



JOHANNESBURG DEVELOPMENT AGENCY (JDA)

KASERNE TAXI HOLDING FACILITY

CONTRACT No.: JDA INNER CITY RANKS/CN006

ISSUED BY: JOHANNESBURG DEVELOPMENT AGENCY The Bus Factory 3 President Street (Helen Joseph Street) NEWTOWN 2000 Contact Name: Celestine Mouton Telephone: 011 688 7851 Email: CMouton@jda.org.za 	PREPARED BY: KOOR DINDAR MOTHEI Oakhurst Office Park 11 St. Andrews Road Parktown 2193 Contact Name: Ismail Agjee Telephone: 011 689 5400 Email: ismail@kdm.co.za  KOOR DINDAR MOTHEI
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NAME OF TENDERER:

CIDB REGISTRATION NUMBER:

CSD SUPPLIER NUMBER:

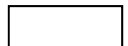
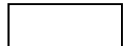
COMPANY REGISTRATION NUMBER:

TAX VERIFICATION PIN:

NB: FOR A TOTAL PRICE INCLUSIVE OF VALUE ADDED TAX, PLEASE REFER TO PART C1 (FORM OF OFFER AND ACCEPTANCE). PAGE 71

This tender close at 12h00 on 06 December 2019 at the offices of the Johannesburg Development Agency “The Bus Factory”, 3 Helen Joseph Street (formerly President Street), Newtown, Johannesburg.
NO LATE SUBMISSIONS WILL BE CONSIDERED

The Johannesburg Development Agency reserves the right to cancel/ not award this tender.



PROCUREMENT DOCUMENT FOR BUILDING CONSTRUCTION

GENERAL CONDITIONS OF CONTRACT (GCC) FOR CONSTRUCTION WORKS (2015) (Third Edition)

PLEASE NOTE: TENDERS MUST BE SUBMITTED ON THE TENDER DOCUMENTATION ISSUED. TENDER DOCUMENTATION MUST NOT BE REPRODUCED OR REARRANGED. ANY ADDITIONAL INFORMATION MUST BE SUBMITTED AS A SEPARATE ATTACHMENT TO THE TENDER DOCUMENT.

ALL PAGES OF THE SUBMISSION INCLUDING ATTACHMENTS MUST BE INITIALED AND NUMBERED.

TO ALL OUR STAKEHOLDERS

RE: THE CHANNELS OF REPORTING FRAUDULENT AND CORRUPT ACTIVITIES

The City of Johannesburg has a **zero-tolerance approach to Fraud, Theft, Corruption, Maladministration, and Collusion** by suppliers with employees. To reinforce this commitment, more channels have been added to report any Fraudulent and Corrupt activities.

Instances of corporate fraud and misconduct remain a constant threat to service delivery. The City of Johannesburg took a resolution to adopt strategic interventions aimed at combatting fraud and corruption. The City took a decision to centralize the reporting of fraudulent and corrupt activities through the establishment of an independent fraud hotline which is managed by independent service providers

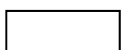
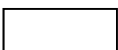
All people doing business with the Johannesburg Development Agency are encouraged to report any corrupt or illegal practice.

Anyone can report fraudulent and corrupt activities through one of the following channels.

- Toll free number.....0800 002 587
- Toll free Fax.....0800 007 788
- SMS (charged @ R1.50).....32840
- E-Mail address:.....anticorruption@tip-offs.com
- Website:.....www.tip-off.com
- Free post:.....Free Post, KNZ 138, Umhlanga, 4320



LET'S JOIN HANDS TO TAKE UP THE FIGHT AGAINST FRAUD AND CORRUPTION IN OUR SOCIETY.



SUPPLIERS DATABASE REGISTRATION

National Treasury launched the National Central Supplier Database (NCSD) with effect from 1 September 2015.

This will enable prospective suppliers to register their companies on the following website www.csd.gov.za

Transitional Period (1 September 2015 to 30 June 2016)

1. During the transitional period suppliers are requested to register on the website where all their essential information such as Tax Clearance Certificates, VAT, Company Registration Numbers and CIPC business status will be verified.
2. When conducting business with the JDA, you will be requested to provide us with the following:
 - Supplier Number and;
 - Supplier Registration Security Code so we can print your real-time information;
 - Banking details with bank Stamp and;
 - Certified BBBEE Certificate.

Once a supplier has registered on NCSD, it will no longer be a requirement to provide the JDA with an Original Tax Clearance Certificate or any other registration documents.

After Transitional Period 1 July 2016

Effective 1 July 2016, the JDA will only award business to suppliers who are registered on NCSD and suppliers will no longer be required to provide information as stipulated above.

For more information on registration, please:

Ms. Kgadi Mphela on 011 688 7851

NOTES TO TENDERERS:

1. The Tender Document available for download contains the following:
 - The Full Tender Document including the Bill of Quantities
 - The returnables
 - Appendices

2. Submission of tender – The following needs to be submitted in a neatly bound file (each and every page of the submission, including attachments, must be initialled and numbered by the tenderer) and in the following order:
 - Cover page
 - All returnables, and
 - Supporting documentation including the priced Bill of Quantities
 - Completed priced Bill of Quantities in excel format (on CD)The above will form part of the Contract document.

The tenderer is to submit the original plus one (1) hard copy of the entire tender submission as detailed, plus electronic copy of priced BOQ in excel format. The hard copy written BOQ will however take precedence over the electronic copy.

PLEASE NOTE: TENDERS MUST BE SUBMITTED ON THE TENDER DOCUMENTATION ISSUED. TENDER DOCUMENTATION MUST NOT BE REPRODUCED OR REARRANGED. ANY ADDITIONAL INFORMATION MUST BE SUBMITTED AS A SEPARATE ATTACHMENT TO THE TENDER DOCUMENT.

JOHANNESBURG DEVELOPMENT AGENCY

KASERNE TAXI HOLDING FACILITY

CONTRACT No.: JDA INNER CITY RANKS/CN006

Contents

Number Heading

THE TENDER

Part T1: Tendering Procedures

T1.1	Tender Notice and Invitation to Tender	(White)
T1.2	Tender Data	(Pink)

Part T2: Returnable Documents

T2.1	List of Returnable Schedules and Documents	(Yellow)
T2.2	Returnable Schedules and Documents	(Yellow)

THE CONTRACT

Part C1: Agreement and Contract Data

C1.1	Form of Offer and Acceptance	(Yellow)
C1.2	Contract Data	(Yellow)
C1.3	Construction Guarantee	(White)
C1.4	Occupational Health and Safety Agreement	(White)
C1.5	Agreement in terms of Section 37 (2) of the Occupational Health and Safety Act No 85 of 1993	(White)

Part C2: Pricing Data

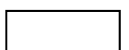
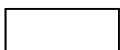
C2.1	Pricing Instructions	(White)
C2.2	Bills of Quantities	(White)

Part C3: Scope of Work

C3	Scope of Work	(Blue)
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Part C4: Site Information

C4	Site Information	(Green)
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TENDER DOCUMENT CHECKLIST

Tenderers must complete this document checklist to ensure that all information is completed in the Tender Document.

ITEMS

CHECKED

Contractor Project Manager

1. Correct Tender offer carried forward to the Cover Page and also the Form of Offer and Acceptance in Part C1.1	<input type="checkbox"/>	<input type="checkbox"/>
2. Tenderer's signature on the offer	<input type="checkbox"/>	<input type="checkbox"/>
3. Bill of Quantities	<input type="checkbox"/>	<input type="checkbox"/>
i Hard copy of BOQ completed in pen	<input type="checkbox"/>	<input type="checkbox"/>
ii Initialled on each page	<input type="checkbox"/>	<input type="checkbox"/>
iii Corrections crossed out and initialled	<input type="checkbox"/>	<input type="checkbox"/>
iv Electronic BOQ on CD	<input type="checkbox"/>	<input type="checkbox"/>
4. Returnable Documents and Schedules	<input type="checkbox"/>	<input type="checkbox"/>
i Authority to Sign Tender	<input type="checkbox"/>	<input type="checkbox"/>
ii Declaration of Interest	<input type="checkbox"/>	<input type="checkbox"/>
iii Record of Addenda to Tender Documents	<input type="checkbox"/>	<input type="checkbox"/>
iv Banking Details	<input type="checkbox"/>	<input type="checkbox"/>
v Proposed Amendments and Qualifications (if any)	<input type="checkbox"/>	<input type="checkbox"/>
vi Certificate of Authority for Joint Venture and Joint Venture Agreement (if applicable)	<input type="checkbox"/>	<input type="checkbox"/>
vii MBD 5: Declaration for Procurement above R10 million	<input type="checkbox"/>	<input type="checkbox"/>
viii MBD 8: Declaration of Bidder's Past Supply Chain Management Practices	<input type="checkbox"/>	<input type="checkbox"/>
ix MBD 9: Certificate of Independent Bid Determination	<input type="checkbox"/>	<input type="checkbox"/>
x Particulars of all Contracts awarded by an Organ of State during the last 5 years	<input type="checkbox"/>	<input type="checkbox"/>
xi Fulfilment of the Construction Regulations Questionnaire on Tenderer's Procedures with respect to OHSA and	<input type="checkbox"/>	<input type="checkbox"/>
xii Construction Regulations	<input type="checkbox"/>	<input type="checkbox"/>
xiii Business Declaration	<input type="checkbox"/>	<input type="checkbox"/>
xiv A copy of a valid Tax Compliance Status letter. No tender will be awarded to a bidder whose tax matters are not in order with the South African Revenue Service (SARS) at the time of award.	<input type="checkbox"/>	<input type="checkbox"/>
xv Declaration on State of Municipal Accounts and copy of current Municipal Account in the name of the Tenderer or alternatively in the names of the Directors/Partners of the tendering entity	<input type="checkbox"/>	<input type="checkbox"/>
xvi Letter of Intent from a Financial Institution to provide a Construction Guarantee in accordance with the GCC form (Refer C1.3)	<input type="checkbox"/>	<input type="checkbox"/>
xvii Proof of CIDB Grading	<input type="checkbox"/>	<input type="checkbox"/>
xviii A valid originally or certified copy of the B-BBEE status level verification certificate, substantiating the B-BBEE rating or an EME must submit a sworn affidavit,	<input type="checkbox"/>	<input type="checkbox"/>

		<input type="checkbox"/>	<input type="checkbox"/>
xix	Schedule of Recently Completed Contracts	<input type="checkbox"/>	<input type="checkbox"/>
xx	Schedule of Current Contracts	<input type="checkbox"/>	<input type="checkbox"/>
xxi	Schedule of Construction Plant, Equipment and labour	<input type="checkbox"/>	<input type="checkbox"/>
xxii	Schedule of Proposed Subcontractors	<input type="checkbox"/>	<input type="checkbox"/>
xxiii	Schedule of Proposed Key Personnel and detailed Curricula Vitae of all Key Personnel	<input type="checkbox"/>	<input type="checkbox"/>
xxiv	Estimated Monthly Expenditure	<input type="checkbox"/>	<input type="checkbox"/>
xxv	Methodology Statement	<input type="checkbox"/>	<input type="checkbox"/>
xxvi	Preliminary Construction Programme	<input type="checkbox"/>	<input type="checkbox"/>
xxvii	Labour, Plant and Equipment Histograms	<input type="checkbox"/>	<input type="checkbox"/>
xxviii	Audited Financial Statements for past 3 years	<input type="checkbox"/>	<input type="checkbox"/>
xxix	Bank Rating	<input type="checkbox"/>	<input type="checkbox"/>
xxx	SMME Plan	<input type="checkbox"/>	<input type="checkbox"/>
xxxi	COIDA Letter of Good Standing	<input type="checkbox"/>	<input type="checkbox"/>

PART T1: TENDERING PROCEDURES

T1.1: Tender Notice and Invitation to Tender

**KASERNE TAXI HOLDING FACILITY
CONTRACT No: JDA INNER CITY RANKS/CN006**

The Johannesburg Development Agency invites Bidders to submit bids for the construction of the Kaserne Taxi Holding Facility including civil works, traders stalls, seating areas, ablution facilities, offices and guardhouse

Bidders are to note that some of the work must be executed by emerging Local Contractors.

It is estimated that the bidders should have a CIDB contractor grading designation of a minimum 7CE (or higher).

Joint ventures are eligible to submit tenders provided that they satisfy criteria stated in the tender data.

Documents may be downloaded from the JDA's website as follows: www.jda.org.za as well as on www.etenders.gov.za from 06 November 2019.

SCM Queries relating to procurement matters may be addressed to Yandisa Dinga at tel.: (011) 688 7851; or e-mail: ydinga@jda.org.za; and / or Claudia Mahlaule at e-mail: CMahlaule@jda.org.za;

Technical queries or queries relating to the project may be addressed to Ms Celestine Mouton at (011) 688 7851; or e-mail: CMouton@jda.org.za.

A compulsory tender briefing session with representatives of the Employer will take place at the site on City and Suburban Road (Corner Maritzburg Street), next to the Old Kaserne Holding Facility, Marshalltown, Johannesburg (GPS Co-Ordinates: 26°12'32.81"S, 28° 3'35.03"E), on Wednesday 13 November 2019 starting at 10h00 until 11h00.

The closing time for receipt of tenders is 12h00 on 06 December 2019. Telegraphic, telephonic, telex, facsimile, e-mail and late tenders will not be accepted.

Tenders must only be submitted on the tender documentation that is downloaded from the stipulated websites. The retyping of the tender document is not permitted.

The physical address for the delivery of tender documents is Johannesburg Development Agency, Ground Floor Reception Area, The Bus Factory, 3 Helen Joseph Street (formerly President Street), Newtown 2000

Requirements for sealing, addressing, delivery, opening and assessment of tenders are stated in the Tender Data.

The JDA's selection of qualifying tenders will be at the JDA's sole discretion and will be final. The JDA does not bind itself to accept any particular tender. Correspondence will be entered into with the successful tenderer.

"WE ENCOURAGE ALL PEOPLE DOING BUSINESS WITH US TO REPORT ANY CORRUPT OR ILLEGAL PRACTICE, USING THE ANTI-FRAUD HOTLINE NUMBER: 0800 002 587"

PART T1: TENDERING PROCEDURES

T1.2 Tender Data

The Conditions of Tender are the Standard Conditions of Tender as contained in Annex F of the CIDB Standard for Uniformity in Construction Procurement, (July 2015) as published in Government Gazette No 38960, Board Notice 136 of 2015 of 10 July 2015. (See www.cidb.org.za).

The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the Standard Conditions of Tender.

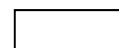
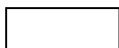
Each item of data given below is cross-referenced to the clause in the Standard Conditions of Tender to which it applies.

CLAUSE NUMBER	CLAUSE HEADLINE	DATA / WORDING
F.1.1	The Employer	Johannesburg Development Agency P. O. BOX 61877 MARSHALLTOWN, 2107
F.1.2	The Tender	PART T1: TENDERING PROCEDURES T1.1 Tender Notice and Invitation to Tender T1.2 Tender Data PART T2: RETURNABLE DOCUMENTS T2.1 List of Returnable Documents T2.2 Returnable Schedules
	The Contract	PART C1: AGREEMENTS AND CONTRACT DATA C1.1 Form of Offer and Acceptance C1.2 Contract Data C1.3 Construction Guarantee C1.4 Occupational Health and Safety Agreement
		PART C2: PRICING DATA C2.1 Pricing Instructions C2.2 Bill of Quantities
		PART C3: SCOPE OF WORK
		PART C4: SITE INFORMATION
F.1.4	Employer's Agent	Name: GIBB Address: Podium at Menlyn, 43 Ingersol Road Menlyn, 0102 Tel: 012 348 5880 Fax: 012 348 5878 E-mail: koberholzer@gibb.co.za

F.2.1	Eligibility	<p>Only those tenderers who are registered with the CIDB or are capable of being so prior to the evaluation of submissions, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered, are eligible to have their tenders evaluated.</p> <p>Joint ventures are eligible to submit tenders provided that:</p> <ol style="list-style-type: none"> 1. every member of the joint venture is registered with the CIDB; 2. the lead partner has a contractor grading designation of minimum 7CE (or higher) 3. the combined contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for an 7CE (or higher).
F.2.1	Eligibility	<p>Only those tenderers who have in their employ management and supervisory staff satisfying the requirements of the scope of work for labour intensive competencies for supervisory and management staff are eligible to submit tenders.</p>
F.2.7	Clarification Meeting	<p>A compulsory Tender Clarification Meeting with representatives of the Employer will take place on site at City and Suburban Road (Corner Maritzburg Street), next to the Old Kaserne Holding Facility, Marshalltown, Johannesburg (GPS Co-Ordinates: 26°12'32.68"S, 28° 3'35.29"E), on Wednesday 13 November 2019 starting at 10h00 until 11h00.</p> <p>Tenderers must sign the attendance list in the name of the tendering entity. ADDENDA WILL BE ISSUED TO AND TENDERS WILL BE RECEIVED ONLY FROM THOSE TENDERING ENTITIES APPEARING ON THE ATTENDANCE REGISTER.</p>
F.2.12	Alternative tender offers	<p>No alternative tender offers will be considered</p>
F.2.13.3	Number of copies of tender offers to be submitted to the Employer	<p>Parts of each tender offer communicated on paper shall be submitted as an original, plus one (1) copy.</p>
F.2.13.5 F.2.15.1	Sealing and Delivery of tender offers	<p>The Employer's details and address for delivery of tender offers and identification details that are to be shown on each tender offer package are:</p> <p>Location of tender box: Reception Desk of the Johannesburg Development Agency</p> <p>Physical address: The Bus Factory 3 Helen Joseph Street (formerly President Street) NEWTOWN JOHANNESBURG</p> <p>Identification details: <i>Tender reference</i> JDA INNER CITY RANKS/CN006 KASERNE TAXI HOLDING FACILITY</p>

		Closing Date: 06 December 2019 Time: 12h00
F.2. 13.9	Telephonic	Telephonic, telegraphic, telex, facsimile or e-mailed tender offers will NOT be accepted.
F.2. 15	Closing time of tender offers	The closing time for submission of tender offers is 12h00 on 06 December 2019 .
F.2. 16	Tender offer validity	The tender offer validity period is 120 days
F.2. 20	Letter of Intent	The tenderer is required to submit with his tender a letter of intent from an approved financial institution undertaking to provide the Construction Guarantee in the format included in Part C1.3 of this procurement document.
F.2. 23	Certificates	<p>The tenderer is required to submit with his tender:</p> <ul style="list-style-type: none"> a) A copy of a valid Tax Compliance Status letter. No tender will be awarded to a bidder whose tax matters are not in order with the South African Revenue Service (SARS) at the time of award. b) Tenderers must submit their original and valid B-BBEE status level verification certificate or a certified copy thereof, substantiating their B-BBEE rating. Certificates issued by either verification agencies accredited by the South African Accreditation System (SANAS) or by registered auditors approved by the Independent Regulatory Board for Auditors (IRBA) are acceptable. Copies must bear an original certification stamp. Failure to submit a B-BBEE status level certificate will result in the bidder scoring 0 points for B-BBEE". c) An EME must submit a sworn affidavit confirming the following: <ul style="list-style-type: none"> • Annual Turnover Revenue of R10 million or less; and • Level of Black ownership • Any misrepresentation in terms of the above constitutes a criminal offence as set out in the B-BBEE Act as amended. d) Documents and Schedules listed in Part T2.
F.3. 4	Opening of tender submissions	Tenders will be opened immediately after the closing time at 12h00 on 06 December 2019 .
F.3. 11.3	Evaluation of Tender Offers	<p>The procedure for the evaluation of responsive tenders is Method 2 (Price and Preferences) having completed a technical evaluation.</p> <p>The Preference Point System assigns a score to each tenderer based on the tender price and on the tenderer's B-BBEE status. These scores are combined to determine an overall score for the tender. The tenderer with the highest score will be considered for acceptance.</p> <p>The Preference Point System will be applied as follows.</p> <p>For tenders below R50 million</p> <p>80 points are assigned to price</p> <p>Up to 20 points are assigned to B-BBEE status</p> <p>Points scored will be rounded off to the nearest 2 decimal places.</p>

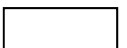
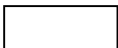
Technical Evaluation	KEY RETURNABLE DOCUMENTS (Total 40 points)				
		Total Points	Criteria	Description of criteria	Points
	Key returnable documents 40		Project specific SMME Plan addressing the following 5 items: (i) how quality will be controlled, (ii) how the scope of works will be scheduled (programme), (iii) how will skills be transferred, (iv) how will reporting to the client be done (content of reports, frequency etc.), (v) a comprehensive list of all bill items which are to be allocated to SMME's equivalent to 30% of the Offer Price. Tenderers are to demonstrate the list of items allocated to SMME's by highlighting the SMME rates in yellow on the excel version of the BOQ. Failure to achieve a minimum of 30% will result in zero points.	Quality control	1
				Scheduling	1
				Skills transfer	1
				Client reporting	1
				SMME bill items	27
				Failure to address an item in the SMME plan will result in a zero score for that item	
			OHS Plan addressing the following 3 items: (i) a site specific health and safety plan (SSHSP) which outlines the precautions and H&S considerations for all trades / activities to be performed on site, (ii) a H&S	SSHSP	3
				H&S Management Plan	3
				Risk Methodology	3
				Failure to address an item in the OHS plan will result in a zero score for that item	



	<p>management plan which includes a project specific organogram for the onsite health and safety team outlining their written appointments and responsibilities and (iii) a risk methodology which includes a baseline risk assessment and policies to be established and maintained.</p>		
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COMPANY PREVIOUS EXPERIENCE (Total 100 points)

	Total Points	Criteria	Description of criteria	Points
<p>Contactable references for civil projects (such as roadworks, public environment upgrades which include earthworks) above R18m completed in the past five years per completed Form/s B3</p>	<p>Total Points 100</p>		<p>Description of criteria Points will only be allocated for references provided on Form/s B3 and which confirm experience on civil projects (such as roadworks, public environment upgrades which include earthworks) of R18m or more completed in the past five years</p> <p>ONLY fully completed Form/s B3 which meet the minimum requirements will be accepted as references for previous experience. If <u>any</u> of the required</p>	
		<p>5 satisfactory project references</p>		<p>100</p>
		<p>3 to 4 satisfactory project references</p>		<p>70</p>



			information does not appear on Form B3, zero points will be awarded.	
		1 to 2 satisfactory project references	Description of criteria	30

CAPABILITY OF PROPOSED TEAM (Total 150 points)

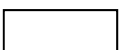
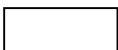
	Total Points	Criteria	Description of criteria	Points
Experience of the contracts manager identified in Form B7	30	A minimum of 10 years of experience as a contracts manager on civil projects (such as roadworks, public environment upgrades which include earthworks) with a minimum value of R18m	<p>Points will only be allocated for 10 years or more of experience as a contracts manager on civil projects (such as roadworks, public environment upgrades which include earthworks) with a minimum value of R18m.</p> <p>The following information must therefore be provided in the CV as evidence of the above requirements in order to obtain the points :</p> <ol style="list-style-type: none"> 1. name and description of project, 2. value, 3. role played, and 4. year (start and end date) <p>If any of the required information does not appear in the CV and the minimum criteria are not met, zero points will be awarded.</p>	20

		A built environment qualification (Minimum BTech) and must be registered with SACPCMP.	Certified proof of qualification must be provided in order to obtain the points	10	
	Experience of the site agent identified in Form B7	50	A minimum of 10 years of experience as a site agent on civil projects (such as roadworks, public environment upgrades which include earthworks) with a minimum value of R18m	Points will only be allocated for 10 years or more of experience as a site agent on civil projects (such as roadworks, public environment upgrades which include earthworks) with a minimum value of R18m.. The following information must therefore be provided in the CV as evidence of the above requirements in order to obtain the points : 1. name and description of project, 2. value, 3. role played, and 4. year (start and end date) If any of the required information does not appear in the CV and the minimum criteria are not met, zero points will be awarded.	40
			A built environment qualification (Minimum NDip)	Certified proof of the qualification must be provided in order to obtain the points.	10

CAPABILITY OF PROPOSED TEAM (Total 150 points)

	Total Points	Criteria	Description of criteria	Points
Experience of the general foreman identified in Form B7	30	A minimum of 7 years of experience as a general foreman on civil projects (such as roadworks, public environment upgrades which include earthworks).	<p>Points will only be allocated for 7 years or more of experience as a general foreman on civil projects (such as roadworks, public environment upgrades which include earthworks).</p> <p>The following information must therefore be provided in the CV as evidence of the above requirements in order to obtain the points :</p> <ol style="list-style-type: none"> 1. name and description of project, 2. value, 3. role played, and 4. year (start and end date) <p>If <u>any</u> of the required information does not appear in the CV and if the minimum criteria are not met, zero points will be awarded.</p>	30

		<p>Experience of the CHS officer identified in Form B7</p>	<p>20</p>	<p>Registered as a CHS Officer with the SACPCMP and with 5 years of experience in the built environment.</p>	<p>Points will only be allocated if registered as a CHS officer with SACPCMP and has 5 years or more of experience as a CHS officer in the built environment.</p> <p>The following information must therefore be provided in the CV as evidence of the above requirements in order to obtain the points :</p> <ol style="list-style-type: none"> 1. name and description of project, 2. value, 3. role played, and 4. year (start and end date) <p>If any of the required information does not appear in the CV and if the minimum criteria are not met, zero points will be awarded.</p>	<p>10</p>	
				<p>Registration with SACPCMP as a CHS Officer</p>	<p>A valid Privy-Seal SACPCMP certificate must be attached (Expired certificates not accepted) in order to obtain the points</p>	<p>10</p>	



		<p>Experience of the SMME supervisor identified in Form B7</p>	<p>20</p>	<p>A minimum of 5 years of experience in a construction supervisory role on civil projects (such as roadworks, public environment upgrades which include earthworks).</p>	<p>Points will only be allocated for 5 years or more of experience in a construction supervisory role on civil projects (such as roadworks, public environment upgrades which include earthworks).</p> <p>The following information must therefore be provided in the CV as evidence of the above requirements in order to obtain the points :</p> <ol style="list-style-type: none"> 1. name of project, 2. value, 3. role played, and 4. year <p>If any of the required information does not appear in the CV and the minimum criteria are not met, zero points will be awarded.</p>	<p>20</p>	
<p>Tenderers will be required to achieve a minimum score of 203 (70%) points out of a possible 290 points in the technical evaluation in order to be considered further in the evaluation process.</p>							
<p>Compliance / Disqualification Criteria</p>	<p>BIDDERS WILL BE DISQUALIFIED FOR:</p> <ul style="list-style-type: none"> • FAILURE TO COMPLETE AND SIGN THE OFFER PAGE; • FAILURE TO COMPLETE AND SUBMIT A PRICED BILL OF QUANTITIES IN FULL; • FAILURE TO DULY COMPLETE FORM A3 (WHERE REQUIRED) THAT INCLUDES FOR ANY ADDENDA THAT MAY HAVE BEEN ISSUED WHERE SUCH ADDENDA HAS A MATERIAL EFFECT ON THE PRICING OF THE TENDER; • FAILURE TO BE REGISTERED AND ACTIVE WITH CIDB ON THE RELEVANT GRADING; • FAILURE TO ATTEND THE COMPULSORY SITE BRIEFING SESSION; • COMPLETING TENDER DOCUMENT IN PENCIL; • IN THE CASE OF A BIDDER WHO DURING THE LAST FIVE YEARS HAS BEEN TERMINATED ON PREVIOUS CONTRACTS WITH THE JDA 						
<p>Price and Preference</p>	<p>Having completed a technical evaluation, the procedure for the evaluation of technically qualifying tenders is Method 2 (Price and Preferences).</p> <p>The Preference Point System assigns a score to each tenderer based on the tender price and on the tenderer's B-BBEE status. These scores are combined to determine an overall score for the tender. The tenderer with the highest score will be considered for acceptance.</p> <p>The Preference Point System will be applied as follows:</p>						

For tenders up to R50 million
 80 points are assigned to price
 Up to 20 points are assigned to B-BBEE status per the table below
 Points scored will be rounded off to the nearest 2 decimal places.

FORMULA FOR SCORING TENDER PRICE

The following formula will be used to calculate the points for price.

$$P_s = X \left[1 - \frac{(P_t - P_{min})}{P_{min}} \right]$$

Where

P_s = Points scored for comparative price of tender under consideration

P_t = Comparative price of tender under consideration

P_{min} = Comparative price of lowest acceptable tender

X = Points assigned to price

POINTS AWARDED FOR B-BBEE STATUS LEVEL

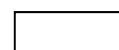
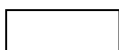
Points will be awarded for empowerment (BBBEE), in accordance with the Preferential Procurement Regulations 2017 published in Government Gazette No. 40553 dated 20 January 2017. The table overleaf is applicable in this regard:

The following table is applicable.

B-BBEE Status Level Of Contributor	Number of Points
	Tenders up to R50 million
1	20
2	18
3	14
4	12
5	8
6	6
7	4
8	2
Non-Compliant contributor	0

Notes:

1. "B-BBEE status level of contributor" means the B-BBEE status received by a measured entity based on its overall performance using the relevant scorecard contained in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act (Act No.53 of 2003).
2. Tenderers must submit their original and valid B-BBEE status level verification certificate or a certified copy thereof, substantiating their B-BBEE rating. Certificates issued by either verification agencies accredited by the South African Accreditation System (SANAS) or by registered auditors approved by the Independent Regulatory Board for Auditors (IRBA) are acceptable. Copies must bear an original certification stamp. **FAILURE TO SUBMIT A B-BBEE STATUS LEVEL CERTIFICATE WILL RESULT IN THE BIDDER SCORING 0 POINTS FOR B-BBEE".**
3. An EME must submit a sworn affidavit confirming the following:
 - Annual Turnover Revenue of R10 million or less; and
 - Level of Black ownership
 - Any misrepresentation in terms of the above
 constitutes a criminal offence as set out in the B-BBEE Act as amended.
 Bidders with annual total revenue of R5 million or less qualify as Exempted and must submit a certificate issued by a registered auditor, accounting officer or an accredited verification agency.
 The submission of such certificates must comply with the requirements of instructions and guidelines issued by the National Treasury and be in accordance with notices published by the Department of Trade and Industry in the Government Gazette.
4. A trust, consortium or joint venture will qualify for points for their B-BBEE status level as a legal entity, provided that the entity submits their B-BBEE status level certificate.



