TENDER NO: 396G/2022/23

TENDER DESCRIPTION: THE SUPPLY AND DELIVERY OF VARIOUS TRUCKS WITH AERIAL PLATFORMS

CONTRACT PERIOD: NOT EXCEEDING 36 MONTHS FROM THE DATE OF COMMENCEMENT OF THE CONTRACT

VOLUME 1: TENDERING PROCEDURES

CLOSING DATE: **17 July 2023**

CLOSING TIME: **10:00 a.m.**

TENDER BOX NUMBER: **131**

TENDER FEE: **R200.00** Non-refundable tender fee payable to City of Cape Town (CCT) for a hard copy of the tender document. This fee is not applicable to website downloads of the tender document.

TENDERER	
NAME of Company/Close Corporation or Partnership / Joint Venture/ Consortium or Sole Proprietor /Individual	
TRADING AS (if different from above)	

NATURE OF TENDER OFFER (please indicate below)	
Main Offer (see clause 2.2.11.1)	
Alternative Offer (see clause 2.2.11.1)	

TENDER SERIAL NO.:
SIGNATURES OF CITY OFFICIALS AT TENDER OPENING
1
2
3

TABLE OF CONTENTS

VOLUME 1: THE TENDER
(1) GENERAL TENDER INFORMATION

TENDER ADVERTISED	**:**	**15 JUNE 2023**
SITE VISIT/CLARIFICATION MEETING	:	**09h00 on 29 June 2023** (Not compulsory, but strongly recommended) The meeting will be an online meeting via Skype Link: **https://meet.capetown.gov.za/jean.jonker/0GW9G87D**
VENUE FOR SITE VISIT/CLARIFICATION MEETING	:	Online/Virtual meeting via Skype for Business
TENDER BOX & ADDRESS	:	**Tender Box as per front cover** at the **Tender &Quotation Boxes Office**, 2nd Floor (Concourse Level), Civic Centre, 12 Hertzog Boulevard, Cape Town.
	:	The Tender Document (which includes the Form of Offer and Acceptance) completed in all respects, plus any additional supporting documents required, must be submitted in a sealed envelope with the name and address of the tenderer, the endorsement "**TENDER NO. 396G/2022/23: THE SUPPLY AND DELIVERY OF VARIOUS TRUCKS WITH AERIAL PLATFORMS**, the tender box No. and the closing date indicated on the envelope. The sealed envelope must be inserted into the appropriate official tender box before closing time. If the tender offer is too large to fit into the abovementioned box or the box is full, please enquire at the public counter (Tender Distribution Office) for alternative instructions. It remains the tenderer's responsibility to ensure that the tender is placed in either the original box or as alternatively instructed.
CCT TENDER REPRESENTATIVE		[Name: Jean Jonker Tel. No.: (021) 444 2045 Email: jean.jonker@capetown.gov.za

TENDERERS MUST NOTE THAT WHEREVER THIS DOCUMENT REFERS TO ANY PARTICULAR TRADE MARK, NAME, PATENT, DESIGN, TYPE, SPECIFIC ORIGIN OR PRODUCER, SUCH REFERENCE SHALL BE DEEMED TO BE ACCOMPANIED BY THE WORDS 'OR EQUIVALENT"

(2) CONDITIONS OF TENDER

2.1 General

2.1.1 Actions

2.1.1.1 The City of Cape Town (CCT) and each tenderer submitting a tender offer shall comply with these Conditions of Tender. In their dealings with each other, they shall discharge their duties and obligations as set out in these Conditions of Tender, timeously and with integrity, and behave equitably, honestly and transparently, comply with all legal obligations.

The parties agree that this tender, its evaluation and acceptance and any resulting contract shall also be subject to the Employer's Supply Chain Management Policy ('SCM Policy') that was applicable on the date the bid was advertised, save that if the Employer adopts a new SCM Policy which contemplates that any clause therein would apply to the contract emanating from this tender, such clause shall also be applicable to that contract. Please refer to this document contained on the Employer's website.

Abuse of the supply chain management system is not permitted and may result in the tender being rejected, cancellation of the contract, restriction of the supplier, and/or the exercise by the City of any other remedies available to it as described in the SCM Policy.

2.1.1.2 The CCT, the tenderer and their agents and employees involved in the tender process shall avoid conflicts of interest and where a conflict of interest is perceived or known, declare any such conflict of interest, indicating the nature of such conflict. Tenderers shall declare any potential conflict of interest in their tender submissions. Employees, agents and advisors of the CCT shall declare any conflict of interest to the CCT at the start of any deliberations relating to the procurement process or as soon as they become aware of such conflict, and abstain from any decisions where such conflict exists or recuse themselves from the procurement process, as appropriate.

2.1.1.3 The CCT shall not seek, and a tenderer shall not submit a tender, without having a firm intention and capacity to proceed with the contract.

2.1.2 Interpretation

2.1.2.1 The additional requirements contained in the returnable documents are part of these Conditions of Tender.

2.1.2.2 These Conditions of Tender and returnable schedules which are required for tender evaluation purposes, shall form part of the contract arising from the invitation to tender.

2.1.3 Communication during tender process

Verbal or any other form of communication, from the CCT, its employees, agents or advisors during site visits/clarification meetings or at any other time prior to the award of the Contract, will not be regarded as binding on the CCT, unless communicated by the CCT in writing to suppliers by its Director: Supply Chain Management or his nominee.

2.1.4 The CCT's right to accept or reject any tender offer

2.1.4.1 The CCT may accept or reject any tender offer and may cancel the tender process or reject all tender offers at any time before the formation of a contract. The CCT may, prior to the award of the tender, cancel a tender if:

(a) due to changed circumstances, there is no longer a need for the services, works or goods requested; or
(b) funds are no longer available to cover the total envisaged expenditure; or
(c) no acceptable tenders are received;
(d) there is a material irregularity in the tender process; or
(e) the parties are unable to negotiate market related pricing.

The CCT shall not accept or incur any liability to a tenderer for such cancellation or rejection, but will give written reasons for such action upon receiving a written request to do so.

2.1.5 Procurement procedures

2.1.5.1 General

Unless otherwise stated in the tender conditions, a contract will be concluded with the tenderer who scores the highest number of tender adjudication points.

The CCT intends to appoint two tenderers (the highest ranked tenderer ("the winner") and in addition one "alternative tenderer") per item for the allocation of work. If insufficient responsive bids are received, the CCT reserves the right to appoint fewer tenderers, or not to appoint any tenderers at all.

Suppliers, once appointed and subject to operational requirements, will be invited to deliver the goods or services on a "winner-takes-all" basis, whereby the order will always be offered and, if accepted, allocated to the highest ranked tenderer ("the winner"), and only if he refuses will the work be offered to the next highest ranked tenderer from the alternatve tenderers).

The contract period shall be for a period of **thirty-six (36) months** from the commencement date of the contract.

2.1.5.2 Proposal procedure using the two stage-system

A two-stage system will not be followed.

2.1.5.2.1 Tenderers shall submit in the first stage only technical proposals. The CCT shall invite all responsive tenderers to submit tender offers in the second stage, following the issuing of procurement documents.

2.1.5.2.2 The CCT shall evaluate tenders received during the second stage in terms of the method of evaluation stated in the tender conditions, and award the contract in terms of these Conditions of Tender.

2.1.5.3 Nomination of Standby

Standby Bidder means a bidder, identified at the time of awarding a bid, that will be considered for award should the contract be terminated for any reason whatsoever. In the event that a contract is terminated during the execution thereof, the CCT may consider the award of the contract, or non-award, to the standby bidder in terms of the procedures included its SCM Policy.

2.1.6 Objections, complaints, queries and disputes/ Appeals in terms of Section 62 of the Systems Act/ Access to court

2.1.6.1 Disputes, objections, complaints and queries

In terms of Regulations 49 and 50 of the Local Government: Municipal Finance Management Act, 56 of 2003 Municipal Supply Chain Management Regulations (Board Notice 868 of 2005):

a) Persons aggrieved by decisions or actions taken by the City of Cape Town in the implementation of its supply chain management system, may lodge within 14 days of the decision or action, a written objection or complaint or query or dispute against the decision or action.

2.1.6.2 Appeals

a) In terms of Section 62 of the Local Government: Municipal Systems Act, 32 of 2000 a person whose rights are affected by a decision taken by the City, may appeal against that decision by giving written notice of the appeal and reasons to the City Manager within 21 days of the date of the notification of the decision.

b) An appeal must contain the following:
   i. Must be in writing
   ii. It must set out the reasons for the appeal
   iii. It must state in which way the Appellant's rights were affected by the decision;
   iv. It must state the remedy sought; and
   v. It must be accompanied with a copy of the notification advising the person of the decision

c) The relevant City appeal authority must consider the consider the appeal and **may confirm, vary or revoke** the decision that has been appealed, but no such revocation of a decision may detract from any rights that may have accrued as a result of the decision.

2.1.6.3 Right to approach the courts and rights in terms of Promotion of Administrative Justice Act, 3 of 2000 and Promotion of Access to Information Act, 2 of 2000

The sub- clauses above do not influence any affected person's rights to approach the High Court at any time or its rights in terms of the Promotion of Administrative Justice Act (PAJA) and Promotion of Access to Information Act (PAIA).

2.1.6.4 All requests referring to sub clauses 2.1.6.1 and 2.1.6.2 must be submitted in writing to:

The City Manager - C/o the Manager: Legal Compliance Unit, Legal Services Department, Corporate Services Directorate

Via hand delivery at: 20th Floor, Tower Block, 12 Hertzog Boulevard, Cape Town 8001

Via post at: Private Bag X918, Cape Town, 8000

Via fax at: 021 400 5963 or 021 400 5830

Via email at: MSA. Appeals@capetown.gov.za

2.1.6.5 All requests referring to clause 2.1.6.3 ns must be submitted in writing to:

The City Manager - C/o the Manager: Access to Information Unit, Corporate Services Directorate

Via hand delivery at: 20th Floor, Tower Block, 12 Hertzog Boulevard, Cape Town 8001

Via post at: Private Bag X918, Cape Town, 8000

Via fax at: 086 202 9982

Via email at: Access2info.Act@capetown.gov.za

2.1.6.6 The minimum standards regarding accessing and 'processing' of any personal information belonging to another in terms of Protection of Personal Information Act, 2013 (POPIA).
The Employer, its employees, representatives and sub-contractors may, from time to time, Process the Contractor's and/or its employees', representatives' and/or sub-contractors' Personal Information, for purposes of, and/or relating to, the tender, this agreement, for research purposes, and/or as otherwise may be envisaged in the Employer's Privacy Notice and/or in relation to the Employer's Supply Chain Management Policy or as may be otherwise permitted by law. This includes the employers assurance provider and Appeal Authority.

2.1.7 City of Cape Town Supplier Database Registration
Tenderers are required to be registered on the CCT Supplier Database as a service provider. Tenderers must register as such upon being requested to do so in writing and within the period contained in such a request, failing which no orders can be raised or payments processed from the resulting contract. In the case of Joint Venture partnerships this requirement will apply individually to each party of the Joint Venture.

Tenderers who wish to register on the City of Cape Town's Supplier Database may collect registration forms from the Supplier Management Unit located within the Supplier Management / Registration Office, 2nd Floor (Concourse Level), Civic Centre, 12 Hertzog Boulevard, Cape Town (Tel 021 400 9242/3/4/5). Registration forms and related information are also available on the City of Cape Town's website www.capetown.gov.za (follow the Supply Chain Management link to Supplier registration).

It is each tenderer's responsibility to keep all the information on the CCT Supplier Database updated.

2.1.8 National Treasury Web Based Central Supplier Database (CSD) Registration
Tenderers are required to be registered on the National Treasury Web Based Central Supplier Database (CSD) as a service provider. Tenderers must register as such upon being requested to do so in writing and within the period contained in such a request, failing which no orders can be raised or payments processed from the resulting contract. In the case of Joint Venture partnerships this requirement will apply individually to each party of the Joint Venture.

Tenderers who wish to register on the National Treasury Web Based Central Supplier Database (CSD) may do so via the web address **https://secure.csd.gov.za**.

It is each tenderer's responsibility to keep all the information on the National Treasury Web Based Central Supplier Database (CSD) updated.

2.2 Tenderer's obligations

2.2.1 Eligibility Criteria

2.2.1.1 Tenderers are obligated to submit a tender offer that complies in all aspects to the conditions as detailed in this tender document. An 'acceptable tender must "COMPLY IN ALL' aspects with the tender conditions, specifications, pricing instructions and contract conditions.

2.2.1.1.1 Submit a tender offer
Only those tender submissions from which it can be established that a clear, irrevocable and unambiguous offer has been made to CCT, by whom the offer has been made and what the offer constitutes, will be declared responsive.

2.2.1.1.2 Compliance with requirements of CCT SCM Policy and procedures
Only those tenders that are compliant with the requirements below will be declared responsive:

a) A completed **Details of Tenderer** to be provided (applicable schedule to be completed);
b) A completed **Certificate of Authority for Partnerships/ Joint Ventures/ Consortiums** to be provided authorising the tender to be made and the signatory to sign the tender on the partnership /joint venture/consortium's (applicable schedule to be completed);
c) A copy of the partnership / joint venture / consortium agreement to be provided.
d) A completed **Declaration of Interest – State Employees** to be provided and which does not indicate any non-compliance with the legal requirements relating to state employees (applicable schedule to be completed);
e) A completed **Declaration – Conflict of Interest and Declaration of Bidders' past Supply Chain Management Practices** to be provided and which does not indicate any conflict or past practises that renders the tender non-responsive based on the conditions contained thereon (applicable schedules to be completed);
f) A completed **Certificate of Independent Bid Determination** to be provided and which does not indicate any non-compliance with the requirements of the schedule (applicable schedule to be completed);
g) The tenderer (including any of its directors or members), has not been restricted in terms of abuse of the Supply Chain Management Policy,
h) The tenderer's tax matters with SARS are in order, or the tenderer is a foreign supplier that is not required to be registered for tax compliance with SARS;
i) The tenderer is not an advisor or consultant contracted with the CCT whose prior or current obligations creates any conflict of interest or unfair advantage,
j) The tenderer is not a person, advisor, corporate entity or a director of such corporate entity, involved with the bid specification committee;
k) A completed **Authorisation for the Deduction of Outstanding Amounts Owed to the City of Cape Town** to be provided and which does not indicate any details that renders the tender non-responsive based on the conditions contained thereon (applicable schedules to be completed);
l) The tenderer (including any of its directors or members), has not been found guilty of contravening the Competition Act 89 of 1998, as amended from time to time;
m) The tenderer (including any of its directors or members), has not been found guilty on any other basis listed in the Supply Chain Management Policy.

