262	Electrical Substation North	TRF HVAC N2 Incoming Meter
263	Electrical Substation North	TRF HVAC N2 ACMDB G North
264	Electrical Substation North	TRF HVAC N2 ACDB 1.3
265	Electrical Substation North	GEN N3 (1)
266	Electrical Substation North	GEN N3 (2)
267	Electrical Substation North	GEN N3 (3)
268	Electrical Substation North	MDB - North S/Station HVAC 3
269	Chiller Room North	AC Control Panel ref ACDB 1.3
270	Chiller Room North	AC Control Panel ref ACDB 1.3E
271	Chiller Room North	Db Plant Room North 1st Floor
272	North Service Yard	DB North Service Yard

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ASSESSMENT, VERIFICATION AND CERTIFICATION OF LOW VOLTAGE (LV) ELECTRICAL INSTALLATIONS AT CAPE TOWN INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

273	CTB 3rd Floor (by Primi)	DB 3 General B
274	A8 Electrical Switch Room Domestic Departures	SDB 3-2/1-1 (N)
275	A8 Electrical Switch Room Domestic Departures	MDB 3-2/1
276	A8 Electrical Switch Room Domestic Departures	SC MDB 3.2
277	A8 Electrical Switch Room Domestic Departures	SDB 3-2/1-1 (E)
278	A10 Electrical Switch Room Domestic Departures	MDB 3-2/2
279	A10 Electrical Switch Room Domestic Departures	MDB 3-2/2-1 Normal
280	A10 Electrical Switch Room Domestic Departures	MDB 3-2/2-1 Essential
281	A12 Electrical Switch Room Domestic Departures	MDB 3-2/3
282	A12 Electrical Switch Room Domestic Departures	MDB 3-2/3-1 Normal
283	A12 Electrical Switch Room Domestic Departures	MDB 3-2/3-1 Emergency
284	Terminal 5 Domestic Arrivals	T5 SDB Reverse Baggage
285	Terminal 5 Domestic Arrivals	DB Link 1 Domestic Arrivals
286	Terminal 5 Domestic Arrivals	SDB T5 West
287	Terminal 5 Domestic Arrivals	DB SAP T5
288	Terminal 5 Domestic Arrivals	SDB Arrivals Foyer N/E
289	Terminal 5 LV Room	SDB - GBA/2E
290	Terminal 5 LV Room	SDB - GBA/2E Essential
291	Terminal 5 LV Room	SDB - GBA/2
292	Terminal 5 LV Room	Terminal 5 LT Arrivals DB
293	Terminal 5 LV Room	DB BAG
294	Terminal 5 LV Room	DB BAG E
295	Terminal 5 1st Floor Mezz	DB NF2
296	Terminal 5 1st Floor Mezz	DB BA Office
297	Terminal 5 1st Floor Mezz Passage	DBAF
298	Terminal 5 1st Floor Mezz	DB Kitchen
299	Terminal 5 1st Floor Mezz	DB Office
300	Terminal 5 1st Floor Mezz	SDB - 1BA 3 & 3E
301	Terminal 5 1st Floor Mezz	SDB - 1BA 1 & 1E
302	Terminal 5 Ground Floor	DB T5
303	T2 Meeters and Greeters near Vida	Restaurant DB
304	A3 Air Bridge	DB Loading
305	A4 Air Bridge	DB Bridges
306	Beneath A4 Airbridge	A1 DB
307	Beneath A3 Airbridge	A1 DB
308	International Service Passage	International Service Passage DB
309	International 1st Floor Passage WC/ UPS Room	Shops Lower
310	International 1st Floor Passage WC/ UPS Room	Shops Upper
311	International 1st Floor Passage WC/ UPS Room	DB Fed from Main Room South
312	International 1st Floor Passage WC/ UPS Room	Fed from UPS/A
313	International 1st Floor Passage WC/ UPS Room	Fed from UPS/B
314	A5 Air Bridge	DB.PBB.5
315	Beneath A5 Air Bridge	J1 DB