		<p>5. A trust, consortium or joint venture will qualify for points for their B-BBEE status level as an unincorporated entity, provided that the entity submits their consolidated B-BBEE scorecard as if they were a group structure and that such a consolidated B-BBEE scorecard is prepared for every separate tender.</p> <p>6. A person will not be awarded points for B-BBEE status level if it is indicated in the tender documents that such a tenderer intends sub-contracting more than 25% of the value of the contract to any other enterprise that does not qualify for at least the points that such a tenderer qualifies for.</p> <p>7. A person awarded a contract will not be permitted to sub-contract more than 25% of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level than the person concerned.</p> <p>TOTAL PREFERENCE POINTS The total preference points for a tender are calculated with the formula $PP = P_s + P_{bee}$ where PP is the total number of preference points scored by the tenderer P_s is the points scored for the comparative price of the tenderer, and P_{bee} is the number of points awarded to the tenderer based on his certified B-BBEE status level</p>
	<p>Risk Tolerance</p>	<p>RISK TOLERANCE FRAMEWORK The JDA has adopted a Risk Tolerance Framework (RTF) which enjoins the JDA to consider its risk exposure to contractors/Service Providers in terms of the number of contracts awarded to a single Contractor/service provider or the total value of contracts awarded to a single contractor/service provider in a particular year. In terms of the Risk Tolerance Framework, the JDA determine the risk exposure as excessive in instances where the value of the contracts is: 1) The greater of R80 million or four contracts/ projects in the current financial year or 2) The greater of R120 million or six contracts/projects over two financial years (current year and previous financial year). A risk analysis shall be undertaken on the bidder with the highest number of points obtained, to determine whether the tenderer does not exceed the JDA's risk framework criteria as stated above, in other words whether it falls within the ambit of the Risk Tolerance Framework as acceptable. JDA reserves the right to award a contract to a bidder who has exceeded the threshold as stated above.</p>
		<p>Shortlisted bidders may be requested to attend interviews should there be any need for clarity. Unsuccessful bidders will have the opportunity to query the award or decision within 14 days from the day of notification. Bidders are to note that JDA does not bind itself to accept the lowest priced bid.</p>
	<p>Conditions of contract award</p>	<p>Contracts will only be awarded if:</p> <ol style="list-style-type: none"> A copy of a valid Tax Compliance Status letter. No tender will be awarded to a bidder whose tax matters are not in order with the South African Revenue Service (SARS) at the time of award. the tenderer submits a letter of intent from an approved financial institution undertaking to provide the Construction Guarantee in the format included in Part C1.3 of this procurement document; the tenderer is registered with the Construction Industry Development Board in an appropriate contractor grading designation; the tenderer or any of its directors/shareholders is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector; the tenderer has not: <ol style="list-style-type: none"> abused the Employer's Supply Chain Management System; or failed to perform on any previous contract and has been given a written notice to this effect; the tenderer has completed the Declaration of Interest and there are no conflicts of interest which may impact on the tenderer's ability to perform the contract in the best interests of the employer or potentially compromise the tender process. the tenderer is registered and in good standing with the compensation fund or with a licensed compensation insurer; the employer is reasonably satisfied that the tenderer has in terms of the Construction Regulations, 2014, issued in terms of the Occupational Health and Safety Act, 1993, the necessary competencies and resources to carry out the work safely. The tendering entity or the directors/partners of the tendering entity are in good standing with the local authority/municipality.

		<ul style="list-style-type: none"> j) No tender will be awarded to a bidder not registered on the National Treasury Central Supplier Database (CSD) k) Contracts Manager & OHS officer must be registered with SACPCMP at the time of award l) No tender will be awarded to a bidder who does not have a valid COIDA Letter of Good Standing
<p>F.3. 18</p>	<p>Number of Paper Copies</p>	<p>The number of paper copies of the signed contract to be provided by the employer is 1 (one).</p>

T2.1 LIST OF RETURNABLE DOCUMENTS

T2.1.1 Returnable Schedules required

The tenderer must complete the following returnable schedules

- Form A1:** Authority to sign Tender
- Form A2:** Declaration of Interest
- Form A3:** Record of Addenda to Tender Documents
- Form A4:** Banking Details
- Form A5:** Proposed Amendments and Qualifications (if any)
- Form A6:** Certificate of Authority for Joint Venture and Joint Venture Agreement (if applicable)
- Form A7:** MBD9 Certificate of Independent Bid Determination
- Form A8:** Particulars of any contracts awarded by an organ of state during the last 5 years
- Form A9:** Fulfilment of the Construction Regulations
- Form A10:** Questionnaire on tenderer's procedures with respect to OHSWA and Construction Regulations
- Form A11:** Business Declaration
- Form A12:** A copy of a valid Tax Compliance Status letter
- Form A13:** Declaration on State of Municipal Accounts and copy of current Municipal Account in the name of the Tenderer or alternatively in the names of the Directors/Partners of the tendering entity
- Form A14:** Letter of Intent from a Financial Institution to provide a Construction Guarantee in accordance with the GCC pro-forma for a project up to 10% of the tender amount (refer C1.3)
- Form A15:** MBD5 Declaration for Procurement above R10 million (Vat Included)
- Form A16:** MBD8 Declaration of Bidders Past Supply Chain Management Practices
- Form B1:** Proof of CIDB Grading
- Form B2:** A valid originally or certified copy of the B-BBEE status level verification certificate, substantiating the B-BBEE rating or an EME must submit a sworn affidavit
- Form B3:** Proof of Previous Experience
- Form B4:** Schedule of Current Contracts
- Form B5:** Schedule of Construction Plant, Equipment and Labour
- Form B6:** Schedule of Proposed Subcontractors
- Form B7:** Schedule of Proposed Key Personnel and detailed CV's of all key personnel
- Form B8:** Estimated Monthly Expenditure
- Form B9:** Methodology Statement
- Form B10:** Preliminary Construction Programme
- Form B11:** Labour, Plant and Equipment Histograms
- Form B12:** Audited Financial Statements for past 3years
- Form B13:** Bank Rating
- Form B14:** SMME Plan
- Form B15:** COIDA Letter of Good Standing
- Form B16:** Bills of Quantities

T2.1.2 Returnable Documents and Schedules required for tender evaluation purposes

- Form of Offer and Acceptance
- Priced Bill of Quantities
- Form A3: Record of Addenda to Tender Documents (if applicable)
- Form A14: Letter of Intent from a Financial Institution to provide a Construction Guarantee in accordance with the GCC pro-forma for a project value equivalent to a CIDB 8 grading (refer C1.3)
- Form B2: A valid originally or certified copy of the B-BBEE status level verification certificate, substantiating the B-BBEE rating or an EME must submit a sworn affidavit
- Form B3: Proof of Previous Experience
- Form B7: Schedule of Proposed Key Personnel and detailed CV's of all key personnel
- Form B14: SMME Plan
- Form B15: COIDA Letter of Good Standing

T2.1.3 Documents that will be incorporated into the contract document

- Form of Offer and Acceptance
- Contract Data
- Pricing Instructions
- Priced Bills of Quantities
- Occupational Health and Safety Agreement (C1.4)
- Agreement in terms of Section 37(2) of the Occupational Health and Safety Act No 85 of 1993 (C1.5)
- Approved construction programme
- Specifications
- Scope of works
- Site Information
- Approved schedule of subcontractors
- Approved schedule of key personnel with CV's
- Approved monthly expenditure
- Approved Occupational Health and Safety (OHS) Plan
- Approved SMME Plan
- COIDA Letter of Good Standing

T2.1.4 The preferred bidder will be required to submit the following documents, for approval by the JDA and its agents, prior to award of the Tender:

- Schedule of proposed sub-contractors
- Estimated monthly expenditure
- Methodology statement
- Detailed construction programme
- Labour, plant and equipment histograms
- A project specific OHS plan
- All relevant Construction guarantees and insurances
- SMME Plan

T2.2 RETURNABLE SCHEDULES AND DOCUMENTS

T2.2.1 Returnable Schedules required for tender evaluation purposes

Form A1:	Authority to sign Tender
Form A2:	Declaration of Interest
Form A3:	Record of Addenda to Tender Documents
Form A4:	Banking Details
Form A5:	Proposed Amendments and Qualifications (if any)
Form A6:	Certificate of Authority for Joint Venture and Joint Venture Agreement (if applicable)
Form A7:	MBD9 Certificate of Independent Bid Determination
Form A8:	Particulars of any contracts awarded by an organ of state during the last 5 years
Form A9:	Fulfilment of the Construction Regulations
Form A10:	Questionnaire on tenderer's procedures with respect to OHS and Construction Regulations
Form A11:	Business Declaration
Form A12:	A copy of a valid Tax Clearance Certificate and/or Tax Pin Number.
Form A13:	Declaration on State of Municipal Accounts and copy of current Municipal Account in the name of the Tenderer or alternatively in the names of the Directors/Partners of the tendering entity
Form A14:	Letter of Intent from a Financial Institution to provide a Construction Guarantee in accordance with the GCC pro-forma (refer C1.3)
Form A15:	MBD5 Declaration for Procurement above R10 million (Vat Included)
Form A16:	MBD8 Declaration of Bidders Past Supply Chain Management Practices
Form B1:	Proof of CIDB Grading
Form B2:	A valid originally certified copy of the B-BBEE status level verification certificate, substantiating the B-BBEE rating or An EME must submit a sworn affidavit
Form B3:	Proof of Previous Experience
Form B4:	Schedule of Current Contracts
Form B5:	Schedule of Construction Plant, Equipment and Labour
Form B6:	Schedule of Proposed Subcontractors
Form B7:	Schedule of Proposed Key Personnel and detailed CV's of all key personnel
Form B8:	Estimated Monthly Expenditure
Form B9:	Methodology Statement
Form B10:	Preliminary Construction Programme
Form B11:	Labour, Plant and Equipment Histograms
Form B12:	Audited Financial Statements for past 3 years
Form B13:	Bank Rating
Form B14:	SMME Plan
Form B15:	COIDA Letter of Good Standing
Form B16:	Bills of Quantities

FORM A1: AUTHORITY TO SIGN TENDER

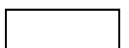
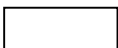
Notes to tenderer:

1. The signatory for the tenderer shall confirm his/her authority thereto by attaching on the tendering company's letterhead a duly signed and dated copy of the relevant resolution of the board of directors/partners.
2. In the event that the tenderer is a joint venture, a certificate is required from each member of the joint venture clearly setting out:
 - authority for signatory,
 - undertaking to formally enter into a joint venture contract should an award be made to the joint venture,
 - name of designated lead member of the intended joint venture, as required by tender condition F.2.13.4.

.....
SIGNATURE

(of person authorised to sign on behalf of the Tenderer)

.....
DATE



FORM A2: DECLARATION OF INTEREST

- 1. No bid will be accepted from persons in the service of the state¹.

- 2. Any person, having a kinship with persons in the service of the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to persons in service of the state, it is required that the bidder or their authorised representative declare their position in relation to the evaluating/adjudicating authority.

- 3. In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.
 - 3.1 Full Name of bidder or his or her representative:
 - 3.2 Identity Number:
 - 3.3 Position occupied in the Company (director, trustee, shareholder):
 - 3.4 Company Registration Number:
 - 3.5 Tax Reference Number:.....
 - 3.6 VAT Registration Number:
 - 3.7 The names of all directors / trustees / shareholders / members, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below.
 - 3.8 Are you presently in the service of the state? **YES / NO**
If yes, furnish particulars.....
.....
 - 3.9 Have you been in the service of the state for the past twelve months? **YES / NO**
If yes, furnish particulars.....
.....
 - 3.10 Do you have any relationship (family, friend, other) with persons in the service of the state and who may be involved with the evaluation and or adjudication of this bid? **YES / NO**
If yes, furnish particulars.....
.....
 - 3.11 Are you, aware of any relationship (family, friend, other) between any other bidder and any persons in the service of the state who may be involved with the evaluation and or adjudication of this bid? **YES / NO**
If yes, furnish particulars.....
.....
 - 3.12 Are any of the company's directors, trustees, managers, principle shareholders or stakeholders in service of the state? **YES / NO**
If yes, furnish particulars.....
.....

3.13 Are any spouse, child or parent of the company’s directors, trustees, managers, principle shareholders or stakeholders in service of the state? **YES / NO**
 If yes, furnish particulars.....

3.14 Do you or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company have any interest in any other related companies or business whether or not they are bidding for this contract. **YES / NO**
 If yes, furnish particulars.....

4. Full details of directors / trustees / members / shareholders.

FULL NAME	IDENTITY NUMBER	STATE EMPLOYEE NUMBER

CERTIFICATION

I, THE UNDERSIGNED (FULL NAME)
 CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM IS TRUE AND CORRECT.
 I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT, ACTION MAY BE TAKEN AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
 Signature

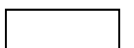
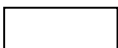
.....
 Position

.....
 Name of Bidder

.....
 Date

- * MSCM Regulations: "in the service of the state" means to be –
- (a) a member of –
 - (i) any municipal council;
 - (ii) any provincial legislature; or
 - (iii) the national Assembly or the national Council of provinces;
 - (b) a member of the board of directors of any municipal entity;
 - (c) an official of any municipality or municipal entity;
 - (d) an employee of any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No.1 of 1999);
 - (e) a member of the accounting authority of any national or provincial public entity; or
 - (f) an employee of Parliament or a provincial legislature.

** "Stakeholder" means a person who owns shares in the company and is actively involved in the management of the company or business and exercises control over the company.



FORM A4: BANKING DETAILS

I/We hereby authorise the Employer to approach the following bank for the purposes of obtaining a financial reference:

DESCRIPTION OF BANK DETAIL	BANK DETAILS APPLICABLE TO TENDERER'S HEAD OFFICE
Name of Bank	
Branch Name	
Branch Code	
Street Address	
Postal Address	
Name of Manager	
Telephone Number	
Fax Number	
Account Number	

.....
SIGNATURE
(of person authorised to sign on behalf of the Tenderer)

.....
DATE

JOHANNESBURG DEVELOPMENT AGENCY (JDA)

FORM A6: CERTIFICATE OF AUTHORITY FOR JOINT VENTURE (IF APPLICABLE)

This Returnable Schedule is to be completed by joint ventures.

We, the undersigned, are submitting this tender offer in Joint Venture and hereby authorise Mr/Ms, authorised signatory of the company, acting in the capacity of lead partner, to sign all documents in connection with the tender offer and any contract resulting from it on our behalf.

NAME OF FIRM	PERCENTAGE PARTICIPATION	ADDRESS	DULY AUTHORISED SIGNATORY
Lead Partner CIDB registration no:			Signature: Name: Designation:
Partner CIDB registration no:			Signature: Name: Designation:
Partner CIDB registration no:			Signature: Name: Designation:

.....

SIGNATURE

DATE

(of person authorised to sign on behalf of the Tenderer)

JDA GCC

JOHANNESBURG DEVELOPMENT AGENCY (JDA)

FORM A7: CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

(Bid Number and Description)

in response to the invitation for the bid made by:

JOHANNESBURG DEVELOPMENT AGENCY

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of: _____ that:
(Name of Bidder)

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign, the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
 - (a) has been requested to submit a bid in response to this bid invitation;
 - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices;
 - (b) geographical area where product or service will be rendered (market allocation)
 - (c) methods, factors or formulas used to calculate prices;
 - (d) the intention or decision to submit or not to submit, a bid;
 - (e) the submission of a bid which does not meet the specifications and conditions of the bid; or

- (f) bidding with the intention not to win the bid.
- 8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No. 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No. 12 of 2004 or any other applicable legislation.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

FORM A8: PARTICULARS OF ALL CONTRACTS AWARDED BY AN ORGAN OF STATE DURING THE LAST 5 YEARS

(In the event of insufficient space, kindly attach documentation)

EMPLOYER	CONSULTING ENGINEER	NATURE OF WORK	VALUE OF WORK	YEAR OF COMPLETION

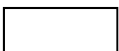
FORM A8 (Continued)

.....
SIGNATURE
(of person authorised to sign on behalf of the Tenderer)

.....
DATE

Organ of State means-

- a) a national or provincial department;
- b) a municipality;
- c) a constitutional institution defined in the Public Finance Management Act, 1999 (Act No. 1 of 1999);
- d) Parliament;
- e) a provincial legislature;
- f) any other institution or category of institutions included in the definition of "organ of state" in section 239 of the Constitution and recognised by the [Minister](#) by notice in the *Government Gazette* as an institution or category of institutions to which [this Act](#) applies;



FORM A9: FULFILMENT OF THE CONSTRUCTION REGULATIONS, 2014

In terms of regulation 5 of the Construction Regulations, 2014 (hereinafter referred to as the Regulations), promulgated on 7 February 2014 in terms of Section 43 of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993) prior to appointing a Contractor in accordance with CR5(1)(k), the Employer must:

- CR5(1)(g) Ensure that potential Principal Contractors submitting tenders have made adequate provision for the cost of health and safety measures and;
- CR5(1)(g) Ensure that the Principal Contractor to be appointed has the necessary competencies and resources to carry out construction safely

The Employer shall not appoint a contractor to perform construction work unless the Contractor can satisfy the Employer that his/her firm has the necessary competencies and resources to carry out the work safely and has allowed adequately in his/her tender for the due fulfilment of all the applicable requirements of the Act and the Regulations.

1. I confirm that I am fully conversant with the Regulations and that my company has (or will acquire/procure) the necessary competencies and resources to timeously, safely and successfully comply with all of the requirements of the Regulations.

(Tick)

YES	<input type="checkbox"/>
NO	<input type="checkbox"/>

2. Proposed approach to achieve compliance with the Regulations

(Tick)

Own resources, competent in terms of the Regulations (refer to 3 below)	<input type="checkbox"/>
Own resources, still to be hired and/or trained (until competency is achieved)	<input type="checkbox"/>
Specialist subcontract resources (competent) - specify:	<input type="checkbox"/>

3. Provide details of proposed key persons, competent in terms of the Regulations, who will form part of the Contract team as specified in the Regulations (CVs to be attached):

.....

4. Provide details of proposed training (if any) that will be undergone:

.....
.....
.....
.....

5. Potential key risks identified and measures for addressing risks:

.....
.....
.....
.....

6. I have fully included in my tendered rates and prices (in the appropriate payment items provided in the Schedule of Quantities) for all resources, actions, training and any other costs required for the due fulfilment of the Regulations for the duration of the construction and defects repair period.

(Tick)

YES	<input type="checkbox"/>
NO	<input type="checkbox"/>

.....
SIGNATURE

(of person authorised to sign on behalf of the Tenderer)

.....
DATE

FORM A10: QUESTIONNAIRE ON TENDERER'S PROCEDURES WITH RESPECT TO THE OCCUPATIONAL HEALTH AND SAFETY ACT (OHACT) AND CONSTRUCTION REGULATIONS.

- 1. Name of the employee to be appointed as Construction Manager [Construction Regulation 8(1)]
.....
- 2. Name of the employee to be appointed as Construction Supervisor [Construction Regulation 8(7)]
.....
- 3. Names of the competent employees to assist the Construction Supervisor [Construction Regulation 8 (8)]
.....
- 4. Name of the person to be appointed to conduct base line and ongoing risk assessments [Construction Regulation 9 (1)].
.....
- 5. Name of competent person to be appointed as occupational health and safety officer [Construction Regulation 8 (6)]
.....
- 6. Will the employees to be appointed on the project be in possession of proof of health and safety induction training that will address the project specific risks and exposures [Construction Regulation 9 (1) (a)]? Yes / No.

If no, what are the tenderer's proposals for such training?
- 7. Are the tenderer's tools, plant and equipment tested and inspected regularly i.e. daily for vehicles and equipment and at least weekly for other tools and hand tools in terms of safety compliance? _Yes/No

If no, what are the tenderer's proposals for such testing?
- 8. Will a dedicated supervisor be designated to manage the process to test and inspect all tools, plant and equipment?.....Yes/No

If no, what are the tenderer's proposals for such designation?
- 9. What other measures will the tenderer take to comply with the OHSACT and the Construction Regulations?..... Yes/No

If no, what are the tenderer's proposals to comply with this requirement?
.....
- 10. Is the tenderer registered and in good standing with the Compensation Commissioner or duly approved compensation insurer?.....Yes/No

.....
SIGNATURE **DATE**
(of person authorised to sign on behalf of the Tenderer)

FORM A11: BUSINESS DECLARATION

Tender/RFP Number :
Tender/RFP Description :
Name of Company :
Postal Address :
Physical Address :
Telephone :
Fax :
Contact Person :
Cell Phone Number :
E-Mail Address :
Company/enterprise Income
Tax Reference Number **:
(Insert personal income tax number if a one-person business and personal income tax numbers of all partners if a partnership)
VAT Registration Number:
Company Registration Number:

1. Type of Firm

- Partnership
- One-person business/sole trader
- Close corporation
- Public company
- Private company

(Tick One Box)

2. Principal Business Activities

.....
.....

3. Total number of years the firm has been in business:

4. Detail all trade associations/professional bodies in which you have membership.

.....
.....

5. Did the firm exist under a previous name?

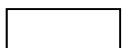
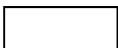
- Yes
- No

(Tick one box)

If yes, what was its previous name.....

6. How many permanent staff members are employed by the firm?

Full Time:



Part Time:

7. What is the enterprise's latest annual turnover (excl. VAT): R.....

8. List the personnel or firms who provide the following services:

SERVICE	NAME	CONTACT PERSON	TELEPHONE
ACCOUNTING			
LEGAL			
AUDITING			
BANKING			
INSURANCE			

BANK DETAILS

I/We hereby request and authorize you to pay any amounts which may accrue to me/us to the credit of my/our account with the mentioned bank.

I/We understand that the credit transfers hereby authorized will be processed by computer through a system known as the "ACB Electronic Fund Transfer Service" and

I/We also understand that no additional advice of payment will be provided by my/our bank, but details of each payment will be printed on my/our bank statement or any accompanying voucher.

This authority may be cancelled by me/us giving 30 days' notice in writing.

BANK :

BRANCH :

BRANCH CODE :

ACCOUNT NUMBER :

ACCOUNT HOLDER :

TYPE OF ACCOUNT :

PLEASE INCLUDE ORIGINAL SIGNED AND STAMPED LETTER FROM THE BANK CONFIRMING THE COMPANY'S BANKING DETAILS, PHOTOSTAT COPIES AND LETTERS BEARING ELECTRONIC SIGNATURES WILL NOT BE ACCEPTABLE.

The undersigned, who warrants that he/she is duly authorised to do so on behalf of the company, affirms that the information furnished in response to this request for proposal is true and correct:

SIGNATURE :

NAME IN FULL :

CAPACITY :

DULY AUTHORIZED TO SIGN ON BEHALF OF:

DATE :

FORM A12: A COPY OF A VALID TAX COMPLIANCE STATUS LETTER

The tenderer shall include as an attachment to their submission a copy of a valid Tax Compliance Status letter, which shall be obtained by the tenderer from the South African Revenue Service (SARS).

In the event of a joint venture each member shall comply with the above requirement.

.....

SIGNATURE	DATE
<i>(of person authorised to sign on behalf of the Tenderer)</i>	

FORM A13: DECLARATION ON STATE OF MUNICIPAL ACCOUNTS

A Any bid will be rejected if:
Any municipal rates and taxes or municipal service charges owed by the bidder or any of the directors to the municipality or a municipal entity, or to any other municipality or municipal entity, are in arrears for more than three months.

B Bid Information

i. Name of bidder:

ii. Registration Number:

iii. Municipality where business is situated

iv. Municipal account number for rates:

v. Municipal account number for water and electricity:

vi. Names of all directors, their ID numbers and municipal account number.

1.

2.

3.

4.

5.

6.

7.

C Documents to be attached.

- i. A copy of municipal account mentioned in B (iv) & (v) (Not older than 3 months)
- ii. A copy of municipal accounts of all directors mentioned in B(vi) (Not older than 3 months)
- iii. Proof of directors

I/We declare that the abovementioned information is true and correct and that the following documents are attached to this form:.....

.....

D Any bid will be rejected if:
Any municipal rates and taxes or municipal service charges owed by the bidder or any of the directors to the municipality or a municipal entity, or to any other municipality or municipal entity, are in arrears for more than three months.

E Bid Information

i. Name of bidder:

- ii. Registration Number:
- iii. Municipality where business is situated
- iv. Municipal account number for rates:
- v. Municipal account number for water and electricity:
- vi. Names of all directors, their ID numbers and municipal account number.
 - 1.
 - 2.
 - 3.
 - 4.
 - 5.
 - 6.
 - 7.

F Documents to be attached.

- iv. A copy of municipal account mentioned in B (iv) & (v) (Not older than 3 months)
- v. A copy of municipal accounts of all directors mentioned in B(vi) (Not older than 3 months)
- vi. Proof of directors

I/We declare that the abovementioned information is true and correct and that the following documents are attached to this form:

.....

The tenderer shall include as an attachment to their submission a copy of the current Municipal Account in the name of the Tenderer or alternatively in the names of the Directors/Partners of the tendering entity.

In the event of a joint venture each member shall comply with the above requirement.

.....
SIGNATURE **DATE**
(of person authorised to sign on behalf of the Tenderer)

FORM A14: LETTER OF INTENT

The tenderer shall include as an attachment to their submission a Letter of Intent from a Financial Institution to provide a Construction Guarantee in accordance with the GCC pro-forma.

.....
SIGNATURE

(of person authorised to sign on behalf of the Tenderer)

.....
DATE

FORM A15: DECLARATION FOR PROCUREMENT ABOVE R10 MILLION

MBD 5

DECLARATION FOR PROCUREMENT ABOVE R10 MILLION (VAT INCLUDED)

For all procurement expected to exceed R10 million (VAT included), bidders must complete the following questionnaire:

1 Are you by law required to prepare annual financial statements for auditing?

1.1 If yes, submit audited annual financial statements for the past three years or since the date of establishment if established during the past three years.

.....

YES / NO

.....

2 Do you have any outstanding undisputed commitments for municipal services towards a municipality or any other service provider in respect of which payment is overdue for more than 30 days?

2.1 If no, this serves to certify that the bidder has no undisputed commitments for municipal services towards a municipality or other service provider in respect of which payment is overdue for more than 30 days.

2.2 If yes, provide particulars.

.....

.....

.....

.....

3. Has any contract been awarded to you by an organ of the state during the past five years, including particulars of any material non-compliance or dispute concerning the execution of such contract?

YES / NO

JOHANNESBURG DEVELOPMENT AGENCY (JDA)

3.1 If yes, furnish particulars

.....
.....

4. Will any portion of goods or services be sourced from outside the Republic, and, if so, what portion and whether any portion

of payment from the municipality / municipal entity is expected to be transferred out of the Republic?

YES / NO

4.1 If yes, furnish particulars

.....
.....

CERTIFICATION

I, THE UNDERSIGNED (NAME)

CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM IS CORRECT.

I ACCEPT THAT THE STATE MAY ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....

.....

Signature

Date

.....

.....

Position

Name of Bidder

FORM A16: DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

MBD 8

1 DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

- 1 This Municipal Bidding Document must form part of all bids invited.

- 2 It serves as a declaration to be used by municipalities and municipal entities in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.

- 3 The bid of any bidder may be rejected if that bidder, or any of its directors have:
 - a. abused the municipality's / municipal entity's supply chain management system or committed any improper conduct in relation to such system;
 - b. been convicted for fraud or corruption during the past five years;
 - c. willfully neglected, reneged on or failed to comply with any government, municipal or other public-sector contract during the past five years; or
 - d. been listed in the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004).

- 4 **In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**

ITEM	QUESTION	YES	NO
4.1	Is the bidder or any of its directors listed on the National Treasury's database as a company or person prohibited from doing business with the public sector? (Companies or persons who are listed on this database were informed in writing of this restriction by the National Treasury after the <i>audi alteram partem</i> rule was applied).	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.1.1	If so, furnish particulars:		
4.2	Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)? (To access this Register, enter the National Treasury's website, www.treasury.gov.za, click on the icon "Register for Tender Defaulters" or submit your written request for a hard copy of the Register to facsimile number (012) 3265445).	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.2.1	If so, furnish particulars:		
4.3	Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.3.1	If so, furnish particulars:		

ITEM	QUESTION	YES	NO
4.4	Does the bidder or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.4.1	If so, furnish particulars:		
4.5	Was any contract between the bidder and the municipality / municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
4.7.1	If so, furnish particulars:		

CERTIFICATION

**I, THE UNDERSIGNED (FULL NAME)
CERTIFY THAT THE INFORMATION FURNISHED ON THIS
DECLARATION FORM TRUE AND CORRECT.**

**I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT, ACTION MAY BE TAKEN
AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.**

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

FORM B1: CIDB GRADING

The tenderer shall include as an attachment to their submission the proof of CIDB grading.

In the event of a joint venture each member shall comply with the above requirement.

.....

SIGNATURE

(of person authorised to sign on behalf of the Tenderer)

.....

DATE

FORM B2: B-BBEE CERTIFICATE

The tenderer shall include as an attachment to their submission a valid originally certified copy of the B-BBEE status level verification certificate, substantiating the B-BBEE rating. An EME must submit a sworn affidavit confirming the following:

- Annual Turnover Revenue of R10 million or less; and
- Level of Black ownership
- Any misrepresentation in terms of the above constitutes a criminal offence as set out in the B-BBEE Act as amended.

A trust, consortium or joint venture will qualify for points for their B-BBEE status level as a legal entity, provided that the entity submits their B-BBEE status level certificate.

A trust, consortium or joint venture will qualify for points for their B-BBEE status level as an unincorporated entity, provided that the entity submits their consolidated B-BBEE scorecard as if they were a group structure and that such a consolidated B-BBEE scorecard is prepared for every separate tender.

.....
SIGNATURE

(of person authorised to sign on behalf of the Tenderer)

.....
DATE

FORM B3: PROOF OF PREVIOUS EXPERIENCE

CONTACTABLE REFERENCE – NOTE FOR BIDDERS

Note for Bidders :

The reference form/s is/are material to the award of the contract.

Points for previous experience will only be allocated if the following is met :

1. The Reference Form to follow is completed in full and signed by the Client. Forms signed by members of the professional team / consultants will not be considered.
2. Only civil projects, completed in the past 5 years, with a minimum value of R18m excluding VAT will be considered as previous experience.
3. The reference overall rating confirms that the requirements were met or exceeded.

A **maximum** of 5 reference forms to be submitted.