2.2.1.1.3 Compulsory clarification meeting
Not Applicable

2.2.1.1.4 Minimum score for functionality
Not Applicable

2.2.1.1.7 Provision of samples
Not Applicable

2.2.1.1.8 Additional Criteria

2.2.1.1.8.1 The tenderer and the tenderers' sub contractors must be OEM (Original Equipment Manufacturer) accredited for aerial platform where applicable. Submit proof with tender submission, in the form of a letter confirming tenderer or the tenderer's subcontractor is accredited agent with the OEM (Original Equipment Manufacturer) for the aerial platform supplied.

2.2.1.1.8.2 Submit documentary proof with tender submission, that the tenderer is registered with the Provincial Government as a motor dealer or motor manufacturer.

2.2.1.1.8.3 Submit proof with tender submission, that the tenderer or its sub-contractor is a registered body builder in terms of the National Road Traffic Act 93 of 1996. A copy of such registration certificate must be provided as proof.

2.2.1.1.8.4 The various technical details and drawings must be provided as stated in the specifications as per items T2.1, T2.2, T2.3 and T2.4

2.2.1.1.8.5 Provide proof with with tender submission a letter from the OEM (Original Equipment Manufacturer) confirming tenderer is an accredited agent with the OEM for the truck.

2.2.2 Cost of tendering

The CCT will not be liable for any costs incurred in the preparation and submission of a tender offer, including the costs of any testing necessary to demonstrate that aspects of the offer complies with requirements.

2.2.3 Check documents

The documents issued by the CCT for the purpose of a tender offer are listed in the index of this tender document.

Before submission of any tender, the tenderer should check the number of pages, and if any are found to be missing or duplicated, or the figures or writing is indistinct, or if the Price Schedule contains any obvious errors, the tenderer must apply to the CCT at once to have the same rectified.

2.2.4 Confidentiality and copyright of documents

Treat as confidential all matters arising in connection with the tender. Use and copy the documents issued by the CCT only for the purpose of preparing and submitting a tender offer in response to the invitation.

2.2.5 Reference documents

Obtain, as necessary for submitting a tender offer, copies of the latest versions of standards, specifications, Conditions of Contract and other publications, which are not attached but which are incorporated into the tender documents by reference.

2.2.6 Acknowledge and comply with notices

Acknowledge receipt of notices to the tender documents, which the CCT may issue, fully comply with all instructions issued in the notices, and if necessary, apply for an extension of the closing time stated on the front page of the tender document, in order to take the notices into account. Notwithstanding any requests for confirmation of receipt of notices issued, the tenderer shall be deemed to have received such notices if the CCT can show proof of transmission thereof via electronic mail, facsimile or registered post.

2.2.7 Clarification meeting

Attend, where required, a clarification meeting at which tenderers may familiarise themselves with aspects of the proposed work, services or supply and pose questions. Details of the meeting(s) are stated in the General Tender Information.

Tenderers should be represented at the site visit/clarification meeting by a person who is suitably qualified and experienced to comprehend the implications of the work involved.

2.2.8 Seek clarification

Request clarification of the tender documents, if necessary, by notifying the CCT at least one week before the closing time stated in the General Tender Information, where possible.

2.2.9 Pricing the tender offer

2.2.9.1 Comply with all pricing instructions as stated on the Price Schedule.

2.2.10 Alterations to documents

Do not make any alterations or additions to the tender documents, except to comply with instructions issued by the CCT in writing, or necessary to correct errors made by the tenderer. All signatories to the tender offer shall initial all such alterations.

2.2.11 Alternative tender offers

2.2.11.1 Unless otherwise stated in the tender conditions submit alternative tender offers only if a main tender offer, strictly in accordance with all the requirements of the tender documents, is also submitted.

If a tenderer wishes to submit an alternative tender offer, he shall do so as a separate offer on a complete set of tender documents. The alternative tender offer shall be submitted in a separate sealed envelope clearly marked “Alternative Tender” in order to distinguish it from the main tender offer.

Only the alternative of the highest ranked acceptable main tender offer (that is, submitted by the same tenderer) will be considered, and if appropriate, recommended for award.

Alternative tender offers of any but the highest ranked main tender offer will not be considered.

An alternative of the highest ranked acceptable main tender offer that is priced higher than the main tender offer may be recommended for award, provided that the ranking of the alternative tender offer is higher than the ranking of the next ranked acceptable main tender offer.

The CCT will not be bound to consider alternative tenders and shall have sole discretion in this regard.

In the event that the alternative is accepted, the tenderer warrants that the alternative offer complies in all respects with the CCT’s standards and requirements.

2.2.11.2 Accept that an alternative tender offer may be based only on the criteria stated in the tender conditions or criteria otherwise acceptable to the CCT.

2.2.12 Submitting a tender offer

2.2.12.1 Submit one tender offer only on the original tender documents as issued by the CCT, either as a single tendering entity or as a member in a joint venture to provide the whole of the works, services or supply identified in the contract conditions and described in the specifications. Only those tenders submitted on the tender documents as issued by the CCT together with all Returnable Schedules duly completed and signed will be declared responsive.

2.2.12.2 Return the entire document to the CCT after completing it in its entirety, either electronically (if they were issued in electronic format) or by writing legibly in non-erasable ink.

2.2.12.3 Submit the parts of the tender offer communicated on paper as an original with an English translation for any part of the tender submission not made in English.

1 (One) copy(ies) of the following elements of the bid submission must be submitted separately bound in the same envelope where possible:

Part	Heading
5	Pricing Schedules
6	Supporting Schedules
	All other attachments submitted by bidder

2.2.12.4 Sign the original tender offer where required in terms of the tender conditions. The tender shall be signed by a person duly authorised to do so. Tenders submitted by joint ventures of two or more firms shall be accompanied by the document of formation of the joint venture or any other document signed by all parties, in which is defined precisely the conditions under which the joint venture will function, its period of duration, the persons authorised to represent and obligate it, the participation of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. Signatories for tenderers proposing to contract as joint ventures shall state which of the signatories is the lead partner.

2.2.12.5 Where a two-envelope system is required in terms of the tender conditions, place and seal the returnable documents listed in the tender conditions in an envelope marked “financial proposal” and place the remaining returnable documents in an envelope marked “technical proposal”. Each envelope shall state on the

outside the CCT's address and identification details stated in the General Tender Information, as well as the tenderer's name and contact address.

2.2.12.6 Seal the original tender offer and copy packages together in an outer package that states on the outside only the CCT's address and identification details as stated in the General Tender Information. . If it is not possible to submit the original tender and the required copies (see 2.2.12.3) in a single envelope, then the tenderer must seal the original and each copy of the tender offer as separate packages marking the packages as "ORIGINAL" and "COPY" in addition to the aforementioned tender submission details.

2.2.12.7 Accept that the CCT shall not assume any responsibility for the misplacement or premature opening of the tender offer if the outer package is not sealed and marked as stated.

2.2.12.8 Accept that tender offers submitted by facsimile or e-mail will be rejected by the CCT, unless stated otherwise in the tender conditions.

2.2.12.9 By signing the offer part of the Form of Offer (**Section 2, Part A**) the tenderer warrants that all information provided in the tender submission is true and correct.

2.2.12.10 Tenders must be properly received and deposited in the designated tender box (as detailed on the front page of this tender document) on or before the closing date and before the closing time, in the relevant tender box at the Tender & Quotation Boxes Office situated on the 2nd floor, Concourse Level, Civic Centre, 12 Hertzog Boulevard, Cape Town. If the tender submission is too large to fit in the allocated box, please enquire at the public counter for assistance.

2.2.12.12 The tenderer must record and reference all information submitted contained in other documents for example cover letters, brochures, catalogues, etc. in the returnable schedule titled **List of Other Documents Attached by Tenderer**.

2.2.13 Information and data to be completed in all respects

Accept that tender offers, which do not provide all the data or information requested completely and in the form required, may be regarded by the CCT as non-responsive.

2.2.14 Closing time

2.2.14.1 Ensure that the CCT receives the tender offer at the address specified in the General Tender Information prior to the closing time stated on the front page of the tender document.

2.2.14.2 Accept that, if the CCT extends the closing time stated on the front page of the tender document for any reason, the requirements of these Conditions of Tender apply equally to the extended deadline.

2.2.14.3 Accept that, the CCT shall not consider tenders that are received after the closing date and time for such a tender (late tenders).

2.2.15 Tender offer validity and withdrawal of tenders

2.2.15.1 Warrants that the tender offer(s) remains valid, irrevocable and open for acceptance by the CCT at any time for a period of 120 days after the closing date stated on the front page of the tender document.

2.2.15.2 Notwithstanding the period stated above, bids shall remain valid for acceptance for a period of twelve (12) months after the expiry of the original validity period, unless the City is notified in writing of anything to the contrary by the bidder. The validity of bids may be further extended by a period of not more than six months subject to mutual agreement and administrative processes and upon approval by the City Manager.

2.2.15.3 A tenderer may request in writing, after the closing date, that the tender offer be withdrawn. Such withdrawal will be permitted or refused at the sole discretion of the CCT after consideration of the reasons for the withdrawal, which shall be fully set out by the tenderer in such written request for withdrawal. Should the tender offer be withdrawn in contravention hereof, the tenderer agrees that:

a) it shall be liable to the CCT for any additional expense incurred or losses suffered by the CCT in having either to accept another tender or, if new tenders have to be invited, the additional expenses incurred or losses suffered by the invitation of new tenders and the subsequent acceptance of any other tender;

b) the CCT shall also have the right to recover such additional expenses or losses by set-off against monies which may be due or become due to the tenderer under this or any other tender or contract or

against any guarantee or deposit that may have been furnished by the tenderer or on its behalf for the due fulfilment of this or any other tender or contract. Pending the ascertainment of the amount of such additional expenses or losses, the CCT shall be entitled to retain such monies, guarantee or deposit as security for any such expenses or loss.

2.2.16 Clarification of tender offer, or additional information, after submission

Provide clarification of a tender offer, or additional information, in response to a written request to do so from the CCT during the evaluation of tender offers within the time period stated in such request. No change in the competitive position of tenderers or substance of the tender offer is sought, offered, or permitted.

Note: This clause does not preclude the negotiation of the final terms of the contract with a preferred tenderer following a competitive selection process, should the CCT elect to do so.

Failure, or refusal, to provide such clarification or additional information within the time for submission stated in the CCT's written request may render the tender non-responsive.

2.2.17 Provide other material

2.2.17.1 Provide, on request by the CCT, any other material that has a bearing on the tender offer, the tenderer's commercial position (including joint venture agreements), preferencing arrangements, or samples of materials, considered necessary by the CCT for the purpose of the evaluation of the tender. Should the tenderer not provide the material, or a satisfactory reason as to why it cannot be provided, by the time for submission stated in the CCT's request, the CCT may regard the tender offer as non-responsive.

2.2.17.2 Provide, on written request by the CCT, where the transaction value inclusive of VAT **exceeds R 10 million**:

a) audited annual financial statement for the past 3 years, or for the period since establishment if established during the past 3 years, if required by law to prepare annual financial statements for auditing;
b) a certificate signed by the tenderer certifying that the tenderer 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;
c) particulars of any contracts awarded to the tenderer by an organ of state during the past five years, including particulars of any material non-compliance or dispute concerning the execution of such contract;
d) a statement indicating whether any portion of the goods or services are expected to be sourced from outside the Republic, and, if so, what portion and whether any portion of payment from the municipality or municipal entity is expected to be transferred out of the Republic.

Each party to a Consortium/Joint Venture shall submit separate certificates/statements in the above regard.

2.2.17.3 Tenderers undertake to fully cooperate with the CCT's external service provider appointed to perform a due diligence review and risk assessment upon receipt of such written instruction from the CCT.

2.2.18 Samples, Inspections, tests and analysis

Provide access during working hours to premises for inspections, tests and analysis as provided for in the tender conditions or specifications.

If the **Specification** requires the tenderer to provide samples, these shall be provided strictly in accordance with the instructions set out in the Specification.

If such samples are not submitted as required in the bid documents or within any further time stipulated by the CCT in writing, then the bid concerned may be declared non-responsive.

The samples provided by all successful bidders will be retained by the CCT for the duration of any subsequent contract. Bidders are to note that samples are requested for testing purposes therefore samples submitted to the CCT may not in all instances be returned in the same state of supply and in other instances may not be returned at all. Unsuccessful bidders will be advised by the Project Manager or dedicated CCT Official to collect their samples, save in the aforementioned instances where the samples would not be returned.

2.2.19 Certificates

The tenderer must provide the CCT with all certificates as stated below:

2.2.19.1. Broad-Based Black Economic Empowerment Status Level Documentation

In order to qualify for preference points for HDI and/or Specific Goals, it is the responsibility of the tenderer to submit documentary proof, as either certificates, sworn affidavits or any other requirement prescribed in terms of the B-BBEE Act or any other legislation relevant for the points claimed for that specific goal.

Tenderers are further referred to the content of the Preference Schedule for the full terms and conditions applicable to the awarding of preference points.

2.2.19.2 Evidence of tax compliance

Tenderers shall be registered with the South African Revenue Service (SARS) and their tax affairs must be in order and they must be tax compliant subject to the requirements of clause 2.2.1.1.2.h. In this regard, it is the responsibility of the Tenderer to submit evidence in the form of a valid Tax Clearance Certificate issued by SARS to the CCT at the Supplier Management Unit located within the Supplier Management / Registration Office, 2nd Floor (Concourse Level), Civic Centre, 12 Hertzog Boulevard, Cape Town (Tel 021 400 9242/3/4/5), or included with this tender. The tenderer must also provide its Tax Compliance Status PIN number on the **Details of Tenderer** pages of the tender submission.

Each party to a Consortium/Joint Venture shall submit a separate Tax Clearance Certificate.

Before making an award the City must verify the bidder's tax compliance status. Where the recommended bidder is not tax compliant, the bidder should be notified of the non-compliant status and be requested to submit to the City, within 7 working days, written proof from SARS that they have made arrangement to meet their outstanding tax obligations. The proof of tax compliance submitted by the bidder must be verified by the City via CSD or e-Filing. The City should reject a bid submitted by the bidder if such bidder fails to provide proof of tax compliance within the timeframe stated herein.