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ASSESSMENT, VERIFICATION AND CERTIFICATION OF LOW VOLTAGE (LV) ELECTRICAL INSTALLATIONS AT CAPE TOWN INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

316	A6 Air Bridge	DB.PBB.6
317	Beneath A6 Air Bridge	J1 DB
318	Airside Safety Office	DB G ACSA
319	CTB Baggage Hall	F10 Alpha Security DB
320	CTB Baggage Hall	MDB Baggage Sortation
321	CTB Baggage Hall Room	MDB G Baggage Area Normal
322	CTB Baggage Hall Room	MDB G Baggage Area Emergency
323	CTB Baggage Hall Room	HVAC AC MDB G North Emergency
324	CTB Baggage Hall Room	MDB Retail North UPS Input
325	CTB Baggage Hall Room	MDB Retail North UPS Output
326	CTB Baggage Hall Room	SUB DB Baggage Sortation
327	CTB Baggage Hall Room	1st Floor Parnis DB
328	CTB Baggage Hall Room	Ground floor Staff
329	CIP Lounge	CIP DB
330	Baggage Hall T5	MDB MM
331	Baggage Hall T5	SDB-GF
332	Baggage Hall T5	SDB-GFE
333	Baggage Hall T5	SDB T5 Baggage 2
334	Baggage Hall T5	DB - Domestic baggage hall
335	A7 Air Bridge	DB.PBB.7
336	Beneath A7 Air Bridge	J1 DB
337	Beneath A8 Air Bridge	J1 DB
338	Beneath A9 Air Bridge	J1 DB
339	Beneath A10 Air Bridge	J1 DB
340	T5 1st Floor Long Passage Domestic Arrivals	SDB 3-1/3
341	T5 1st Floor Long Passage Domestic Arrivals	SDB 3-1/2
342	T5 1st Floor Long Passage Domestic Arrivals	SDB 3-1/2
343	T5 Airside opp A12 Air Bridge	Small DB no name
344	SOB Airside SAA	DB - LG/A1.1 N/E
345	SOB Airside SAA	DB - LG/A1.2 N/E
346	SOB Airside Swissport	DB - LG/A1.3 N/E
347	SOB Airside Swissport (Kitchen)	DB - G/A2 N/E
348	SOB Airside Swissport (Kitchen 1st Floor)	DB - LG/A1 N/E
349	SOB Airside Bid air	DB - LG/B1.1 N/E
350	SOB Airside Bid air (Toilets)	DB - LG/B1 N/E
351	SOB Airside Menzies	DB - LG/B2 N/E
352	SOB Airside SAA Technical	DB - LG/B1.2 N/E
353	SOB Airside Departure Control (1st Floor)	DB - G/B2.1 N/E
354	SOB Airside Fly Safair	DB - LG/B1.5 N/E
355	SOB Airside SAA Express	DB - G/B2.2 N/E
356	SOB Airside	DB Below High Mast
357	T5 Electrical Room Substation	SDB GBA 1 & 1E
358	T5 Electrical Room Substation	T1 Main Switch 1F
359	T5 Electrical Room Substation	2F

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ASSESSMENT, VERIFICATION AND CERTIFICATION OF LOW VOLTAGE (LV) ELECTRICAL INSTALLATIONS AT CAPE TOWN INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