.....
SIGNATURE
(of person authorised to sign on behalf of the Tenderer)

.....
DATE

**FORM B3: PROOF OF PREVIOUS EXPERIENCE -
CONTACTABLE REFERENCE – FORM TO BE COMPLETED BY THE CLIENT**



City of Johannesburg
Johannesburg Development Agency

No 3 Helen Joseph Street PO Box 61877 Tel +27(0) 11 688 7851 (O)
The Bus Factory Marshalltown Fax +27(0) 11 688 7899/63
Newtown 2107 E-mail: info@jda.org.za
Johannesburg, 2000

www.jda.org.za
www.ioburg.org.za

PROJECT 1

Reference for

(insert name of bidder) : _____

Name of Project

: _____

Description of Scope of Works

: _____

Contract Value

(excluding VAT) : _____

Contract Period

(insert start and end date) : _____

CRITERIA	ASSESSMENT		
	Needs Improvement	Met Requirement	Exceeded Requirement
Quality of contract administration			
Quality of site management			
Quality of workmanship			
Labour relations			
SMME management			
Timeous procurement of materials			
Adequacy of plant / equipment			
Health and safety			
Adherence to construction programme			
Cashflow management			
OVERALL RATING			

Would you use the provider again ? YES / NO

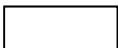
Completed By : _____

Signature : _____

Company Name : _____

Contact Number: _____

COMPANY STAMP



**FORM B3: PROOF OF PREVIOUS EXPERIENCE -
CONTACTABLE REFERENCE – FORM TO BE COMPLETED BY THE CLIENT**



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PROJECT 2

Reference for

(insert name of bidder) : _____

Name of Project

: _____

Description of Scope of Works

: _____

Contract Value

(excluding VAT) : _____

Contract Period

(insert start and end date) : _____

CRITERIA	ASSESSMENT		
	Needs Improvement	Met Requirement	Exceeded Requirement
Quality of contract administration			
Quality of site management			
Quality of workmanship			
Labour relations			
SMME management			
Timeous procurement of materials			
Adequacy of plant / equipment			
Health and safety			
Adherence to construction programme			
Cashflow management			
OVERALL RATING			

Would you use the provider again ? YES / NO

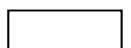
Completed By : _____

Signature : _____

Company Name : _____

Contact Number: _____

COMPANY STAMP



**FORM B3: PROOF OF PREVIOUS EXPERIENCE -
CONTACTABLE REFERENCE – FORM TO BE COMPLETED BY THE CLIENT**



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Johannesburg Development Agency

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Johannesburg, 2000

www.jda.org.za
www.ioburg.org.za

PROJECT 3

Reference for

(insert name of bidder) : _____

Name of Project

: _____

Description of Scope of Works

: _____

Contract Value

(excluding VAT) : _____

Contract Period

(insert start and end date) : _____

CRITERIA	ASSESSMENT		
	Needs Improvement	Met Requirement	Exceeded Requirement
Quality of contract administration			
Quality of site management			
Quality of workmanship			
Labour relations			
SMME management			
Timeous procurement of materials			
Adequacy of plant / equipment			
Health and safety			
Adherence to construction programme			
Cashflow management			
OVERALL RATING			

Would you use the provider again ? YES / NO

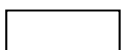
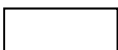
Completed By : _____

Signature : _____

Company Name : _____

Contact Number: _____

COMPANY STAMP



**FORM B3: PROOF OF PREVIOUS EXPERIENCE -
CONTACTABLE REFERENCE – FORM TO BE COMPLETED BY THE CLIENT**



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Johannesburg, 2000

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www.ioburg.org.za

PROJECT 4

Reference for

(insert name of bidder) : _____

Name of Project

: _____

Description of Scope of Works

: _____

Contract Value

(excluding VAT) : _____

Contract Period

(insert start and end date) : _____

CRITERIA	ASSESSMENT		
	Needs Improvement	Met Requirement	Exceeded Requirement
Quality of contract administration			
Quality of site management			
Quality of workmanship			
Labour relations			
SMME management			
Timeous procurement of materials			
Adequacy of plant / equipment			
Health and safety			
Adherence to construction programme			
Cashflow management			
OVERALL RATING			

Would you use the provider again ? YES / NO

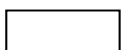
Completed By : _____

Signature : _____

Company Name : _____

Contact Number: _____

COMPANY STAMP



**FORM B3: PROOF OF PREVIOUS EXPERIENCE -
CONTACTABLE REFERENCE – FORM TO BE COMPLETED BY THE CLIENT**



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Johannesburg Development Agency

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Johannesburg, 2000

www.jda.org.za
www.ioburg.org.za

PROJECT 5

Reference for

(insert name of bidder) : _____

Name of Project

: _____

Description of Scope of Works

: _____

Contract Value

(excluding VAT) : _____

Contract Period

(insert start and end date) : _____

CRITERIA	ASSESSMENT		
	Needs Improvement	Met Requirement	Exceeded Requirement
Quality of contract administration			
Quality of site management			
Quality of workmanship			
Labour relations			
SMME management			
Timeous procurement of materials			
Adequacy of plant / equipment			
Health and safety			
Adherence to construction programme			
Cashflow management			
OVERALL RATING			

Would you use the provider again ? YES / NO

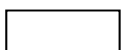
Completed By : _____

Signature : _____

Company Name : _____

Contact Number: _____

COMPANY STAMP



JOHANNESBURG DEVELOPMENT AGENCY (JDA)

FORM B5: SCHEDULE OF CONSTRUCTION PLANT & EQUIPMENT

The following are lists of Construction Plant and Equipment that I/We presently own or lease and will have available for this contract if my / our tender is accepted.

- (a) **Details of Equipment that is owned by me / us and immediately available for this contract.**

DESCRIPTION	QUANTITY	YEAR ACQUIRED

Attach additional information in a supplementary document

- (b) **Details of Plant & Equipment that will be hired, or acquired for this contract if my / our tender is accepted**

DESCRIPTION <i>(type, size, capacity etc.)</i>	QUANTITY	HOW ACQUIRED	
		HIRE/ BUY	SOURCE

Attach additional information in a supplementary document

.....
Signature **Date**
(of person authorised to sign on behalf of the Tenderer)

JDA GCC

JOHANNESBURG DEVELOPMENT AGENCY (JDA)

FORM B7: PROPOSED KEY PERSONNEL

The Tenderer shall list below the key personnel whom he proposes to employ on the contract should his offer be accepted, both at his headquarters and on the site, together with their qualifications, experience and positions held.

(In the event of insufficient space, attach supplementary documentation)

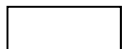
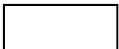
LOCATION	DESIGNATION	NAME AND NATIONALITY OF PROPOSED CANDIDATE	SUMMARY OF QUALIFICATIONS & EXPERIENCE
HEAD OFFICE	Contracts manager Registered with SACPCMP		
SITE OFFICE	Site Agent		
	General Foreman:		
	CHS Officer Registered with SACPCMP		
	SMME Supervisor		

NOTE: Detailed Curriculum Vitae of proposed candidates are to be separately provided. Said Curriculum Vitae MUST indicate the name and description of the project, the value of project completed, role played in the project and the start and end dates of the project.

.....
Signature

.....
Date

(of person authorised to sign on behalf of the Tenderer)



FORM B8: ESTIMATED MONTHLY EXPENDITURE

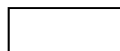
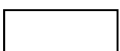
The Tenderer shall state below the estimated value of work to be completed every month based on his preliminary programme and his tendered unit rates.

** The amounts for contingencies and Contract Price Adjustment must not be included.*

MONTH	VALUE *
1	R
2	R
3	R
4	R
5	R
6	R
7	R
8	R
9	R
	COMPLETION OF CONTRACT
TOTAL	R

.....
SIGNATURE
(of person authorised to sign on behalf of the Tenderer)

.....
DATE



FORM B9: METHODOLOGY STATEMENT

The tenderer shall include as an attachment to their submission the detailed Methodology Statement for the works.

The methodology must demonstrate how the contractor intends to sequence the works. The manner in which the contractor intends to allocate resources must be clearly spelt out. When assessing the methodology, congruency with the project schedule will also be examined.

.....
SIGNATURE

(of person authorised to sign on behalf of the Tenderer)

.....
DATE

FORM B10: PRELIMINARY CONSTRUCTION PROGRAMME

The tenderer shall include as an attachment to their submission the preliminary Construction Programme for the works.

The Critical Path should be based on an 18-month construction period.

.....
SIGNATURE

(of person authorised to sign on behalf of the Tenderer)

.....
DATE

FORM B11: LABOUR, PLANT AND EQUIPMENT HISTOGRAMS

The tenderer shall include as an attachment to their submission the labour, plant and equipment histograms for the works.

.....
SIGNATURE

(of person authorised to sign on behalf of the Tenderer)

.....
DATE

FORM B12: FINANCIAL STATEMENTS

The tenderer shall include as an attachment to their submission the Audited Financial Statements for the past three years.

.....

SIGNATURE

(of person authorised to sign on behalf of the Tenderer)

.....

DATE

FORM B13: BANK RATING

The tenderer shall include as an attachment to their submission a letter from the bank at which he declares he conducts his account. The contents of the bank's letter must state the credit rating that it accords to the tenderer for the business envisaged by this tender.

In the event of a joint venture each member shall comply with the above requirement.

.....
SIGNATURE
(of person authorised to sign on behalf of the Tenderer)

.....
DATE

FORM B14: SMME PLAN

The tenderer shall include as an attachment to their submission a detailed SMME plan indicating how the SMME requirements will be achieved, as detailed in Part C3: Scope of Works. The SMME Plan must clarify the manner in which the bidder intends to manage, support and empower local SMME's and contractors.

The SMME plan must detail (i) how quality will be controlled, (ii) how the scope of works will be scheduled (programme), (iii) how will skills be transferred, (iv) how will reporting to the client be done (content of reports, frequency etc.) and (v) a comprehensive list of all bill items which are to be allocated to SMME's equivalent to 30% of the Offer Price. Tenderers are to demonstrate the list of items allocated to SMME's by highlighting the SMME rates in yellow on the excel version of the BOQ.

It is to be specifically noted that the rates for items of work to be executed by SMME's must be market related. Tenderers are to ensure that rates tendered for this portion of the works is to take into account all items that the main contractor would have allowed for in his normal course of pricing, i.e. materials, labour, wastage, profit, attendance, etc. all at applicable productivity rates.

.....

SIGNATURE

(of person authorised to sign on behalf of the Tenderer)

.....

DATE

FORM B15: COIDA LETTER OF GOOD STANDING

The tenderer shall include as an attachment to their submission their COIDA Letter of Good Standing.

In the event of a joint venture each member shall comply with the above requirement.

.....

SIGNATURE

(of person authorised to sign on behalf of the Tenderer)

.....

DATE

FORM B16: BILLS OF QUANTITIES

The bills of quantities included in the tender documentation must be completed by hand in pen (hard copy).

An Excel version of the BOQ has also been included on the tender CD. The completed Excel workbook must be submitted with the hard copy tender submission.

THE HAND-WRITTEN BILL OF QUANTITIES (hard copy) WILL TAKE PREFERENCE IN CASES WHERE THERE ARE DISCREPANCIES BETWEEN THE HAND-WRITTEN BILLS OF QUANTITIES AND THE ELECTRONIC COPY.

Of the information provided by the tenderer as part of his submission, e.g. Rates, the signed hard copy shall be taken as the valid submission

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 In respect of the following works:

KASERNE TAXI HOLDING FACILITY - CONTRACT NO.: JDA INNER CITY RANKS/CN006

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

By the representative of the Tenderer, deemed to be duly authorised, signing this part of this Form of Offer and Acceptance, the Tenderer offers to perform all of the obligations and liabilities of the Contractor 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 VALUE ADDED TAX IS:

.....

.....Rand (in words); R.....(in figures)

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 including the Schedule of Deviations (if any) to the Tenderer before the end of the period of validity stated in the Tender Data, or other period as agreed, whereupon the Tenderer becomes the party named as the Contractor in the conditions of contract identified in the Contract Data.

TENDERER:

WITNESS:

Signature

Signature

Name

Name

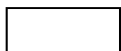
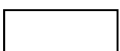
Capacity

Capacity

Date

Date

Name and address of organisation:



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. Acceptance of the Tenderer'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 Agreement)
- Part C2 Pricing Data
- Part C3 Scope of Work
- Part C4 Site Information

and drawings and documents (or parts thereof), which may be incorporated by reference into the above listed Parts 1 to 4 above.

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 Agreement. No amendments to or deviations from said documents are valid unless contained in this Schedule, which must be duly signed by the authorised representative(s) of both parties.

The Tenderer 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 at, or just after, the date this Agreement comes into effect. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this Agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one fully completed copy of this document, including the Schedule of Deviations (if any). 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.

EMPLOYER:

WITNESS:

Signature

Signature

Name

Name

Capacity

Capacity

Date

Date

Name and address of organisation:

JOHANNESBURG DEVELOPMENT AGENCY (PTY) LTD
NO. 3 PRESIDENT STREET (HELEN JOSEPH STREET)
NEWTOWN
JOHANNESBURG

JDA GCC

Schedule of Deviations

Notes:

1. The extent of deviations from the tender documents issued by the Employer prior to the tender closing date is limited to those permitted in terms of the Conditions of Tender,
- 2.
3. A Tenderer's covering letter shall not be included in the final contract document. Should any matter in such letter which constitutes a deviation as aforesaid become the subject of agreements reached during the process of offer and acceptance the outcome of such agreement shall be recorded here,
- 4.
5. Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the tender documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here,
- 6.
7. Any change or addition to the tender documents arising from the above agreements and recorded here, shall also be incorporated into the final draft of contract,

1 Subject

Details

.....
.....
.....

2 Subject

Details

.....
.....
.....

3 Subject

Details

.....
.....
.....

4 Subject

Details

.....
.....
.....

5 Subject

Details

.....
.....

By the duly authorised representatives signing this Schedule of Deviations, the Employer and the Tenderer agree to and accept the foregoing Schedule of Deviations as the only deviations from and amendments to the documents listed in the Tender Data and addenda thereto as listed in the Tender Schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the Tenderer and the Employer during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the Tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this agreement.

TENDERER:

EMPLOYER:

Signature

Signature

Name

Name

Capacity

Capacity

Name and address of organisation:

Name and address of organisation:

WITNESS:

WITNESS:

Signature

Signature

Name

Name

Date

Date

CONFIRMATION OF RECEIPT

The Tenderer, (now Contractor), identified in the Offer part of this Agreement hereby confirms receipt from the Employer, identified in the Acceptance part of this Agreement, of one fully completed original copy of this Agreement, including the Schedule of Deviations (if any) today:

the _____(day) of _____(month)_____ (year)

at _____(place)

CONTRACTOR:

WITNESS:

Signature

Signature

Name

Name

Capacity

Capacity

Date

Date

C.1.2 CONTRACT DATA

PART 1: DATA PROVIDED BY THE EMPLOYER

CONDITIONS OF CONTRACT

The General Conditions of Contract for Construction Works, Third Edition 2015, published by the South African Institute of Civil Engineering, Private Bag X200, Halfway House, 1685, is applicable to this Contract and is obtainable from www.saice.org.za.

CONTRACT SPECIFIC DATA

The following contract specific data, referring to the General Conditions of Contract for Construction Works, Third Edition, 2015, are applicable to this Contract:

Clause	Data
1.1.1.13	The Defects Liability period is Twelve (12) months
1.1.1.14	The time for achieving Practical Completion is 10 calendar months
1.1.1.15	The name of the Employer is JOHANNESBURG DEVELOPMENT AGENCY
1.1.1.16	The name of the Employer's Agent is GIBB
1.1.1.26	The Pricing Strategy is a remeasurement contract.
1.2.1.2	The address of the Employer is: Address (physical): 3 Helen Joseph Street (Formerly President Street), Newtown 2001 Address (postal): PO Box 61877, Marshalltown 2107 Contact person: Ms Celestine Mouton Telephone: 011 688 7851 Facsimile: 011 688 7899 e-mail: CMouton@jda.org.za
1.2.1.2	The address of the Employer's Agent is: Address (physical): Podium at Menlyn, 43 Ingersol Road, Menlyn, 0102 Address (postal): PO Box 35007, Menlo Park, 0102 Contact person: Mr Kobus Oberholzer Telephone: 012 348 5880 Facsimile: 012 348 5878 e-mail: koberholzer@gibb.co.za
3.2.3	The Employer's Agent shall obtain the specific approval of the Employer before carrying out any of his functions or duties according to the following Clauses of the General Conditions of Contract: a) Clause 6.3.2: Issue of Variation Orders exceeding R10,000.00 . b) Clause 4.4.4: The removal or addition of a SMME subcontractor from or to the Works.

5.3.1	The documentation required before commencement with Works execution are: a) Health and Safety Plan (Refer to clause 4.3) b) Initial Programme (Refer to clause 5.6) c) Initial cash flow projection linked to the programme (Refer to clause 5.6.2.6) d) Security (Refer to clause 6.2) e) Insurance (refer to clause 8.6) f) Signed Contract Agreements with nominated SMME contractors and Community Liaison Officer. SMME contract agreements shall clearly state the assigned foreman details, scope of works, materials and equipment to be provided by the Contractor, payment conditions, time frame for completion and any penalties for late completion. g) Proforma SMME Contractor(s) Financial Statement proposed by the Contractor (for approval by Employer and Employer's Agent)
5.3.2	The time to submit the documentation required before commencement with Works execution is 14 days.
5.4.2	The access and possession of Site shall not be exclusive to the Contractor but as set out in the Scope of Work and Site Information, as well as other City of Johannesburg Service Authority appointed contractors, and in terms of all legislation, including the Construction Regulations 2015.
5.8.1	The non-working days are Sundays. The special non-working days are the official public holidays of the Republic of South Africa (which shall include public holidays set aside for voting purposes) and the industry year end break with effective dates published by the South African Forum of Civil Engineering Contractors (SAFCEC).
5.13.1	The penalty for failing to complete the Works at the Due Completion Date is R8,000.00 per day . The Contractor is to note that delay penalties, in addition to monies still owed to the Contractor (including retention monies) and the Guarantee, shall effectively be used to address additional costs incurred by the Employer, such as the Employer's Agent's construction monitoring fees and other service providers' fees and wayleave extension costs, as a result of the Works not being completed at the Due Completion Date.
5.14.1	The requirements for achieving Practical Completion are all those for the Works to reach a state of readiness, fit for the intended purpose and occupation without danger or undue inconvenience to the Employer.
5.16.3	The latent defect period is 10 years
6.8.2	The tenderer is to submit a fixed price tender (not subject to contract price adjustment)
6.10.1.5	The percentage advance on materials not yet built into the Permanent Works is 80%.
6.10.3	The limit of retention money is 5%
8.6.1	The Contractor shall provide insurance of the works in terms of clause 8.6 of the GCC
8.6.1.1.3	The amount to cover professional fees for repairing damage and loss to be included in the insurance sum is 20% of the Contract Sum.
8.6.1.5	The Contractor is to provide all additional insurances including for, but not limited to, his own employees, vehicles and equipment and plant not incorporated into the Works.
10.5.3	The number of Adjudication Board Members to be appointed is ONE.
10.7.1	The determination of disputes shall be by arbitration.

ADDITIONAL CLAUSE TO THE GENERAL CONDITIONS OF CONTRACT

5.12.2.2	A delay caused by inclement weather conditions will be regarded as a delay only if, in the opinion of the Engineer, all progress on an item or items of work on the critical path of the working programme of the contractor has been brought to a halt. Delays on working days only (based on a five-day working week) will be taken into account for the extension of time, but the Contractor shall make provision in his programme of work for an expected delay of "n" working days caused by normal rainy weather, for which he will not receive any extension of time, where "n" equals 15 days. Extension of time during working days will be granted to the degree to which actual delays, as defined above, exceed the number of "n" workings days.
5.13.3	The penalty for failure, on the part of the Contractor, to submit any regular monthly report as set out elsewhere in this document on the 25th day of each month (or the previous work day for the applicable month) until the issue of the Certificate of Completion shall be subject to a penalty of R100.00 per report per day , until report is submitted and which shall not be reversible.

PART 2: DATA PROVIDED BY THE CONTRACTOR

Clause	Data
1.1.1.9	The name of the Contractor is:
1.2.1.2	The address and contact details of the Contractor are:
	Address (physical):
	Address (postal):
	Contact person:
	Telephone:
	Facsimile:
	e-mail:
	Facsimile:
	e-mail:
6.2.1	The security to be provided by the Contractor shall be a Performance Guarantee of 10% of the Contract Sum and a 10% Retention reducing to 5% of the Contract Sum. The Performance Guarantee is to be worded as per the document included in C1.3.
6.5.1.2.3	The percentage allowance to cover overhead charges and profit is 10% .

.....
Signature

.....
Date

PART C1: AGREEMENT AND CONTRACT DATA

C1.3 PERFORMANCE GUARANTEE

GUARANTOR DETAILS AND DEFINITIONS

“Guarantor” means:

Physical address:

“Employer” means:

“Contractor” means:

“Employer’s Agent” means:

“Works” means:

“Site” means:

“Contract” means: The Agreement made in terms of the Form of Offer and Acceptance and such amendments or additions to the Contract as may be agreed in writing between the parties.

“Contract Sum” means: The accepted amount inclusive of tax of R.....

Amount in words:

“Guaranteed Sum” means: The maximum aggregate amount of R.....

Amount in words:

Type of Performance Guarantee: **Variable**

“Expiry Date” means: Date of issue of Certificate of Completion, or any other later date set by the Contractor and/or Employer provided such instruction is received prior to the Expiry Date as indicated here.

CONTRACT DETAILS

Employer’s Agent issues: Interim Payment Certificates, Final Payment Certificate and the Certificate of Completion of the Works as defined in the Contract.

PERFORMANCE GUARANTEE

1. VARIABLE PERFORMANCE GUARANTEE

1.1.1 Where a Variable Performance Guarantee has been selected, the Guarantor's liability shall be limited during the following periods to diminishing amounts of the Guaranteed Sum as follows:

1.1.2 From and including the date of signing the Performance Guarantee up to and including the date of the interim payment certificate certifying, for the first time, more than 50% of the Contract Sum:

R

(Amount in words)

1.1.3 From the day following the date of the said interim payment certificate up to and including the Expiry Date, or the date of issue by the Employer's Agent of the Certificate of Completion of the Works, whichever occurs first:

R

(Amount in words)

1.2 The Employer's Agent and/or the Employer shall advise the Guarantor in writing of the date on which the interim payment certificate certifying, for the first time, more than 50% of the Contract Sum, has been issued and the date on which the Certificate of Completion of the Works has been issued.

2. FIXED PERFORMANCE GUARANTEE

2.1 Where a Fixed Performance Guarantee has been selected, the Guarantor's liability shall be limited to the amount of the Guaranteed Sum.

2.2 The Guarantor's period of liability shall be from and including the date of issue of this Performance Guarantee and up to and including the Expiry Date or the date of issue by the employer's Agent of the Certificate of Completion of the Works or the date of payment in full of the Guaranteed Sum, whichever occurs first.

2.3 The Employer's Agent and/or the Employer shall advise the Guarantor in writing of the date on which the Certificate of Completion of the Works has been issued.

3. CONDITIONS APPLICABLE TO VARIABLE AND FIXED PERFORMANCE GUARANTEES

1.1 The Guarantor hereby acknowledges that:

1.1.1 any reference in this Performance Guarantee to the Contract is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention whatsoever to create a suretyship;

1.1.2 its obligation under this Performance Guarantee is restricted to the payment of money.

1.2 Subject to the Guarantor's maximum liability referred to in 1.1 or 2.1, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 3.2.1 to 3.2.3:

1.2.1 A copy of a first written demand issued by the Employer to the Contractor stating that payment of a sum certified by the Employer's Agent in an Interim or Final Payment Certificate has not been made in terms of the Contract and failing such payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of 3.2.2;

1.2.2 A first written demand issued by the Employer to the Guarantor at the Guarantor's physical address with a copy to the Contractor stating that a period of seven (7) days has elapsed since the first written demand in terms of 3.2.1 and the sum certified has still not been paid;

1.2.3 A copy of the aforesaid payment certificate which entitles the Employer to receive payment in terms of the Contract of the sum certified in 3.2.

1.3 Subject to the Guarantor's maximum liability referred to in 1.1 or 2.1, the Guarantor undertakes to pay to the Employer the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand from the Employer to the Guarantor at the Guarantor's physical address calling up this Performance Guarantee, such demand stating that:

- 1.3.1 the Contract has been terminated due to the Contractor's default and that this Performance Guarantee is called up in terms of 3.3; or
 - 1.3.2 a provisional or final sequestration or liquidation court order has been granted against the Contractor and that the Performance Guarantee is called up in terms of 3.3; and
 - 1.3.3 the aforesaid written demand is accompanied by a copy of the notice of termination and/or the provisional/final sequestration and/or the provisional liquidation court order.
- 1.4 It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 3.2 and 3.3 shall not exceed the Guarantor's maximum liability in terms of 1.1 or 2.1.
 - 1.5 Where the Guarantor has made payment in terms of 3.3, the Employer shall upon the date of issue of the Final Payment Certificate submit an expense account to the Guarantor showing how all monies received in terms of this Performance Guarantee have been expended and shall refund to the Guarantor any resulting surplus. All monies refunded to the Guarantor in terms of this Performance Guarantee shall bear interest at the prime overdraft rate of the Employer's bank compounded monthly and calculated from the date payment was made by the Guarantor to the Employer until the date of refund.
 - 1.6 Payment by the Guarantor in terms of 3.2 or 3.3 shall be made within seven (7) calendar days upon receipt of the first written demand to the Guarantor.
 - 1.7 Payment by the Guarantor in terms of 3.3 will only be made against the return of the original Performance Guarantee by the Employer.
 - 1.8 The Employer shall have the absolute right to arrange his affairs with the Contractor in any manner which the Employer may deem fit and the Guarantor shall not have the right to claim his release from this Performance Guarantee on account of any conduct alleged to be prejudicial to the Guarantor.
 - 1.9 The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in connection herewith.
 - 1.10 This Performance Guarantee is neither negotiable nor transferable and shall expire in terms of 1.1.2 or 2.2, where after no claims will be considered by the Guarantor. The original of this Guarantee shall be returned to the Guarantor after it has expired.
 - 1.11 This Performance Guarantee, with the required demand notices in terms of 3.2 or 3.3, shall be regarded as a liquid document for the purposes of obtaining a court order.
 - 1.12 Where this Performance Guarantee is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrate's Courts Act No 32 of 1944, as amended, to the jurisdiction of the Magistrate's Court of any district having jurisdiction in terms of Section 28 of the said Act, notwithstanding that the amount of the claim may exceed the jurisdiction of Magistrate's Court.

Signed at _____

Date _____

Guarantor's signatory (1) _____

Capacity _____

Guarantor's signatory (2) _____

Capacity _____

Witness signatory (1) _____

Witness signatory (2) _____

PART C1: AGREEMENT AND CONTRACT DATA

C1.4 Occupational Health and Safety Agreement

THIS AGREEMENT between Johannesburg Development Agency (JDA) (hereinafter called “the Employer”) on the one part, herein represented by:in his/her capacity as..... and..... (hereinafter called “the Contractor”) of the other part herein represented byin his/her capacity as

WHEREAS the Employer is desirous that certain works be constructed, being contract **KASERNE TAXI HOLDING FACILITY - CONTRACT NO. : JDA INNER CITY RANKS/CN006** and has accepted a tender by the Contractor for the construction, completion and maintenance of such works and whereas the Employer and the Contractor have agreed to certain arrangements and procedures to be followed in order to ensure compliance by the Contractor with the provisions of the Occupational Health and Safety Act 1993 (Act 85 of 1993).

NOW THEREFORE THIS AGREEMENT WITNESSED AS FOLLOWS:

1. The Contractor shall execute the work in accordance with the contract documents pertaining to this contract.
2. This Agreement shall hold good for the duration of construction, commencing from the handover of the site up to the end of the defects liability period.
3. Should the contract be terminated for any reason; this agreement shall lapse upon the date of termination.
4. The Contractor declares himself to be conversant with the following:
 - (a) All the requirements, regulations and standards of the Occupational Health and Safety Act (Act 85 of 1993), hereinafter referred to as “the Act”, together with its amendments thereto.
 - (b) All the requirements of the Construction Regulations hereinafter referred to as the “Regulations”, together with any amendments thereto.
 - (c) The Health and Safety Specification of the Employer as pertaining to the Contractor and to all his subcontractors.
5. In addition to the requirements of the contract, the Contractor agrees to execute all the works forming part of this contract and to operate and utilise all machinery, plant and equipment in accordance with the Act and the Regulations.
6. The Contractor is responsible for the compliance with the Act and the Regulations by all his subcontractors, whether or not selected or nominated and/or approved by the Employer.
7. The Contractor warrants that all his and his subcontractors’ workmen are covered in terms of the Compensation for Occupational Injuries and Diseases Act 1993 which cover shall remain in force whilst any such workmen are present on site. A letter of good standing from the

Compensation Commissioner to this effect must be produced to the Employer upon signature of the agreement.

8. The Contractor undertakes to ensure that he and/or his subcontractors and/or their respective employees will at all times comply with the following conditions:
- (a) The Contractor undertakes to comply with all provisions of the Act and its Regulations.
 - (b) The Contractor will be obliged to report to the Employer on a regular basis regarding compliance by the Contractor with the Act and its Regulations.
 - (c) All incidents referred to in the Occupational Health and Safety Act shall be reported by the Contractor to the Department of Labour as well as to the Employer. The Employer will further be provided with copies of all written documentation relating to any incident.
 - (d) The Employer hereby records an interest in the issue of any formal enquiry conducted in terms of Section 32 of the Occupational Health and Safety Act into any incident involving the Contractor and/or his employees and/or his subcontractors.

In witness, thereof the parties hereto have set their signatures hereon in the presence of the subscribing witnesses:

for and on behalf of the Contractor who warrants to be duly authorised to do so

Name: _____

Designation: _____

As witnesses:

1. _____

for and on behalf of the Employer who warrants to be duly authorised to do so

Name: _____

Designation: _____

As witnesses:

1. _____

PART C1: AGREEMENT AND CONTRACT DATA

C1.5 AGREEMENT IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT NO. 85 OF 1993

THIS AGREEMENT is made between the Johannesburg Development Agency represented by the(hereinafter called the EMPLOYER of the one part, herein represented by: in his/her capacity as: and: (hereinafter called the CONTRACTOR) of the other part, herein represented by..... in his/her capacity as: duly authorised to sign on behalf of the Contractor.

WHEREAS the CONTRACTOR is the Mandatory of the EMPLOYER in consequence of an agreement between the CONTRACTOR and the EMPLOYER in respect of

CONTRACT No: JDA INNER CITY RANKS/CN006 for KASERNE TAXI HOLDING FACILITY

AND WHEREAS the EMPLOYER and the CONTRACTOR have agreed to enter into an agreement in terms of the provisions of Section 37(2) of the Occupational Health and Safety Act No 85 of 1993, as amended by OHS Act Amendment Act No 181/1993 (hereinafter referred to as the ACT);

NOW THEREFORE the parties agree as follows:

1. The CONTRACTOR undertakes to acquaint the appropriate officials and employees of the CONTRACTOR with all relevant provisions of the ACT and the regulations promulgated in terms thereof.
2. The CONTRACTOR undertakes to fully comply with all relevant duties, obligations and prohibitions imposed in terms of the ACT and Regulations: Provided that should the EMPLOYER have prescribed certain arrangements and procedures that same shall be observed and adhered to by the CONTRACTOR, his officials and employees. The CONTRACTOR shall bear the onus of acquainting himself/herself/itself with such arrangements and procedures.
3. The CONTRACTOR hereby accepts sole liability for such due compliance with the relevant duties, obligations, prohibitions, arrangements and procedures, if any, imposed by the ACT and Regulations, and the CONTRACTOR expressly absolves the EMPLOYER and the Employer's CONSULTING ENGINEERS from being obliged to comply with any of the aforesaid duties, obligations, prohibitions, arrangements and procedures in respect of the work included in the contract.
4. The CONTRACTOR agrees that any duly authorised officials of the EMPLOYER shall be entitled, although not obliged, to take such steps as may be necessary to ensure that the CONTRACTOR has complied with his undertakings as more fully set out in paragraphs 1 and 2 above, which steps may include, but shall not be limited to, the right to inspect any appropriate site or premises occupied by

the CONTRACTOR, or to take such steps it may deem necessary to remedy the default of the CONTRACTOR at the cost of the CONTRACTOR.

- 5. The CONTRACTOR shall be obliged to report forthwith to the EMPLOYER any investigation, complaint or criminal charge which may arise as a consequence of the provisions of the ACT and Regulations, pursuant to work performed in terms of this agreement, and shall, on written demand, provide full details in writing of such investigation, complaint or criminal charge.

Thus signed at for and on behalf of the **CONTRACTOR**

on this the day of 20.....

SIGNATURE: _____

NAME AND SURNAME: _____

CAPACITY: _____

WITNESS: _____

Thus signed at for and on behalf of the **EMPLOYER** on this

the day of 20.....