Only foreign suppliers who have answered "NO" to all the questions contained in the Questionnaire to Bidding Foreign Suppliers section on the **Details of Tenderer** pages of the tender submission, are not required to register for a tax compliance status with SARS.

2.2.20 Compliance with Occupational Health and Safety Act, 85 of 1993

Tenderers are to note the requirements of the Occupational Health and Safety Act, 85 of 1993. The Tenderer shall be deemed to have read and fully understood the requirements of the above Act and Regulations and to have allowed for all costs in compliance therewith.

In this regard the Tenderer shall submit **upon written request to do so by the CCT**, a Health and Safety Plan in sufficient detail to demonstrate the necessary competencies and resources to deliver the goods or services all in accordance with the Act, Regulations and Health and Safety Specification.

2.2.21 Claims arising from submission of tender

The tenderer warrants that it has:

a) inspected the Specifications and read and fully understood the Conditions of Contract.
b) read and fully understood the whole text of the Specifications and Price Schedule and thoroughly acquainted himself with the nature of the goods or services proposed and generally of all matters which may influence the Contract.
c) visited the site(s) where delivery of the proposed goods will take place, carefully examined existing conditions, the means of access to the site(s), the conditions under which the delivery is to be made, and acquainted himself with any limitations or restrictions that may be imposed by the Municipal or other Authorities in regard to access and transport of materials, plant and equipment to and from the site(s) and made the necessary provisions for any additional costs involved thereby.
d) requested the CCT to clarify the actual requirements of anything in the Specifications and Price Schedule, the exact meaning or interpretation of which is not clearly intelligible to the Tenderer.
e) received any notices to the tender documents which have been issued in accordance with the CCT's Supply Chain Management Policy.

The CCT will therefore not be liable for the payment of any extra costs or claims arising from the submission of the tender.

2.3 The CCT's undertakings

2.3.1 Respond to requests from the tenderer

2.3.1.1 Unless otherwise stated in the Tender Conditions, respond to a request for clarification received up to one week (where possible) before the tender closing time stated on the front page of the tender document.

2.3.1.2 The CCT's representative for the purpose of this tender is stated on the General Tender Information page.

2.3.2 Issue Notices

If necessary, issue addenda in writing that may amend or amplify the tender documents to each tenderer during the period from the date the tender documents are available until one week before the tender closing time stated in the Tender Data. The Employer reserves its rights to issue addenda less than one week before the tender closing time in exceptional circumstances If, as a result a tenderer applies for an extension to the closing time stated on the front page of the tender document, the CCT may grant such extension and, shall then notify all tenderers who drew documents.

Notwithstanding any requests for confirmation of receipt of notices issued, the tenderer shall be deemed to have received such notices if the CCT can show proof of transmission thereof via electronic mail, facsimile or registered post.

2.3.3 Opening of tender submissions

2.3.3.1 Unless the two-envelope system is to be followed, open tender submissions in the presence of tenderers' agents who choose to attend at the time and place stated in the tender conditions.

Tenders will be opened immediately after the closing time for receipt of tenders as stated on the front page of the tender document, or as stated in any Notice extending the closing date and at the closing venue as stated in the General Tender Information.

2.3.3.2 Announce at the meeting held immediately after the opening of tender submissions, at the closing venue as stated in the General Tender Information, the name of each tenderer whose tender offer is opened and, where possible, the prices indicated.

2.3.3.3 Make available a record of the details announced at the tender opening meeting on the CCT's website (http://www.capetown.gov.za/en/SupplyChainManagement/Pages/default.aspx.)

2.3.4 Two-envelope system

2.3.4.1 Where stated in the tender conditions that a two-envelope system is to be followed, open only the technical proposal of tenders in the presence of tenderers' agents who choose to attend at the time and place stated in the tender conditions and announce the name of each tenderer whose technical proposal is opened.

2.3.4.2 Evaluate the quality of the technical proposals offered by tenderers, then advise tenderers who have submitted responsive technical proposals of the time and place when the financial proposals will be opened. Open only the financial proposals of tenderers, who have submitted responsive technical proposals in accordance with the requirements as stated in the tender conditions, and announce the total price and any preferences claimed. Return unopened financial proposals to tenderers whose technical proposals were non responsive.

2.3.5 Non-disclosure

Not disclose to tenderers, or to any other person not officially concerned with such processes, information relating to the evaluation and comparison of tender offers and recommendations for the award of a contract, until after the award of the contract to the successful tenderer.

2.3.6 Grounds for rejection and disqualification

Determine whether there has been any effort by a tenderer to influence the processing of tender offers and instantly disqualify a tenderer (and his tender offer) if it is established that he engaged in corrupt or fraudulent practices.

2.3.7 Test for responsiveness

2.3.7.1 Appoint a Bid Evaluation Committee and determine after opening whether each tender offer properly received:

a) complies with the requirements of these Conditions of Tender,
b) has been properly and fully completed and signed, and
c) is responsive to the other requirements of the tender documents.

2.3.7.2 A responsive tender is one that conforms to all the terms, conditions, and specifications of the tender documents without material deviation or qualification. A material deviation or qualification is one which, in the CCT's opinion, would:

a) detrimentally affect the scope, quality, or performance of the goods, services or supply identified in the Specifications,
b) significantly change the CCT's or the tenderer's risks and responsibilities under the contract, or
c) affect the competitive position of other tenderers presenting responsive tenders, if it were to be rectified.

Reject a non-responsive tender offer, and not allow it to be subsequently made responsive by correction or withdrawal of any material deviation or qualification.

The CCT reserves the right to accept a tender offer which does not, in the CCT's opinion, materially and/or substantially deviate from the terms, conditions, and specifications of the tender documents.

2.3.8 Arithmetical errors, omissions and discrepancies

2.3.8.1 Check the responsive tenders for:

a) the gross misplacement of the decimal point in any unit rate;
b) omissions made in completing the Price Schedule; or
c) arithmetic errors in:
    i) line item totals resulting from the product of a unit rate and a quantity in the Price Schedule; or
    ii) the summation of the prices; or
    iii) calculation of individual rates.

2.3.8.2 The CCT must correct the arithmetical errors in the following manner:

a) Where there is a discrepancy between the amounts in words and amounts in figures, the amount in words shall govern.
b) If pricing schedules apply and there is an error in the line item total resulting from the product of the unit rate and the quantity, the line item total shall govern and the rate shall be corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line item total as tendered shall govern, and the unit rate shall be corrected.
c) Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the tenderer's addition of prices, the total of the prices shall govern and the tenderer will be asked to revise selected item prices (and their rates if Price Schedules apply) to achieve the tendered total of the prices.

Consider the rejection of a tender offer if the tenderer does not correct or accept the correction of the arithmetical error in the manner described above.

2.3.8.3 In the event of tendered rates or lump sums being declared by the CCT to be unacceptable to it because they are not priced, either excessively low or high, or not in proper balance with other rates or lump sums, the tenderer may be required to produce evidence and advance arguments in support of the tendered rates or lump sums objected to. If, after submission of such evidence and any further evidence requested, the CCT is still not satisfied with the tendered rates or lump sums objected to, it may request the tenderer to amend these rates and lump sums along the lines indicated by it.

The tenderer will then have the option to alter and/or amend the rates and lump sums objected to and such other related amounts as are agreed on by the CCT, but this shall be done without altering the tender offer in

accordance with this clause.

Should the tenderer fail to amend his tender in a manner acceptable to and within the time stated by the CCT, the CCT may declare the tender as non-responsive.

2.3.9 Clarification of a tender offer

The CCT may, after the closing date, request additional information or clarification from tenderers, in writing on any matter affecting the evaluation of the tender offer or that could give rise to ambiguity in a contract arising from the tender offer, which written request and related response shall not change or affect their competitive position or the substance of their offer. Such request may only be made in writing by the Director: Supply Chain Management using any means as appropriate.

2.3.10 Evaluation of tender offers

2.3.10.1 General

2.3.10.1.1 Reduce each responsive tender offer to a comparative price and evaluate them using the tender evaluation methods and associated evaluation criteria and weightings that are specified in the tender conditions.

2.3.10.1.2 For evaluation purposes only, the effects of the relevant contract price adjustment methods will be considered in the determination of comparative prices as follows:

a. If the selected method is based on bidders supplying rates or percentages for outer years, comparative prices would be determined over the entire contract period based on such rates or percentages.
b. If the selected method is based on a formula, indices, coefficients, etc. that is the same for all bidders during the contract period, comparative prices would be the prices as tendered for year one.
c. If the selected method is based on a formula, indices, coefficients, etc. that varies between bidders, comparative prices would be determined over the entire contract period based on published indices relevant during the 12 months prior to the closing date of tenders.
d. If the selected method includes an imported content requiring rate of exchange variation, comparative prices would be determined based on the exchange rates tendered for the prices as tendered for year one. The rand equivalent of the applicable currency 14 days prior to the closing date of tender will be used (the CCT will check all quoted rates against those supplied by its own bank).
e. If the selected method is based on suppliers' price lists, comparative prices would be the prices as tendered for year one.
f. If the selected method is based on suppliers' price lists and / or rate of exchange, comparative prices would be determined as tendered for year one whilst taking into account the tendered percentage subject to rate of exchange (see sub clause (d) for details on the calculation of the rate of exchange).

2.3.10.1.3 Where the scoring of functionality forms part of a bid process, each member of the Bid Evaluation Committee must individually score functionality. The individual scores must then be interrogated and calibrated if required where there are significant discrepancies. The individual scores must then be added together and averaged to determine the final score.

2.3.10.2 Decimal places

Score financial offers, preferences and functionality, as relevant, to two decimal places.

2.3.10.3 Scoring of tenders (price and preference)

2.3.10.3.1 Points for price will be allocated in accordance with the formula set out in this clause based on the price per item / rates as set out in the **Price Schedule (Part 5)**:

- Evaluating on the total cost of main item with its sub item. (award per item)

2.3.10.3.2 Points for preference will be allocated in accordance with the provisions of **Preference Schedule** and the table in this clause.

2.3.10.3.3 The terms and conditions of **Preference Schedule** as it relates to preference shall apply in all respects to the tender evaluation process and any subsequent contract.

2.3.10.3.4 Applicable formula:

The 80/20 price/preference points system will be applied to the evaluation of responsive tenders up to and including a Rand value of R50'000'000 (all applicable taxes included), whereby the order(s) will be placed with the tenderer(s) scoring the highest total number of adjudication points.
Price shall be scored as follows:

$$Ps = 80 \times \left(1 - \frac{Pt - Pmin}{Pmin}\right)$$

Where: Ps is the number of points scored for price;
Pt is the price of the tender under consideration;
Pmin is the price of the lowest responsive tender.

Preference points shall be based on the Specific Goal as per below:

Table B1: Awards UP TO R100 mil (VAT Inclusive)

#	Specific goals allocated points	Preference Points (80/20) *Equal/ below R50 mil*	Preference Points (90/10) *Above R50 mil*	Evidence
	Persons, or categories of persons, historically disadvantaged- (HDI) by unfair dis crimination on the basis of			
1	***Gender are women (ownership)**** *More than 50% women ownership = 5/ 2.5 points* *Less than 50% women ownership = 2.5/ 1.25 points* *0% women ownership = 0 points*	5	2.5	• Company Registration Certification • Identification Documentation • CSD report
2	***Race are black persons (ownership)**** *More than 50% black ownership = 5/ 2.5 points* *Less than 50% black ownership = 2.5/ 1.25 points* *0% black ownership = 0 points*	5	2.5	• Proof of B-BBEE certificate; • Company Registration Certification • Identification Documentation. • CSD report
3	***Disability are disabled persons (ownership)**** *WHO disability guideline* *1-100% ownership = 5/ 2.5 points* *0% ownership = 0 points*	5	2.5	• Proof of disability • Company Registration Certification • Identification Documentation
	Reconstruction and Development Programme (RDP) as published in Government Gazette			•
4	***Promotion of Micro and Small Enterprises*** *Micro with a turnover up to R20million and Small with a turnover up to R80 million as per*	5	2.5	• Proof of B-BBEE status level of contributor;

	National Small Enterprise Act, 1996 (Act No.102 of 1996 *SME partnership, sub-contracting, joint venture or consortiums*			• South African owned enterprises; • Financial Statement to determine annual turnover
	Total points	20	10	

**Ownership: main tendering entity*

2.3.10.5 Risk Analysis

Notwithstanding compliance with regard to any requirements of the tender, the CCT will perform a risk analysis in respect of the following:

a) reasonableness of the financial offer
b) reasonableness of unit rates and prices
c) the tenderer's ability to fulfil its obligations in terms of the tender document, that is, that the tenderer can demonstrate that he/she possesses the necessary professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, capacity, experience, reputation, personnel to perform the contract, etc.; the CCT reserves the right to consider a tenderer's existing contracts with the CCT in this regard
d) any other matter relating to the submitted bid, the tendering entity, matters of compliance, verification of submitted information and documents, etc.

The conclusions drawn from this risk analysis will be used by the CCT in determining the acceptability of the tender offer.

No tenderer will be recommended for an award unless the tenderer has demonstrated to the satisfaction of the CCT that he/she has the resources and skills required.

2.3.11 Negotiations with preferred tenderers

The CCT may negotiate the final terms of a contract with tenderers identified through a competitive tendering process as preferred tenderers provided that such negotiation:

a) does not allow any preferred tenderer a second or unfair opportunity;
b) is not to the detriment of any other tenderer; and
c) does not lead to a higher price than the tender as submitted.

If negotiations fail to result in acceptable contract terms, the City Manager (or his delegated authority) may terminate the negotiations and cancel the tender, or invite the next ranked tenderer for negotiations. The original preferred tenderer should be informed of the reasons for termination of the negotiations. If the decision is to invite the next highest ranked tenderer for negotiations, the failed earlier negotiations may not be reopened by the CCT.

Minutes of any such negotiations shall be kept for record purposes.

The provisions of this clause will be equally applicable to any invitation to negotiate with any other tenderers.

In terms of the City's SCM Policy, tenders must be cancelled in the event that negotiations fail to achieve a market related price with any of the three highest scoring tenderers.