360	T5 Electrical Room Substation	3F
361	T5 Electrical Room Substation	4F
362	T5 Electrical Room Substation	Domestic S/S Main LV Ess DB
363	T5 Electrical Room Substation	5F
364	T5 Electrical Room Substation	6F
365	T5 Electrical Room Substation	7F
366	T5 Electrical Room Substation	8F
367	T5 Electrical Room Substation	9F
368	T5 Electrical Room Substation	10F
369	SOB 3rd Floor	DB - 3/C4 N/E
370	SOB 3rd Floor	DB - 3/D4 N/E
371	SOB 2nd Floor	DB - 2/C3 N/E
372	SOB 2nd Floor	DB - 2/D3 N/E
373	SOB 1st Floor	DB - 1/C2 N/E
374	SOB 1st Floor	DB - 1/D2 N/E
375	SOB Ground	DB - G/D1 N/E
376	SOB Ground	DB in Storeroom
377	SOB Substation LV Room	Main Circuit Breaker
378	SOB Substation LV Room	Normal Section
379	SOB Substation LV Room	Emergency Section
380	SOB Substation LV Room	Normal Local Section
381	SOB Substation LV Room	BMS
382	Fire Department	DB 3
383	Fire Department	DB 8
384	Fire Department	DB 9
385	Fire Department	DB 10
386	Fire Department	DB 7
387	Fire Department	DB 4
388	Fire Department	DB 2
389	Fire Department	DB 6
390	Fire Department	DB Smoke
391	Fire Department	DB 5
392	Fire Department	DB MCC 1
393	Fire Department Substation	DB1 Essential
394	Fire Department Substation	DB1 non-essential
395	Fire Department Substation	UPS DB
396	Fire Department Substation	DB UPS
397	Power and Lighting	SUB K1
398	Power and Lighting	SUB K2
399	Power and Lighting	SUB K3
400	Power and Lighting	Reception DB
401	Power and Lighting Substation	Local A/C & Mains Sensing
402	Power and Lighting Substation	Bypass Supply UPS 1
403	Power and Lighting Substation	Rectifier Input UPS 1

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ASSESSMENT, VERIFICATION AND CERTIFICATION OF LOW VOLTAGE (LV) ELECTRICAL INSTALLATIONS AT CAPE TOWN INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

404	Power and Lighting Substation	ATNS Supply
405	Power and Lighting Substation	Local CCR Power Distribution
406	Power and Lighting Substation	Airfield Lighting (Transformer 1)
407	Power and Lighting Substation	UPS Output to Buss
408	Power and Lighting Substation	Diesel Standby No 2
409	Power and Lighting Substation	Mains & UPS 1 Bus coupler
410	Power and Lighting Substation	Diesel Standby No 1
411	Power and Lighting Substation	Diesel Standby No 3
412	Power and Lighting Substation	Airfield Lighting (Transformer 2)
413	Power and Lighting Substation	Bus coupler 1
414	Power and Lighting Substation	Control Building
415	Power and Lighting Substation	Supply from Transformer 1
416	Power and Lighting Substation	bus coupler 2
417	Power and Lighting Substation	Supply from Transformer 2
418	Power and Lighting Substation	S.B. V.B. /K ESS
419	Power and Lighting Substation	S.B. V.B. K N/E
420	Power and Lighting Substation	AGL LV Panels
421	Parkade 1 Ground	SDB-Foyer
422	Parkade 1 Ground	SMDB-G5/E
423	Parkade 1 Ground	SMDB-G6/E
424	Parkade 1 Ground	SDB-Exit Plaza
425	Parkade 1 Ground	SMDB-G4/E
426	Parkade 1 Ground	SMDB-G3/E
427	Parkade 1 Ground	SMDB-G2/E
428	Parkade 1 Ground	SMDB-G1/E
429	Parkade 1 Ground	SDB-Vehicle Entrance
430	Parkade 1 Ground LV Switch Room	MDB UPS
431	Parkade 1 Ground LV Switch Room	Main Switch
432	Parkade 1 Ground LV Switch Room	MDB 1/E
433	Parkade 1 Ground LV Switch Room	Normal
434	Parkade 1 Ground LV Switch Room	Local Main
435	Parkade 1 Ground LV Switch Room	SDB General
436	Parkade 1 1st Floor	SDB-1.1 E
437	Parkade 1 1st Floor	SDB-1.2 E
438	Parkade 1 1st Floor	SDB-1.3 E
439	Parkade 1 1st Floor	SDB-1.4 E
440	Parkade 1 1st Floor	SDB-1.5 E
441	Parkade 1 1st Floor	SDB-1.6 E
442	Parkade 1 2nd Floor	SDB-2.1 E
443	Parkade 1 2nd Floor	SDB-2.2 E
444	Parkade 1 2nd Floor	SDB-2.3 E
445	Parkade 1 2nd Floor	SDB-2.4 E
446	Parkade 1 2nd Floor	SDB-2.5 E
447	Parkade 1 2nd Floor	SDB-2.6 E