SIGNATURE: _____

NAME AND SURNAME: _____

CAPACITY: _____

WITNESS: _____

PART C2: PRICING DATA

C2.1 Pricing Instructions

1. The Conditions of Contract, the Contract Data, the Specifications (including the Project Specifications) and the Drawings shall be read in conjunction with the Bill of Quantities. The agreement is based on the General Conditions of Contract for Construction Works, prepared by the South African Institution of Civil Engineering, 2015. The additions, deletions and alterations to the General Conditions of Contract for Construction Works as well as the contract specific variables are as stated in the Contract Data. Only the headings and clause numbers for which allowance must be made in the Bills of Quantities are recited.
2. The Bill comprises items covering the Contractor's profit and costs of general liabilities and of the construction of Temporary and Permanent Works.
3. Although the Tenderer is at liberty to insert a rate of his own choosing for each item in the Bill, he should note the fact that the Contractor is entitled, under various circumstances, to payment for additional work carried out and that the Engineer is obliged to base his assessment of the rates to be paid for such additional work on the rates the Contractor inserted in the Bill. Clause 8 of each Standardized Specification, and the measurement and payment clause of each Particular Specification, read together with the relevant clauses of the Project Specifications, all set out which ancillary or associated activities are included in the rates for the specified operations.
4. Descriptions in the Bill of Quantities are abbreviated and may differ from those in the Standardized and Project Specifications. No consideration will be given to any claim by the Contractor submitted on such a basis. The Bill has been drawn up generally in accordance with the latest issue of Civil Engineering Quantities. Should any requirement of the measurement and payment clause of the appropriate Standardized or Project Specification(s) be contrary to the terms of the Bill or, when relevant, to the Civil Engineering Quantities, the requirement of the appropriate Standardized, Project, or Particular Specification as the case may be, shall prevail.
5. Unless stated to the contrary, items are measured net in accordance with the Drawings without any allowance having been made for waste.
6. The amounts and rates to be inserted in the Bill of Quantities shall be the full inclusive amounts to the Employer for the work described under the several items. Such amounts shall cover all the costs and expenses that may be required in and for the construction of the work described, and shall cover the costs of all general risks, profits, taxes (but excluding value-added tax), liabilities and obligations set forth or implied in the documents on which the Tender is based.
7. An amount or rate shall be entered against each item in the Bill of Quantities, whether or not quantities are stated. An item against which no amount or rate is entered will be considered to be covered by the other amounts or rates in the Bill.
8. The Tenderer shall also fill in a rate against the items where the words "rate only" appear in the amount column. Although no work is foreseen under these items and no quantities are consequently given in the quantity column, the tendered rates shall apply should work under these items actually be required.
9. The standard system of measurement of civil engineering quantities published by the South African Institution of Civil Engineers.
10. Should the Tenderer group a number of items together and tender one sum for such group of items, the single tendered sum shall apply to that group of items and not to each individual item, or should he indicate against any item that full compensation for such item has been included in another item, the rate for the item included in another item shall be deemed to be nil. The tendered rates, prices and sums shall, subject only to the provisions of the Conditions of

Contract, remain valid irrespective of any change in the quantities during the execution of the Contract.

11. The quantities of work as measured and accepted and certified for payment in accordance with the Conditions of Contract, and not the quantities stated in the Bill of Quantities, will be used to determine payments to the Contractor. The validity of the Contract shall in no way be affected by differences between the quantities in the Bill of Quantities and the quantities certified for payment. The **Ordering of materials** is not to be based on the Bill of Quantities, but only on information issued for construction purposes.

12. For the purposes of this Bill of Quantities, the following words shall have the meanings hereby assigned to them:

Unit : The unit of measurement for each item of work as defined in the Standardized, Project or Particular Specifications
Quantity : The number of units of work for each item
Rate : The payment per unit of work at which the Tenderer tenders to do the work
Amount : The quantity of an item multiplied by the tendered rate of the (same) item
Sum : An amount tendered for an item, the extent of which is described in the Bill of Quantities, the Specifications or elsewhere, but of which the quantity of work is not measured in units

13. The units of measurement indicated in the Bill of Quantities are metric units. The following abbreviations may appear in the Bill of Quantities:

mm = millimetre
m = metre
km = kilometre
km-pass = kilometre-pass
m² = square metre
m²-pass = square metre-pass
ha = hectare
m³ = cubic metre
m³-km = cubic metre-kilometre
kW = kilowatt
kN = kilonewton
kg = kilogram
t = ton (1 000 kg)
% = per cent
MN = meganewton
MN-m = meganewton-metre
PC Sum = Prime Cost Sum
Prov Sum = Provisional Sum

14. Occupational Health and Safety Act and Construction Regulations

A payment item in the schedule of Quantities / Bill of Quantities must allow the tenderers to price for compliance with OHS Act and the Construction Regulations. This payment item, must include for the erection of Visitors Indemnity Signs and for ensuring that visitors receive instructions and sign an indemnity declaration.

PART C2: PRICING DATA

C2.2 Bill of Quantities

Item No	SANS Pay Ref		Unit	Quantity	Rate	Amount
		<u>SECTION NO. 1</u>				
		<u>BILL NO. 1</u>				
	<u>SANS 1200A</u>	<u>PRELIMINARY AND GENERAL(Applicable to the whole of the Works)</u>				
	8.3	<u>FIXED CHARGE ITEMS</u>				
1	8.3.1	Contractual requirements.			SUM	
	8.3.2	<u>Establishment of Facilities on the Site</u>				
	8.3.2	<u>Facilities for Engineer</u>				
2	8.3.2.1a	Furnished offices. (In No.1)			SUM	
3	8.3.2.1b	Telephone.			SUM	
4	8.3.2.1c	Nameboards. (In No. 2).			SUM	
	8.3.2.2	<u>Facilities for Contractor</u>				
5	8.3.2.2a	Offices and storage sheds.			SUM	
6	8.3.2.2b	Workshops.			SUM	
7	8.3.2.2c	Laboratories.			SUM	
8	8.3.2.2d	Living accommodation.			SUM	
9	8.3.2.2e	Ablution and latrine facilities.			SUM	
10	8.3.2.2f	Tools and equipment.			SUM	
11	8.3.2.2g	Water supplies, electric power, communications, dealing with water, and access.			SUM	
12	8.3.2.2j	Plant.			SUM	
		Carried to Collection			R	
		Section No. 1 Preliminaries & General Bill No. 1 Preliminaries				

13	8.3.3	Other fixed charge obligations.			SUM		
14	8.3.3.1	Company and head office overhead costs for the management of SMME's in accordance with the contract conditions, including the provision of a dedicated individual to fulfill this function (minimum of 7 SMME's will be utilised).			SUM		
15	8.3.4	Removal of site establishment.			SUM		
	8.3	<u>VALUE RELATED ITEMS</u>					
16	8.3.1	Contractual requirements.			SUM		
	8.3.2	<u>Establishment of Facilities on the Site</u>					
	8.3.2.1	<u>Facilities for Engineer</u>					
17	8.3.2.1a	Furnished offices. (In No. 1)			SUM		
18	8.3.2.1b	Telephone.			SUM		
19	8.3.2.1c	Nameboards. (In No. 2).			SUM		
	8.3.2.2	<u>Facilities for Contractor</u>					
20	8.3.2.2a	Offices and storage sheds.			SUM		
21	8.3.2.2b	Workshops.			SUM		
22	8.3.2.2c	Laboratories.			SUM		
23	8.3.2.2d	Living accommodation.			SUM		
24	8.3.2.2e	Ablution and latrine facilities.			SUM		
25	8.3.2.2f	Tools and equipment.			SUM		
26	8.3.2.2g	Water supplies, electric power, communications, dealing with water, and access.			SUM		
27	8.3.2.2j	Plant.			SUM		
		Carried to Collection			R		
		Section No. 1 Preliminaries & General Bill No. 1 Preliminaries					

28	8.3.3	Other value related obligations.			SUM		
29	8.3.3.1	Company and head office overhead costs for the management of SMME's in accordance with the contract conditions, including the provision of a dedicated individual to fulfill this function (minimum of 7 SMME's will be utilised).			SUM		
30	8.3.4	Removal of site establishment.			SUM		
	8.4	<u>TIME RELATED ITEMS</u>					
31	8.4.1	Contractual requirements.			SUM		
	8.4.2	<u>Operation and Maintenance of Facilities on Site, for Duration of Construction, (unless otherwise stated)</u>					
	8.4.2.1	<u>Facilities for Engineer</u>					
32	8.4.2.1a	Furnished offices. (In No. 1)			SUM		
33	8.4.2.1b	Telephone.			SUM		
34	8.4.2.1c	Nameboards. (In No. 2).			SUM		
35	8.4.2.1d	Survey assistants and materials.			SUM		
	8.4.2.2	<u>Facilities for Contractor</u>					
36	8.4.2.2a	Offices and storage sheds.			SUM		
37	8.4.2.2b	Workshops.			SUM		
38	8.4.2.2c	Laboratories.			SUM		
39	8.4.2.2d	Living accommodation.			SUM		
40	8.4.2.2e	Ablution and latrine facilities.			SUM		
41	8.4.2.2f	Tools and equipment.			SUM		
		Carried to Collection			R		
		Section No. 1 Preliminaries & General Bill No. 1 Preliminaries					

42	8.4.2.2g	Water supplies, electric power, communications, dealing with water, and access.			SUM	
43	8.4.2.2j	Plant.			SUM	
44	8.4.3	Supervision for duration of construction.			SUM	
45	8.4.4	Company and head office overhead costs for duration of construction.			SUM	
46	8.4.5	Other time related obligations.			SUM	
47	8.4.5.1	Company and head office overhead costs for the management of SMME's in accordance with the contract conditions, including the provision of a dedicated individual to fulfill this function (minimum of 7 SMME's will be utilised).			SUM	
	8.5	<u>PROVISIONAL SUMS FOR:</u>				
48	8.5a.1	Training.	Item			200,000.00
49	8.5b.2	Overheads, charges and profit on (a) above.			SUM	
50	8.5c.3	Specified activities associated with or independent of (a) or (b) above.			SUM	
51	8.5a.4	Enterprise Development.	Item			200,000.00
52	8.5b.5	Overheads, charges and profit on (a) above.			SUM	
53	8.5c.6	Specified activities associated with or independent of (a) or (b) above.			SUM	
54	8.5a.7	Community Liaison Officer.	Item			80,000.00
55	8.5b.8	Overheads, charges and profit on (a) above.			SUM	
		Carried to Collection			R	
		Section No. 1 Preliminaries & General Bill No. 1 Preliminaries				

56	8.5c.9	Specified activities associated with or independent of (a) or (b) above.			SUM		
57	8.5a.10	Landscaping Installation.		Item		100,000.00	
58	8.5b.11	Overheads, charges and profit on (a) above.			SUM		
59	8.5c.12	Specified activities associated with or independent of (a) or (b) above.			SUM		
	8.8	<u>TEMPORARY WORKS</u>					
60	8.8.2	Dealing with or accommodation of traffic.			SUM		
61	8.8.3	The contractor is to provide all temporary works which he deems necessary to complete the project and he must protect all existing structures in the vicinity of the works.			SUM		
62	8.8.4a	Supply or hire of specialist equipment for the detection of all services.			SUM		
63	8.8.4b	Use of the equipment referred to in item (a) above.			SUM		
64	8.8.4d	Temporary protection of services.			SUM		
65	8.8.5.b.2	Cost of survey in terms of the land surveying act.			SUM		
66	8.9	Compliance with the health and safety plan.			SUM		
67	8.9.4	Workman's Compensation Act.			SUM		
		Carried to Collection				R	
		Section No. 1 Preliminaries & General Bill No. 1 Preliminaries					

Item No		Unit	Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 1</u></p> <p><u>DEMOLITIONS</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include for bulking and loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.</p>				
	<p><u>DEMOLITIONS, ETC.</u></p>				
1	Break down and remove existing reinforced concrete steps including carting away all material to a dumping site to be located by the Contractor.	m3	5		
2	Break down and remove existing 150mm thick mesh reinforced concrete surface bed including carting away all material to a dumping site to be located by the Contractor.	m2	10		
3	Hack up and remove existing average 80mm thick asphalt including carting away all material to a dumping site to be located by the contractor.	m2	8,741		
4	Take up and remove existing 60mm thick concrete and clay pavers and cartaway to a dumping site located by the contractor.	m2	1,585		
	Carried to Collection				R
	Section No. 2 Civil Work Bill No. 1 Demolitions				

5	Take up and remove existing 150 x 300mm rectangular concrete kerb (SABS 927 Fig. 3) laid straight, jointed and pointed in 5:1 cement mortar including concrete haunching, concrete kerb gutter not exceeding 300mm wide and cartaway to a dumping site located by the contractor.	m	160		
6	Break down and remove existing brick retaining wall 600mm high including removing strip footings, backfilling and cart away all material to a dumping site to be located by the contractor.	m	165		
7	Take out and remove existing precast concrete palisade fence 2100mm high including 150mm x 50mm precast concrete posts at 1.5m centres including carting away all material to a dumping site to be located by the contractor.	m	165		
8	Take out and remove tree with trunk not exceeding 1000mm including excavating and removing of roots, filling hole with clean dry earthfilling and compacting to road/sidewalk specification.	No	10		
9	Take out and remove tree with trunk exceeding 1000mm but not exceeding 1500mm girth including excavating and removing of roots, filling hole with clean dry earthfilling and compacting to road/sidewalk specification.	No	5		
Carried to Collection					
Section No. 2 Civil Work Bill No. 1 Demolitions				R	

<p>Section No. 2 Bill No. 1 Demolitions <u>COLLECTION</u></p>				
<p>Total Brought Forward from Page No.</p>		<p>Page No 97</p>		<p>Amount</p>
		<p>98</p>		<p>-----</p>
				<p>-----</p>
<p>Carried Forward to Summary of Section No. 2</p>			<p>R</p>	
<p>Section No. 2 Civil Work Bill No. 1 Demolitions</p>				

Item No	SANS Pay Ref		Unit	Quantity	Rate	Amount
		<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 2</u></p> <p><u>GENERAL SITEWORKS</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include for bulking and loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.</p>				
1	SANS1200C 8.2.1	<p><u>SITE CLEARANCE, ETC.</u></p> <p><u>Site clearance:</u></p> <p>Allow for digging up and removing all rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth measured 1m above ground level, etc. including carting away all material to a dumping site to be located by the contractor.</p>	m2	6,292		
2	8.2.10	<p>Strip average 200mm thick layer of topsoil and cartaway to stockpiles on site.</p>	m2	6,292		
		<p><u>ROADS AND PAVEMENTS</u></p> <p>Carried to Collection</p> <p>Section No. 2 Civil Work Bill No. 2 General Siteworks</p>			R	

		<u>Excavations:</u>					
3	<u>SANS 1200A</u> 8.8.4c	Excavation by hand in all material to expose services.	m3	30			
4	<u>SANS1200DM</u> 8.3.4	Open face excavation in earth and soft rock over site to reduce levels including formation of platform compacted to 93% modified AASHTO density in 150mm thick layers with surplus material from the cut operation (cut to fill).	m3	300			
5	8.3.4	Open face excavation in earth and soft rock over site to reduce levels and carting away surplus material from excavations and/or stockpiles on site to a dumping site to be located by the Contractor.	m3	5,829			
6	8.3.4	Open face excavation in hydrocarbon contaminated earth and soft rock over site to reduce levels and carting away surplus material from excavations and/or stockpiles on site to a hazardous material landfill site to be located by the Contractor including disposal, taking of samples, OHS requirements, etc.	m3	1,400			
7	8.3.6a	Extra over open face excavations in earth for excavations in intermediate rock including carting away to a dumping site to be located by the Contractor.	m3	291			
8	8.3.6b	Extra over open face excavations in earth for excavations in hard rock including carting away to a dumping site to be located by the Contractor.	m3	117			
9		Allow for keeping excavations free of all water other than subterranean water.		Item			
		Carried to Collection				R	
		Section No. 2 Civil Work Bill No. 2 General Siteworks					

10	<u>SANS1200DM</u> 8.3.3a	<p><u>Compaction of in-situ surfaces:</u></p> <p>Rip and recompact ground surface, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% modified AASHTO density and trim to required levels.</p>	m2	10,212		
11	<u>SANS1200MF</u> 8.3.3	<p><u>Sub-base Course:</u></p> <p>Selected imported G7 (commercial sources) natural gravel in 150mm layers and spread, level, water and compact to 95% modified AASHTO density.</p>	m3	1,725		
12	<u>SANS1200ME</u> 8.3.3	<p><u>Base Course:</u></p> <p>Selected imported G7 (commercial sources) natural gravel in 150mm layers and spread, level, water and compact to 95% modified AASHTO density.</p>	m3	317		
13	<u>SANS1200ME</u> 8.3.3	Selected imported G5 (commercial sources) natural gravel in 150mm layers and spread, level, water and compact to 95% modified AASHTO density.	m3	1,258		
14	8.3.3	Selected imported G6 (commercial sources) (C4 after stabilisation) natural gravel in 150mm layers and spread, level, water and compact to 98% modified AASHTO density.	m3	467		
15	8.3.3	Selected imported G1 (commercial sources) natural gravel in 150mm layers and spread, level, water and compact to 88% of apparent density.	m3	20		
		Carried to Collection				
		Section No. 2 Civil Work Bill No. 2 General Siteworks				
					R	

16	8.3.2	Selected earth filling obtained from the excavations and/or prescribed stock piles on site in layers of 150mm thick compacted to 95% Mod AASHTO density	m3	80		
	<u>SANS1200MH</u> 8.5.4	<u>Bitumen Treated Base:</u>				
17	8.5.4	Bitumen treated base (BTB) with a maximum aggregate size of 26.5mm.	t	20		
	<u>SANS1200ME</u>	<u>Stabilisation:</u>				
18	8.3.5(d)	Process base/sub-base course by stabilisation (cement elsewhere).	m3	467		
19	8.3.8	Stabilising with ordinary portland cement at the rate of 3% by mass.	t	29		
		<u>Soil Tests:</u>				
		Note : Prices for soil tests must be included in the contractor's rates for earthworks items.				
		Additional soil tests to be carried out as directed by the Engineer:				
20		Modified AASHTO density tests.	No	1		
		Carried to Collection			R	
		Section No. 2 Civil Work Bill No. 2 General Siteworks				

Item No	SANS Pay Ref		Unit	Quantity	Rate	Amount
		<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 3</u></p> <p><u>PAVING, KERBS, ETC.</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include for bulking and loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.</p>				
		<p><u>PAVING</u></p> <p>Approved brand of anti-termite soil poison & weedkiller is to be applied under paving at a rate of 50 grams per square meter by a Registered Company and guaranteed for ten years.</p> <p>Paving shall be laid in accordance with SABS 1200MJ, SABS 1058 and the Concrete Masonry Association's specifications.</p> <p>Paving shall be laid on 25mm (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere).</p> <p>Clean plaster sand shall be swept into joints between roadstones.</p>				
		<p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Civil Work Bill No. 3 Paving, Kerbs, etc.</p>			R	

	SANS1200MJ 8.2.2	<u>Type S-C concrete block paving (35mpa) composed of 60mm thick standard grey interlocking precast concrete blocks laid in herringbone pattern bedded on and including 25mm thick bed of river sand:</u>				
1	8.2.2	Paving to roads, parking areas, pavements, etc. to falls including any consequent cutting (circular cutting elsewhere).	m2	1,585		
2	8.2.3	Extra for circular cutting not exceeding 2m radius.	m	79		
	8.2.2	<u>Type S-C concrete block paving (35mpa) composed of 80mm thick standard grey interlocking precast concrete blocks laid in herringbone pattern bedded on and including 25mm thick bed of river sand:</u>				
3	8.2.2	Paving to roads, parking areas, pavements, etc. to falls including any consequent cutting (circular cutting elsewhere).	m2	6,292		
4	8.2.3	Extra for circular cutting not exceeding 2m radius.	m	315		
		<u>One layer of 250 micron waterproof sheeting sealed at laps with pressure sensitive tape:</u>				
5		Under paving blocks.	m2	7,877		
	SANS1200MK 8.2.1	<u>KERBS</u>				
		Carried to Collection			R	
		Section No. 2 Civil Work Bill No. 3 Paving, Kerbs, etc.				

	8.2.1	<u>150 x 300mm Half-battered concrete kerb (SABS 927 Fig. 3) jointed and pointed in 5:1 cement mortar and bedded in 15mpa concrete including all necessary excavation, backfilling, carting away, continuous concrete haunching on curves, concrete haunching at joints on straights, etc.:</u>				
6	8.2.1	Laid straight.	m	1,072		
7	8.2.1	Laid circular on plan not exceeding 4m radius.	m	268		
	8.2.1	<u>75 x 150mm Rectangular concrete garden kerb (SABS 927 Fig. 12) jointed and pointed in 5:1 cement mortar and bedded in 15mpa concrete including all necessary excavation, backfilling, carting away, concrete haunching, etc.:</u>				
8	8.2.1	Laid straight.	m	80		
	8.2.1	<u>300 x 175mm Mountable concrete kerb (SABS 927 Fig. 8b) jointed and pointed in 5:1 cement mortar and bedded in 15mpa concrete including all necessary excavation, backfilling, carting away, continuous concrete haunching on curves, concrete haunching at joints on straights, etc.:</u>				
9	8.2.1	Laid straight.	m	50		
10	8.2.1	Laid circular on plan exceeding 4m radius.	m	20		
		Carried to Collection			R	
		Section No. 2 Civil Work Bill No. 3 Paving, Kerbs, etc.				

	8.2.1	<u>180 x 280mm Rectangular semi-mountable concrete kerb (SABS 927 Fig. 7) jointed and pointed in 5:1 cement mortar and bedded in 15mpa concrete including all necessary excavation, backfilling, carting away, continuous concrete haunching on curves, concrete haunching at joints on straights, etc.:</u>				
11	8.2.1	Laid straight.	m	320		
12	8.2.1	Laid circular on plan not exceeding 4m radius.	m	40		
	<u>SANS1200MK</u> 8.2.6.1	<u>Sundries</u>				
13	8.2.1	25Mpa/19mm Concrete kerb gutter size overall 150 x 120mm deep extreme finished smooth with a steel trowel on all exposed surfaces to a uniform dense finish with closed cell expanded polyethylene filler and polyurethane sealant expansion joints at 2m centres including all necessary excavation, backfilling, formwork, dowels, etc.	m	1,072		
14	8.2.1	25Mpa/19mm Concrete kerb gutter circular on plan size overall 150 x 120mm deep extreme finished smooth with a steel trowel on all exposed surfaces to a uniform dense finish with closed cell expanded polyethylene filler and polyurethane sealant expansion joints at 2m centres including all necessary excavation, backfilling, formwork, dowels, etc.	m	268		
		Carried to Collection			R	
		Section No. 2 Civil Work Bill No. 3 Paving, Kerbs, etc.				

15	<u>SANS1200GB</u> 8.1.1	30Mpa/19mm Concrete edge beam size 300 x 200mm deep finished smooth on all exposed surfaces to a uniform dense finish with one top corner having a 25 x 25mm chamfer with and including closed cell expanded polyethylene filler and polyurethane sealant expansion joints at 6m centres and saw cut construction joints and sealant at 2m centres including all necessary excavation, backfilling, cutting into paving, formwork, dowels, etc.	m	50		
16	8.1.1	330 x 330 x 100mm thick precast concrete pavers with non-slip ribbed surface laid with butt joints on and including 25mm thick river sand bed, with dry sand and cement mixture filled and lightly compacted into joints, all laid on subgrade (elsewhere measured) conforming to SABS 1200D degree of accuracy I (as per attached JRA Drawing JRA-SD-R016).	m ²	10		
17	8.1.1	25Mpa/19mm Concrete in triangular shaped ramps to transition area of footpaths, size overall 900 x 900 x 100mm thick including all necessary formwork, reinforcement, cutting into paving, finishing top surfaces to an evenly ribbed non-slip finish, etc.	No	20		
18	<u>SANS1200MM</u> 8.3.4	30Mpa/19mm Concrete in surrounds to existing posts, manholes, etc. size overall 300 x 300 x 80mm thick including all necessary formwork, movement joints, cutting into paving, finishing top surfaces to a smooth finish, steel ruled joints all round top, casting around existing posts, manholes, etc.	No	30		
Carried to Collection						
Section No. 2 Civil Work Bill No. 3 Paving, Kerbs, etc.						R

19	8.3.4	30Mpa/19mm Concrete in surrounds to existing posts, manholes, etc. size overall 450 x 450 x 80mm thick including all necessary formwork, movement joints, cutting into paving, finishing top surfaces to a smooth finish, steel ruled joints all round top, casting around existing posts, manholes, etc.	No	20		
20	8.3.4	30Mpa/19mm Concrete in surrounds to existing posts, manholes, etc. size overall 1000 x 1000 x 80mm thick including all necessary formwork, movement joints, cutting into paving, finishing top surfaces to a smooth finish, steel ruled joints all round top, casting around existing posts, manholes, etc.	No	5		
21		<p><u>FENCING</u></p> <p><u>Security fencing 1,80m high formed of three strands of 5mm diameter galvanised mild steel straining wire mechanically strained at 600mm centres between straining and/or gate and corner posts at maximum 3m centres; each strand tied at maximum 600mm centres to and including 35mm x 40mm steel Y-section intermediate dropper with and including 2mm galvanised binding wire, all set in and including 300 x 300 x 300mm mass concrete base including all excavations, backfilling, concrete, etc.; the fence covered with and including 50 x 50mm galvanised diamond mesh fencing of 2mm diameter galvanised mild steel wire strained and secured to posts and straining wires with and including 2mm galvanised binding wire:</u></p> <p>Fence laid straight.</p>	m	255		
		Carried to Collection			R	
		Section No. 2 Civil Work Bill No. 3 Paving, Kerbs, etc.				

22		<p>Double pedestrian gate size overall 2000 x 1800mm high formed of 120 x 80 x 4mm thick hollow section framed frame including 2No. intermediate fixing posts size 80 x 80 x 3mm thick including 60 x 150 x 3mm thick angle section clamping plate (8No per post), and the whole infilled with and including "Cochrane ClearVu", or equal approved, black powder coated pressed high density mesh panel fencing with v-section reinforcing ribs, 60 x 60 x 5mm padlock holed rounded straps, installed in strict accordance with the manufacturers instructions.</p>	No	1		
23		<p>Sliding vehicular gate size overall 7500 x 1800mm high formed of 120 x 80 x 4mm thick hollow section framed frame including 2No. intermediate fixing posts size 80 x 80 x 3mm thick including 60 x 150 x 3mm thick angle section clamping plate (8No per post), and the whole infilled with and including "Cochrane ClearVu", or equal approved, black powder coated pressed high density mesh panel fencing with v-section reinforcing ribs, 60 x 60 x 5mm padlock holed rounded straps, 3No x 150mm diameter steel wheels, 40mm diameter rollers and brackets, including T-section sliding track cast in concrete (concrete elsewhere) installed in strict accordance with the manufacturers instructions.</p>	No	1		
24		<p><u>Boundary wall and signage wall:</u></p> <p>25Mpa/19mm Concrete strip footing size 750 x 300mm deep including all necessary excavation (1.5m deep), backfilling, cutting into paving, formwork, reinforcement at 60kg/m³, etc.</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Civil Work Bill No. 3 Paving, Kerbs, etc.</p>	m	125	R	

25	One brick wall in foundations in extra hard burnt clay NFX bricks in 3:1 cement mortar.	m2	150		
26	One brick wall formed of face bricks (FBS) on both sides with a PC amount of R3,500.00 per thousand bricks delivered to site (excluding VAT) pointed with square recessed horizontal and vertical joints.	m2	300		
27	Extra over brickwork for 230mm wide brick-on-edge header course coping pointed all round.	m	125		
	<u>RETAINING STRUCTURES</u>				
28	25Mpa/19mm Concrete strip footing size 600 x 300mm deep with and including top and bottom toe and all necessary excavation, backfilling, cutting into paving, formwork, reinforcement at 60kg/m3, etc. (As per attached Engineer's drawing DA05-05-CS-WTH02, Foundation type 2).	m	123		
	<u>Precast concrete interlocking planter blocks finished smooth on exposed surfaces:</u>				
29	Design, supply and install segmental retaining wall, formed of "Terraforce L18 Standard Grey Finish" interlocking reversible blocks to suit a 25 degree slope on foundation (foundation elsewhere) and filling the blocks with granular soil lightly tamped as the work proceeds, including trimming of batters and 300mm backfill with granular stone/sand material as the work proceeds (As per attached Engineer's drawing DA05-05-CS-WTH02, Foundation type 2).	m2	1,500		
	Carried to Collection			R	
	Section No. 2 Civil Work Bill No. 3 Paving, Kerbs, etc.				

	SANS1200MM 8.4.1	<u>ROAD MARKINGS</u>					
	8.4.1	<u>Prepare and paint one coat approved white, red or yellow 1.25mm thick thermoplastic, reflective road marking paint with Class 1 reflective beads within the paint on asphalt surface as per "The Southern African Development Community - Road Traffic Signs Manual (SARTSM), June 1999 Edition, Volumes 1 to 4" all in accordance with SABS 1091-1975:</u>					
30	8.4.1	300mm Wide broken or continuous lines. Code: RTM1.	m	150			
31	8.4.1	100mm Wide broken or continuous lines. Code: RM1.	m	1,058			
32	8.4.1	Kerb marking. Code: GM8.	m	81			
33	8.4.1	2400mm High letters. Code: GM7.	No	8			
34	8.4.1	2400mm High symbol. Code: WM5.	No	2			
35	8.4.1	Statutory direction arrows 4000mm long. Codes: WM7.1, WM7.2, WM7.3, WM7.5, RM8.1 & RM8.5.	No	2			
	8.3.6	<u>ROAD SIGNS</u>					
		Carried to Collection				R	
		Section No. 2 Civil Work Bill No. 3 Paving, Kerbs, etc.					

	8.3.6	<u>Class 1 retro-reflective road sign complying with the requirements of "The Southern African Development Community - Road Traffic Signs Manual (SARTSM), June 1999 Edition, Volumes 1 to 4" all in accordance with SABS 1519, including galvanised steel support post 76mm diameter x 3mm thick x 2500mm long above finished ground level and minimum 600mm from road edge (to edge of sign) including all necessary excavation, backfilling, etc. including setting post in 25Mpa concrete base size 600mm diameter x 900mm minimum thickness:</u>				
36	8.3.6	600mm Diameter 'STOP' sign. Code: R1.	No	2		
37	8.3.6	600mm Diameter 'NO ENTRY' sign. Code: R3.	No	1		
38	8.3.6	600mm Diameter 'MINIBUS PARKING RESERVATION SIGN' sign. Code: R310-P.	No	8		
39	8.3.6	600mm Diameter 'NO PARKING' sign. Code: R216.	No	4		
40	8.3.6	'PUBLIC TRANSPORT' sign. Code: GS701.	No	4		
41	8.3.6	450 x 100mm 'STREET NAME' sign as per JRA specifications. Code: GL1.	No	2		
42	8.3.6	600mm Diameter 'HAWKERS PROHIBITED' sign on two sides of pole. Code: R241.	No	4		
		Carried to Collection			R	
		Section No. 2 Civil Work Bill No. 3 Paving, Kerbs, etc.				