2.3.12 Acceptance of tender offer

Notwithstanding any other provisions contained in the tender document, the CCT reserves the right to:

2.3.12.1 Accept a tender offer(s) which does not, in the CCT's opinion, materially and/or substantially deviate from the terms, conditions, and specifications of the tender document.

2.3.12.2 Accept the whole tender or part of a tender or any item or part of any item or items from multiple manufacturers, or to accept more than one tender (in the event of a number of items being offered), and the CCT is not obliged to accept the lowest or any tender.

2.3.12.3 Accept the tender offer(s), if in the opinion of the CCT, it does not present any material risk and only if the tenderer(s)::

a) is not under restrictions, has any principals who are under restrictions, or is not currently a supplier to whom notice has been served for abuse of the supply chain management system, preventing participation in the employer's procurement,
b) can, as necessary and in relation to the proposed contract, demonstrate that he or she possesses the professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, experience and reputation, expertise and the personnel, to perform the contract,
c) has the legal capacity to enter into the contract,

d) is not insolvent, in receivership, under Business Rescue as provided for in chapter 6 of the Companies Act, 2008, bankrupt or being wound up, has his affairs administered by a court or a judicial officer, has suspended his business activities, or is subject to legal proceedings in respect of any of the foregoing,complies with the legal requirements, if any, stated in the tender data, and
e) is able, in the opinion of the employer, to perform the contract free of conflicts of interest.

If an award cannot be made in terms of anything contained herein, the Employer reserves the right to consider the next ranked tenderer(s).

2.3.12.4 Not to make an award, or revoke an award already made, where the implementation of the contract may result in reputational risk or harm to the City as a result of (inter alia):

a) reports of poor governance and/or unethical behaviour;
b) association with known family of notorious individuals;
c) poor performance issues, known to the City;
d) negative social media reports; and
e) adverse assurance (e.g. due diligence) report outcomes.

2.3.12.5 The CCT reserves the right to nominate an standby bidder at the time when an award is made and in the event that a contract is terminated during the execution thereof, the CCT may consider the award of the contract, or non-award, to the standby bidder in terms of the procedures included its SCM Policy.

2.3.13 Prepare contract documents

2.3.13.1 If necessary, revise documents that shall form part of the contract and that were issued by the CCT as part of the tender documents to take account of:

a) notices issued during the tender period,
b) inclusion of some of the returnable documents, and
c) other revisions agreed between the CCT and the successful tenderer.

2.3.13.2 Complete the schedule of deviations attached to the form of offer and acceptance, if any.

2.3.14 Notice to successful and unsuccessful tenderers

2.3.14.1 Before accepting the tender of the successful tenderer the CCT shall notify the successful tenderer in writing of the decision of the CCT's Bid Adjudication Committee to award the tender to the successful tenderer. No rights shall accrue to the successful tenderer in terms of this notice

2.3.14.2 The CCT shall, at the same time as notifying the successful tenderer of the Bid Adjudication Committee's decision to award the tender to the successful tenderer, also give written notice to the other tenderers informing them that they have been unsuccessful.

2.3.15 Provide written reasons for actions taken

Provide upon request written reasons to tenderers for any action that is taken in applying these Conditions of Tender, but withhold information which is not in the public interest to be divulged, which is considered to prejudice the legitimate commercial interests of tenderers or might prejudice fair competition between tenderers.

TENDER NO: 396G/2022/23

TENDER DESCRIPTION: THE SUPPLY AND DELIVERY OF VARIOUS TRUCKS WITH AERIAL PLATFORMS

CONTRACT PERIOD: NOT EXCEEDING 36 MONTHS FROM THE DATE OF COMMENCEMENT OF THE CONTRACT

VOLUME 2: RETURNABLE DOCUMENTS

TENDERER	
NAME of Company/Close Corporation or Partnership / Joint Venture/ Consortium or Sole Proprietor /Individual	
TRADING AS (if different from above)	

NATURE OF TENDER OFFER (please indicate below)	
Main Offer (see clause 2.2.11.1)	
Alternative Offer (see clause 2.2.11.1)	

VOLUME 2: RETURNABLE DOCUMENTS
(3) DETAILS OF TENDERER

1.1 Type of Entity (Please tick one box)

☐ Individual / Sole Proprietor ☐ Close Corporation ☐ Company

☐ Partnership or Joint Venture or Consortium ☐ Trust ☐ Other: ……..……..……..……

1.2 Required Details (Please provide applicable details in full):

Name of Company / Close Corporation or Partnership / Joint Venture / Consortium or Individual /Sole Proprietor	
Trading as (if different from above)	
Company / Close Corporation registration number (if applicable)	
Postal address	Postal Code _____
Physical address **(Chosen domicilium citandi et executandi)**	Postal Code _____
Contact details of the person duly authorised to represent the tenderer	Name: Mr/Ms _____ (Name & Surname) Telephone:(____) _____ Fax:(____) _____ Cellular Telephone:_____ E-mail address:_____
Income tax number	
VAT registration number	
SARS Tax Compliance Status PIN	
City of Cape Town Supplier Database Registration Number (See Conditions of Tender)	
National Treasury Central Supplier Database registration number (See Conditions of Tender)	

Is tenderer the accredited representative in South Africa for the Goods / Services / Works offered?	☐Yes ☐No If yes, enclose proof
Is tenderer a foreign based supplier for the Goods / Services / Works offered?	☐Yes ☐No If yes, answer the Questionnaire to Bidding Foreign Suppliers (below)
Questionnaire to Bidding Foreign Suppliers	a) Is the tenderer a resident of the Republic of South Africa or an entity registered in South Africa? ☐Yes ☐No
	b) Does the tenderer have a permanent establishment in the Republic of South Africa? ☐Yes ☐No
	c) Does the tenderer have any source of income in the Republic of South Africa? ☐Yes ☐No
	d) Is the tenderer liable in the Republic of South Africa for any form of taxation? ☐Yes ☐No
Other Required registration numbers	

(4) FORM OF OFFER AND ACCEPTANCE

TENDER 396G/2022/23 THE SUPPLY AND DELIVERY OF VARIOUS TRUCKS WITH AERIAL PLATFORMS

OFFER: (TO BE FILLED IN BY TENDERER):

Required Details (Please provide applicable details in full):

Name of Tendering Entity* ("the tenderer")	
Trading as (if different from above)	

AND WHO IS represented herein by: (full names of signatory)

_____

duly authorised to act on behalf of the tenderer in his capacity as: (title/ designation)

_____

HEREBY AGREES THAT by signing the *Form of Offer and Acceptance,* the tenderer:

1. confirms that it has examined the documents listed in the Index (including Schedules and Annexures) and has accepted all the Conditions of Tender;

2. confirms that it has received and incorporated any and all notices issued to tenderers issued by the CCT;

3. confirms that it has satisfied itself as to the correctness and validity of the tender offer; that the price(s) and rate(s) offered cover all the goods and/or services specified in the tender documents; that the price(s) and rate(s) cover all its obligations and accepts that any mistakes regarding price(s), rate(s) and calculations will be at its own risk;

4. offers to supply all or any of the goods and/or render all or any of the services described in the tender document to the CCT in accordance with the:
   4.1 terms and conditions stipulated in this tender document;
   4.2 specifications stipulated in this tender document; and
   4.3 at the prices as set out in the **Price Schedule**.

5. accepts full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on it in terms of the Contract.

_____
Signature(s)

INITIALS OF CITY OFFICIALS		
1	**2**	**3**

_____
Print name(s):
On behalf of the tenderer (duly authorised)

_____
Date

FORM OF OFFER AND ACCEPTANCE (continued)

TENDER 396G/2022/23 THE SUPPLY AND DELIVERY OF VARIOUS TRUCKS WITH AERIAL PLATFORMS

ACCEPTANCE (TO BE FILLED IN BY THE CITY OF CAPE TOWN)

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 supplier the amount due in accordance with the conditions of contract. 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:

(7) & (8): Special and General Conditions of Tender
(5): Price schedule
(13): Specifications

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

Deviations from and amendments to the documents listed in the tender data and any addenda thereto as listed in the returnable schedules as well as any changes to the terms of the offer agreed by the tenderer and the employer during this process of offer and acceptance, are contained in the schedule of deviations attached to and forming part of this form of offer and acceptance. No amendments to or deviations from said documents are valid unless contained in this schedule.

The tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the employer to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documents to be provided in terms of the conditions of contract identified in the special contract conditions. 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 parties have signed the table below and confirms receipt from the employer of one fully completed original copy of this agreement, including the schedule of deviations (if any). The tenderer (now supplier**)** shall within five working days of the agreement coming into effect notify the employer in writing of any reason why he cannot accept the contents of this agreement as a complete and accurate memorandum thereof, failing which the agreement presented to the contractor shall constitute the binding contract between the parties.

The Parties	Employer	Supplier
Business Name		
Business Registration		
Tax number (VAT)		
Physical Address		
Accepted contract sum including tax		
Accepted contract duration		
Signed – who by signature hereto warrants authority		
Name of signatory		
Signed: Date		
Signed: Location		
Signed: Witness		
Name of Witness		

FORM OF OFFER AND ACCEPTANCE (continued)

(TO BE FILLED IN BY THE CITY OF CAPE TOWN)

Schedule of Deviations

Notes:

1. The extent of deviations from the tender documents issued by the CCT before the tender closing date is limited to those permitted in terms of the conditions of tender.
2. 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.
3. 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.
4. 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 the Contract.

1 Subject . . . . . .

Details . . . . . .

. . . . . .

. . . . . .

. . . . . .

2 Subject . . . . . .

Details . . . . . .

. . . . . .

. . . . . .

. . . . . .

3 Subject . . . . . .

Details . . . . . .

. . . . . .

. . . . . .

. . . . . .

4 Subject . . . . . .

Details . . . . . .

. . . . . .

. . . . . .

. . . . . .

By the duly authorised representatives signing this agreement, the CCT and the tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to this tender document and addenda thereto as listed in the returnable schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the tenderer and the CCT 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.

(5) PRICE SCHEDULE

TENDERERS MUST NOTE THAT WHEREVER THIS DOCUMENT REFERS TO ANY PARTICULAR TRADE MARK, NAME, PATENT, DESIGN, TYPE, SPECIFIC ORIGIN OR PRODUCER, SUCH REFERENCE SHALL BE DEEMED TO BE ACCOMPANIED BY THE WORDS 'OR EQUIVALENT"

Pricing Instructions:

5.1 State the rates and prices in Rand unless instructed otherwise in the tender conditions.

5.2 Include in the rates, prices, and the tendered total of the prices (if any) all duties, taxes (except Value Added Tax (VAT), and other levies payable by the successful tenderer, such duties, taxes and levies being those applicable 14 days before the closing time stated in the General Tender Information.

5.3 All prices tendered must include all expenses, disbursements and costs (e.g. transport, accommodation etc.) that may be required for the execution of the tenderer's obligations in terms of the Contract, and shall cover the cost of all general risks, liabilities and obligations set forth or implied in the Contract as well as overhead charges and profit (in the event that the tender is successful). All prices tendered will be final and binding.

5.4 All prices shall be tendered in accordance with the units specified in this schedule.

5.5 Where a value is given in the Quantity column, a Rate and Price (the product of the Quantity and Rate) is required to be inserted in the relevant columns.

5.6 The successful tenderer is required to perform all tasks listed against each item. The tenderer must therefore tender prices/rates on all items as per the section in the Price Schedule. **An item against which no rate is/are entered, or if anything other than a rate or a nil rate (for example, a zero, a dash or the word "included" or abbreviations thereof) is entered against an item, it will also be regarded as a nil rate having been entered against that item, i.e. that there is no charge for that item. The Tenderer may be requested to clarify nil rates, or items regarded as having nil rates; and the Employer may also perform a risk analysis with regard to the reasonableness of such rates.**

5.7 Provide fixed rates and prices for the duration of the contract that are not subject to adjustment except as otherwise provided for in clause 17 of the Conditions of Contract and as amplified in the Special Conditions of Contract.

5.8 The tenderers must include the cost of the warranty and service plans for the Truck Chasis and Aerial Platform as specified, for items 1, 2, 3 and 4 in the pricing schedule.

5.9 Tenderers must submit prices for all the sub-items for each main item tendered for.

'

ITEM	DESCRIPTION	NET UNIT PRICE DELIVERED EXCLUDING VAT (R)	DELIVERY FROM THE DATE OF PURCHASE ORDER (PREFERRED DELIVERY WITHIN IN 24 - 40 WEEKS)
1.	**Supply and delivery of truck 4 x 2 with fitted 15m aerial platform as per specification T.2.1**	R	
1.1.	Rapid deployment control system	R	
1.2.	Load body complete – aluminium, as specified	R	
ITEM	**DESCRIPTION**	**NET UNIT PRICE DELIVERED EXCLUDING VAT (R)**	**DELIVERY FROM THE DATE OF PURCHASE ORDER (PREFERRED DELIVERY WITHIN IN 24 - 40 WEEKS)**
2.	**Supply and delivery of truck 4 x 2 with fitted 18 m aerial platform as per specification T.2.2**	R	
2.1.	Rapid deployment control system	R	
2.2.	Load body complete – aluminium, as specified	R	
ITEM	**DESCRIPTION**	**NET UNIT PRICE DELIVERED EXCLUDING VAT (R)**	**DELIVERY FROM THE DATE OF PURCHASE ORDER (PREFERRED DELIVERY WITHIN IN 24 - 40 WEEKS)**
3.	**Supply and delivery of D/Cab truck 4 x 2 with fitted 12m aerial platform as per specification T.2.3**	R	
3.1.	Rapid deployment control system	R	
3.2.	Load body complete – aluminium, as specified	R	
ITEM	**DESCRIPTION**	**NET UNIT PRICE DELIVERED EXCLUDING VAT (R)**	**DELIVERY FROM THE DATE OF PURCHASE ORDER (PREFERRED DELIVERY WITHIN IN 24 - 40 WEEKS)**
4.	**Supply and delivery of truck 4 x 4 with fitted 18 m aerial platform as per specification T.2.4**	R	
4.1.	Rapid deployment control system	R	
4.2.	Load body complete – aluminium, as specified	R	

INITIALS OF CITY OFFICIALS		
1	**2**	**3**

(6) SUPPORTING SCHEDULES

Schedule 1: Certificate of Authority for Partnerships/ Joint Ventures/ Consortiums

This schedule is to be completed if the tender is submitted by a partnership/joint venture/ consortium.