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ASSESSMENT, VERIFICATION AND CERTIFICATION OF LOW VOLTAGE (LV) ELECTRICAL INSTALLATIONS AT CAPE TOWN INTERNATIONAL AIRPORT FOR A PERIOD OF 24 MONTHS

448	Parkade 1 3rd Floor	SDB-3.1 E
449	Parkade 1 3rd Floor	SDB-3.2 E
450	Parkade 1 3rd Floor	SDB-3.3 E
451	Parkade 1 3rd Floor	SDB-3.4 E
452	Parkade 1 3rd Floor	SDB-3.5 E
453	Parkade 1 3rd Floor	SDB-3.6 E
454	Parkade 1 4th Floor	SDB-4.1 E
455	Parkade 1 4th Floor	SDB-4.2 E
456	Parkade 1 4th Floor	SDB-4.3 E
457	Parkade 1 4th Floor	SDB-4.4 E
458	Parkade 1 4th Floor	SDB-4.5 E
459	Parkade 1 4th Floor	SDB-4.6 E
460	Parkade 1 4th Floor	SDB -Lift Core 1
461	Parkade 1 4th Floor	SDB -Lift Core 2
462	Parkade 1 4th Floor	SDB -Lift Core 3
463	Parkade 2 Ground	SDB-NG Foyer
464	Parkade 2 Ground	SMDB-NG1/NG1 E
465	Parkade 2 Ground	SMDB-NG2/NG2 E
466	Parkade 2 Ground	SMDB-SG1/SG1 E
467	Parkade 2 Ground	SMDB-SG2/SG2 E
468	Parkade 2 Ground LV Room	SDB General
469	Parkade 2 Ground LV Room	MDB UPS
470	Parkade 2 Ground LV Room	MDB 1F
471	Parkade 2 Ground LV Room	2F
472	Parkade 2 Ground LV Room	3F
473	Parkade 2 Ground LV Room	4F
474	Parkade 2 1st Floor	SDB S1.2/1.2 E
475	Parkade 2 1st Floor	SDB S1.1/1.1 E
476	Parkade 2 1st Floor	SDB N1.1/1.1 E
477	Parkade 2 1st Floor	SDB N1.2/1.2 E
478	Parkade 2 2nd Floor	SDB S2.2/2.2 E
479	Parkade 2 2nd Floor	SDB S2.1/2.1 E
480	Parkade 2 2nd Floor	SDB N2.1/2.1 E
481	Parkade 2 2nd Floor	SDB N2.2/2.2 E
482	Parkade 2 3rd Floor	SDB S3.2/3.2 E
483	Parkade 2 3rd Floor	SDB S3.1/3.1 E
484	Parkade 2 3rd Floor	SDB N3.1/3.1 E
485	Parkade 2 3rd Floor	SDB N3.2/3.2 E
486	Parkade 2 4th Floor	SDB S4.2/4.2 E
487	Parkade 2 4th Floor	SDB S4.1/4.1 E
488	Parkade 2 4th Floor	SDB N4.1/4.1 E
489	Parkade 2 4th Floor	SDB N4.2/4.2 E
490	Centurion Building	Centurion Building DB
491	G4S Control Room	G4S Control Room DB

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492	Back of G4S building	DB SOB Staff Parking
493	Super Care Office	Super Care Office DB
494	Subway 2	DB Subway 2
495	Subway 2	Pumpstation Panel
496	Parkade 4	Kiosk A
497	Parkade 3 Substation	SUB Main 1
498	Subway 1	DB Subway 1
499	Subway 1	Pumpstation Panel
500	Parkade 3	Kiosk B
501	Cargo Area Substation	All DB's
502	Terminal 5 Ground Floor	DB Bidvest Bank