43	8.3.6	<p>Take up and remove to stockpiles existing signage post approximately 2.5m high including concrete base approximately 1m below natural ground level, and carefully remove & cart away concrete base to a dumping site to be located by the contractor and re-installing signage post (from stockpiles) in a new position within a 200m radius including all necessary excavation, backfilling, etc. and setting post in 25Mpa concrete base size 600mm diameter x 900mm minimum thickness.</p> <p><u>FOLLOWING IN RESURFACING TO ROADWAYS</u></p> <p>Rates for the items below are to include for establishment of necessary plant & equipment, transporting the plant & equipment on the site for a radius not exceeding 1,0 km, milling at the edges for key, patching & repairing edge breaks and working around bellmouths.</p> <p><u>Prime Coat:</u></p>	No	2		
	SANS1200MH 8.5.1					
44	8.5.1	Cut back bitumen type MC-30 for road resurfacing.	m2	2,335		
	8.5.3	<u>Tack Coat:</u>				
45	8.5.3	Spray Surface using 60% anionic stable grade emulsion diluted with water in a ratio of 1:1 to roadways.	m2	2,335		
	8.5.4	<u>Asphalt Surfacing:</u>				
46	8.5.4	Continuously graded, medium grade using 60/70 penetration bitumen to 40mm thickness.	m2	2,335		
		<p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Civil Work Bill No. 3 Paving, Kerbs, etc.</p>			R	

Item No	SANS Pay Ref		Unit	Quantity	Rate	Amount
		<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 5</u></p> <p><u>STORMWATER, SEWER, WATER RETICULATION</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include for bulking and loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.</p> <p><u>Location of existing services:</u></p> <p>Location & protection of all municipal or other services identified or unknown, for the duration of the contract, are to be included in the contractors tendered rates.</p>				
1	<p><u>SANS1200LE</u> 8.2.1</p> <p>8.2.1</p>	<p><u>STORMWATER RETICULATION</u></p> <p>Locate, disconnect, seal off and infill existing grid inlet catchpit size overall 800 x 600mm x 600mm deep with mass concrete.</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Civil Work Bill No. 4 Stormwater, Sewer, Water Reticulation</p>	No	2		
					R	

2	8.2.1	<p><u>Precast concrete pipes laid in ground:</u></p> <p>300mm Diameter precast reinforced concrete pipe to SABS 677 Type SC Class 100D with spigot and socket joints including laying in ground to falls on and including Class B bedding (SABS 1200 LB) and selected fill blanket, including excavation 700mm wide & exceeding 1000mm and not exceeding 2000mm deep and backfilling to 93% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.</p>	m	270		
3	8.2.1	<p>375mm Diameter precast reinforced concrete pipe to SABS 677 Type SC Class 100D with spigot and socket joints including laying in ground to falls on and including Class B bedding (SABS 1200 LB) and selected fill blanket, including excavation 800mm wide & exceeding 1000mm and not exceeding 2000mm deep and backfilling to 93% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.</p>	m	39		
		<p align="center">Carried to Collection</p> <p>Section No. 2 Civil Work Bill No. 4 Stormwater, Sewer, Water Reticulation</p>			R	

4	8.2.1	600mm Diameter precast reinforced concrete pipe to SABS 677 Type SC Class 100D with spigot and socket joints including laying in ground to falls on and including Class B bedding (SABS 1200 LB) and selected fill blanket, including excavation 1020mm wide & not exceeding 1000mm deep and backfilling to 93% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	27		
5	8.2.1	Ditto, but exceeding 1000mm and not exceeding 2000mm deep.	m	12		
6	<u>SANS1200DB</u> 8.3.2(b)(1)	Extra over trench excavations for intermediate excavation.	m3	49		
7	8.3.2(b)(2)	Extra over trench excavations for hard excavation.	m3	25		
		Carried to Collection				
		Section No. 2 Civil Work Bill No. 4 Stormwater, Sewer, Water Reticulation			R	

8	<p>SANS1200LE 8.2.8</p> <p>8.2.8</p>	<p><u>Grid inlets, kerb inlets, etc.:</u></p> <p>Excavate in earth for and including rectangular type grid inlet with upper chamber size overall size 3340 x 1110 x 700mm deep and lower chamber size overall size 1360 x 1360 x 1500mm deep to invert with one brick wall sides in engineering bricks built in english bond on and including 25Mpa insitu concrete base 100mm thick with ref 245 mesh reinforcing, rendered smooth internally in 1:5 cement mortar, benching up bottom in 15Mpa concrete finished off smooth and average 100mm thick 25Mpa concrete cover slab with 3No. 900 x 500 x 80mm thick "Blitz Besson", or equal approved, grid covers set on and including angle section frame and heavy duty road type manhole cover and lockable frame as type 2A set in cement mortar and sealed in tallow including leaving or forming opening size 375mm diameter in wall for inlet and 600mm diameter hole for outlet pipe including all formwork, reinforcing, backfilling, compacting, transition kerbs, concrete corner supports, etc.</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Civil Work Bill No. 4 Stormwater, Sewer, Water Reticulation</p>	No	5	R	
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9	8.2.8	<p>Excavate for and build kerb inlet catchpit size 2050 x 2050 x 800mm deep internally to invert with one brick wall sides in engineering bricks built in english bond on and including 20Mpa insitu concrete base 75mm thick with ref 245 mesh reinforcing, rendered smooth internally in 1:5 cement mortar, benching up bottom in 20Mpa concrete finished off smooth and 75mm thick 25Mpa concrete cover slab with ref 245 mesh reinforcing size 2000 x 1000mm on 80 x 80 x 5mm angle section frame including leaving or forming opening size 450mm diameter in wall for inlet and 450mm diameter hole for outlet pipe including all formwork, reinforcing, backfilling, compacting, transition kerbs etc.</p>	No	10		
		<p>Carried to Collection</p> <p>Section No. 2 Civil Work Bill No. 4 Stormwater, Sewer, Water Reticulation</p>			R	

10	8.2.8	<p>Excavate in compacted earth for and build triangular shaped stormwater outlet structure size 2000mm at head, 1040mm at base and 1800mm along sides formed of 250mm thick 20mpa concrete base with 2No. 150mm thick x 1500mm high 20mpa wingwalls tapering to 150mm high at lower end and 150mm thick x 400mm deep 20mpa concrete footing along base end including ref 617 mesh reinforcing in slab, walls and footings, cast on top of 25mm thick polyethylene sheet, the top of the base inlaid with 3No. figure 3 kerb energy dissipators protruding 200mm above the surface of the concrete and stone pitching (method 1) placed at the base of the outlet structure for a length of 1400mm including all formwork, reinforcing, backfilling, compacting, etc. (As per attached Engineers Drawing DA05-05-SW-WTH03).</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Civil Work Bill No. 4 Stormwater, Sewer, Water Reticulation</p>	No	1		
					R	

11	8.2.8	<p>Excavate for and build grease trap chamber size 2800 x 3500 x 1400mm deep internally to invert with one brick wall sides in engineering bricks built in english bond on and including 25Mpa insitu concrete base 150mm thick with ref 245 mesh reinforcing, rendered smooth internally in 1:5 cement mortar, benching up bottom in 20Mpa concrete finished off smooth and 100mm thick 25Mpa concrete cover slab with ref 245 mesh reinforcing and 2No. x 1000mm diameter openings for and including type 2A manhole covers, including leaving or forming opening size 600mm diameter in wall for inlet and 600mm diameter hole for outlet pipe including all formwork, reinforcing, backfilling, compacting, transition kerbs etc.</p>	No	1		
12	8.2.8	<p>"HAC Industrial Fatmaster" or equal approved manual fattrap (4 litre / second capacity), size 1000 x 2000 x 1200mm, of fibreglass construction with standard inlet and outlet pipes, fibreglass lid, etc. installed complete in and including manhole with one brick wall sides in engineering bricks built in english bond on and including 20Mpa insitu concrete base 75mm thick with ref 245 mesh reinforcing, rendered smooth internally in 1:5 cement mortar, benching up bottom in 20Mpa concrete finished off smooth and 75mm thick 25Mpa concrete cover slab with ref 245 mesh reinforcing including all formwork, reinforcing, backfilling, compacting, etc. all in strict accordance with the manufacturer's instructions.</p>	No	1		
		<p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Civil Work Bill No. 4 Stormwater, Sewer, Water Reticulation</p>			R	

13	8.2.8	Allow for cleaning existing kerb inlets, manholes. etc. (various sizes) of all rubbish, debris, etc., including cleaning of the inlet & outlet pipes for 20 metres in both directions, including removal of existing lids, relaying existing lids as per Engineer's instructions, making good & carting away all rubbish, debris, etc. to a dumping site to be located by the contractor.	No	10		
14	8.2.8	Allow for jet cleaning existing kerb inlets, manholes. etc. (various sizes) of all rubbish, debris, etc., including cleaning of the inlet & outlet pipes in both directions, including removal of existing lids, relaying existing lids as per Engineer's instructions, making good & carting away all rubbish, debris, etc. to a dumping site to be located by the contractor.	No	1		
	8.2.8	<u>Manhole covers, gratings, frames, etc.:</u>				
15	8.2.8	300 x 300mm Polymer concrete cover slab including frame as supplied by "civil cultured polymer products cc".	No	10		
16	8.2.8	450 x 450mm Polymer concrete cover slab including frame as supplied by "civil cultured polymer products cc".	No	5		
17	8.2.8	1000 x 1000mm Polymer concrete cover slab including frame as supplied by "civil cultured polymer products cc".	No	2		
Carried to Collection						
Section No. 2 Civil Work Bill No. 4 Stormwater, Sewer, Water Reticulation						R

18	SANS1200L	<p><u>Connections:</u></p> <p>Cut into existing stormwater manhole for and connect new 450mm diameter precast concrete pipe, including temporary sealing off, diverting, backfilling, liaising with the authorities, making good on completion.</p>	No	5		
19	<u>SANS1200L</u> 8.2.1	<p><u>WATER SUPPLY</u></p> <p><u>uPVC Pressure piping to SABS 966 with solvent welded joints (Diameters given are outside diameters)</u></p> <p>32mm Diameter Class 12 pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation not exceeding 1000mm deep and backfilling to 90% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.</p>	m	107		
20	8.2.1	<p>32mm Diameter Class 12 pipe laid in ground to falls, across existing road, on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation not exceeding 1000mm deep and backfilling to 90% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, traffic accommodation, remove of existing surfaces and reinstatement on completion, etc.</p>	m	28		
21	<u>SANS1200L</u> 8.2.2	<p><u>Extra on 32mm diameter uPVC pipe for</u></p> <p>End cap.</p>	No	2		
		<p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Civil Work Bill No. 4 Stormwater, Sewer, Water Reticulation</p>			R	

22	8.2.2	Tee.	No	6		
		<u>Valves and hydrants:</u>				
23	<u>SANS1200L</u> 8.2.2	100mm Diameter "Woodlands" underground hydrant or equal approved with duckfoot bend, flange, and London V-thread coupling, anti-clockwise closing, including cap and chain.	No	1		
24	8.2.3	100mm Diameter gate valve (RSV) and hand wheel with socket end for uPVC, non rising spindle and anti-clockwise closing.	No	1		
		<u>Valve chambers:</u>				
25	<u>SANS1200L</u> 8.2.13	Valve chamber size 730 x 730 x 1200mm deep internally with 220mm brick walls in engineering bricks including Salberg or equal approved hydrant box and all necessary excavation, backfilling, formwork, etc. (as per Attached Johannesburg Water Drawing DWG3).	No	1		
		<u>Water Meters:</u>				
26	<u>SANS1200LF</u> 8.2.4	100mm "Woltmann WP Type Class B" or equal approved water meter with and including internal piping, valves, fittings, adaptors, base plate, excavation, backfilling, etc. installed in strict accordance with the manufacturers instructions.	No	1		
		<u>Connections:</u>				
27		Cut into existing 110mm diameter water pipe for and connect new 32mm diameter uPVC pipe, including temporary sealing off, diverting, backfilling, liaising with the authorities, making good on completion.	No	1		
		Carried to Collection			R	
		Section No. 2 Civil Work Bill No. 4 Stormwater, Sewer, Water Reticulation				

	SANS1200LD	<u>SOIL DRAINAGE</u>				
28	<u>SANS1200LD</u> 8.2.1	<u>uPVC pressure piping to SABS 966 with solvent welded joints (Diameters given are outside diameters):</u> 110mm Diameter Class 4 (400kpa) structured pipe laid in ground to falls on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth 1000mm wide and not exceeding 1000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, etc.	m	107		
29	8.2.1	110mm Diameter Class 4 (400kpa) structured pipe laid in ground to falls, across existing road , on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth 1000mm wide and exceeding 1000mm deep and not exceeding 2000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, traffic accommodation, remove of existing surfaces and reinstatement on completion , etc.	m	15		
		Carried to Collection			R	
		Section No. 2 Civil Work Bill No. 4 Stormwater, Sewer, Water Reticulation				

30	8.2.1	<p>110mm Diameter Class 4 (400kpa) structured pipe laid in ground to falls, across existing road, on and including Class B bedding (SABS 1200LB) and selected fill blanket, including excavation in compacted earth 1000mm wide and exceeding 2000mm deep and not exceeding 3000mm deep and backfilling to 95% modified AASHTO density in 150mm layers, including carting away surplus excavated material, risk of collapse, dewatering of trenches, traffic accommodation, remove of existing surfaces and reinstatement on completion, etc.</p> <p><u>Extra on 110mm diameter uPVC pipes for fittings:</u></p>	m	13		
31	<u>SANS1200LD</u> 8.2.2	<p>Tee.</p> <p><u>Sleeves:</u></p>	No	6		
32	<u>SANS1200L</u> 8.2.1	<p>150mm Diameter galvanised mild steel sleeve suspended in existing stormwater channel to falls to house sewer pipe (sewer pipe elsewhere) including forming 2No. x 150mm diameter holes in existing stormwater channel walls and making good on completion.</p> <p><u>Concrete anchor blocks and pipe surrounds:</u></p>	m	5		
33	<u>SANS1200LD</u> 8.2.9	<p>15Mpa concrete in anchor or thrust blocks including additional excavation, all necessary formwork, working around pipes, etc.</p>	m3	1		
		<p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Civil Work Bill No. 4 Stormwater, Sewer, Water Reticulation</p>			R	

		<p><u>Excavate in earth for and including circular type precast concrete manhole formed of 1500mm diameter x 200mm thick 25Mpa concrete slab with manhole formed of 1500mm diameter (internally) precast concrete rings with joints sealed with bituminous putty with and including 1200mm diameter (internally) precast concrete reducer slab 150mm thick and precast concrete spacer rings 675mm diameter (internally) precast concrete cover slab 150mm thick with opening for and including heavy duty road type manhole cover and lockable frame as type 2A set in cement mortar and sealed in tallow and with 20Mpa concrete benching in bottom floated smooth with falls and finished on all exposed surfaces with 25mm thick granolithic with angles rounded including all necessary excavation, backfilling, carting away, risk of collapse, shoring, dewatering, concrete blinding, formwork, step irons, etc.:</u></p>					
34		Manhole exceeding 1000mm and not exceeding 1500mm deep.	No	1			
35		Manhole exceeding 1500mm and not exceeding 2000mm deep.	No	1			
36		Manhole exceeding 2000mm and not exceeding 2500mm deep.	No	1			
37		<p><u>Connections:</u></p> <p>Cut into existing sewer manhole for and connect new 110mm diameter uPVC pipe, including temporary sealing off, diverting, backfilling, liaising with the authorities, making good on completion.</p>	No	1			
		<p>Carried to Collection</p> <p>Section No. 2 Civil Work Bill No. 4 Stormwater, Sewer, Water Reticulation</p>				R	

Item No	SANS Pay Ref		Unit	Quantity	Rate	Amount
		<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 6</u></p> <p><u>STREET FURNITURE</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include for bulking and loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site.</p>				
	<p>SANS1200GB 8.2.5.1a</p>	<p><u>FOLLOWING IN STREET FURNITURE</u></p>				
	8.2.5.1a	<p><u>Mild Steel Bollards:</u></p>				
1	8.2.5.1a	<p>20Mpa Reinforced concrete in base for bollards (elsewhere measured) size overall 300mm x 300mm x 300mm deep with top surface to be finished smooth with a steel trowel and steel ruled joints all round top of base, including any necessary excavation, formwork, cartaway, finishing top surface smooth with a steel float, etc.</p>	No	10		
		<p style="text-align: center;">Carried to Collection</p> <p>Section No. 2 Civil Work Bill No. 5 Street Furniture</p>			R	

2	8.2.5.1f	120mm Diameter x 1140mm long galvanised mild steel bollards with 3No. x 160mm diameter mild steel rings welded to top of bollard; bollard in-filled with 15mpa mass concrete and planted 240mm in concrete base (base elsewhere) including taking delivery, storing, filling bollard with concrete and casting in position when required in strict accordance with the manufacturer's instructions.	No	10		
3	8.2.5.1a 8.2.5.1a	<p><u>Garbage bins:</u></p> <p>20Mpa mass concrete in base for garbage bins (elsewhere measured) size overall 300 x 300 x 400mm deep with top surface to be finished smooth with a steel trowel and steel ruled joints all round top of base, embedded on excavated surface, including any necessary excavation, backfilling, cartaway, formwork, finishing top surface smooth with a steel float, etc.</p>	No	40		
4		400mm Diameter x 560mm deep "Voltan" galvanised mild steel perforated fixed bin by "Enviro-Elements" or equal approved with two posts (post size 50mm diameter x 960mm long) in-filled with 15mpa mass concrete & cast 200mm deep into concrete base (base elsewhere measured) including taking delivery, storing, filling poles with concrete and casting in position when required in strict accordance with the manufacturer's instructions.	No	20		
		<p>Carried to Collection</p> <p>Section No. 2 Civil Work Bill No. 5 Street Furniture</p>			R	

Bill No	SECTION SUMMARY - Civil Work		Page No		Amount
1	Demolitions		99		
2	General Siteworks		104		
3	Paving, Kerbs, etc.		116		
4	Stormwater, Sewer, Water Reticulation		130		
5	Street Furniture		133		
Carried to Final Summary					R
Section No. 2 Civil Work					

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 1</u></p> <p><u>EARTHWORKS</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></p>			
	<p><u>EXCAVATION OTHER THAN BULK</u></p> <p><u>Excavation in earth not exceeding 2m deep in:</u></p>			
1	Trenches.	m3	63	
	<p><u>Extra over excavations other than bulk in earth for excavation in:</u></p>			
2	Soft rock.	m3	6	
3	Hard rock.	m3	3	
	<p><u>RISK OF COLLAPSE</u></p> <p><u>Risk of collapse to:</u></p>			
4	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	418	
	<p><u>CARTING AWAY</u></p> <p><u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u></p>			
5	Off site to a dumping site to be located by the Contractor.	m3	63	
	Carried to Collection			R
	Section No. 3 Building Work Bill No. 1 Earthworks			

	<u>EARTH FILLING, ETC.</u>				
	<u>Filling with material from excavations including hauling, spread, level, water and compact to a density of at least 93% Mod. AASHTO maximum density in 150mm thick layers:</u>				
6	Backfilling to trenches, holes, etc.	m3	36		
	<u>KEEP EXCAVATIONS FREE OF WATER</u>				
7	Allow for keeping excavations free of water.		Item		
	<u>SOIL POISONING</u>				
	<u>Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:</u>				
8	Under floors, etc. including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming.	m2	476		
9	To bottom and sides of trenches, etc.	m2	418		
	Carried to Collection				
	Section No. 3 Building Work Bill No. 1 Earthworks			R	

<p>Section No. 3 Bill No. 1 Earthworks <u>COLLECTION</u></p>			
<p>Total Brought Forward from Page No.</p>	<p>Page No 135 136</p>		<p>Amount</p>
			<p>----- -----</p>
<p>Carried Forward to Summary of Section No. 3</p> <p>Section No. 3 Building Work Bill No. 1 Earthworks</p>		<p>R</p>	

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 2</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></p>			
	<p><u>UNREINFORCED CONCRETE</u></p> <p><u>15MPa/19mm Concrete in:</u></p>			
1	Surface blinding under footings, bases, etc.	m3	6	
	<p><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></p> <p><u>30MPa/19mm Concrete in:</u></p>			
2	Raft foundation.	m3	134	
	<p><u>REINFORCED CONCRETE</u></p> <p><u>25MPa/19mm Concrete in:</u></p>			
3	Apron slab cast in panels.	m3	16	
	<p><u>CONCRETE SUNDRIES</u></p> <p><u>Finishing top surfaces of concrete smooth with a wood float:</u></p>			
4	Surface beds, slabs, etc.	m2	637	
	Carried to Collection			R
	<p>Section No. 3 Building Work Bill No. 2 Concrete, Formwork and Reinforcement</p>			

	<u>25MPa non-shrink grout:</u>				
	Non-shrink grout shall be 1:2 cement and sand mixture, mixed dry until uniform in colour before adding water.				
5	Bedding approximately 30mm thick under 200 x 120mm base plate including chamfered edges all round.	No	50		
	<u>Holding down bolts:</u>				
6	Provide template for and embed set of two 16mm diameter x 200mm long steel holding down bolts (bolts elsewhere) into top of foundation base in exact position.	No	50		
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
	<u>Rough formwork to sides of:</u>				
7	Ground beams.	m ²	418		
8	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	644		
	<u>MOVEMENT JOINTS, ETC.</u>				
	<u>Expansion joints with Bitumen impregnated softboard between vertical concrete surfaces:</u>				
9	10mm Thick joint not exceeding 300mm high or wide.	m	286		
	<u>REINFORCEMENT</u>				
	<u>Mild steel reinforcement</u>				
10	Various size bars	t	2.51		
	<u>High tensile steel reinforcement</u>				
11	Various size bars	t	3.76		
	Carried to Collection				
	Section No. 3 Building Work Bill No. 2 Concrete, Formwork and Reinforcement			R	

	<u>Fabric reinforcement with minimum 400mm wide overlaps:</u>				
12	Type 100 fabric reinforcement in concrete surface beds, slabs, etc.	m2	161		
13	Type 245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	952		
Carried to Collection					
Section No. 3 Building Work Bill No. 2 Concrete, Formwork and Reinforcement				R	

<p>Section No. 3 Bill No. 2 Concrete, Formwork and Reinforcement <u>COLLECTION</u></p>			
<p>Total Brought Forward from Page No.</p>	<p>Page No 138 139 140</p>		<p>Amount</p>
<p>Carried Forward to Summary of Section No. 3</p>		<p>R</p>	
<p>Section No. 3 Building Work Bill No. 2 Concrete, Formwork and Reinforcement</p>			

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 3</u>			
	<u>MASONRY</u>			
	<u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u>			
	<u>BRICKWORK IN SUPERSTRUCTURE</u>			
	<u>Brickwork in burnt clay NFP bricks in 3:1 cement mortar:</u>			
1	Piers.	m3	3	
2	Half brick walls.	m2	88	
3	One brick walls.	m2	964	
4	Half brick kerbs 170mm high.	m	6	
	<u>BRICKWORK SUNDRIES</u>			
	<u>Brick reinforcement:</u>			
5	75mm Wide reinforcement built in horizontally.	m	318	
6	150mm Wide reinforcement built in horizontally.	m	3,470	
	<u>Prestressed fabricated lintels:</u>			
7	100 x 70mm lintels in lengths not exceeding 3m.	m	22	
	<u>FACE BRICKWORK</u>			
	Carried to Collection			R
	Section No. 3 Building Work Bill No. 3 Masonry			

8	<p><u>"222 x 106 x 73mm thick Corobrik Roan Satin FBX Clay Facebrick" bedded and jointed in Class II mortar and pointed with flush horizontal and vertical joints:</u></p> <p>Extra over ordinary brickwork for face brickwork.</p> <p><u>FACE BRICKWORK COPINGS, SILLS, ETC.</u></p> <p><u>Brick-on-edge header course copings, lintels, sills, etc. in "222 x 106 x 73mm thick Corobrik Roan Satin FBX Clay Facebrick" bedded and jointed in Class II mortar and pointed with flush horizontal and vertical joints:</u></p>	m2	2,086	
9	230mm Wide brick-on-edge coping on top of one brick parapet walls.	m	29	
10	230mm Wide brick-on-edge lintel pointed on all exposed faces.	m	59	
11	230mm Wide brick-on-edge cill set sloping and pointed on all exposed faces.	m	47	
	<p><u>PRECAST CONCRETE</u></p> <p><u>Copings, Cills, Etc.:</u></p>			
12	Precast concrete coping with drip grooves bedded and jointed in class II cement mortar in strict accordance with the manufacturer's instructions.	m	29	
13	<p><u>Seats & Table Tops:</u></p> <p>3272mm Long x 653mm wide x 85mm thick smooth reinforced precast concrete custom made seats, bevelled edges and recessed shadowline to base set on brickwork including taking delivery, storing and laying in position when required in strict accordance with the manufacturers instructions.</p>	No	4	
	<p>Carried to Collection</p>			R
	<p>Section No. 3 Building Work Bill No. 3 Masonry</p>			

14	3272mm Long x 500mm wide x 85mm thick smooth reinforced precast concrete custom made seats, bevelled edges and recessed shadowline to base set on brickwork including taking delivery, storing and laying in position when required in strict accordance with the manufacturers instructions.	No	6		
15	3272mm Long x 600mm wide x 85mm thick smooth reinforced precast concrete custom made table tops, bevelled edges and recessed shadowline to base set on brickwork including taking delivery, storing and laying in position when required in strict accordance with the manufacturers instructions.	No	6		
16	1400mm Long x 600mm wide x 85mm thick smooth reinforced precast concrete custom made table tops, bevelled edges and recessed shadowline to base set on brickwork including taking delivery, storing and laying in position when required in strict accordance with the manufacturers instructions.	No	15		
<u>FIBRE CEMENT WINDOW SILLS</u>					
<u>Sills in single lengths bedded in class II cement mortar including metal fixing lugs etc. in strict accordance with the manufacturer's instructions.</u>					
17	15mm x 100mm Wide sills set flat and slightly projecting.	m	47		
Carried to Collection					
Section No. 3 Building Work Bill No. 3 Masonry				R	

<p>Section No. 3 Bill No. 3 Masonry <u>COLLECTION</u></p>			
<p>Total Brought Forward from Page No.</p>	<p>Page No 142 143 144</p>		<p>Amount</p> <hr/> <hr/> <hr/>
<p>Carried Forward to Summary of Section No. 3</p> <p>Section No. 3 Building Work Bill No. 3 Masonry</p>		<p>R</p>	

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 4</u></p> <p><u>WATERPROOFING</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Waterproofing</u></p> <p>Waterproofing of roofs, basements, etc. shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs.</p>			
	<p><u>DAMPPROOFING OF WALLS AND FLOORS</u></p> <p><u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp-proof course:</u></p>			
1	In walls, under cills, etc.	m2	76	
	<p><u>One layer of 250 micron type C waterproof sheeting sealed at laps with pressure sensitive tape:</u></p>			
2	To bottom and sides of raft foundation.	m2	894	
	<p><u>JOINT SEALANTS, ETC.</u></p>			
	Carried to Collection			R
	<p>Section No. 3 Building Work Bill No. 4 Waterproofing</p>			

3	<p><u>Prepare and apply polyurethane joint sealant including raking out joint filler as necessary and backing cord, bond breaker, primer, etc. in strict accordance with the manufacturer's instructions:</u></p> <p>10mm Expansion joints.</p>	m	286		
Carried to Collection				R	
<p>Section No. 3 Building Work Bill No. 4 Waterproofing</p>					

<p>Section No. 3 Bill No. 4 Waterproofing <u>COLLECTION</u></p>			
<p>Total Brought Forward from Page No.</p>	<p>Page No 146 147</p>		<p>Amount</p>
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<p>Carried Forward to Summary of Section No. 3</p> <p>Section No. 3 Building Work Bill No. 4 Waterproofing</p>		<p>R</p>	

Item No		Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 5</u></p> <p><u>ROOF COVERINGS, ETC</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p>				
<p><u>PROFILED METAL SHEETING AND ACCESSORIES</u></p>				
<p><u>0,5mm Thick "IBR686" heavy industrial zincalume roof sheeting with chromadek classicoat (Dove Grey) finish on one side in single lengths fixed to steel purlins including heavy industrial chromadek finishings all fixed in strict accordance with the manufacturer's instructions:</u></p>				
1	Sheeting laid to steel trusses with pitch not exceeding 50 degrees in single lengths (measured nett).	m2	516	
<p><u>0,5mm Thick flashings, etc.:</u></p>				
2	250mm Girth apex flashing.	m	102	
3	250mm Girth gutter flashing.	m	102	
4	550mm Girth stepped sidewall flashing.	m	16	
<p><u>ROOF INSULATION</u></p>				
Carried to Collection				R
<p>Section No. 3 Building Work Bill No. 5 Roof coverings, etc</p>				

5	<p><u>"Isover" glasswool insulation in strict accordance with the manufacturer's instructions:</u></p> <p>75mm Thick "Isover Energylite" glasswool insulation (47.5kg/m3) laid taut over timber purlins (purlins at approximately 1200mm centres) with minimum 100mm side laps and fixed concurrent below roof covering including galvanised steel straining wires, etc.</p>	m2	113	
6	<p><u>"Sisalation FR405" double sided reflective foil laminate (fire retardant grade) insulation laid taut over steel purlins, on and including 1.6mm white pvc coated steel straining wire at 275mm centres with all longitudinal flap joints securely stapled, in strict accordance with the manufacturers instructions:</u></p> <p>Insulation fixed over steel purlins and fixed to suit profile of roof covering, including holes through insulation, etc.</p>	m2	403	
Carried to Collection				R
<p>Section No. 3 Building Work Bill No. 5 Roof coverings, etc</p>				

<p>Section No. 3 Bill No. 5 Roof coverings, etc</p> <p><u>COLLECTION</u></p>			
<p>Total Brought Forward from Page No.</p>	<p>Page No 149 150</p>		<p>Amount</p>
			<p>-----</p> <p>-----</p>
<p>Carried Forward to Summary of Section No. 3</p>		<p>R</p>	
<p>Section No. 3 Building Work Bill No. 5 Roof coverings, etc</p>			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 6</u></p> <p><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p>			
	<p><u>NAILED-UP CEILINGS</u></p> <p><u>"Pelican Systems", or equal approved, matt white PVC ceilings formed of 7mm thick PVC board screwed to and including Jumbo steel branderung at 500mm centres in both directions with 25mm drywall screws spaced at 500mm centres including ceiling grid consisting of suspension brackets fixed to tie beams, 25 x 25mm galvanised steel angles at ceiling level to the wall. Steel branderung fixed to suspension brackets galvanised steel angles using 13mm Wafer Tek Screws, including all wall angles, suspension clips, suspension plates, PVC joiners, etc.</u></p>			
1	Ceilings suspended not exceeding 1m below timber trusses.	m2	29	
	<u>Extra over PVC ceilings for cut outs and providing additional supports</u>			
2	Extra over ceiling for opening for 120mm diameter downlighter	No	18	
	<p><u>SUSPENDED CEILINGS</u></p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 3 Building Work Bill No. 6 Ceilings, Partitions and Access Flooring</p>		R	