1. We, the undersigned, are submitting this tender offer as a partnership/ joint venture/ consortium and hereby authorize Mr/Ms _____, of the authorised entity _____, acting in the capacity of Lead Partner, to sign all documents in connection with the tender offer and any contract resulting from it on the partnership/joint venture/ consortium's behalf.

2. By signing this schedule the partners to the partnership/joint venture/ consortium:

   2.1 warrant that the tender submitted is in accordance with the main business and objectives of the partnership/joint venture/ consortium;

   2.2 agree that the CCT shall make all payments in terms of this Contract into the following bank account of the Lead Partner:

   Account Holder: _____

   Financial Institution: _____

   Branch Code: _____

   Account No.: _____

   2.3 agree that in the event that there is a change in the partnership/ joint venture/ consortium and/or should a dispute arise between the partnership/joint venture/ consortium partners, that the CCT shall continue to make any/all payments due and payable in terms of the Contract into the aforesaid bank account until such time as the CCT is presented with a Court Order or an original agreement (signed by each and every partner of the partnership/joint venture/ consortium) notifying the CCT of the details of the new bank account into which it is required to make payment.

   2.4 agree that they shall be jointly and severally liable to the CCT for the due and proper fulfilment by the successful tenderer/supplier of its obligations in terms of the Contract as well as any damages suffered by the CCT as a result of breach by the successful tenderer/supplier. The partnership/joint venture/ consortium partners hereby renounce the benefits of excussion and division.

SIGNED BY THE PARTNERS OF THE PARTNERSHIP/ JOINT VENTURE/ CONSORTIUM		
NAME OF FIRM	ADDRESS	DULY AUTHORISED SIGNATORY
Lead partner		Signature……... Name…… Designation……...
		Signature……... Name…… Designation……...
		Signature……... Name…… Designation……...
		Signature……... Name…… Designation……...

Note: A copy of the Joint Venture Agreement shall be appended to List of other documents attached by tenderer schedule**.**

Schedule 2: Declaration for Procurement above R10 million

If the value of the transaction is expected to exceed R10 million (VAT included) the tenderer shall complete the following questionnaire, attach the necessary documents and sign this schedule:

1. Are you by law required to prepare annual financial statements for auditing ? (Please mark with X)

YES		NO	

1.1 If YES, submit audited annual financial statements:

(i) for the past three years, or
(ii) since the date of establishment of the tenderer (if established during the past three years)

By attaching such audited financial statements to **List of other documents attached by tenderer** schedule.

2. Do you have any outstanding undisputed commitments for municipal services towards the CCT or other municipality in respect of which payment is overdue for more than 30 (thirty) days? (Please mark with X)

YES		NO	

2.1 If NO, this serves to certify that the tenderer has no undisputed commitments for municipal services towards any municipality for more than three (3) (three) months in respect of which payment is overdue for more than 30 (thirty) days.

2.2 If YES, provide particulars:

_____

_____

_____

_____

3. Has any contract been awarded to you by an organ of state during the past five (5) years? (Please mark with X)

YES		NO	

3.1 If YES, insert particulars in the table below including particulars of any material non-compliance or dispute concerning the execution of such contract. Alternatively attach the particulars to **List of other documents attached by tenderer** schedule in the same format as the table below:

Organ of State	Contract Description	Contract Period	Non-compliance/dispute (if any)

4. Will any portion of the goods or services be sourced from outside the Republic, and if so, what portion and whether any portion of payment from the CCT is expected to be transferred out of the Republic? (Please mark with X)

YES		NO	

4.1 If YES, furnish particulars below

The tenderer hereby certifies that the information set out in this schedule and/or attached hereto is true and correct, and acknowledges that failure to properly and truthfully complete this schedule may result in steps being taken against the tenderer, the tender being disqualified, and/or (in the event that the tenderer is successful) the cancellation of the contract, restriction of the tenderer or the exercise by the employer of any other remedies available to it.

_____ _____

Signature
Print name:
On behalf of the tenderer (duly authorised)

Date

Schedule 3:
PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

Definitions

The following definitions shall apply to this schedule:

(a) "tender" means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;

(b) "price" means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;

(c) "rand value" means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

(d) "tender for income-generating contracts" means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and

(e) "the Act" means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

3.1.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20 or 90/10

$$Ps = 80\left(1 - \frac{Pt - P\,min}{P\,min}\right) \quad \text{or} \quad Ps = 90\left(1 - \frac{Pt - P\,min}{P\,min}\right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

3.2.1. POINTS AWARDED FOR PRICE

A maximum of 80 or 90 points is allocated for price on the following basis:

80/20 or 90/10

$$Ps = 80\left(1 + \frac{Pt - P\,max}{P\,max}\right) \quad \text{or} \quad Ps = 90\left(1 + \frac{Pt - P\,max}{Pmax}\right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmax = Price of highest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:

4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—

(a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or

(b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

Table 1: Specific goals for the tender and points claimed are indicated per the table below.

(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.

Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (80/20 system) (To be completed by the tenderer)
Gender are women (ownership)* *More than 50% women ownership = 5/ 2.5 points* *Less than 50% women ownership = 2.5/ 1.25 points* *0% women ownership = 0 points*	5	
Race are black persons (ownership)* *More than 50% black ownership = 5/ 2.5 points* *Less than 50% black ownership = 2.5/ 1.25 points* *0% black ownership = 0 points*	5	
Disability are disabled persons (ownership)* *WHO disability guideline* *1-100% ownership = 5/ 2.5 points* *0% ownership = 0 points*	5	
Promotion of Micro and Small Enterprises *Micro with a turnover up to R20million and Small with a turnover up to R80 million as per National Small Enterprise Act, 1996 (Act No.102 of 1996* *SME partnership, sub-contracting, joint venture or consortiums*	5	

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm…….

4.4. Company registration number: ……...

4.5. TYPE OF COMPANY/ FIRM

- □ Partnership/Joint Venture / Consortium
- □ One-person business/sole propriety
- □ Close corporation
- □ Public Company
- □ Personal Liability Company
- □ (Pty) Limited
- □ Non-Profit Company
- □ State Owned Company

[Tick applicable box]

4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

i) The information furnished is true and correct;

ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;

iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;

iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –

(a) disqualify the person from the tendering process;

(b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;

(c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;

(d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the audi alteram partem (hear the other side) rule has been applied; and

(e) forward the matter for criminal prosecution, if deemed necessary.

……
SIGNATURE(S) OF TENDERER(S)

SURNAME AND NAME: …….

DATE: ……

ADDRESS: ……

……

……

For official use.		
SIGNATURE OF CITY OFFICIALS AT TENDER OPENING		
1.	2.	3.

Schedule 4: Declaration of Interest – State Employees (MBD 4 amended)

1. No bid will be accepted from:
   1.1 persons in the service of the state[1], or
   1.2 if the person is not a natural person, of which any director, manager or principal shareholder or stakeholder is in the service of the state, or
   1.3 from persons, or entities of which any director, manager or principal shareholder or stakeholder, has been in the service of the City of Cape Town during the twelve months after the City employee has left the employ of the City, or
   1.4 from an entity who has employed a former City employee who was at a level of T14 of higher at the time of leaving the City's employ and involved in any of the City's bid committees for the bid submitted, if:
      1.4.1 the City employee left the City's employment voluntarily, during a period of 12 months after the City employee has left the employ of the City;
      1.4.2 the City employee left the City's employment whilst facing disciplinary action by the City, during a period of 24 months after the City employee has left the employ of the City, or any other period prescribed by applicable legislative provisions, after having left the City's employ.
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 tenderer 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 tenderer or his or her representative:……...

   3.2 Identity Number:……

   3.3 Position occupied in the Company (director, trustee, shareholder[2])……

   3.4 Company or Close Corporation 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**

      3.8.1 If yes, furnish particulars …….

   3.9 Have you been in the service of the state for the past twelve months? **YES / NO**

      3.9.1 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**

      3.10.1 If yes, furnish particulars ……

   3.11 Are you, aware of any relationship (family, friend, other) between any other tenderer and any persons in the service of the state who may be involved with the evaluation and or adjudication of this bid? **YES / NO**

      3.11.1 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**

3.12.1 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**

3.13.1 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**

3.14.1 If yes, furnish particulars ……

3.15 Have you, or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company been in the service of the City of Cape Town in the past twelve months? **YES / NO**

3.15.1 If yes, furnish particulars ……

3.16 Do you have any employees who was in the service of the City of Cape Town at a level of T14 or higher at the time they left the employ of the City, and who was involved in any of the City's bid committees for this bid? **YES / NO**

3.16.1 If yes, furnish particulars ……

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

Full Name	Identity Number	State Employee Number

If the above table does not sufficient to provide the details of all directors / trustees / shareholders, please append full details to the tender submission.

The tenderer hereby certifies that the information set out in this schedule and/or attached hereto is true and correct, and acknowledges that failure to properly and truthfully complete this schedule may result in steps being taken against the tenderer, the tender being disqualified, and/or (in the event that the tenderer is successful) the cancellation of the contract, restriction of the tenderer or the exercise by the employer of any other remedies available to it.

_____ _____

Signature
Print name: Date
On behalf of the tenderer (duly authorised)

[1]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) an executive member of the accounting authority of any national or provincial public entity; or***
- ***(f) an employee of Parliament or a provincial legislature.***

***[2] Shareholder" 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*.**

Schedule 5: Conflict of Interest Declaration

1. The tenderer shall declare whether it has any conflict of interest in the transaction for which the tender is submitted. (Please mark with X)

YES		NO	

1.1 If yes, the tenderer is required to set out the particulars in the table below:

2. The tenderer shall declare whether it has directly or through a representative or intermediary promised, offered or granted:

2.1 any inducement or reward to the CCT for or in connection with the award of this contract; or

2.2 any reward, gift, favour or hospitality to any official or any other role player involved in the implementation of the supply chain management policy. (Please mark with X)

YES		NO	

If yes, the tenderer is required to set out the particulars in the table below:

Should the tenderer be aware of any corrupt or fraudulent transactions relating to the procurement process of the City of Cape Town, please contact the following:

the City's anti-corruption hotline at 0800 32 31 30 (toll free)

The tenderer hereby certifies that the information set out in this schedule and/or attached hereto is true and correct, and acknowledges that failure to properly and truthfully complete this schedule may result in steps being taken against the tenderer, the tender being disqualified, and/or (in the event that the tenderer is successful) the cancellation of the contract, restriction of the tenderer or the exercise by the employer of any other remedies available to it.

_____ _____

Signature
Print name:
On behalf of the tenderer (duly authorised)

Date

Schedule 6: Declaration of Tenderer's Past Supply Chain Management Practices (MBD 8)

Where the entity tendering is a partnership/joint venture/consortium, each party to the partnership/joint venture/consortium must sign a declaration in terms of the Municipal Finance Management Act, Act 56 0f 2003, and attach it to this schedule.

1 The tender offer of any tenderer may be rejected if that tenderer or any of its directors/members have:

a) abused the municipality's / municipal entity's supply chain management system or committed any fraudulent 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) or Database of Restricted Suppliers.

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

Item	Question	Yes	No
2.1	**Is the tenderer or any of its directors/members listed on the National Treasury's Database of Restricted Suppliers as companies or persons 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 Accounting Officer/Authority of the institution that imposed the restriction after the *audi alteram partem* rule was applied). **The Database of Restricted Suppliers now resides on the National Treasury's website(www.treasury.gov.za) and can be accessed by clicking on its link at the bottom of the home page.**	Yes ☐	No ☐
2.1.1	If so, furnish particulars:		
2.2	Is the tenderer or any of its directors/members 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) or Database of Restricted Suppliers? **The Register for Tender Defaulters can be accessed on the National Treasury's website (www.treasury.gov.za) by clicking on its link at the bottom of the home page.**	Yes ☐	No ☐
2.2.1	If so, furnish particulars:		
2.3	Was the tenderer or any of its directors/members 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 ☐	No ☐

2.3.1	If so, furnish particulars:		
Item	**Question**	**Yes**	**No**
2.4	Does the tenderer 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 ☐	No ☐
2.4.1	If so, furnish particulars:		
2.5	Was any contract between the tenderer 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 ☐	No ☐
2.7.1	If so, furnish particulars:		

The tenderer hereby certifies that the information set out in this schedule and/or attached hereto is true and correct, and acknowledges that failure to properly and truthfully complete this schedule may result in steps being taken against the tenderer, the tender being disqualified, and/or (in the event that the tenderer is successful) the cancellation of the contract, , restriction of the tenderer or the exercise by the employer of any other remedies available to it.

_____ _____

Signature
Print name:
On behalf of the tenderer (duly authorised)

Date

Schedule 7: Authorisation for the Deduction of Outstanding Amounts Owed to the City of Cape Town

To: THE CITY MANAGER, CITY OF CAPE TOWN

From: _____
(Name of tenderer)

RE: AUTHORISATION FOR THE DEDUCTION OF OUTSTANDING AMOUNTS OWED TO THE CITY OF CAPE TOWN

The tenderer:

a) hereby acknowledges that according to SCM Regulation 38(1)(d)(i) the City Manager may reject the tender of the tenderer if any municipal rates and taxes or municipal service charges owed by the tenderer (or any of its directors/members/partners) to the CCT, or to any other municipality or municipal entity, are in arrears for more than 3 (three) months; and

b) therefore hereby agrees and authorises the CCT to deduct the full amount outstanding by the Tenderer or any of its directors/members/partners from any payment due to the tenderer; and

c) confirms the information as set out in the tables below for the purpose of giving effect to b) above;

d) The tenderer hereby certifies that the information set out in this schedule and/or attached hereto is true and correct, and acknowledges that failure to properly and truthfully complete this schedule may result in steps being taken against the tenderer, the tender being disqualified, and/or (in the event that the tenderer is successful) the cancellation of the contract, restriction of the tenderer or the exercise by the employer of any other remedies available to it.

Physical **Business** address(es) of the tenderer	Municipal Account number(s)

If there is not enough space for all the names, please attach the information to **List of other documents attached by tenderer** schedule in the same format:

Name of Director / Member / Partner	Identity Number	Physical **residential** address of Director / Member / Partner	Municipal Account number(s)

_____ _____

Signature
Print name:
On behalf of the tenderer (duly authorised)

Date

Schedule 8: Contract Price Adjustment and/or Rate of Exchange Variation

8.1 PRICING INSTRUCTIONS

8.1.1 The Contract Price Adjustment mechanisms and/or provisions relating to Rate of Exchange Variation contained in this schedule are compulsory and binding on all tenderers.
8.1.2 Failure to complete this schedule or any part thereof may result in the tender offer being declared non-responsive.
8.1.3 Tenderers are not permitted to amend, vary, alter or delete this schedule or any part thereof unless otherwise stated in this schedule, failing which the tender offer shall be declared non-responsive.
8.1.4 Tenderers are not permitted to offer firm prices except as provided for in the Price Schedule, and if the tenderer offers firm prices in contravention of this clause the tender offer shall be declared non-responsive.