	<p><u>Flush plastered plasterboard ceiling formed of 9mm square edged gypsum plaster board screwed to concealed galvanised suspension tee grid system with drywall screws spaced at 150mm centres. Suspension grid system consisting of main tees spaced at 1200mm centres and cross tees spaced at 300mm centres, with and including 4mm diameter suspension wires and rods, additional suspension wires and rods, etc. to accommodate air-conditioning ducts and other electrical, mechanical, and plumbing services in the ceiling void, wall angles, suspension clips, suspension plates, etc. All joints finished off with 63mm wide strips of mesh scrim nailed over joints and the whole finished with minimum 3mm and maximum 6mm thick coat of gypsum skim plaster trowelled to a smooth polished surface:</u></p>			
3	<p>Ceilings suspended not exceeding 1m below concrete soffit.</p>	m2	176	
	<p><u>Extra over flush plastered ceilings for cut outs and providing additional supports</u></p>			
4	<p>Extra over ceiling for opening for 120mm diameter downlighter</p>	No	35	
	<p><u>CORNICES</u></p>			
5	<p>79mm x 81mm XPS polystyrene cornice securely fixed to plastered wall and ceilings including mitres, etc.</p>	m	183	
	<p><u>SHOWER CUBICLES</u></p>			
	<p><u>Shop Drawings</u></p>			
	<p>Shop drawings shall be provided to the Architect for approval prior to fabrication.</p>			
	<p style="text-align: center;">Carried to Collection</p>			R
	<p>Section No. 3 Building Work Bill No. 6 Ceilings, Partitions and Access Flooring</p>			

	<p><u>"Cubicle Solutions" or equal approved, shower cubicles and shower doors formed of 12mm thick Compact High Pressure Laminate (CHPL) board and 6mm Cast acrylic Perspex respectively, fixed to AAC (Autoclaved Aerated Concrete) walls with and including overhead brace and 60 x 150mm high hanging clamp (CSSH01/316/13), 48mm diameter x 170mm high floor anchors with adjustable feet fixed to AAC walls (CSSF01/316/13), wall mounting brackets, and ironmongery (304 grade stainless steel) comprising of hat and coat hook with buffer stopper (CSSHC01/304), indicator bolts (CST IN01/316), with and including shower seat in strict accordance with the manufacturer's instructions:</u></p>			
6	Partition size 1800 x 1830mm high.	No	3	
7	Mid stile 250mm wide and 1830mm high.	No	3	
8	End stile 125mm wide and 1830mm high.	No	4	
9	Door size 750 x 1780mm high.	No	5	
	<p>Carried to Collection</p> <p>Section No. 3 Building Work Bill No. 6 Ceilings, Partitions and Access Flooring</p>		R	

<p>Section No. 3</p> <p>Bill No. 6</p> <p>Ceilings, Partitions and Access Flooring</p> <p><u>COLLECTION</u></p>			
<p>Total Brought Forward from Page No.</p>	<p>Page No</p> <p>152</p> <p>153</p> <p>154</p>		<p>Amount</p> <hr style="border-top: 1px dashed black;"/> <hr style="border-top: 1px dashed black;"/> <hr style="border-top: 1px dashed black;"/>
<p>Carried Forward to Summary of Section No. 3</p> <p>Section No. 3</p> <p>Building Work</p> <p>Bill No. 6</p> <p>Ceilings, Partitions and Access Flooring</p>		<p>R</p>	

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 7</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></p> <hr/> <p><u>PREFABRICATED TIMBER ROOF TRUSSES</u></p> <p><u>TIMBER</u></p> <p>Timber for trusses shall be of South African softwood and be at least of grade 4 and in accordance with SABS Specification No. 563 or 1460.</p> <p><u>BOLTS</u></p> <p>Bolts shall be to BS 4190 or SABS 135.</p> <p><u>SHEAR PLATES, TOOTH CONNECTORS AND SPLIT RINGS</u></p> <p>These shall be as specified in BBS 1759 : 1960 and installed in accordance with the CSIR Publication HOUT 468, 'the Design, Manufacture and Erection of Timber Trusses'.</p> <p><u>NAILS</u></p> <p>These shall be in accordance with SABS 820 : 1974.</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 3 Building Work Bill No. 7 Carpentry and Joinery</p>			<p style="text-align: right;">R</p>

<p><u>METAL CONNECTOR PLATES</u></p>	<p>Metal truss connector plates shall be fabricated out of galvanised steel of at least 1mm nominal thickness.</p>	<p>The steel used shall have a minimum yield strength of 250MPa and a minimum ultimate tensile strength of 330MPa. The corrosion resistant coating shall be 0.275kg/m² commercial class hot dipped galvanising.</p>	<p>The connector shall have been tested by the CSIR and be of a size capable of transmitting between the members of truss without exceeding the design values given in the CSIR report.</p>	<p><u>FABRICATION</u></p>	<p>Prefabricated trusses shall be fabricated in a factory by a truss fabricator who has been awarded a Certificate of Competence by the Institute of Timber Construction and is approved by the Architect.</p>	<p>The trusses shall be constructed to ensure the correct profile, overhangs and cambers.</p>	<p>Where metal connector plates are used all joints shall be close fitting butt joints made by precision pressing of the metal connector plates into each side of the joint.</p>	<p><u>TRUSS DESIGN</u></p>	<p>All trusses shall be designed by a registered Professional Engineer in accordance with the SABS Code of Practice for the Design of Timber Structures, SABS 0163 and the code of Practice for Procedures and Loadings SABS 0160.</p>	<p><u>TRUSS SPACING AND PITCH</u></p>	<p>The truss centres shall be less than or equal to that shown on the drawing.</p>	<p>Carried to Collection</p>	<p>R</p>	<p>Section No. 3 Building Work Bill No. 7 Carpentry and Joinery</p>
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<p>The truss pitch shall be as shown on the drawings issued herewith.</p> <p><u>DRAWINGS</u></p> <p>Polyester prints, of size A1, shall be provided to the Engineer for approval prior to fabrication.</p> <p>These drawings shall be signed by a Professional Engineer.</p> <p>The following minimum information shall be supplied:</p> <p>Details of the roof system with the positions of all trusses, girders and beams clearly indicated.</p> <p>Bracing details.</p> <p>All member sizes and grades.</p> <p>Connector plate sizes for all truss joints. Code numbers are deemed to be insufficient.</p> <p>All connection and hold down details between trusses, girders, beams and supports.</p> <p>The type of roof covering, ceiling and any other loads taken into account in the design.</p> <p><u>GENERAL</u></p> <p>The schedule of prices shall include all timber of the required grade and type shown on the designs, all cutting and waste, cutting to exact lengths and end angles necessary to manufacture the respective truss types, the supply of all connector plates, fabrication of the trusses checking the completed trusses for quality and loading up and transporting to the site of the works, off loading, storing and erecting on site.</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 3 Building Work Bill No. 7 Carpentry and Joinery</p>			
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<p><u>ERECTION</u></p>	<p>The trusses shall be hoisted and erected strictly in accordance with the procedures and recommendations of the manual 'The Erection and Bracing of Timber Roof Trusses' published by the Institute for Timber Construction, the Council for Scientific and Industrial Research and as detailed by the designer.</p>				
	<p>The complete structure shall be inspected by the truss designer to ensure that the manufacture of the trusses and erection details have been complied with.</p>				
	<p><u>TRUSS LOADING</u></p>				
	<p><u>Trusses shall be designed for:</u></p>				
	<p>Roof cover - Sheet Metal Roof Sheeting.</p>				
	<p>Ceilings : Suspended ceilings.</p>				
	<p><u>TRUSSES</u></p>				
	<p>All trusses etc. shall be to the approval of the Engineer.</p>				
	<p><u>Prefabricated trusses including girders, hips, valleys, runners, bracing, cleats, battens, etc. supplied and fixed complete:</u></p>				
<p>1</p>	<p>Rectangular shaped roof size overall 5,04 x 2,44m wide on plan including hoisting and fixing in position approximately 2,72m above ground level.</p>	<p>No</p>	<p>1</p>		
<p>2</p>	<p>Rectangular shaped roof size overall 3,66 x 4,96m wide on plan including hoisting and fixing in position approximately 2,89m above ground level.</p>	<p>No</p>	<p>1</p>		
<p>3</p>	<p>Rectangular shaped roof size overall 10,43 x 4,35m wide on plan including hoisting and fixing in position approximately 2,89m above ground level.</p>	<p>No</p>	<p>1</p>		
	<p>Carried to Collection</p>			<p>R</p>	
	<p>Section No. 3 Building Work Bill No. 7 Carpentry and Joinery</p>				

4	Rectangular shaped roof size overall 11,10 x 7,60m wide on plan including hoisting and fixing in position approximately 2,89m above ground level.	No	1		
5	Rectangular shaped roof size overall 11,32 x 4,35m wide on plan including hoisting and fixing in position approximately 2,89m above ground level.	No	1		
<u>SUNDRY ROOF TIMBERS</u>					
6	38 x 114mm Wall plate bedded on and including 1:3 cement mortar bedding.	m	83		
<u>Sawn softwood:</u>					
7	Two coats wood preservative applied hot on exposed timbers at eaves.	m2	25		
<u>EAVES, VERGES, ETC.</u>					
8	10mm x 300mm Fascia board countersunk screwed to roof timbers (elsewhere) with one brass screw at maximum 750mm centres and joined with and including concealed jointing plates at all joints.	m	83		
9	10mm x 300mm Barge board countersunk screwed to roof timbers (elsewhere) with one brass screw at maximum 750mm centres and joined with and including concealed jointing plates at all joints.	m	47		
<u>DOORS, WINDOWS, SASHES, ETC.</u>					
<u>Solid meranti flush doors:</u>					
<u>44mm Thick door with hardwood concealed edge strips and finished on both sides with commercial veneer and hung on steel frames (frames elsewhere):</u>					
10	Door size overall 813 x 2032mm high.	No	7		
<u>Hollow core doors</u>					
Carried to Collection					
Section No. 3 Building Work Bill No. 7 Carpentry and Joinery				R	

<p>11</p> <p>12</p>	<p><u>44mm Thick door with hardwood concealed edge strips and finished on both sides with commercial veneer and hung on steel frames (frames elsewhere):</u></p> <p>Door size overall 813 x 2032mm high</p> <p><u>KITCHENETTE</u></p> <p>Allow the amount of R10,000.00 (Ten Thousand Rand) for a kitchenette.</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 3 Building Work Bill No. 7 Carpentry and Joinery</p>	<p>No</p> <p>Item</p>	<p>17</p>	<p>10,000.00</p>	<p></p>
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<p>Section No. 3 Bill No. 7 Carpentry and Joinery <u>COLLECTION</u></p>			
<p>Total Brought Forward from Page No.</p>	<p>Page No 156 157 158 159 160 161</p>		<p>Amount</p>
<p>Carried Forward to Summary of Section No. 3</p> <p>Section No. 3 Building Work Bill No. 7 Carpentry and Joinery</p>		<p>R</p>	

Item No		Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p>				
<p><u>BILL NO. 9</u></p>				
<p><u>IRONMONGERY</u></p>				
<p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></p>				
<p><u>HINGES, BOLTS, ETC.</u></p>				
1	<p>"Dorma DBB/SS/009" 102 x 75 x3mm two ball bearing stainless steel butt hinges.</p>	Pairs	24	
<p><u>LOCKS</u></p>				
<p><u>Stainless steel</u></p>				
2	<p>"Assa Abloy 22314-76/5SS Union", or equal approved, bathroom dead lock.</p>	No	13	
<p><u>HANDLES</u></p>				
<p><u>Stainless steel</u></p>				
3	<p>"QS2203/1", or equal approved, 19mm bolt through pull handle</p>	No	4	
4	<p>"Coupe Oslo", or equal approved, lever handle on plate including "QS5757/2", or equal approved, two lever lock</p>	No	9	
<p><u>BATHROOM FITTINGS</u></p>				
<p style="text-align: center;">Carried to Collection</p>				
<p>Section No. 3 Building Work Bill No. 8 Ironmongery</p>				R

	<u>Stainless steel</u>				
5	"Franke Rodan RODX600", or equal approved, stainless steel paper towel dispenser (Code: 2120099), size 275 x 112 x 355mm high plugged and screwed to the wall with stainless steel screws.	No	6		
6	"Franke RODX 605 (Code: 2120097)", or equal approved, waste bin plugged to wall.	No	6		
7	"Franke RODX 672 (Code: 2120101)", or equal approved, two roll lockable type toilet roll dispenser plugged to wall.	No	13		
8	"Franke Stratos STRX611", or equal approved, stainless steel sanitary towel disposal bin (Code: 2120050), size 205 x 134 x 305mm high, plugged and screwed to the wall with stainless steel screws.	No	8		
9	"Franke (Code: 2120180)", or equal approved, double towel rail.	No	4		
10	"Franke (Code: 2120073)", or equal approved, soap tray plugged to wall.	No	5		
	<u>SUNDRIES</u>				
	<u>Stainless steel</u>				
11	"Assa Abloy 87001SS", or equal approved, floor mounted door stop.	No	24		
12	"Assa Abloy SS8025SS", or equal approved, hat and coat hook with rubber buffer.	No	5		
	<u>GRAB RAILS, ETC</u>				
13	"Franke CNTX750" stainless steel straight grab rail including mounting brackets screwed and plugged to wall.	No	2		
14	"Franke CNTX21" stainless steel angle grab rail including mounting brackets screwed and plugged to wall.	No	2		
	Carried to Collection				
	Section No. 3 Building Work Bill No. 8 Ironmongery			R	

<p>Section No. 3 Bill No. 8 Ironmongery <u>COLLECTION</u></p>			
<p>Total Brought Forward from Page No.</p>	<p>Page No 163 164 165</p>		<p>Amount</p>
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<p>Section No. 3 Building Work Bill No. 8 Ironmongery</p>			

Item No		Quantity	Rate	Amount	
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 9</u></p> <p><u>STRUCTURAL STEELWORK</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition)</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <hr/> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Further to these Supplementary Preambles tenderers are also referred to the Technical Specifications for Steelwork as annexed to these bills of quantities.</p> <p><u>STRUCTURAL STEELWORK</u></p> <p><u>1. Shop drawings</u></p> <p>The contractor will be required to prepare shop details for the work which must be submitted to the Engineer for approval before fabrication is started. Approval of shop details by the Engineer will include the following :</p> <p>a) Examination of member sizes for consistency with design requirements</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 3 Building Work Bill No. 9 Structural steelwork</p>				
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<p>b) Examination of all connections designed and/or detailed by the fabricator, for adequacy of load trasference</p> <p>c) Approval of leading dimensions which are taken to include such dimensions as may influence the design (eg, depth of trusses and girders) or which may grossly affect site programme (eg, truss spans andstanchion heights)</p> <p>Notwithstanding any approval of these details, the contractor shall remain responsible for ensuring that the dimensions, details and workmanship result in the correct assembly of the work</p> <p><u>2. Material and workmanship</u></p> <p>The steelwork is to be fabricated from mild steel to SABS 1431 Grade 300W. The whole of the fabrication and workmanship generally is to be in strict accordance with SABS 0162-1984 as amended. The material shall be of best quality throughout, free from loose rust or millscale, true to thickness and profile throughout and of the section and mass specified subject to a 2% tolerance for rolling margin. Consideration will be given to any detail variation which the contractor may wish to make with the view to the simplification of either fabrication, delivery or erection. Substitutions must be made at the contractor's own expense.</p> <p>The contractor shall provide Works Test Certificates where so required by the Engineer.</p> <p><u>3. Testing</u></p> <p>The Engineer shall be at liberty to select test pieces from steelwork in the workshop or on the site and to have them tested. The expense of such tests are to be borne by the contractor if the steelwork does not comply with the standards laid down above.</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 3 Building Work Bill No. 9 Structural steelwork</p>			
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<p><u>4. Hold down bolts</u></p> <p>Holding down bolts and other fixing devices which are to be embedded in concrete must be supplied to the main contractor on request together with the necessary information, identification and templates.</p> <p>2 mm Mild steel plate templates provided on a scale of one template for every five groups of bolts, suitably marked to ensure easy identification are to be supplied to the principal contractor.</p> <p>Any costs incurred by subsequent repositioning of bolts, etc resulting from the contractor having failed to furnish adequate information, identification and templates will be for the contractor's account.</p> <p><u>5. Welding</u></p> <p>Welding shall be in accordance with SABS 044 "Welding: Parts I, II and III"</p> <p>Welding shall be carried out in a manner which will prevent any distortion of the weld or the parent section.</p> <p>All welds shall have adequate root fusion and shall be free from cracks, porosity or other irregularities and any undercutting shall be made good by the deposition of additional runs of weld metal.</p> <p>Any completed welds showing cracks, cavities or other effects shall be cut out and made good at the contractor's own expense.</p> <p>Mild steel electrodes shall comply with SABS 455 "Covered Electrodes for Manual Arc Welding of Mild Steel and Medium High Tensile Steel".</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 3 Building Work Bill No. 9 Structural steelwork</p>			
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6. Bolts

Bolts shall have well-formed heads forged from the solid. Nuts shall closely fit the bolts so that they can only just be turned by hand and at least one clear thread shall project beyond the nut when fully tightened. All bolts shall have one washer under the nuts and shall be so tightened that the threaded portion does not bear on the members connected.

Where bolt heads or nuts bear upon bevelled surfaces they shall be provided with tapered washers of 2,3 mm mean thickness to provide a seating square with the axis of the bolt.

7. Friction grip bolts

Connections specifying high strength friction grip bolts are to be in strict accordance with SABS 094 "Bolted Friction Grip Joints in Structural Steelwork" and the bolts used are to be in accordance with BS 3139 Part 1 : 1959 "General Grade Bolts, High Strength Friction Grip Bolts for Structural Engineering".

Notwithstanding the above, the following must be rigidly adhered to :

a) Two-case hardened washers, one flat or bevelled under the head and the other flat or bevelled under the nut shall be used with each bolt.

b) Contact surfaces shall not be painted and shall be thoroughly cleaned free of dirt, oil, loose scale, burrs and other defects which are liable to reduce friction resistnace between surfaces.

c) At all times the correct torques shall be applied to the different sizes of bolts.

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<p><u>8. Erection</u></p> <p>The steelwork generally is to be fabricated in the contractor's works having due regard to transport and erection facilities. He must supply all erection tackle, temporary erection bracing, erect and plumb all steelwork and supply all steel wedges and tacks as required.</p> <p>Items may be detailed for delivery "piece small" or the contractor may prefabricate if he is satisfied that suitable arrangements for transport can be made.</p> <p>Connections are to be designed for the forces indicated on the drawings or to the maximum capacity of the members.</p> <p><u>9. Cleaning and painting</u></p> <p>All structural steel is to be thoroughly degreased to remove all grease or oil and then wire-brushed, scraped or sand-papered to remove all rust, mill-scale or surface contaminations and is to be immediately given one coat zinc chromate, allowed to dry overnight and given one coat of universal undercoat prior to delivery to site. All damaged paintwork is to be made good on site after erection is complete. (also refer to 12 below)</p> <p><u>10. Testing of welders</u></p> <p>Tenderers must include in their rates for the testing of any welder used on the work who has not been tested within a period of six months immediately preceding his employment on this contract.</p> <p><u>11. Further notes</u></p> <p>Also refer to the structural steelwork notes indicated on the Engineer's relevant structural drawings.</p> <p><u>12. Painting/corrosion protection options</u></p>	<p style="text-align: center;">Carried to Collection</p>	<p style="text-align: center;">R</p>		
<p>Section No. 3 Building Work Bill No. 9 Structural steelwork</p>				

<p><u>Specification</u></p>	<ul style="list-style-type: none"> ° All steelwork will be mechanically wire-brushed to ST3 o blast clean to SA2 ° All steelwork will receive one coat primer to DFT-75 micron 				
<p><u>FOLLOWING IN FOOD STALLS AND SEATING AREAS:</u></p>	<p><u>Welded columns in single lengths with flat section base, top, bearer and connection plates bolted to concrete base:</u></p>				
<p>1 IPE 160 x 15,8kg/m I-section columns including base plates, connectors, etc.</p>	t	3.09			
<p><u>Welded beams in single lengths with flat section gusset, bearer and connection plates:</u></p>					
<p>2 IPE 160 x 15,8kg/m I-section rafter including gusset plates, connectors, etc.</p>	t	2.38			
<p><u>Purlins and girts bolted to steel, all treated as per paint specification referred to above in Supplementary Preambles</u></p>					
<p>3 100 x 50 x 20 x 3mm Thick cold formed lipped channel section purlins including cleats, connectors, bolts, etc.</p>	t	4.25			
<p>4 50 x 50 x 3mm Thick angle section framing, cleats, etc.</p>	t	0.54			
<p><u>GALVANISED STEEL SCREENS</u></p>					
<p><u>Welded screens to doorways, lightwalls, breeze screens, etc.</u></p>					
<p>5 Banded galvanised steel Mentis rectagrid grating, or equal approved, with 40mm x 50mm apertures fixed to steel structure (elsewhere).</p>	m2	41			
<p>Carried to Collection</p>					R
<p>Section No. 3 Building Work Bill No. 9 Structural steelwork</p>					

<p>6</p>	<p><u>BOLTS, ETC.</u></p> <p>M16 x 200mm Long holding down bolts including nuts and washers with one end welded to steel plate (elsewhere).</p> <p style="text-align: right;">No</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 3 Building Work Bill No. 9 Structural steelwork</p>	<p>100</p>	<p>R</p>	
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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 11</u></p> <p><u>METALWORK</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></p>			
1	<p><u>STEEL ROLLER SHUTTERS ETC</u></p> <p><u>Roll up "Serranda 2000" or equal approved galvanised mild steel push up, 75 x 0.1mm thick endlocked slatted curtain roller shutter, standard bottom rail with overhead box 285mm high with 75mm wide guides</u></p> <p>Manually operated roll-up type shutter door with 75mm thick interlocking slats, complete with 50 x 3mm thick cold rolled mild steel framing, standard channel section guides, roller mechanism, canopy and slide bolt locking device, rubber insulation weatherstrip to bottom T-bar, to suit opening size 2680 x 2125mm high.</p> <p><u>PRESSED STEEL DOOR FRAMES</u></p>	No	15	
	<p>Carried to Collection</p>		R	
	<p>Section No. 3 Building Work Bill No. 10 Metalwork</p>			

	<p><u>1,6mm Thick single rebated frames suitable for half brick walls complete with hoop iron anchors welded to frame, one adjustable stainless steel striking plate suitable for cylinder locks, three rubber shock absorbers in rebate and one pair of 100mm standard heavy duty brass butt hinges welded to frame:</u></p>				
2	<p>Frame for door size 813 x 2032mm. high</p>	No	13		
	<p><u>1,6mm Thick single rebated frames suitable for one brick walls complete with hoop iron anchors welded to frame, one adjustable stainless steel striking plate suitable for cylinder locks, three rubber shock absorbers in rebate and one pair of 100mm standard heavy duty brass butt hinges welded to frame:</u></p>				
3	<p>Frame for door size 813 x 2032mm. high</p>	No	11		
	<p><u>STEEL WINDOWS, DOORS, ETC.</u></p> <p><u>General:</u></p> <p>The given sizes are overall, approximate and in order of width and height. The detailed drawings and building must be carefully checked for exact sizes before placing orders. Any errors in this respect will be at the Contractor's expense and no claims for extras on this account will be entertained.</p> <p><u>Ironmongery:</u></p> <p>Windows shall be provided with chromium plated brass fittings.</p>				
	<p style="text-align: center;">Carried to Collection</p> <p>Section No. 3 Building Work Bill No. 10 Metalwork</p>			R	

	<p><u>Prices:</u></p> <p>All glazed steel windows, sliding doors, doors, shopfronts, skylights, etc. must include for all jointing, notching, cutting, etc. and for setting up and fixing in position complete with external cills, ironmongery, fixing brackets, lugs, bolts, timber grounds, silicone sealant, templates, etc. all as detailed and scheduled on the drawings and as necessary for the satisfactory execution of the work.</p> <p><u>Protection and cleaning:</u></p> <p>All steel must be protected against damage by covering with temporary casings (masking tape, plastic coatings, etc.) and against deterioration or discolouration caused by mortar, wax, paint, etc., all to the entire satisfaction of the Principal Agent. On completion all such protection shall be removed and work cleaned down and left in proper working order.</p> <p><u>Drawings:</u></p> <p>Tenderer's are to refer to the following Architect's drawings issued with the Bill of Quantities: 2019-11/3/AR/600</p> <p><u>Industrial type windows made from rolled steel sections complete, with one coat red oxide zinc chromate primer complying with SABS 909 and supplied complete with brass fittings:</u></p> <p>4 Window Type TD57S8 with two fixed panes and two top hung opening sections, window size overall 2000 x 1559mm high (SW1). No 4</p> <p>5 Window Type TD57S with one fixed pane and two top hung opening sections, window size overall 1022 x 1559mm high (SW2). No 1</p> <p>6 Window Type NCYX7S with one fixed pane and one top hung opening section, window size overall 1022 x 949mm high (SW3). No 2</p> <p style="text-align: center;">Carried to Collection</p> <p>Section No. 3 Building Work Bill No. 10 Metalwork</p>			
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<p>7</p> <p>Window Type NE1 with one top hung opening section, window size overall 533 x 654mm high (SW4).</p> <p>No</p> <p>26</p>	<p>8</p> <p>Window with one fixed pane, window size overall 533 x 1200mm high (SW5).</p> <p>No</p> <p>2</p>	<p>9</p> <p>Window with one fixed pane, window size overall 2000 x 1200mm high (SW6).</p> <p>No</p> <p>5</p>			
<p>Carried to Collection</p>			<p>R</p>		
<p>Section No. 3 Building Work Bill No. 10 Metalwork</p>					

<p>Section No. 3 Bill No. 10 Metalwork <u>COLLECTION</u></p>			
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	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 12</u></p> <p><u>PLASTERING</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></p>			
	<p><u>SCREEDS</u></p> <p><u>Screeds on concrete:</u></p>			
1	25mm Thick on floors.	m2	430	
	<p><u>INTERNAL PLASTER</u></p> <p><u>One coat cement plaster mimimum 15mm thick (5:1) wood floated to receive tiles (elsewhere) including all labours on:</u></p>			
2	Brick vertical surfaces (part on concrete).	m2	86	
3	In narrow widths.	m2	1	
	<p>Carried Forward to Summary of Section No. 3</p>			R
	<p>Section No. 3 Building Work Bill No. 11 Plastering</p>			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 13</u></p> <p><u>TILING</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></p>			
	<p><u>WALL TILING</u></p> <p><u>Allow a Prime Cost Amount of R100/m2 for ceramic wall tiles fixed with an approved adhesive on plaster bedding (bedding elsewhere) and flush pointed with tinted waterproof jointing compound:</u></p>			
1	On walls.	m2	19	
2	In narrow widths.	m2	1	
	<p><u>FLOOR TILING</u></p> <p><u>Allow a Prime Cost Amount of R100/m2 for ceramic floor tiles fixed with an approved adhesive on plaster bedding (bedding elsewhere) and flush pointed with tinted waterproof jointing compound:</u></p>			
3	On floors.	m2	246	
4	100mm High skirtings.	m	164	
	<p><u>Allow a Prime Cost Amount of R200/m2 for porcelain tiles fixed with an approved adhesive on plaster bedding (bedding elsewhere) and flush pointed with anti-fungal tile grout on:</u></p>			
5	Shower floors.	m2	5	
	Carried to Collection			R
	<p>Section No. 3 Building Work Bill No. 12 Tiling</p>			

<u>SUNDRIES</u>					
<u>Corner protectors, dividing strips, etc.:</u>					
6	"Kirk M-Trim ASQE120", or equal approved, 12mm high mill aluminium square edge trim fixed in strict accordance with the manufacturer's instructions.	m	164		
7	30 x 30mm "Kirk M-Trim STICP300", or equal approved, 10mm high stainless steel corner protector fixed in strict accordance with the manufacturer's instructions.	m	24		
Carried to Collection					
Section No. 3 Building Work Bill No. 12 Tiling				R	

<p>Section No. 3 Bill No. 12 Tiling <u>COLLECTION</u></p>			
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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 14</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></p>			
	<p><u>0,6mm Galvanised sheet steel gutters and rainwater pipes:</u></p>			
1	100 x 75mm Rectangular section eaves gutter.	m	104	
2	75 x 75mm Rainwater downpipes fixed to brick wall.	m	102	
3	Extra over eaves gutter for outlet for 75 x 75mm downpipe.	No	32	
4	Extra over eaves gutter for stop ends.	No	24	
5	Extra over rainwater pipe for bend.	No	32	
6	Extra over rainwater pipe for shoe.	No	32	
7	150mm x 150mm Hot dipped galvanised mild steel hailguard formed of Mentex Ref. 118 or equal approved once bent and laid loose in box gutter over downpipe opening.	No	32	
	<p><u>SANITARY FITTINGS</u></p>			
	Carried to Collection			R
	<p>Section No. 3 Building Work Bill No. 13 Plumbing and Drainage</p>			

	Approved stainless steel type 304 (18/10):				
8	"Franke HCL and SS-PAN-FM", or equal approved, toilet pan and cistern with integrated "P" trap, 102mm outlet pipe and a 60 mm back entry inlet pipe including a stainless steel base, bolted to floor, including vandal resistant seat and fitments, fixing in position and connecting complete in strict accordance with the manufacturer's instructions.	No	13		
9	"Franke TE (Top Entry Inlet) Barron Bowl", or equal approved, urinal complete with 40 mm waste outlet with a pressed perforated stainless steel grid and a chrome plated button spreader with a 15 mm coupling to connect to water supply, bowl to be fitted with a 2mm thick mounting plate with two key hole slots for mounting the unit to the wall and connected complete (Flushmaster elsewhere measured).	No	6		
10	"Franke F-FWSB", or equal approved, wall mounted basin with a 150 mm splashback, size 390 x 320 x 250 mm with a 40 mm waste outlet including fixing in position with two 25 x 6 mm fixing brackets to secure the basin to the wall and connecting complete as per manufacturer's instructions (taps elsewhere).	No	13		
11	"Franke Curvline Model CVN611" Grade 304 18/10 polished stainless steel right hand inset sink (Code: 310370), size 860 x 435mm wide with one 370 x 340 x 162mm deep bowl, fitted onto cupboard (elsewhere) including 50mm waste fitting and PVC trap complete with overflow, chromium plated chain and stay, vulcanite plugs and undersink insulation, fixing in position including sealing with an approved waterproof sealer and connecting complete.	No	16		
12	"Cubical Solutions", or equal approved, 12mm compact high pressure laminate urinal screen colour Charcoal (Code: CSUS/CHPL/304/1), overall size 450 x 750mm fixed to wall with 304 grade stainless steel brackets (Code: CSCUBr/01/304) in strict accordance with the manufacturer's instructions.	No	4		
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	<u>TRAPS, ETC.</u>				
13	40mm Chromium plated brass bottle trap.	No	35		
14	"Cobra (Code: 373)", or equal approved, shower P-Trap, rough brass including shallow seal, chrome plated grating, etc.	No	5		
15	"Kessel Ferrofix", or equal approved box channel size overall 300mm wide x 1800mm long including a drain connecting piece and a mentis grid cover, installed in strict accordance with the manufacturers instructions.	No	1		
16	"Kessel Ferrofix", or equal approved box channel size overall 300mm wide x 3000mm long including a drain connecting piece and a mentis grid cover, installed in strict accordance with the manufacturers instructions.	No	1		
	<u>TAPS, VALVES, ETC.</u>				
	<u>Chromium plated:</u>				
17	"Walcro CIRS-V2", or equal approved, vandal resistant shower head, installed in strict accordance with the manufacturer's instructions.	No	5		
18	"Ibral Minimal Series (Code: 08142-30)", or equal approved, self closing, concealed wall mounted push button mixer including check valves, filters, vandal proof push button, etc., installed in strict accordance with the manufacturers instructions.	No	5		
19	"Franke Projectline", or equal approved, single lever mixer (Code: 305065) with overarm swivel spout and 15mm flexible connections installed in strict accordance with the manufacturer's instructions.	No	16		
	Carried to Collection				
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20	"Cobra Watertech (code: FJ6-001)", or equal approved, exposed urinal chrome plated Junior Flushmaster, with non-hold open feature, wall flange and 20mm "Ball-o-Stop" control inlet, 15mm outlet x 215mm long with 27mm offset urinal flush pipe (Code: FJT5-5), installed in strict accordance with the manufacturer's instructions.	No	6		
21	"Isca (Code: ISC-AAL0012)", or equal approved, 15mm alpi extended bib tap.	No	13		
22	"Cobra Carina (Code: 106CA-15)", or equal approved, bib tap.	No	13		
	<u>Brass:</u>				
23	15mm Ballostop valve.	No	77		
	<u>Sundries:</u>				
24	15mm Flexihose 450mm long.	No	77		
	<u>SOIL AND WASTE WATER DRAINAGE</u>				
	<u>uPVC pipes</u>				
25	50mm Pipes	m	80		
26	100mm Pipes	m	39		
	<u>Extra over uPVC pipes for fittings</u>				
27	50mm Bend	No	160		
28	50mm Access bend	No	80		
29	50mm Junction	No	80		
30	50mm Access junction	No	40		
31	50mm Access bend with anti-syphon horn	No	40		
32	100mm Bend	No	26		
33	100mm Access bend	No	13		
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34	100mm Access junction	No	26		
35	100mm Access bend with anti-syphon horn	No	7		
36	100mm Access bend pan connector	No	13		
37	100mm Access bend pan connector with anti-syphon horn	No	7		
38	100mm Pan connector	No	13		
39	110mm "GI Two-way" vent valve	No	13		
40	100mm Overflow gulley head	No	13		
41	100 x 50mm Access reducing junction	No	4		
42	100 x 50mm Access double reducing junction	No	2		
	<u>Sundries</u>				
43	Testing waste pipe system			Item	
	<u>WATER SUPPLIES</u>				
	<u>Class 1 copper pipes</u>				
44	15mm Pipes	m	124		
45	22mm Pipes	m	93		
46	35mm Pipes	m	62		
47	65mm Pipes	m	31		
	<u>Extra over class 1 copper pipes for capillary fittings</u>				
48	15mm Fittings	No	182		
49	22mm Fittings	No	159		
50	35mm Fittings	No	114		
51	65mm 90 degree bend	No	10		
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52	65mm 45 degree bend	No	7		
53	65mm Tee	No	4		
54	65mm x 35mm Reducing Tee	No	5		
55	65mm x 22mm Reducing Tee	No	7		
	<u>ELECTRIC WATER HEATERS</u>				
56	"Kwikot Kwikboil" 5 litre water heater installed complete including all piping, fittings, valves, etc. in strict accordance with the manufacturer's instructions.	No	1		
	<u>FIRE SERVICE</u>				
	<u>Medium class galvanised mild steel screwed and socketed piping with Klambon joints in accordance with SABS 62 fixed to walls, concrete soffits, etc. including all hangers & brackets:</u>				
57	100mm Diameter pipe.	m	56		
58	25mm Diameter pipe.	m	70		
	<u>Extra over galvanised pipes for fittings:</u>				
59	25mm Fittings.	No	28		
60	100mm Bend.	No	22		
61	100mm Tee.	No	17		
62	100 x 25mm Reducer.	No	28		
	<u>Hose Reels, etc.:</u>				
63	Approved hose reel complete with 30m of 19mm hose all to SABS 543 incorporating 25mm chromium plated gunmetal gate valve and connection for and joint to supply pipe with brackets bolted to wall with and including four 8mm bolts with plate washers built 100mm into brickwork in cement mortar.	No	7		
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64	Approved 4,5Kg DCP cylindrical fire extinguisher fixed on and including backing boards to walls.	No	14		
65	80 x 65mm Gunmetal fire hydrant with cap and chain	No	1		
Carried to Collection				R	
<p>Section No. 3 Building Work Bill No. 13 Plumbing and Drainage</p>					

<p>Section No. 3 Bill No. 13 Plumbing and Drainage <u>COLLECTION</u></p>			
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<p>Section No. 3 Building Work Bill No. 13 Plumbing and Drainage</p>			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 15</u></p> <p><u>GLAZING</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></p>			
	<p><u>GLAZING TO STEEL WITH PUTTY</u></p> <p><u>4mm Clear float glass:</u></p>			
1	Panes exceeding 0,1m2 and not exceeding 0,5m2.	m2	10	
2	Panes exceeding 0,5m2 and not exceeding 2m2.	m2	10	
3	Panes exceeding 2m2 and not exceeding 4m2.	m2	18	
	<p><u>GLASS IN TOPS, SHELVES, DOORS, MIRRORS, ETC.</u></p> <p><u>5mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u></p>			
4	Mirror 300 x 300mm high with four screws	No	13	
	<p>Carried Forward to Summary of Section No. 3</p>			R
	<p>Section No. 3 Building Work Bill No. 14 Glazing</p>			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 16</u></p> <p><u>PAINTWORK</u></p> <p><u>The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in these Bills of Quantities.</u></p>			
	<p><u>PAINTWORK TO NEW WORK</u></p> <p><u>PLASTER</u></p> <p><u>Prepare and apply one coat alkali resistant primer and two coats interior quality adhesion promoted pure acrylic PVA paint on:</u></p>			
1	On internal plastered walls, columns, recessed bands, etc	m2	86	
2	Narrow widths.	m2	1	
	<p><u>PLASTERBOARD</u></p> <p><u>Prepare and apply one coat "Plascon" plaster primer, one coat undercoat and two coats polvin super acrylic in white on:</u></p>			
3	Flush plastered ceilings and cornices.	m2	176	
4	Fascia boards and barge boards.	m2	78	
	<p><u>METAL</u></p>			
	Carried to Collection			R
	Section No. 3 Building Work Bill No. 15 Paintwork			

<p>Section No. 3 Bill No. 15 Paintwork <u>COLLECTION</u></p>			
<p>Total Brought Forward from Page No.</p>	<p>Page No 193 194</p>		<p>Amount</p>
			<p>-----</p> <p>-----</p>
<p>Carried Forward to Summary of Section No. 3</p>		<p>R</p>	
<p>Section No. 3 Building Work Bill No. 15 Paintwork</p>			

Bill No	<u>SECTION SUMMARY - Building Work</u>	Page No		Amount
1	Earthworks	137		
2	Concrete, Formwork and Reinforcement	141		
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5	Roof coverings, etc	151		
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12	Tiling	183		
13	Plumbing and Drainage	191		
14	Glazing	192		
15	Paintwork	195		
Carried to Final Summary				
Section No. 3 Building Work				

Item	Description	Unit	Qty	Rate		Amount (A+B)	Total
				Mat. (A)	Inst. (B)		
BILL NO. 1							
LV CABLES AND TRENCHING							
1	Supply and Install LV cables PVC PVC SWA PVC insulated copper cables excluding terminations and supports						
1.1	25mm ² x 4 core cable.	m	2				
1.2	16mm ² x 4 core cable.	m	450				
1.3	10mm ² x 4 core cable.	m	600				
2	Cable Terminations For PVC PVC SWA PVC insulated Cu. Cables including armour glands, shrouds, lugs and connections						
2.1	25mm ² x 4 core cable.	No.	2				
2.2	16mm ² x 4 core cable.	No.	36				
2.3	10mm ² x 4 core cable.	No.	18				
3	Earthing Bare Copper earth conductors installed with cables						
3.1	16mm ²	m	450				
3.2	10mm ²	m	600				
4	Earth conductor terminations						
4.1	16mm ²	No.	36				
4.2	10mm ²	No.	18				
5	Cable Trenching "Rates for trenching shall be inclusive of re-instatement of excavated materials. All cables shall be laid on a 150 mm thick bedding of sifted river sand as well as a covering of an equal thickness of the same material where required." All trenches shall be excavated to a minimum depth of 800mm below ground level irrespective of the size of cable / sleeve installed. Trenching and re-instatement for 600mm (w) x 800mm (d) measured in linear length.						
5.1							
5,1,1	hand pickable soil	m	400				
5,1,2	soft rock	m	1				
5,1,3	hard rock	m	1				
Carried forward							

Item	Description	Unit	Qty	Rate		Amount (A+B)	Total
				Mat. (A)	Inst. (B)		
Brought Forward							R -
5.2	Excavate and backfill a trench 600m wide x 800m deep to lay cable.	m	1				
5.3	Supply and installation of sifted sand in trenches.	m ³	192				
5.4	PVC danger Warning Tape 150 mm above cables.	m	450				
6	Cable Sleeves						
6.1	Supply and install 110mm diameter sleeves type NEXTUBE or similar including sealing of sleeve ends excluding excavation.	m	120				
6.2	Supply and install 50mm diameter sleeves type NEXTUBE or similar including sealing of sleeve ends excluding excavation.	m	600				
6.3	50 mm diameter uPVC cable sleeves.	m	20				
7	Manholes						
	Positions shall be verified on site and/or as per layout as shown in the documents.						
7.1	Supply and install in ground 600mm x 600mm x 800mm deep manhole for electrical services complete with heavy duty steel cover.	No.	1				
TOTAL CARRIED TO SUMMARY							

Item	Description	Unit	Qty	Rate		Amount (A+B)	Total
				Mat. (A)	Inst. (B)		
	BILL NO.2						
	POWER CONNECTION						
1	New Connection						
1.1	Establish an electrical connection for 55kVA supply by means of a CP8 Meter box from the supply authority complete with all mounting accessories / material.	Sum	1				
1.2	Mark up on item 1.1	%					
1.3	Supply, install and connect the Kiosk, fully weatherproof with circuit breakers inside and complete with all fixing material or accessories as per SLD.	No.	1				
1.4	Supply and install a programmable 3 phase, 4 wire ENERMAX electronic meter complete with data storage capabilities including all accessories and programming equipment installed in Kiosk above.	No.	1				
2	Temporary Connection						
2.1	Provision for the supply of a temporary connection 40A Single phase from for construction purposes including the removal thereof after construction etc.	Sum	1				
3	Testing and Commissioning						
3.1	Test and Commission the complete installation.	Sum	1				
3.2	Issue a Certificate of Compliance (CoC) in accordance with the SANS 0142-1 (2001) requirements per installation.	Sum	1				
TOTAL CARRIED TO SUMMARY							

Item	Description	Unit	Qty	Rate		Amount (A+B)	Total
				Mat. (A)	Inst. (B)		
	BILL NO.3						
	ELECTRICAL DISTRIBUTION BOARDS						
1	Distribution Boards/Kiosks						
	Supply Distribution Boards/Kiosks complete with all switchgear, accessories, sheet metal and all frames, sub-frames, busbars, fixtures and fittings as specified in the wiring diagrams. All Distribution Boards to be fitted in the factory and tested in accordance to specifications. Rate shall include delivery, off-loading and storage to site.						
1.1	Distribution Board DB.T	No	1				
1.2	Distribution Board DB.O	No	1				
1.3	Distribution Board DB.GH	No	1				
1.4	Sub - DB.A1.1	No	1				
1.5	Sub - DB.A1.2	No	1				
1.6	Sub - DB.A1.3	No	1				
1.7	Sub - DB.A2.1	No	1				
1.8	Sub - DB.A2.2	No	1				
1.9	Sub - DB.A2.3	No	1				
1.10	Sub - DB.A3.1	No	1				
1.11	Sub - DB.A3.2	No	1				
1.12	Sub - DB.A3.3	No	1				
1.13	Sub - DB.B1.1	No	1				
1.14	Sub - DB.B1.2	No	1				
1.15	Sub - DB.B1.3	No	1				
1.16	Sub - DB.B2.1	No	1				
1.17	Sub - DB.B2.2	No	1				
1.18	Sub - DB.B2.3	No	1				
TOTAL CARRIED TO SUMMARY							

Item	Description	Unit	Qty	Rate		Amount (A+B)	Total
				Mat. (A)	Inst. (B)		
	BILL NO.4						
	SMALL POWER - GENERAL PURPOSE OUTLET:						
1	Conduits						
	"Rates shall also include all accessories such as couplers, adapters, bends, round elbows, etc excepting outlet boxes."						
1.1	Heavy duty PVC conduit cast in concrete:						
1,1,1	20mm	m	0				
1,1,2	25mm	m	120				
1.2	Medium duty PVC conduit in brick work:						
1,2,1	20mm	m	0				
1,2,2	25mm	m	60				
1.3	PVC flexible conduit:						
1,3,1	25mm	m	0				
2	Conduit Boxes						
2.1	Galvanized steel draw box:						
2,1,1	100 x 100 x 50 mm in block/brick work.	No.	5				
2.2	Galvanized steel outlet boxes:						
2,2,1	100 x 100 x 50mm in block/brick work.	No.	44				
2,2,2	100 x 50 x 50mm in block/brick.	No.	0				
2.3	Blank steel cover plates painted white:						
2,3,1	For 100 x 100 x 50 mm box.	No.	0				
2,3,2	For 100 x 50 x 50 mm box.	No.	0				
3	Conductors						
	PVC insulated stranded Copper conductors drawn into conduit/wiring trunking/power skirting for circuit wiring. Insulation colour code to be 'Red' for phase and 'Black' for neutral:						
3.1							
3,1,1	6mm ²	m	60				
3,1,1	4mm ²	m	120				
3,1,2	2.5mm ²	m	0				
	Carried forward						

Item	Description	Unit	Qty	Rate		Amount	Total
				Mat.	Inst.		
Brought forward							R -
3.2	PVC insulated stranded Copper earth wire drawn into conduit. Insulation colour code to be 'Yellow/Green':						
3,2,1	6mm ²	m	60				
3,2,2	4mm ²	m	120				
3.3	Bare Copper earth wire drawn into wiring trunking/power skirting:						
3,3,1	2.5mm ²	m	0				
4	Socket Outlets and Equipment Isolators						
	"Rates shall also include all required steel cover plates, screws etc."						
4.1	All appliances shall be Crabtree with white finish unless otherwise specified.						
4,1,1	220V, 16A, standard 3 pin flush mounted, single switched socket outlet	No.	4				
4,1,2	220V, 16A, standard 3 pin flush mounted, double switched socket outlet	No.	21				
4,1,3	220V, 16A, standard 3 pin flush mounted, single switched socket outlet with EURO outlet	No.	10				
4,1,4	220V, 16A, standard 3 pin, surface mount single switched socket outlet c/w extension box.	No.	0				
4,1,5	220V, 16A, standard 3 pin mounted in wall box or floor box conduit system single switched socket outlet.	No.	0				
4,1,6	220V, 16A, red standard 3 pin mounted in wall box or floor box conduit system with shaved earth socket single S.S.O for essential circuits.	No.	0				
4,1,7	220V module unswitched.	No.	0				
4,1,8	220V, 30A, single pole isolator, flush mounted	No.	0				
4,1,9	220V, 30A, double pole isolator, flush mounted	No.	3				
4,1,10	220V, 30A, double pole isolator IP65 Rated, surface mounted	No.	5				
4,1,11	16 Ampere, standard 3 pin mounted on skirting trunking single switched socket outlet.	No.	0				
Carried forward							

Item	Description	Unit	Qty	Rate		Amount	Total
				Mat.	Inst.		
Brought forward							R -
4.2	Cabstrut wall cluster box system, complete with accessories for full range of electrical energy, data and communication outlets. Energy outlets shall be 16Amp, standard 3 pin single S.S.O and 16Amp, red 3 pin with shaved earth single, Data point and	No	0				
4.3	Power dock system, complete with accessories for full range of electrical energy, data and communication outlets. Energy outlets shall be 16Amp, standard 3 pin single S.S.O and 16Amp, red 3 pin with shaved earth single, Data point and	No	0				
4.4	16 Ampere, red standard 3 pin mounted on skirting trunking single switched socket outlet. with shaved earth socket	No	0				
4.5	RJ11 telephone sockets on Skirting	No	0				
4.6	RJ45 Data sockets on Skirting	No	0				
4.7	TV, FM & satellite Socket outlet with second TV loop, 100 mm x 100 mm.	No	0				
TOTAL CARRIED TO SUMMARY							

Item	Description	Unit	Qty	Rate		Amount (A+B)	Total
				Mat. (A)	Inst. (B)		
	BILL NO.5						
	ELECTRICAL APPLIANCES						
	"Rates shall allow for the supply, storage, delivery to site, and installtion of all materials complete with all required cover plates, accessories ect."						
1	150 Liter Electric Geysers to SANS standard	No	7				
2	2.5 Liter White Epoxy Hydroboil	No	1				
TOTAL CARRIED TO SUMMARY							

Item	Description	Unit	Qty	Rate		Amount (A+B)	Total
				Mat. (A)	Inst. (B)		
	BILL NO.6						
	LIGHT FITTINGS AND ACCESSORIES						
1	Conduits						
	"Rates shall also include all accessories such as couplers, adapters, bends, round elbows, etc excepting outlet boxes."						
1.1	Medium duty PVC conduit in brick/concrete work:						
1,1,1	20mm	m	50				
1.2	Medium duty PVC conduit fixed in ceiling space.						
1,2,1	20mm	m	250				
2	Conduit Boxes						
2.1	Draw boxes c/w covers:						
2,1,1	60 mm round, 25 mm deep PVC box for 20 mm conduit.	No	4				
2,1,2	60 mm round, 65 mm deep PVC box for 20 mm conduit.	No	1				
2.2	Outlet boxes excluding covers:						
2,2,1	60 mm round, 25 mm deep PVC box, for 20 mm conduit.	No	72				
3	Conductors						
3.1	PVC insulated stranded Copper conductors drawn into conduit/wiring trunking/power skirting for circuit wiring. Insulation colour code to be 'Red' for phase and 'Black' for neutral:						
3,1,1	2.5mm ²	m	300				
3.2	PVC insulated Copper earth wire drawn into conduit. Insulation colour code to be 'Yellow/Green':						
3,2,1	2.5mm ²	m	300				
4	Light Fittings, Including Tubes and Lamps						
	Supply and Install the following light fitting:						
4.1	Type F1: 1200mm, 33W LED surface mounted vapour proof luminaire c/w polycarbonate diffuser and SANS approved control gear similar to Regent Lighting Solutions' Nimbus.	No.	19				
4.2	Type F2: 1200mm, 27W LED surface mounted luminaire c/w double parabolic aluminium reflector and SANS approved control gear similar to Voltex Lighting s' SL95 LED.	No.	8				
	Carried forward						

Item	Description	Unit	Qty	Rate		Amount	Total
				Mat.	Inst.		
Brought forward							
							R -
4.3	Type B: 16W LED Round surface mounted Bulkhead luminaire with aluminium base, Wire guard and polycarbonate lens c/w SANS approved electronic control gear similar to Regent Lighting Solutions' Solo Cross Arm Bulkhead.	No	18				
4.4	Type D: 21,9W LED recessed downlight c/w polycarbonate diffuser similar to Regent Lighting Solutions' MITO	No	25				
4.5	1 x 124W LED floodlight mounted on 5m steel pole c/w circuit breaker and surge protection	No	16				
4.6	2 x 124W LED floodlight mounted on 5m steel pole c/w circuit breaker and surge protection	No	7				
4.7	2 x 30W LED solar floodlight mounted on 7m steel pole c/w circuit breaker and surge protection	No	2				
5 Switches and Accessories							
5.1	Flush mounted switch unit with steel cover plate and all accessories. Switches shall be Crabtree with white finish.						
5,1,1	16 Ampere, one lever, one way.	No	30				
5,1,2	16 Ampere, one lever, two way.	No	0				
5,1,3	Outlet boxes excluding covers:						
5,1,4	100 x 50 x 50 mm galvanized steel box in block/brick work.	No	30				
6 Equipment and Control Gear							
6.1	240 Volt AC photocell surface mounted:						
6,1,1	15 Ampere.	No	0				
6,1,2	250 V, 32 Ampere.	No	0				
6,1,3	20 Ampere	No	0				
6,1,4	240VAC, 10A timeswitch mounted in DB:	No	0				
6.2	AC contactor with 240 Volt coil, enclosed in distribution enclosure and coupled to photocell:						
6,2,1	32 Ampere	No	0				
TOTAL CARRIED TO SUMMARY							

Item	Description	Unit	Qty	Rate		Amount (A+B)	Total				
				Mat. (A)	Inst. (B)						
	BILL NO.7										
	PROVISIONAL SUMS										
1	EARTHING AND LIGHTNING PROTECTION										
	Provide the sum for the provision of earthing and lightning protection.	Item	1	R	72 000.00	R	-	R	-	R	72 000.00
1.2	Allow for mark-up	Item	1								
1.3	Allow for general attendance, etc.	Item	1								
TOTAL CARRIED TO SUMMARY											

PART C3: SCOPE OF WORK

1.1 Description of the Works

- 1.1.1 Employer's objectives
- 1.1.2 Overview of the works
- 1.1.3 Extent of the works
- 1.1.4 Location of the works
- 1.1.5 Temporary works
- 1.1.6 Access

1.2 Engineering

- 1.2.1 Design services and activity matrix
- 1.2.2 Employer's design
- 1.2.3 Design brief
- 1.2.4 Drawings
- 1.2.5 Design procedures

1.3 Procurement

- 1.3.1 Requirements
- 1.3.2 Subcontracting

1.4 Construction

- 1.4.1 Works specifications
- 1.4.2 Plant and Materials
- 1.4.3 Construction Equipment
- 1.4.4 Existing services
- 1.4.5 Site establishment
- 1.4.6 Site usage
- 1.4.7 Permits and way leaves
- 1.4.8 Alterations, additions, extensions and modifications to existing works
- 1.4.9 Inspection of adjoining properties
- 1.4.10 Water for construction purposes
- 1.4.11 Survey control and setting out of the works

1.5 Management

- 1.5.1 Management of the works
- 1.5.2 Health and safety
 - 1.5.2.1 Specification for Occupation Health and Safety in Construction Works Contracts

PART C3: SCOPE OF WORK

1.1 DESCRIPTION OF THE WORKS

1.1.1 Employer's objectives

The Johannesburg Development Agency's objective is to upgrade the existing Kaserne taxi holding facility.

1.1.2 Overview of the works

The proposed facility will consist of full new civil upgrade, upgrade of the existing access road, new toilet block, cooking stalls, seating areas, offices and guardhouse.

1.1.3 Extent of the works

The extent of Civil Works includes but is not limited to the following:

- Demolition: Demolition and spoiling or stockpiling (as per instruction) of existing gravel and grassed areas, road pavement, trees, foliage, street signs, bins, benches and other street furniture, removing all rubbish, debris, building rubble, random bricks and paving bricks, rocks, boulders, stormwater pipes, etc.
- Services: New stormwater, sewer and watetr network.
- Layerworks: Construction of layerworks from insitu and imported materials as well as the stabilisation (lime or cement) thereof.
- Kerbing and Channeling: Construction on precast kerbing and cast insitu channels and edge beams, and the construction of driveways, wheel chair and access ramps.
- Paving and Surfacing: Construction of patterned block paving as specified by the Engineer to accommodate pedestrian and / or vehicular traffic. Construction of asphalt road surfacing.
- Signage and Road Markings: Supply and Installation of statutory, information and way finding signage and placing of road markings.
- Building Works: Construction of new toilet block, cooking stalls, seating areas, offices and guardhouse.

1.1.4 Location of the Works

City and Suburban Street. Marshalltown, Johannesburg.

1.1.5 Temporary Works

The contractor is to design, supply, construct, demolish and spoil at his own cost any temporary works required in order to carry out the construction works as required.

As the Works are to be constructed within a built up urban area, the Contractor will be required to carry out all temporary works that will be necessary to maintain the flow of traffic and to ensure that pedestrian and vehicular access is maintained to local residential buildings and businesses.

1.1.6 Access

It is a requirement of this Contract that the Contractor ensures that all residents have access to their properties after hours and on weekends; all businesses are to have access during business hours. The Contractor is to implement temporary measures / deviations as required in order to achieve this outcome. Prior to the implementation of any deviation, written permission for such deviation shall be obtained from the Engineer. The Contractor shall advise all residents, community leaders and other stakeholders at least 2 weeks prior to the commencement of construction activities in an area. The Contractor is to employ a Community Liaison Officer in conjunction with the community structures in the area in order to achieve this outcome

The construction camp and works area must be watered during dry and windy conditions to control dust fallout. Dust production must be controlled by regular watering of roads and the works area. Contractors are to ensure that dust production at the site camp as well as the works area is controlled during working hours as well as during weekends.

1.2 ENGINEERING

1.2.1 Design Services & Activity Matrix

The following parties are responsible for the various design stages of the project.

DESCRIPTION	RESPONSIBLE
Concept, feasibility and overall process	Employers Agents / Professional Team
Basic Principal Agent and Preliminary Design	Employers Agents / Professional Team
Final design to approval for construction stage	Employers Agents / Professional Team
Temporary Works	Contractor
Preparation of as built drawings	Employers Agents / Professional Team / Contractor

1.2.2 Employers Design

All permanent works required for construction shall be designed by the employer and his appointed agents / professional team.

1.2.3 Design Brief

The Employer has briefed the consultants as to the design requirements.

1.2.4 Drawings

The drawings included on the CD/s attached to this document are as per the drawing register appearing in the CD/s attached. Contractors are to ensure that all drawings attached to this document are as per the drawing register. The drawings included with the tender document are for information and tender purposes only. Detail construction drawings will be issued to the contractor at site handover and revisions thereto during the construction stage of the project.

The following drawings are applicable to the contract:

Refer to drawing register on CD/s attached.

The Contractor will be supplied with three (3) copies of each of the construction drawings. These copies will be issued free of charge and the contractor shall make any additional prints he may require at his own cost.

The drawings included with the tender document are for information purposes only. Detail construction drawings will be issued to the contractor at site handover and revisions thereto during the construction stage of the project.

Only figured dimensions shall be used and drawings are not to be scaled unless so instructed by the principal agent. The principal agent will supply any figured dimensions, which may have been omitted from the drawings.

All drawings and documents are to be considered the sole property of the Consultants and are to be returned to them on completion of the Works. The drawings, etc., are to be used by the Contractor for the purpose of this Contract only. All drawings must be properly cared for, protected and kept in good condition.

Should any part or parts of the Drawings, Specifications or Bills of Quantities not be clearly intelligible to the Contractor, or the material or articles to be used in the execution of the Works be considered insufficiently described or the manner in which the work is to be carried out not be clear, the Contractor must obtain from the Principal Agent the necessary information to clarify such Drawings, Specification, Bills of Quantities or instructions which request shall be in writing.

The Contractor shall be held solely responsible for and shall, at his own expense, rectify any errors arising out of incorrect interpretation of the Drawings, Specifications, Bills of Quantities or instructions.

Upon receipt of detail drawings for any work, the Contractor shall, before putting that work in hand, ascertain that the dimensions given on the detail drawings correspond with the dimensions of any work already built and which governs the sizes of any work for which details are now issued.

In the event of the detail drawings not agreeing with the works already built, the discrepancy shall be brought to the Principal Agent's attention timeously and the detail drawings shall be returned at once for alterations.

All dimensions will be figured on the drawings or may be calculated from figured dimensions and are always to be followed. No dimensions shall be obtained by scaling.

1.2.5 Design Procedures

Where the Contractor is required to design any sub-contract or specialist works, the relevant professional indemnity must be taken out at the contractor's costs. All shop drawings must be issued timeously for approval by the Principal Agent. A late issue of shop drawings by the Contractor will not constitute a valid claim for extension of time.

1.3 PROCUREMENT

1.3.1 Requirements

The contractor shall be required to adopt labour based techniques through the full spectrum of the works with the proviso that the Employers specific objectives regarding TIME & QUALITY are in no way compromised. **Maximization of employment shall be of the essence on this contract.**

Tenderers are to note that it is an explicit condition of this tender that all unskilled labourers on the project are to be employed from the local community. It is also a condition of this tender that the successful contractor is required to sub-contract a minimum value of work to local

SMME's equal to 30% of the contract sum. Such work must be clearly identified in the SMME Plan which plan will be considered in the functionality assessment of the tender evaluation process. Furthermore, it is a condition of this tender that the successful contractor is required to take full responsibility of managing all appointed sub-contractors and the quality of their works.

The Contractor shall in general, maximise the involvement of the local community.

The minimum number of jobs created on this contract shall be 8 jobs for every one million rand of the contract sum. This target applies to the Contractor's labourers and local labourers and to the sub-contractor's labourers.

The Contractor shall be required to submit employment and SMME data on a monthly basis to the Principle Agent.

The Contractor and all sub-contractors including local SMME's will be required to pay labour rates which are in accordance with SAFCEC rates, including any future annual inflation adjustments.

The JDA reserves the right to reject bids that are deemed to be non-market related especially for the portion of works to be executed by the local SMME's.

1.3.2 Subcontracting SMME's – Special Conditions of Contract

Participation and Advancement of Start-Up, Small and Micro Enterprises, and the SMME programme.

The City of Johannesburg has identified job creation and access to procurement opportunities by Start-ups, Small and Micro enterprises (SMMEs) as an essential requirement towards building an economically viable City. In this regard the following definitions are applicable:

“Start-up Enterprises” means an enterprise that has been in existence and operating for less than two years.

“Small Enterprises” means an enterprise that has a CIDB grading designation of 1 or 2.

“Micro Enterprises” means an enterprise that has a CIDB grading designation of 3.

“Locally based SMMEs” means enterprises that have their operational base in the ward in which the project is to be executed or, alternatively, the members of the enterprise are resident in the particular ward. Should suitable locally based SMME contractors as defined above not be available in the particular ward, then they shall be sourced from adjacent wards.

The form of contract to be used with SMMEs is the GCC sub-contract agreement. The Contract Data must record the specific requirements in respect of penalties, retention and payment. With regard to the latter, the Contractor is to allow for fortnightly certificates from the SMMEs and for payment to the SMMEs to be effected within 7 days of certification.

It is intended that fortnightly payments to the SMME's will be as follows:

- Payment 1 – for the SMME to pay suppliers for material/plant, subject to the necessary proof being furnished;
- Payment 2 – for SMME's to pay labourers employed, subject to the necessary proof being furnished and upon receipt of proof of payment of suppliers;
- Payment 3 – for any balance due based on a valuation done of works completed, upon receipt of proof of payment of labour.

The contractor will be expected to pay SMME's full rates as submitted by the contractor to the JDA.

Above this, it is a condition of this contract that should the contractor fail to pay the SMME's with no valid reason/s, the JDA reserves the right to pay the SMME's directly and deduct same from any amount paid to the contractor.

In order to achieve the goals of this policy and to ensure that the SMMEs are treated fairly and given every opportunity to advance their business whilst delivering a successful project, the Contractor is to note the following and provide for any cost that may be associated therewith.

1. The bill of quantities identified for implementation by the SMME's is to provide for market related P&G items in order that the SMME may be compensated for any unforeseen delays or events that impact on his ability to complete his works. The Contractor shall subcontract the local SMME works at the Contractor's tendered rates. **It is to be specifically noted that the rates for items of work to be executed by SMME's must be market related. Tenderers are to ensure that rates tendered for this portion of the works is to take into account all items that the main contractor would have allowed for in his normal course of pricing, i.e. materials, labour, wastage, profit, attendance, etc. all at applicable productivity rates.**

2. The Contractor will be expected to have clearly specified the programme dates to the SMME sub-contractor and these dates are to be included in the contract of agreement between the two parties. The Contractor is to monitor the SMME sub-contractor's progress against the programme and hold progress meetings with the SMME sub-contractor where minutes are to be kept and signed off by both parties.