The prices tendered on the pricing schedule shall be subject to price adjustment as follows:

8.2 SUPPLIER / MANUFACTURER CONTRACT PRICE ADJUSTMENT

Tenderers are required to complete **either** Section 8.2.1 or Section 8.2.2 below. **(Refer to Clause 8.4 of Schedule 8)**.

Tenderers shall in addition complete Section 8.3 if Rate of Exchange Variations are applicable.

8.2.1 Tenderers that are MANUFACTURERS of the Tendered Items (Complete either paragraph a or b of clause 8.2.1):

Tenderers that are manufacturers of the tendered items are subject to contract price adjustment based on SEIFSA INDICES and/or MATERIALS SUPPLIER'S PRICE LISTS, and shall complete only the following options:

a) Increase using SEIFSA indices

Published indices shall be applied quarterly to determine a fixed rate for the following quarter, as detailed in Clause 8.4.1 of Schedule 8.

Material and labour price variation shall be calculated based upon the SEIFSA base material and labour prices / indices and the stipulated price proportions as detailed in Annexure A of Schedule 8, which shall be completed in full.

A minimum of 10% of the tender price shall be fixed and free of variation for the duration of the contract.

The SEIFSA contract price adjustment formula shall apply, unless otherwise detailed in Schedule 8.

b) Increase using Material Supplier Price Lists

The tender price shall be subject to adjustment based on Supplier's Price Lists for the materials supplied for the manufacture of the tendered items.

Supplier: _____

Date of Price List/Quotation upon which tender is based _____

Price List/Quotation Reference Number _____

N.B.

- The above information must be provided for each item supplied to the Tenderer.
- Copies of price lists on which tender prices are based shall be enclosed for all items.
- Tenderers will be entitled to claim only the difference between the cost of the product at the time of tendering and the new cost. Documentation to this effect must be submitted with each claim.

8.2.2 Tenderers that are NOT Manufacturers of the Tendered Items (If more than one manufacturer are used please supply the additional manufacturer's information after section 16 of this document)

Tenderers that are **NOT** manufacturers of the tendered items are subject to contract price adjustment based on the SUPPLIER'S / MANUFACTURER'S PRICE LISTS from the supplier or manufacturer of the tendered items, as detailed in Clause 8.4.2 of Schedule 8, and shall complete the following:

Supplier: _____

Date of Price List/Quotation upon which tender is based _____

Price List/Quotation Reference Number _____

N.B.

- The above information must be provided for each item supplied to the Tenderer.
- Copies of price lists on which tender prices are based shall be enclosed for all items. The items referenced on the Pricing Schedule must be clearly identified on the Price List.
- Tenderers will be entitled to claim only the difference between the cost of the product at the time of tendering and the new cost. Documentation to this effect must be submitted with each claim.

8.3 RATE OF EXCHANGE VARIATIONS

Only tenderers who are the DIRECT IMPORTER of the Goods may claim rate of exchange price variations. (Refer to Clause 8.4.3 below).

Exchange Rate on which tender is based: _____ 1 = S A Rand _____

Name of Bank: _____

Date of quoted rate of exchange (Seven Calendar Days before tender closing):_____

The end date applicable for variation shall be the date of shipment received (ie. The date of the Bill of Lading / Waybill / Customs Invoice)

Tenderer to indicate applicable documentation (Bill of Lading / Waybill / Customs Invoice):

_____

If any other documentation other than those indicated above is applicable, the tenderer is to indicate this clearly and identify the applicable documentation in the space provided above.

TABLE 8.3: PRICE BASIS FOR IMPORTED RESOURCES

Item No.	Value in foreign currency	Rate of exchange as at **7 days prior** to date of tender	Value in Rand, of foreign currency content (columns AxB)	Customs Surcharge		Customs Duty		Amount of South African Content	Total in Rand of columns C+D+E+F (Total Tender Price) (Excl. VAT)
				%	R	%	R		
	(A)	(B)	(C)		(D)		(E)	(F)	(G)
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

Item No.	Value in foreign currency	Rate of exchange as at **7 days prior** to date of tender	Value in Rand, of foreign currency content (columns AxB)	Customs Surcharge		Customs Duty		Amount of South African Content	Total in Rand of columns C+D+E+F (Total Tender Price) (Excl. VAT)
				%	R	%	R		
	(A)	(B)	(C)		(D)		(E)	(F)	(G)
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									

8.4 PRICE VARIATION CLAIM

8.4.1 SEIFSA Index based Contract Price Variations (Refer to 8.2.1 above)

8.4.1.1 This section is applicable to **Tenderers that ARE the manufacturer** of the tendered Goods.

8.4.1.2 Only Contractors that are the manufacturers of the Goods may claim SEIFSA Index based contract price adjustments.

8.4.1.3 For items that are subject to ROE, the SEIFSA index based CPA **shall apply only to the South African Content portion**, column (F) of the above table.

8.4.1.4 The contract price per item shall be adjusted **quarterly** in advance of placement of orders, and the adjusted contract price shall be applicable for purchase orders placed during the following three full calendar months.

8.4.1.5 Fluctuations in the prices of raw materials and labour will be acceptable for the Contract Price Adjustment calculations for the tendered Goods.

8.4.1.6 The base month for Contract Price Adjustment calculations shall be the calendar month prior to the month of the closing date for tenders, and published indices applicable to this month shall be used.

8.4.1.7 Adjusted contract prices per item shall be calculated based upon the SEIFSA indices published in the calendar month of application for the amended equipment contract prices.

8.4.1.8 Material and labour price variation shall be calculated based upon the SEIFSA base material and labour indices and the stipulated price proportions as detailed in Annexure A of Schedule 8.

8.4.1.9 A minimum of 10% of the **South African Content portion** of the tender price per item (column (F) of

the above table) shall be fixed and free of variation for the duration of the contract.

8.4.1.10 The process to be followed by Contractors for claims for contract price adjustment in terms of SEIFSA shall be as follows:

a) The Contractor shall approach the Employer in writing prior to the third Friday of each of **February, May, August and November** month with an application for the amended unit prices of the Goods to be applicable to the contract during the following month.

b) The application shall be based upon the SEIFSA indices published during the calendar month of application (published before the end of the third week of the month and detailing the latest available indices) and shall detail the proposed adjusted unit prices for the Goods and include detailed calculations indicating how the adjusted unit prices per item have been established.

c) Calculations of the contract price adjustment shall use the original tendered unit rates, the base indices, the indices published in the calendar month of application and the SEIFSA formula and shall contain no other factors or adjustments.

d) The Employer will check and approve the proposed unit prices for the following month prior to the last Friday of the month of application. The Employer will notify the Contractor in writing of approval of the adjusted prices. Any communications regarding approval of the proposed adjusted prices shall be completed before the last Friday of the month of application for the amended unit prices for the Goods.

e) The Employer will update the SAP Contract records at the end of the month with the approved amended unit prices for the following three months.

f) All purchase orders for the contracted Goods issued during a quarterly period shall be issued, invoiced and paid at the contract unit prices approved for that quarterly period and no further contract price adjustment claims will be considered, irrespective of the actual month of delivery and whether or not deliveries were subject to any manufacturing or delivery delays.

g) The required delivery dates for orders for the contracted Goods placed by the Employer will be determined based upon the date of issue of the purchase order and the contract delivery period.

h) Failure by the Contractor to submit claims for Contract Price Adjustment within the timeframes detailed above will result in the unit rates for the Goods concerned being determined by the Employer in accordance with the published SEIFSA indices. The Employer however reserves the right in such a case not to amend the unit rates for the Goods if it is not to the Employer's advantage.

i) The successful Contractor shall immediately upon notification of the commencement date of contract submit written application for approval of adjusted unit prices for the Goods that shall be applicable during the first calendar month of the contract. This application will be assessed in accordance with the process laid out above in order to determine approved contract prices for the first calendar month of the contract.

j) Failure to submit such application within one working week of commencement of contract shall result in the tendered unit prices being applied for orders placed during the first calendar month of the contract.

k) Application for Contract Price Adjustment thereafter shall follow the process detailed above.

8.4.2 Supplier / Manufacturer Price List Variations (Refer to 8.2.2 above)

This section is applicable to **Tenderers that are NOT the manufacturer** of the tendered Goods.

This section is **also applicable to** Tenderers that are importing overseas manufactured component parts for assembly into tendered goods that are locally manufactured.

If the contract is subject to variation based on **SUPPLIER / MANUFACTURER PRICE LISTS**, the following will be applicable:

8.4.2.1 Contractors shall make the application for contract price adjustment prior to the date upon which the price adjustment would become effective.

8.4.2.2 The effective date of any price adjustment granted will be the first day of the month following the month during which the fully substantiated application for contract price adjustment is submitted and approved

or, by agreement between the Contractor and the Employer, a subsequent date on which the price adjustment will become effective.

8.4.2.3 In instances where the Contractor's price adjustment claimed is less than entitled, the lesser price will be accepted.

8.4.2.4 Purchase orders placed prior to the effective date of any price increase shalll be placed at the previously agreed price, not the claimed adjusted price.

8.4.2.5 Only the difference in cost may be adjusted and under no circumstances may the Contractor increase their profit margin.

8.4.2.6 The process to be followed by the Contractor for claims for contract price adjustment shall be as follows:

a) The Contractor shall submit all of the documentation indicated below a minimum of two weeks prior to the effective date of the contract price adjustment.

b) The Employer will consider the proposed contract price adjustment and based on the documentary evidence, the Employer may approve the adjustment.

c) A letter authorising the price adjustment will be issued to the Contractor.

d) All purchase orders issued subsequent to the effective date of the contract price adjustment will be issued at the approved adjusted contract price.

8.4.2.7 The Contractor shall supply the following documentation when applying for a contract price adjustment:

a) The price list that the tender was based upon clearly indicating the items numbered according to the tender pricing schedule.

b) The new price list from the same Supplier / Manufacturer as originally tendered and clearly indicating the items numbered according to the tender pricing schedule and the revised price applicable to each item.

c) Detailed calculations indicating how the new price has been established.

d) A covering letter on the Contractor's letterhead requesting the contract price adjustment.

e) All documentation is to be signed by the Supplier / Manufacturer and by the Contractor.

8.4.2.8 In the event of a Contractor changing their Supplier / Manufacturer during the tenure of the contract, no request for price variations will be considered unless the Contractor has obtained prior approval from the City for the change of Supplier / Manufacturer. Such approval shall include technical approval by the Engineer of the goods supplied by the replacement Supplier / Manufacturer. Technical approval by the Engineer shall be a prerequisite for any change of Supplier / Manufacturer.

8.4.3 Rate of Exchange Variations (Refer to 8.3 above)

8.4.3.1 The Tenderer shall note The Department: Trade and Industry Local Production and Content requirements included with and forming a part of this specification, where applicable, and shall comply fully therewith.

8.4.3.2 If the Contract price is subject to variations in RATES OF EXCHANGE the Tenderer SHALL complete the appropriate section in Schedule 8 (Section 8.3), failing which no claim for contract price adjustment on the basis of rate of exchange variations will be considered.

8.4.3.3 Only Contractors that are directly importing the tendered Goods or component parts of the tendered Goods may claim rate of exchange variations.

8.4.3.4 The price adjustment for variations in the cost of plant and materials imported from outside of South Africa shall be based on the information contained on the schedule titled "**Price Basis for Imported Resources"** and as below. The Rand value of Plant and Materials comprising entirely or partly imported content that is inserted on the schedule titled "**Price Basis for Imported Resources"** (column (G)) shall be the rate tendered in the Pricing Schedule, and shall be the value in foreign currency (column (A)) converted to South African Rand (column (C)) by using the closing spot selling rate on the Base Date (seven calendar days before tender closing date) rounded to the second decimal place (column (B)), to which shall be added any Customs Surcharge and Customs Duty applicable at that date (columns (D)

and (E)) and any South African manufactured or added content (column (F)). Any mark-up by the Tenderer or other costs not detailed above shall be entirely contained within the South African Content (Column (F)).

8.4.3.5 The Supplier shall within seven working days from the date of receipt of the purchase order arrange for cover or recovering forward by way of a contract with a bank which is an authorised foreign exchange dealer, the foreign exchange component of the cost of any imported Plant and Materials inserted by the Tenderer on the scheduled titled "**Price Basis for Imported Resources"**, and submit such Forward Cover quotation to the City for approval. Following such approval the forward cover shall be contracted within a further two working days and a copy provided to the City.

8.4.3.6 Based on the evidence provided in Clause 8.4.3.5 above, the value in Rand inserted in column (C) of on the schedule titled "**Price Basis for Imported Resources** "shall be recalculated using the forward cover rate obtained, and any increase or decrease in the Rand value defined in this clause shall be adjusted accordingly, subject to Clause 8.4.3.7 below.

8.4.3.7 The adjustments shall be calculated upon the value in foreign currency in the Supplier's **forward cover contract**, provided that, should this value exceed the value in foreign currency inserted in column (A) of on the schedule titled "**Price Basis for Imported Resources"**, then the value in column (A) shall be used.

8.4.3.8 Any increase or decrease in the Rand value between the amounts of Customs Surcharge and Customs Duty inserted in on the schedule titled "**Price Basis for Imported Resources"** and those amounts actually paid to the Customs and Excise Authorities, which are due to changes in the percentage rates applicable or to the foreign exchange rate used by the authorities, shall be adjusted accordingly.

8.4.3.9 The Tenderer shall state the Customs Duty Tariff Reference applicable to each item and the Supplier shall advise the CCT's Agent of any changes which occur.

8.4.3.10 Contractors shall take out Forward Cover covering the foreign exchange component of the cost of any imported portion of the Goods ordered on each purchase order issued by the Employer.

8.4.3.11 The process to be followed by Contractors for claims for Rate of Exchange Variations shall be as follows:

a) On receipt of a purchase order the Contractor shall arrange for a quotation for Forward Cover from their banking institution.

b) This Forward Cover quotation shall be submitted to the Employer for approval of the Forward Cover rate within seven working days from date of receipt of the purchase order.

c) Only once the Forward Cover rate is approved may the Contractor engage in a formalised contract with their banking institution and submit the Forward Cover contract to the Employer. This shall be done within two working days from the City's approval.

d) The Forward Cover Contract shall refer to the purchase order number, shall be signed by both parties (the Contractor and the Banking Institution) and shall be valid until such time as the goods are delivered to the Employer.

8.4.3.12 On delivery of the goods to the City the Contractor shall submit the following documentation:

a) The Bill of Lading/Waybill/Customs Invoice (clearly indicating the items as identified on the purchase order).

b) Calculations detailing the difference in the rate of exchange at the time of entry and the date of tender. These shall be submitted on a covering letter.

c) The invoice / credit note for the Rate of Exchange adjustment applicable to the specific order.

8.4.4 Supplier Price List Variations for Contractors Supplying Imported Goods by Another Party (Refer to 8.2 above).

8.4.4.1 Tenderers that intend to purchase the goods from another supplier who is in turn importing the goods shall obtain Firm Prices from the supplier and shall submit the price list in accordance with the process outlined in Clause 8.4.2 above. The updated pricelist shall be submitted to the City within seven calendar days of the date of the purchase order date. The City reserves the right the request further supporting documents to substantiate the claimed adjustments.

8.4.5 Contract Price Adjustment – General

8.4.5.1 All requests for variation in the contract price shall be submitted in writing as follows:

- By letter to: Director Supply Chain Management, City of Cape Town, P O Box 655, Cape Town, 8000, or
- by email to: CPA.Request@capetown.gov.za

prior to the date upon which the price adjustment would become effective.

8.4.5.2 When submitting an application for contract price adjustment the Contractor shall provide the applicable month's actual indices for the SEIFSA Table No's and Descriptions detailed in Annexure A of Schedule 8 or the supplier's actual published pricelists applicable to the particular month, and the actual revised rate proposed for each item. A mere notification of an application for contract price adjustment without stating the adjusted price claimed for each item shall, for the purpose of this clause, not be regarded as a valid claim.

8.4.5.3 The Employer reserves the right to request the Contractor to submit auditor's certificates or such other documentary proof as it may require in order to verify a claim for contract price adjustment. Should the supplier fail to submit such auditor's certificates or other documentary proof to the City of Cape Town within a period of 30 (thirty) days from the date of the request, it shall be presumed that the supplier has abandoned his claim.

Schedule 9: Certificate of Independent Tender Determination

I, the undersigned, in submitting this tender **396G/2022/23 THE SUPPLY AND DELIVERY OF VARIOUS TRUCKS WITH AERIAL PLATFORMS** in response to the tender invitation made by THE CITY OF CAPE TOWN, do hereby make the following statements, which I certify to be true and complete in every respect:

I certify, on behalf of :_____ (Name of tenderer)

That:

1. I have read and I understand the contents of this Certificate;
2. I understand that this tender will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorised by the tenderer to sign this Certificate, and to submit this tender, on behalf of the tenderer;
4. Each person whose signature appears on this tender has been authorised by the tenderer to determine the terms of, and to sign, the tender on behalf of the tenderer;
5. For the purposes of this Certificate and this tender, I understand that the word 'competitor' shall include any individual or organisation other than the tenderer, whether or not affiliated with the tenderer, who:
   (a) has been requested to submit a tender in response to this tender invitation;
   (b) could potentially submit a tender in response to this tender invitation, based on their qualifications, abilities or experience; and
   (c) provides the same goods and services as the tenderer and/or is in the same line of business as the tenderer.
6. The tenderer has arrived at this tender independently from and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium[1] will not be construed as collusive price quoting.
7. In particular, without limiting the generality of paragraphs 5 and 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 tender;
   (e) the submission of a tender which does not meet the specifications and conditions of the tender; or
   (f) tendering with the intention not to win the contract.
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 tender invitation relates.
9. The terms of this tender have not been and will not be disclosed by the tenderer, directly or indirectly, to any competitor, prior to the date and time of the official tender 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 tenders and contracts, tenders 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, Act 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 10 (ten) years in terms of the Prevention and Combating of Corrupt Activities Act, Act 12 of 2004, or any other applicable legislation.

_____ _____

Signature **Date**

_____

Name (PRINT)

(For and on behalf of the Tenderer (duly authorised))

([1] Consortium: Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.)

Schedule 10: Price Basis for Imported Resources

VALUE OF IMPORTED RESOURCES TO BE ADJUSTED						Customs Surcharge		Customs Duty*		Total in Rand of (C) + (D) + (E) included in Price Schedule
Price Schedule Item No.	Description of Resources	Value in Foreign Currency	Rate of Exchange as at BASE DATE	Value in Rand (A) x (B)		%	Rand	%	Rand	
		(A)	(B)	(C)			(D)		(E)	(F)

***** State Customs Duty Tariff Reference for each item

Note:

Note that any Resources not inserted in this Returnable Schedule shall be deemed to be manufactured / supplied in South Africa for the purposes of Contract Price Adjustment. The BASE DATE referred to in column (B) will be7 calendar days before tender closing.

SIGNED ON BEHALF OF TENDERER: .....

Schedule 11: List of other documents attached by tenderer

The tenderer has attached to this schedule, the following additional documentation:

	Date of Document	Title of Document or Description (refer to clauses / schedules of this tender document where applicable)
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		
11.		
12.		
13.		
14.		
15.		
16.		
17.		

Attach additional pages if more space is required.

_____ _____

Signature
Print name:
On behalf of the tenderer (duly authorised)

Date

Schedule 12: Record of Addenda to Tender Documents

We confirm that the following communications received from the Employer before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer:

	Date	Title or Details
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		
9.		
10.		

Attach additional pages if more space is required.

SIGNED ON BEHALF OF TENDERER: . . . . . .

Schedule 13: Information to be provided with the tender

The following information shall be provided with the Tender:

(a) The various technical details and drawings must be provided as stated in the specifications as per items T2.1, T2.2, T2.3 and T2.4

(b) The tenderers or the tenderers' sub contractors must be OEM accredited for aerial platform where applicable. Submit proof with tender submission in the form of a letter confirming tenderer or the tenderer's subcontractor is accredited agent with the OEM for the aerial platform supplied.

(c) Submit documentary proof with tender submission that the tenderer is registered with the Provincial Government as a motor dealer or motor manufacturer.

(d) Submit proof with tender submission that the tenderer or its sub-contractor is a registered body builder in terms of the National Road Traffic Act 93 of 1996. A copy of such registration certificate must be provided as proof.

(e) Provide proof with with tender submission a letter from the OEM (Original Equipment Manufacturer) confirming tenderer is an accredited agent with the OEM for the truck.

SIGNED ON BEHALF OF TENDERER: . . . . . .

TENDER NO: 396G/2022/23

TENDER DESCRIPTION: THE SUPPLY AND DELIVERY OF VARIOUS TRUCKS WITH AERIAL PLATFORMS

CONTRACT PERIOD: NOT EXCEEDING 36 MONTHS FROM THE DATE OF COMMENCEMENT OF THE CONTRACT

VOLUME 3: DRAFT CONTRACT

TENDERER	
NAME of Company/Close Corporation or Partnership / Joint Venture/ Consortium or Sole Proprietor /Individual	
TRADING AS (if different from above)	

NATURE OF TENDER OFFER (please indicate below)	
Main Offer (see clause 2.2.11.1)	
Alternative Offer (see clause 2.2.11.1)	

VOLUME 3: DRAFT CONTRACT
(7) SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions of Contract, referring to the National Treasury – Conditions of Contract (revised July 2010), are applicable to this Contract:

1. Definitions

Delete Clause 1.15 and substitute with the following

1.15 The word 'Goods' is to be replaced everywhere it occurs in the GCC with the phrase 'Goods and / or Services' which means all of the equipment, machinery, materials, services, products, consumables, etc. that the supplier is required to deliver to the purchaser under the contract. This definition shall also be applicable, as the context requires, anywhere where the words "supplies" and "services" occurs in the GCC.

Delete Clause 1.19 and substitute with the following

1.19 The word 'Order' is to be replaced everywhere it occurs in the GCC with the words 'Purchase Order' which means the official purchase order authorised and released on the purchaser's SAP System

Delete Clause 1.21 and substitute with the following:

1.21 'Purchaser' means the **City of Cape Town**. The address of the Purchaser is **12 Hertzog Boulevard, Cape Town, 8001**.

Add the following after Clause 1.25:

1.26 'Supplier' means any provider of goods and / or services with whom the contract is concluded

1.27 "Intellectual Property" means any and all intellectual property rights of any nature anywhere in the world whether registered, registerable or otherwise, including patents, trademarks, registered designs and domain names, applications for any of the foregoing, trade or business names, copyright and rights in the nature of copyright, design rights, rights in databases, know-how, trade secrets and any other intellectual property rights which subsist in computer software, computer programs, websites, documents, information, techniques, business methods, drawings, logos, instruction manuals, lists and procedures and particulars of customers, marketing methods and procedures and advertising literature, including the "look and feel" of any websites

3. General Obligations

Delete Clause 3.2 in its entirety and replace with the following clauses.

3.2 The parties will be liable to each other arising out of or in connection with any breach of the obligations detailed or implied in this contract, subject to clause 28.

3.3 All parties in a joint venture or consortium shall be jointly and severally liable to the purchaser in terms of this contract and shall carry individually the minimum levels of insurance stated in the contract, if any.

3.4 The parties shall comply with all laws, regulations and bylaws of local or other authorities having jurisdiction regarding the delivery of the goods and give all notices and pay all charges required by such authorities.

3.4.1 The parties agree that this contract shall also be subject to the CCT's Supply Chain Management Policy ('SCM Policy') that was applicable on the date the bid was advertised**, save that if the Employer adopts a new SCM Policy which contemplates that any clause therein would apply to the contract emanating from this tender, such clause shall also be applicable to that contract**. Please refer to this document contained on the CCT's website.

3.4.2 Abuse of the supply chain management system is not permitted and may result in cancellation of the contract, restriction of the supplier, and/or the exercise by the City of any other remedies available to it as described in the SCM Policy.

3.5 The **supplier** shall:

3.5.1 Arrange for the documents listed below to be provided to the Purchaser prior to the issuing of the order:

a) Proof of Insurance (Refer to Clause 11) or Insurance Broker's Warrantee
b) Letter of good standing from the Compensation Commissioner, or a licensed compensation insurer (Refer to Clause 11)
c) Initial delivery programme
d) Other requirements as detailed in the tender documents

3.5.2 Only when notified of the acceptance of the bid by the issuing of the order, the supplier shall commence with and carry out the delivery of the goods in accordance with the contract, to the satisfaction, of the purchaser

3.5.3 Provide all of the necessary materials, labour, plant and equipment required for the delivery of the goods including any temporary services that may be required

3.5.4 Insure his workmen and employees against death or injury arising out of the delivery of the goods

3.5.5 Be continuously represented during the delivery of the goods by a competent representative duly authorised to execute instructions;

3.5.6 In the event of a loss resulting in a claim against the insurance policies stated in clause 11, pay the first amount (excess) as required by the insurance policy

3.5.7 Comply with all written instructions from the purchaser subject to clause 18

3.5.8 Complete and deliver the goods within the period stated in clause 10, or any extensions thereof in terms of clause 21

3.5.9 Make good at his own expense all incomplete and defective goods during the warranty period

3.5.10 Pay to the purchaser any penalty for delay as due on demand by the purchaser. The supplier hereby consents to such amounts being deducted from any payment to the supplier.

3.5.11 Comply with the provisions of the OHAS Act & all relevant regulations.

3.5.12 Comply with all laws relating to wages and conditions generally governing the employment of labour in the Cape Town area and any applicable Bargaining Council agreements.

3.5.13 Deliver the goods in accordance with the contract and with all reasonable care, diligence and skill in accordance with generally accepted professional techniques and standards.

3.6 The **purchaser** shall:

3.6.1 Issue orders for the goods required under this Contract. No liability for payment will ensue for any work done if an official purchase order has not been issued to the supplier.

3.6.2 Make payment to the **supplier** for the goods as set out herein.

3.6.3 Take possession of the goods upon delivery by the supplier.

3.6.4 Regularly inspect the goods to establish that it is being delivered in compliance with the contract.

3.6.5 Give any instructions and/or explanations and/or variations to the supplier including any relevant advice to assist the supplier to understand the contract documents.

3.6.6 Grant or refuse any extension of time requested by the supplier to the period stated in clause 10.

3.6.7 Inspect the goods to determine if, in the opinion of the purchaser, it has been delivered in compliance with the contract, alternatively in such a state that it can be properly used for the purpose for which it was intended.

3.6.8 Brief the supplier and issue all documents, information, etc. in accordance with the contract.

5. Use of contract documents and information; inspection, copyright, confidentiality, etc.

Add the following after clause 5.4:

5.5 Copyright of all documents prepared by the supplier in accordance with the relevant provisions of the copyright Act (Act 98 of 1978) relating to contract shall be vested in the purchaser. Where copyright is vested in the supplier, the purchaser shall be entitled to use the documents or copy them only for the purposes for which they are intended in regard to the contract and need not obtain the supplier's permission to copy for such use. Where copyright is vested in the purchaser, the supplier shall not be liable in any way for the use of any of the information other than as originally intended for the contract and the purchaser hereby indemnifies the supplier against any claim which may be made against him by any party arising from the use of such documentation for other purposes.

The ownership of data and factual information collected by the supplier and paid for by the purchaser shall, after payment, vest with the purchaser

5.6 Publicity and publication
The supplier shall not release public or media statements or publish material related to the services or contract within two (2) years of completion of the services without the written approval of the purchaser, which approval shall not be unreasonably withheld.

5.7 Confidentiality
Both parties shall keep all information obtained by them in the context of the contract confidential and shall not divulge it without the written approval of the other party.

5.8 Intellectual Property

5.8.1 The supplier acknowledges that it shall not acquire any right, title or interest in or to the Intellectual Property of the Employer.

5.8.2 The supplier hereby assigns to the Employer, all Intellectual Property created, developed or otherwise brought into existence by it for the purposes of the contract, unless the Parties expressly agree otherwise in writing.