3. The Contractor is to assess the skills of the SMME sub-contractor and provide the relevant support and training where it is necessary in order for the SMME sub-contractor to complete the works to programme, budget and specification. The Contractor will be expected to provide on-site training to the SMME sub-contractor that will ensure that the SMME sub-contractor's staff is suitably trained to execute the works and that they receive sufficient relevant experience on the project. The Contractor will be expected to explain to and train the SMME's on how the BoQ rates were built up.

4. The Contractor is responsible for safety compliance on the project and will assist the SMME sub-contractor in all aspects to achieve safety compliance, that will include:

- a) Assisting the SMME sub-contractor with developing their safety files, legal appointments, etc.
- b) Assisting the SMME sub-contractor with achieving safety on site.
- c) Having tool box talks with the SMME sub-contractor employees on a daily basis.
- d) Providing all safety equipment and signage.
- e) Providing safety training where necessary.

5. The Contractor is to provide all the necessary equipment for the timeous monitoring and the checking of the quality of works as carried out by the SMME sub-contractor. The Contractor will be expected to monitor the SMME sub-contractor's works for quality compliance and provide all the necessary support to the SMME sub-contractor in order to achieve quality requirements. The Contractor is to ensure that if the SMME sub-contractors quality of works does not achieve specification the Contractor will assist the SMME sub-contractor to achieve specification and not allow the works to continue until the quality requirements are achieved.

6. The Contractor is to generate monthly reports for the JDA that includes the following:

- a) SMME sub-contractor resources on the site, i.e. supervisors, labour, plant tools and equipment
- b) SMME sub-contractor progress of works on site.
- c) SMME sub-contractor quality control on site.
- d) SMME sub-contractor expenditure on the project versus target expenditure.
- e) Copies of minutes of the SMME sub-contractor and Contractor progress meetings.
- f) Concerns and improvements to be made.

The Tenderers are to price the works to achieve full compliance with the above requirements. Tenderers are to ensure that they allocate a dedicated individual to manage the SMME's and fulfil the requirements stated above.

The SMME supervisor will be required to conclude a scorecard with the JDA. Said scorecard will encompass four key performance areas and several key performance indicators as outlined overleaf. The SMME supervisor will be required to score a minimum of 95%. The scorecard review will take place on a monthly basis.

Key Performance Areas	(a) Key Performance Indicators
1) Safety	(a) Be familiar with and ensures SMME Contractor enforces the safety specs and relevant OHSA (b) Reporting of incidents and accidents <ul style="list-style-type: none"> • Ensures SMME Contractor Reports incidents and accidents to the Contractor on the day they occur
2) Quality Control	(b) Setting out of the Works <ul style="list-style-type: none"> • Ensures that the Works have been set-out correctly prior to construction commencing (c) Monitoring of Construction <ul style="list-style-type: none"> • Examine the Works daily and pre-empt unnecessary work by the SMME Contractor by warning him of incorrect workmanship as soon as it is identified (d) Approval of the Works <ul style="list-style-type: none"> • Assist SMME Contractor in the works approval process (e) Read Drawings <ul style="list-style-type: none"> • Assist SMME Contractor in reading and interpreting construction drawings
3) Financial	(a) Daily Costing <ul style="list-style-type: none"> • Ensures that SMME Contractors do daily costing (b) Variances to Scope <ul style="list-style-type: none"> • Assist SMME Contractors identify and claim for additional works (c) Standing Time Costs <ul style="list-style-type: none"> • Assist SMME Contractors compute and Claim standing time costs
4) Site Administration and Progress Monitoring	(a) Communication <ul style="list-style-type: none"> • Ensures that SMME Contractors communicate with the Contractor in writing on site related issues (b) Reporting <ul style="list-style-type: none"> • Ensures that the Main Contractor's progress report is communicated with the SMME Contractors and that contingency plans are followed through (c) Site diary <ul style="list-style-type: none"> • Ensures SMME Contractors maintain a site diary (d) Claims <ul style="list-style-type: none"> • Assist SMME Contractors draft claims for Extension of Time where applicable (e) Quantities <ul style="list-style-type: none"> • Assist SMME Contractors in the measurement of the works

Following from the above, the SMME's to be contracted on the project must be selected from a database which will be issued to the appointed contractor on the commencement date of the contract. The data base will include for SMME that are youth, women owned, disabled and ex-combats. The

contractor will be expected to give preference to SMME's that comply with all/most of these groups. The following information must be provided by said contractor within 14 days of the commencement date of the contract.

1. Detailed approach and methodology on the employment of local SMME's
2. SMME/s company name/s to be employed on the project.
3. SMME contact persons
4. Works to be executed by SMME/s
5. Programme (anticipated start, duration and end dates) applicable to the works defined in item 4 above.

The onus is on the Contractor to prove to the Employer that no fully fledged SMMEs are active in the area of the project. In this case, the contractor can source SMME's from adjacent wards and must submit a proposal with his tender on how he intends to advance the growth of the SMME's in the project ward.

JDA reserves the right to withdraw its acceptance of offer, should the appointed contractor fail to satisfactorily address the above requirements (1 to 5) within 14 days of the commencement date of the contract. Approved documentation will form part of the contract.

Failure of the Contractor to achieve the requirements set-out in this tender document during construction may result in the JDA enforcing compliance by appointing 3rd parties if necessary to assist and deducting all reasonable costs for achieving compliance from money due to the Contractor.

Should the contractor, at Practical Completion, be in default by non-attainment of the above-mentioned labour intensive targets and SMME requirements, the Employer shall have the right to, without prejudice of any other rights, apply a penalty not exceeding 5% of the contract sum

1.4 CONSTRUCTION

1.4.1 Works specifications

Applicable national and international standards

SANS 1200; Model Preambles for Trades (2008 Edition).

Particular / generic specifications

Works are to be carried out in accordance with the construction drawings and according to the Johannesburg Development Agency, Johannesburg Roads Agency and City of Johannesburg's norms and standards.

Certification by recognized bodies

None Applicable.

1.4.2 Plant and Materials

The contractor shall ensure that adequate plant and materials are procured at his own cost and available as required in order to complete the works as specified in line with the contract programme. The contractor shall supply a report to the Principal Agent on a fortnightly basis as to the plant and materials on site (or on order), and their utilization in relation to the construction programme.

There is no guarantee given or implied that the Contractor will be permitted to utilise any or all of the plant he proposes to use in the construction of the Works.

1.4.3 Construction Equipment

The contractor shall ensure that adequate construction equipment is available at his own cost as required in order to complete the works as specified in line with the contract programme. The contractor shall supply a report to the Principal Agent on a fortnightly basis as to the construction equipment on site and their utilization in relation to the construction programme.

There is no guarantee given or implied that the Contractor will be permitted to utilise any or all of the equipment he proposes to use in the construction of the Works.

1.4.4 Existing Services

All known existing services and those services which require relocation and protection, are shown on the services plans. The Contractor's attention is drawn to the fact that such services information is based on information supplied by others, and accuracy and completeness of this information has not been confirmed. The contractor will therefore be required to proceed with extreme caution in order to avoid damage to existing services.

In general, the engineer may call upon the contractor to re-excavate trenches previously dug and backfilled by others where in the opinion of the engineer such work is necessary to ensure the stability of any other works over such trenches. This in no way relieves the contractor of his responsibilities in term of the works.

1.4.5 Site Establishment

The Contractor shall make available temporary facilities necessary for providing the works which are not provided by the Employer including telecommunications, security services, medical, fire protection, sanitation and toilets, waste disposal, etc.

The contractor shall not make any changes to the senior management relative to the agreement without the principal agent's express written approval.

Services and Facilities Provided by the Employer:

- Nil

Facilities Provided by the Contractor:

- The contractor is to provide facilities, necessary to complete the project as specified.
- The contractor is to provide suitable hoarding to the entire site for the entire duration of the project to meet the Principal Agent's requirements. Including any necessary making good upon completion.

Storage and Laboratory Facilities:

- The contractor is to provide facilities, necessary to complete the project as specified.

Other Facilities and Services:

- The contractor is to provide facilities, necessary to complete the project as specified.

Vehicles and Equipment:

- The contractor is to provide vehicles and equipment necessary to complete the project as specified.

Advertising Rights:

- The contractor may not place any advertising boards or the like on the site or in any public area without the express written permission of the employer.

Notice Boards:

- The contractor must place a contract notice board outside his site camp as specified by the employer.

Office Accommodation for Meeting Room:

- The contractor must provide a meeting room to accommodate a maximum of 20 people. The meeting room is to be air-conditioned.
- The contractor must provide an air-conditioned office space for the engineers for construction monitoring.

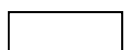
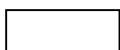
1.4.6 Site Usage

The contractor will have unlimited access to the site, however all construction activities are to comply with the City of Johannesburg's by laws. The accommodation of vehicular and pedestrian traffic on the site is to be maintained at all times.

The contractor is to allow for the accommodation and diversion of pedestrian traffic in his preliminaries & general items all in accordance with the South African Road Traffic Signs Manual, The Occupational Health & Safety Act & The Construction Regulations as amended, including on-going liaison with the traffic authorities and management of traffic, alterations to kerbing and landscaping, barricading road entrances, temporary signage, dust screens, painting of lines, etc. The traffic accommodation proposal shall be approved by the Principal Agent prior to the execution of the works.

The contractor is to maintain temporary accesses to all businesses during business hours and to all residential properties outside of business hours. In the event that the contractor cannot maintain access to residents' properties for vehicular parking and the like, the contractor is to provide alternative secure

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parking for residents at his own cost. Similarly, should residents be forced to park on the street due to construction activities, the contractor shall provide security personnel to guard the resident's vehicles.

The cost hereof shall be included in the contractor's preliminaries & general items.

1.4.7 Permits and wayleaves

Wayleaves shall be supplied by the contractor. Contractors are to comply with the terms and conditions of the wayleaves as supplied by the various service provider departments.

1.4.8 Alterations, additions, extensions and modifications to existing works

The works at tender stage are not finalised and are subject to change in their entirety.

1.4.9 Inspection of Adjoining Properties

Contactors are to ensure that adequate inspections of adjoining properties are carried out (and records are kept thereof) to ensure that any claims received from adjoining properties due to damage can be dealt with decisively. The settlement of any claims in this regard shall be dealt with in terms of the policies in place by the City of Johannesburg. Photographs must be taken to document the inspection.

1.4.10 Water and Electricity for Construction Purposes

The contractor is to make his own arrangements for the supply of water for construction purposes and his own domestic usage.

The same principle applies to electricity.

1.4.11 Survey Control and setting out of the works

By the Contractor

1.5 MANAGEMENT

1.5.1 Management of the Works

The Contractor is to provide suitably qualified and experienced personnel to manage the works. The Contractor will be expected to provide CV's of his proposed site management personnel for the Principal Agents review and approval.

Should the Principal Agent believe that the proposed site personnel not be sufficiently qualified and/or experienced to do the works, be this at CV review, or later into the contract, then the Contractor will be expected to replace this person/s, or provide additional persons to manage the works, and that this will be done at the Contractors own expense.

Should the Contractor fail to follow this instruction, then the Principal Agent will be entitled to place the Contractor on notice to rectify the situation in terms of the contract.

1.5.2 Health & Safety

1.5.2.1 Specification for Occupational Health and Safety in Construction Works Contracts

1. Scope

This health and safety specification establishes the overarching framework within which a contractor is required to satisfy general requirements for occupation health and safety in an engineering and construction works contract.

Note:

- a) This specification establishes general requirements to enable the employer and the contractor to satisfy the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993) and the Construction Regulations, 2014.
- b) The Construction Regulations, 2014, require an employer to stop any contractor from executing construction work which is not in accordance with the contractor's health and safety plan for the site or which poses a threat to the health and safety of persons.

2. Definitions

Act: The Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)

competent person: any person having the knowledge, training and experience specific to the work or task being performed

ergonomics: the application of scientific information concerning humans to the design of objects, systems and the environment for human use in order to optimize human well-being and overall system performance

hazard: a source of or exposure to danger

incident: an event or occurrence occurring at work or arising out of or in connection with the activities of persons at work, or in connection with the use of plant or machinery, in which, or in consequence of which:

- a) any person dies, becomes unconscious, suffers the loss of a limb or part of a limb or is otherwise injured or becomes ill to such a degree that he is likely either to die or to suffer a permanent physical defect or likely to be unable for a period of at least 14 days either to work or to continue with the activity for which he was employed or is usually employed;

- b) a major incident occurred; or
- c) the health or safety of any person was endangered and where-
 - i) a dangerous substance was spilled;
 - ii) the uncontrolled release of any substance under pressure took place;
 - iii) machinery or any part thereof fractured or failed resulting in flying, falling or uncontrolled moving objects; or machinery ran out of control

health and safety plan: a documented plan which addresses hazards identified and includes safe work procedures to mitigate, reduce or control the hazards identified.

health and safety specification: a documented specification of all health and safety requirements pertaining to the associated works on a construction site, so as to ensure the health and safety of persons

inspector: a person designated as such under section 28 of the Act

major incident: an occurrence of catastrophic proportions, resulting from the use of plant or machinery, or from activities at a workplace

reasonably practicable: practicable having regard to:

- a. the severity and scope of the hazard or risk concerned;
- b. the state of knowledge reasonably available concerning that hazard or risk and of any means of removing or mitigating that hazard or risk;
- c. the availability and suitability of means to remove or mitigate that hazard or risk; and
- d. the cost of removing or mitigating that hazard or risk in relation to the benefits deriving therefrom;

risk: the probability that injury or damage will occur

safe: free from any hazard

scaffold: any temporary elevated platform and supporting structure used for providing access to and supporting workmen or materials or both

specification data: data, provisions and variations that make this specification applicable to a particular contract

structure

- a) any building, steel or reinforced concrete structure (not being a building), railway line or siding, bridge, waterworks, reservoir, pipe or pipeline, cable, sewer, sewage works, fixed vessels, road, drainage works, earthworks, dam, wall, mast, tower, tower crane, batching plants, pylon, surface and underground tanks, earth retaining structure or any structure designed to preserve or alter any natural feature, and any other similar structure;
- b) any formwork, false work, scaffold or other structure designed or used to provide support or means of access during construction work; or
- c) any fixed plant in respect of work which includes the installation, commissioning, decommissioning or dismantling and where any such work involves a risk of a person falling two metres or more

substance: any solid, liquid, vapour, gas or aerosol, or combination thereof

- suitable:** capable of fulfilling or having fulfilled the intended function or fit for its intended purpose
- 3. Interpretation**
- 3.1 The Act and its associated regulations shall have precedence in the interpretation of any ambiguity or inconsistency between it and this specification.
- 3.2 Compliance with the requirements of this specification does not necessarily result in compliance with the provisions of the Act.
- 4. Requirements**
- 4.1 General requirement**
- 4.1.1 The contractor shall execute the works in a manner that complies with all the requirements of the Act and all its associated regulations, and in so doing, minimize the risk of incidents occurring.
- 4.1.2 The contractor shall with respect to the site and the engineering and construction works that are contemplated:
- a) identify the hazards and evaluate the risks associated with such work constituting a hazard to the health and safety of such employees and the steps that need to be taken to comply with the Act; and
- b) as far as is reasonably practicable, prevent the exposure of such employees to the hazards concerned or, where prevention is not reasonably practicable, minimize such exposure.
- 4.1.3 The contractor shall as far as is reasonably practicable, cause every employee to be made conversant with the hazards to his health and safety attached to any work which he has to perform, any article or substance which he has to produce, process, use, handle, store or transport and any plant or machinery which he is required or permitted to use, as well as with the precautionary measures which should be taken and observed with the respect to those hazards.
- 4.1.4 The contractor shall ensure that all employees under his or her control are:
- a) informed, instructed and trained by a competent person regarding any hazard and the related work procedures before any work commences, and thereafter at such times as may be determined in the risk assessment; and
- b) issued with proof of health and safety induction training issued by a competent person and carry proof of such induction when working on site.
- 4.1.5 The contractor shall not allow or permit any employee to enter any site, unless such person has undergone health and safety induction training pertaining to the hazards prevalent on the site at the time of entry.
- 4.1.6 The contractor shall ensure that each visitor to a construction site, save where such visitor only visits the site office and is not in direct contact with the construction work activities:
- a) undergoes health and safety instruction pertaining to the hazards prevalent on the site; and
- b) is provided with the necessary personal protective equipment.
- 4.1.7 The contractor shall provide suitable on-site signage to alert workers and visitors to health and safety requirements.

- 4.1.8 The contractor shall not permit any person who is or who appears to be under the influence of intoxicating liquor or drugs, to enter or remain at a workplace.

4.2 Health and safety representatives

- 4.2.1 The contractor shall appoint in writing one health and safety representative for every 50 employees of the contractor working on the site, whenever there are more than 20 employees on the site; to:

- a) review the effectiveness of health and safety measures;
- b) identify potential hazards and potential major incidents;
- c) in collaboration with his employer, examine the causes of incidents;
- d) investigate complaints by any employee of the contractor relating to that employee's health or safety on the site;
- e) make representations to the contractor on matters arising from a), b), c) or d) or on general matters affecting the health or safety of the employees at the workplace;
- g) inspect the site with a view to the health and safety of employees, at regular intervals;
- h) participate in consultations with inspectors at the workplace and accompany inspectors on inspections of the workplace; and
- i) participate in any internal health or safety audit.

- 4.2.2 The contractor shall inform the relevant safety representative:

- a) beforehand of inspections, investigations or formal inquiries of which he has been notified by an inspector; and
- b) as soon as reasonably practicable of the occurrence of an incident on the site.

- 4.2.3 The contractor shall convene health and safety meetings whenever more than two health and safety representatives have been appointed for the site. These meetings shall be attended by all health and safety representatives and shall be convened at least once every month to:

- a) make recommendations to the employer regarding any matter affecting the health or safety of persons on the site; and
- b) discuss any incident on the site in which or in consequence of which any person was injured, became ill or died.

- 4.2.4 The contractor shall consult with the health and safety committee on the development, monitoring and review of the risk assessment.

4.3 Appointment of construction supervisor and safety officers

- 4.3.1 The contractor shall appoint a full-time competent employee designated in writing as the construction supervisor for the site, with the duty of supervising the performance of the work falling within the scope of the contract and may appoint one or more competent employees to assist the appointed construction supervisor.
- 4.3.2 A contractor may having considered the size of the project, the degree of dangers likely to be encountered or the accumulation of hazards or risks on the site, appoint a full-time or part-time construction safety officer in writing, who has in the contractor's opinion the necessary competencies and resources, to assist the contractor in the control of all safety related aspects on the site.
- 4.3.3 The contractor shall ensure that the construction supervisor is in possession of the most recently updated version of the fall protection plan.
- 4.3.4 The contractor shall ensure that the following activities, as relevant, are carried out under the supervision of a competent person and that such persons are appointed in writing:
 - a) all formwork and support work operations;
 - b) excavation work;
 - c) demolition work;
 - d) scaffolding work operations;
 - e) suspended platform work operations;
 - f) operation of batch plants; and
 - g) the stacking and storage of articles on the site.

4.4 Risk assessment

- 4.4.1 The contractor performing work falling within the contract shall, before the commencement of any such work and during construction work, cause a risk assessment to be performed by a competent person appointed in writing. Such an assessment shall as a minimum:
 - a) identify the risks and hazards to which persons may be exposed to;
 - b) analyse and evaluate the identified risks and hazards;
 - c) document a plan of safe work procedures to mitigate, reduce or control the risks and hazards that have been identified;
 - d) provide a monitoring plan; and
 - e) provide a review plan.

Note: A risk assessment is an important step in protecting workers as well as complying with the law. It helps you focus on the risks that really matter in a particular workplace – the ones with the potential to cause real harm. Workers and others have a right to be protected from harm caused by a failure to take reasonable control measures. The following four steps are recommended:

Identify the hazards by looking at what could reasonably be expected to cause harm, ask employees or their representatives what they think, obtain advice from trade associations or publications on health and safety, check manufacturer's instructions or data sheets for chemicals and equipment as they can be very helpful in spelling out the hazards and putting them in their true perspective, review accident and ill-health records, think about long-term hazards to health (eg high levels of noise or exposure to harmful substances) as well as safety hazards etc.

Identify who may be harmed and how by identifying how groups of people might be harmed i.e. what type of injury or ill health might occur.

Evaluate the risks and decide on precautions by doing everything 'reasonably practicable' to protect people from harm i.e. by looking at how things are done, what controls are in place and how the work is organised and comparing this against good practice to see if more can be done to bring practices up to standard. Consider if the hazard can be got rid of all together, and if not how can the risks be controlled so that harm is unlikely, e.g. try a less risky option (e.g. switch to using a less hazardous chemical); prevent access to the hazard (e.g. by guarding); organise work to reduce exposure to the hazard (e.g. put barriers between pedestrians and traffic); issue personal protective equipment (e.g. clothing, footwear, goggles etc); and provide welfare facilities (e.g. first aid and washing facilities for removal of contamination).

Record the findings by writing down the findings of the risk assessment.

- 4.4.2 The contractor shall ensure that as far as is reasonably practicable, ergonomic related hazards are analysed, evaluated and addressed in the risk assessment.
- 4.4.3 The contractor shall require a competent person to prepare a fall protection plan in compliance with the requirements of the Construction Regulations.
- 4.4.4 Notwithstanding the provisions of the fall protection plan, the contractor shall ensure that:
- a) all unprotected openings in floors, edges, slabs, hatchways and stairways are adequately guarded, fenced or barricaded or that similar means are used to safeguard any person from falling through such openings;
 - b) no person works in an elevated position, unless such work is performed safely as if working from a scaffold or ladder;
 - c) notices are conspicuously placed at all openings where the possibility exists that a person might fall through such openings;
 - d) fall prevention and fall arrest equipment is:
 - i) suitable and of sufficient strength for the purpose or purposes for which it is being used having regard to the work being carried out and the load, including any person, it is intended to bear; and
 - ii) securely attached to a structure or plant and the means of attachment thereto is suitable and of sufficient strength and stability for the purpose of safely supporting the equipment and any person who is liable to fall;
fall arrest equipment is only used where it is not reasonably practicable to use fall prevention equipment; and
 - e) suitable and sufficient steps are taken to ensure, as far as is reasonably practicable, that in the event of a fall by any person, the fall arrest equipment or the surrounding environment does not cause injury to the person.

4.4.5 Where roof work is being performed on a construction site, the contractor shall ensure that it is indicated in the fall protection plan that:

- a) the roof work has been properly planned;
- b) the roof erectors are competent to carry out the work;
- c) no employees are permitted to work on roofs during inclement weather conditions or if weather conditions are a hazard to the health and safety of the employees;
- d) prominent warning notices are to be placed where all covers to openings are not of sufficient strength to withstand any imposed loads and where fragile material exists;
- e) the areas mentioned in paragraph (d) are to be barricaded off to prevent persons from entering;
- f) suitable and sufficient platforms, coverings or other similar means of support have been provided to be used in such a way that the weight of any person passing across or working on or from fragile material is supported; and
- g) there is suitable and sufficient guard-rails or barriers and toe-boards or other similar means of protection to prevent, so far as is reasonably practicable, the fall of any person, material or equipment.

4.4.6 The contractor shall ensure that:

- a) all reasonably practicable steps are taken to prevent the uncontrolled collapse of any new or existing structure or any part thereof, which may become unstable or is in a temporary state of weakness or instability due to the carrying out of construction work;
- b) no structure or part of a structure is loaded in a manner which would render it unsafe; and
- c) specification data prepared by the designer of the structure is taken into account in the risk assessment;

Note: The specification data provided by the designer should outline known or anticipated dangers or hazards relating to the works and make available all information required for the safe execution of the work. It should provide as relevant, geotechnical information (or make reference to reports provided in the site information), the loading the structure is designed to withstand, the methods and sequence of construction.

4.5 Health and safety plans

4.5.1 The contractor shall prior to commencing the works to which this specification applies, submit to the employer for approval a suitable and sufficiently documented health and safety plan, based on this specification and the risk assessment that is conducted.

The health and safety plan shall as a minimum provide:

- a) the information contained in Table 1 in respect of each of the hazards associated with work falling within the scope of the contract (see Figure 1); and

What are the hazards?	Who might be harmed and how?	What are the safe work procedures for the site?	What further action is necessary (monitoring and review)?	Action by whom	Action by when

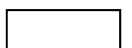
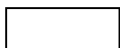
Table 1: Example of the format of a health and safety plan

b) an outline of the manner in which the contractor intends complying with the requirements of this specification.

- 4.5.2 The contractor shall discuss the submitted health and safety plan with the employer’s representative, modify such plan in the light of the discussions and resubmit the modified plan for approval.
- 4.5.3 The contractor shall apply the approved health and safety plan from the date of commencement of and for the duration of the works to which this specification applies.
- 4.5.4 The contractor shall conduct periodic audits for compliance with the approved health and safety plan at intervals agreed upon with the employer, but at least once every month.
- 4.5.5 The contractor shall update the health and safety plan whenever changes to the works are brought about.

4.6 Subcontractors

- 4.6.1 The contractor may only subcontract work in terms of a written subcontract and shall only appoint a subcontractor should he be reasonably satisfied that such a subcontractor has the necessary competencies and resources to perform the work falling within the scope of the contract safely. Such a subcontract shall require that the subcontractor shall:
 - a) shall co-operate with the contractor as far as is necessary to enable both the contractor and sub-contractor to comply with the provisions of the Act; and
 - b) as far as is reasonably practicable, promptly provide the contractor with any information which might affect the health and safety of any person at work carrying out work or any person who might be affected by the work of such a person at work or which might justify a review of the health and safety plan.
- 4.6.2 The contractor shall provide any sub-contractor who is submitting a tender or appointed to perform a sub-contract falling within the scope of the contract, with the relevant sections of this specification and associated specification data which might be pertinent to the sub-contract.
- 4.6.3 The contractor shall take reasonable steps as are necessary to ensure:
 - a) co-operation between all sub-contractors to enable each of those sub-contractors to comply with the requirements of the Act and associated regulations; and
 - b) that each sub-contractor’s health and safety plan is implemented.
- 4.6.4 The contractor shall conduct periodic audits for compliance with the approved health and safety plan of each and every sub-contractor working on the site at intervals agreed upon with such contractors, but at least once per month.



- 4.6.5 The contractor shall stop any contractor from executing construction work which is not in accordance with the contractor's or subcontractor's health and safety plan for the site or which poses a threat to the health and safety of persons.
- 4.6.6 The contractor shall ensure that where changes to the works occur, sufficient health and safety information and appropriate resources are made available to the subcontractor to execute the work safely.
- 4.6.7 The contractor shall ensure that:
- a) every subcontractor is registered and in good standing with the compensation fund or with a licensed compensation insurer prior to work commencing on site;
 - b) potential subcontractors submitting tenders have made provision for the cost of health and safety measures during the construction process; and
 - c) every subcontractor has in place a documented health and safety plan prior to commencing any work on site which falls within the scope of the contract.
- 4.6.8 The contractor shall receive, discuss and approve health and safety plans submitted by subcontractors.
- 4.6.9 The contractor shall ensure that all subcontractors are informed regarding any hazard as stipulated in the risk assessment before any work commences, and thereafter at such times as may be determined in the risk assessment.
- 4.6.10 The contractor shall reasonably satisfy himself that all employees of subcontractors are informed, instructed and trained by a competent person regarding any hazard and the related work procedures before any work commences, and thereafter at such times as may be determined in the risk assessment.

The contractor shall satisfy himself and ensure that all subcontractor employees deployed in the site are:

- a) informed, instructed and trained by a competent person regarding any hazard and the related work procedures before any work commences, and thereafter at such times as may be determined in the risk assessment; and
- b) issued with proof of health and safety induction training issued by a competent person and carry proof such induction when working on site.

4.7 Reporting of incidents

The contractor shall notify the employer's representative of any incident as soon as possible after it has occurred and report such incidence to an inspector.

4.8 Administration

4.8.1 Notification of intention to commence construction work

The contractor shall notify the Provincial Director of Labour in writing using a form similar to that contained in Annexure A of the Construction Regulations issued in terms of the Act before construction work commences and retain a copy of such notification in the health and safety file where such work:

involves the demolition of a structure exceeding a height of 3m;

involves the use of explosives to perform construction work;

involves the dismantling of fixed plant at a height greater than 3m;

exceeds 30 days or will involve more than 300-person days of construction work; and includes:

- i) excavation work deeper than 1m; or
- ii) working at a height greater than 3 m above ground or a landing.

4.8.2 Health and safety file

4.8.2.1 The contractor shall maintain on site a health and safety file on site which contains copies of the following, as relevant:

- a) the notification made to the Provincial Director of Labour in terms of 4.4.1;
- b) the letters of appointment of health and safety representatives;
- c) the minutes of all health and safety meetings;
- d) a comprehensive and updated list of all the subcontractors (nominated, selected or domestic) employed on site by the contractor, indicating the type of work being performed by such sub-contractors;
- e) a copy of each and every subcontract agreement;
- f) the contractor's health and safety plan;
- g) the health and safety plans of all the contractor's subcontractors who are required to provide such plans;
- h) the recommendations made to the contractor by the health and safety committee referred to in 4.2.3
- i) any report made to an inspector by the health and safety committee referred to in 4.2.3; and
- j) the findings of all audit reports made regarding the implementation of the contractor's or a subcontractor's health and safety plan;
- k) proof that the contractor and every subcontractor is registered and in good standing with the compensation fund or with a licensed compensation insurer;
- l) the inputs of the safety officer, if any, into the health and safety plan;
- m) a copy of risk assessments made by competent persons;
- n) details of induction training conducted whenever it is conducted;
- o) proof of all subcontractor's induction training whenever it is conducted;

- p) letters of appointments for competent persons to supervise prescribed activities;
- q) proof of the following where suspended platforms are used:
 - i) a certificate of system design issued by a professional engineer professional certificated engineer or a professional engineering technologist;
 - ii) proof of competency of erectors;
 - iii) proof of compliance of operational design calculations with requirements of the system design certificate;
 - iv) proof of performance test results;
 - v) sketches indicating the completed system with the operational loading capacity of the platform;
 - vi) procedures for and records of inspections having been carried out;
 - vii) procedures for and records of maintenance work having been carried out;
 - viii) proof that the prescribed documentation has been forwarded to the provincial director;
- r) records of the register of inspections made by a competent person immediately before and during the placement of concrete or any other load on formwork; and
- s) the names of the first aiders on site and copies of the first aid certificates of competency.

4.8.2.2 The health and safety file shall be made available for inspection by any inspector, subcontractor, employer's representative, employer's agent, health and safety representative or employee of the contractor upon the request of such persons.

4.8.2.3 The contractor shall hand over the health and safety file to the employer upon completion of the contract together with a record of all drawings, designs, materials used and other similar information concerning the completed structure.

4.9 First aid, emergency equipment and procedures

The contractor shall where more than five employees are employed at a workplace, provide a first aid box or boxes at or near the workplace which shall be available and accessible for the treatment of injured persons at that workplace. Such first aid boxes shall contain suitable first aid equipment.

The contractor shall ensure that where there are more than 10 employees employed on the site that for every group of up to 50 employees at that workplace, at least one person is readily available during normal working hours, who is in possession of a valid certificate of competency in first aid.

PART C4: SITE INFORMATION

- 1.1 Architectural and Engineering Drawings (Refer to Attached CD)
- 1.2 Electronic BOQ (Refer to Attached CD)
- 1.3 Geotechnical Report (Refer to Attached CD)