5.8.3 The supplier shall, and warrants that it shall:

5.8.3.1 not be entitled to use the Employer's Intellectual Property for any purpose other than as contemplated in this contract;

5.8.3.2 not modify, add to, change or alter the Employer's Intellectual Property, or any information or data related thereto, nor may the supplier produce any product as a result of, including and/or arising from any such information, data and Intellectual Property, and in the event that it does produce any such product, the product shall be, and be deemed in law to be, owned by the Employer;

5.8.3.3 not apply for or obtain registration of any domain name, trademark or design which is similar to any Intellectual Property of the Employer;

5.8.3.4 comply with all reasonable directions or instructions given to it by the Employer in relation to the form and manner of use of the Employer Intellectual Property, including without limitation, any brand guidelines which the Employer may provide to the supplier from time to time;

5.8.3.5 procure that its employees, directors, members and contractors comply strictly with the provisions of clauses 5.8.3.1 to 5.8.3.3 above;

unless the Employer expressly agrees thereto in writing after obtaining due internal authority.

5.8.4 The supplier represents and warrants to the Employer that, in providing goods, services or both, as the case may be, for the duration of the contract, it will not infringe or make unauthorised use of the Intellectual Property rights of any third party and hereby indemnifies the Employer from any claims,

liability, loss, damages, costs, and expenses arising from the infringement or unauthorised use by the supplier of any third party's Intellectual Property rights.

5.8.5 In the event that the contract is cancelled, terminated, ended or is declared void, any and all of the Employer's Intellectual Property, and any and all information and data related thereto, shall be immediately handed over to the Employer by the supplier and no copies thereof shall be retained by the supplier unless the Employer expressly and in writing, after obtaining due internal authority, agrees otherwise.

7. Performance Security

'Not Applicable. Tenderers must disregard **Form of Guarantee / Performance Security** and are not required to complete same.

8. Inspections, tests and analyses

Delete Clause 8.2 and substitute with the following:

8.2 If it is a bid condition that supplies to be produced or services to be rendered should at any stage during production or execution or on completion be subject to inspection, the premises of the bidder or contractor shall be open, at all reasonable hours, for inspection by a representative of the purchaser or an organisation acting on behalf of the purchaser.

10. Delivery and documents

Delete clauses 10.1 and 10.2 and replace with the following:

10.1 Delivery of the goods shall be made by the supplier in accordance with the terms specified in the contract. The time for delivery of the goods shall be the date as stated on the order. Orders for the supply and delivery of goods may be raised up until the expiry of a framework agreement bid, provided that the goods can be delivered within 30 days of expiry of the framework contract. All orders, other than for the supply and delivery of goods, must be completed prior to the expiry of the contract period.

10.2 The purchaser shall determine, in its sole discretion, whether the goods have been delivered in compliance with the contract, alternatively in such a state that it can be properly used for the purpose for which it was intended. When the purchaser determines that the goods have been satisfactorily delivered, the purchaser must issue an appropriate certification, or written approval, to that effect. Invoicing may only occur, and must be dated, on or after the date of acceptance of the goods.

11. Insurance

Add the following after clause 11.1:

11.2 Without limiting the obligations of the supplier in terms of this contract, the supplier shall effect and maintain the following additional insurances:

a) Public liability insurances, in the name of the supplier, covering the supplier and the purchaser against liability for the death of or injury to any person, or loss of or damage to any property, arising out of or in the course of this Contract, in an amount not less than **R20 million** for any single claim**;**

b) Motor Vehicle Liability Insurance, in respect of all vehicles owned and / or leased by the supplier, comprising (as a minimum) "Balance of Third Party" Risks including Passenger Liability Indemnity;

c) Registration / insurance in terms of the Compensation for Occupational Injuries and Disease Act, Act 130 of 1993**.** This can either take the form of a certified copy of a valid Letter of Good Standing issued by the Compensation Commissioner, or proof of insurance with a licenced compensation insurer, from either the bidder's broker or the insurance company itself (see **Proof of Insurance / Insurance Broker's Warranty** section in document for a pro forma version).

a) Product Liability - necessary cover for losses if the Vendor is designing, manufacturing or fitting a particular/specific/custom component on any of the City's vehicles as part of the maintenance process.

b) Defective Workmanship - necessary cover for completion of rework as well as damage to the City's property which results from the defective workmanship / components.

c) Motor Traders Policy (internal risks) - necessary cover for accidental damage to vehicles whilst on the premises of the Vendor; Loss of or damage to vehicles (not owned by the Insured) whilst on the Insured Property including liability to a third party.

d) Motor Traders Policy (external risks) - necessary cover for accidental damage to vehicles whilst away from the premises of the Vendor. Loss of or damage to vehicles (not owned by the Insured) whilst in the course of a journey including liability to a third party.

The Tenderer is expected to purchase the insurance covers listed above, the level of which must take into account the prices submitted for the items tendered for. Advice must be sought from reputable brokers in this regard.

In the event of under insurance or the insurer's repudiation of any claim for whatever reason, the CCT will retain its right of recourse against the supplier.

11.3 The supplier shall be obliged to furnish the CCT with proof of such insurance as the CCT may require from time to time for the duration of this Contract. Evidence that the insurances have been effected in terms of this clause, shall be either in the form of an insurance broker's warranty worded precisely as per the pro forma version contained in the **Proof of Insurance / Insurance Broker's Warranty** section of the document or copies of the insurance policies.

15. Warranty

Add to Clause 15.2:

15.2 This warranty for this contract shall remain valid as per specification inclusive of the following clauses after the goods have been delivered

Section 15 T2.1 Warranty, Section 48 T2.1 Warranty Aerial Platform, Section 15 T2.2 Warranty, Section 48 T2.2 Warranty Aerial Platform, Section 15 T2.3 Warranty, Section 48 T2.3 Warranty Aerial Platform, Section 15 T2.4 Warranty, Section 48 T2.4 Warranty Aerial Platform

16. Payment

Delete Clause 16.1 in its entirety and replace with the following:

16.1 Payment of invoices will be made within 30 days of receiving the relevant invoice or statement, unless otherwise prescribed for certain categories of expenditure or specific contractual requirements in accordance with any other applicable policies of the City. All completed invoices for goods and services will be paid on a weekly basis and construction related invoices will be paid daily.

Notwithstanding anything contained above, the City shall not be liable for payment of any invoice that pre dates the date of delivery of any goods or services, or the date of certification for construction works.

Should the processing of a payment be delayed due to the late submission of documentation, any penalties imposed will be for the account of the functional business area. Any queries will also be referred to such line department.

No official shall commit Council to making a payment outside the scheduled payment terms

Delete Clause 16.2 in its entirety and replace with the following:

16.2 The supplier shall furnish the purchaser's Accounts Payable Department with an original tax invoice, clearly showing the amount due in respect of each and every claim for payment.

Add the following after clause 16.4

16.5 Notwithstanding any amount stated on the order, the supplier shall only be entitled to payment for goods actually delivered in terms of the Project Specification and Drawings, or any variations in accordance with clause 18. Any contingency sum included shall be for the sole use, and at the discretion, of the purchaser.

The CCT is not liable for payment of any invoice that pre-dates the date of delivery of the goods.

16.6 The purchaser will only make advanced payments to the supplier in strict compliance with the terms and details as contained on **Proforma Advanced Payment Guarantee** and only once the authenticity of such guarantee has been verified by the City's Treasury Department.

17. Prices

Add the following after clause 17.1

17.2 If as a result of an award of a contract beyond the original tender validity period, the contract execution will be completed beyond a period of twelve (12) months from the expiry of the original tender validity period, then the contract may be subject to contract price adjustment for that period beyond such twelve (12) months. An appropriate contract price adjustment formula will be determined by the Director: Supply Chain Management if such was not included in the bid documents.

17.3 If as a result of any extension of time granted the contract execution will be completed beyond a period of twelve (12) months from the expiry of the original tender validity period, then contract price adjustment may apply to that period beyond such twelve (12) months. An appropriate contract price adjustment formula will be determined by the Director: Supply Chain Management if such was not included in the bid documents.

17.4 The prices for the goods delivered and services performed shall be subject to contract price adjustment and the following conditions will be applicable:

Refer to schedule 8

17.5 If price adjustment for variations in the cost of plant and materials imported from outside of South Africa is provided for in the contract, such adjustment shall be based on the information contained on the schedule titled "**Price Basis for Imported Resources"** and as below. For the purposes of this clause the Rand value of imported Plant and Materials inserted on the schedule titled "**Price Basis for Imported Resources"** (column (F)) shall be the value in foreign currency (column (A)) converted to

South African Rand (column (C)) by using the closing spot selling rate quoted by **CCT's** main banker, NEDBANK, on the Base Date (seven calendar days before tender closing date) rounded to the second decimal place (column(B)), to which shall be added any Customs Surcharge and Customs Duty applicable at that date (columns (D) and (E)).

17.5.1 Adjustment for variations in rates of exchange:

(a) The value in foreign currency inserted in column (A) shall be subject to clause (h) below when recalculating the Rand value.

(b) The rate of exchange inserted in column (B) shall be the closing spot selling rate quoted by Council's main banker, NEDBANK, on the Base Date, rounded to the second decimal place, subject to sub-paragraph (c) below.

(c) If the rate of exchange inserted by the Tenderer differs from the NEDBANK rate referred to above, then the NEDBANK rate shall apply and the Rand value in columns (C) and (F) shall be recalculated accordingly, without altering the price in the Price Schedule for the relevant items.

(d) If a tender from a supplier or sub-contractor provides for variations in rates of exchange, the Supplier may **only** claim for variations in rates of exchange if he binds the supplier or sub-contractor to the same provision to take out forward cover as described in sub-paragraph (e) below.

(e) The Supplier (or sub-contractor) shall within five working days from the date of placing a firm order on an overseas supplier, cover or recover forward by way of a contract with a bank which is an authorised foreign exchange dealer, the foreign exchange component of the cost of any imported Plant and Materials inserted by the Tenderer on the scheduled titled "**Price Basis for Imported Resources"**.

(f) When the Supplier (or sub-contractor) so obtains forward cover, the Supplier shall immediately notify the CCT of the rate obtained and furnish the CCT with a copy of the foreign exchange contract note.

(g) Based on the evidence provided in sub-paragraph (f) above, the value in Rand inserted in column (C) of on the schedule titled "**Price Basis for Imported Resources** "shall be recalculated using the forward cover rate obtained, and any increase or decrease in the Rand value defined in this clause shall be adjusted accordingly, subject to sub-paragraph (h) below.

(h) The adjustments shall be calculated upon the value in foreign currency in the Supplier's (or sub-contractor's) **forward cover contract**, provided that, should this value exceed the value in foreign currency inserted in column (A) of on the schedule titled "**Price Basis for Imported Resources"**, then the value in column (A) shall be used.

17.53.2 Adjustment for variations in customs surcharge and customs duty

(a) Any increase or decrease in the Rand value between the amounts of Customs Surcharge and Customs Duty inserted in on the schedule titled "**Price Basis for Imported Resources"** and those amounts actually paid to the Customs and Excise Authorities, which are due to changes in the percentage rates applicable or to the foreign exchange rate used by the authorities, shall be adjusted accordingly.

(b) The Tenderer shall state the Customs Duty Tariff Reference applicable to each item and the Supplier shall advise the CCT's Agent of any changes which occur.

17.5.3 Adjustment for variation in labour and material Costs

If the prices for imported Plant and Materials are not fixed, the Supplier shall in his Tender specify the formula for calculating Contract Price Adjustments normally used in the country of manufacture and the indices and relative proportions of labour and material on which his Tender prices are based. Evidence of the indices applicable shall be provided with each claim. The indices applicable 42 days before contractual dispatch date from the factory will be used for the purposes of Contract Price Adjustment.

Failure to specify a formula in the Tender shall mean that the prices are fixed or shall be deemed to be fixed.

18. Contract Amendments

Delete the heading of clause 18 and replace with the following:

18. Contract Amendments and Variations

Add the following to clause 18.1:

Variations means changes to the goods, extension of the duration or expansion of the value of the contract that the purchaser issues to the supplier as instructions in writing, subject to prior approval by the purchaser's delegated authority. Should the supplier deliver any goods not described in a written instruction from the purchaser, such work will not become due and payable until amended order has been issued by the purchaser.

20. Subcontracts

Add the following after clause 20.1:

20.2 The supplier shall be liable for the acts, defaults and negligence of any subcontractor, his agents or employees as fully as if the were the acts, defaults or negligence of the supplier.

20.3 Any appointment of a subcontractor shall not amount to a contract between the CCT and the subcontractor, or a responsibility or liability on the part of the CCT to the subcontractor and shall not relive the supplier from any liability or obligation under the contract.

21. Delays in the supplier's performance

Delete Clause 21.2 in its entirety and replace with the following:

21.2 If at any time during the performance of the contract the supplier or its sub-contractors should encounter conditions beyond their reasonable control which impede the timely delivery of the goods, the supplier shall notify the purchaser in writing, within 7 Days of first having become aware of these conditions, of the facts of the delay, its cause(s) and its probable duration. As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation, and may at his discretion extend the time for delivery.

Where additional time is granted, the purchaser shall also determine whether or not the supplier is entitled to payment for additional costs in respect thereof. The principle to be applied in this regard is that where the purchaser or any of its agents are responsible for the delay, reasonable costs shall be paid. In respect of delays that were beyond the reasonable control of both the supplier and the purchaser, additional time only (no costs) will be granted.

The purchaser shall notify the supplier in writing of his decision(s) in the above regard.

21.3 No provision in a contract shall be deemed to prohibit the obtaining of goods from a national department, provincial department, or a local authority.

22. Penalties

Delete clause 22.1 and replace with the following:

22.1 Subject to GCC Clause 25, if the supplier fails to deliver any or all of the goods within the period(s) specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as a penalty, a sum as stated herein for each day of the delay until actual delivery or performance.

The penalty for this contract shall be 1% upto a maximum of 5%(in total) of the value of the applicable purchase order (Excluding Vat) for every month that supply and/or fitment does not commence based on the agreed project timeline / delivery confirmation as agreed at the time the official purchase order was issued. A Credit Note for the total penalty value must be submitted on completion of the Purchase Order requirements.

For example: Project timeline / delivery confirmation of 4 Months on a Purchase order value of

R10,000.00 (Excl Vat)

Month 1 – 4:	No penalty	
Month 5:	Failed to deliver / commence	R10,000.00 x 1% = R100 (Credit note)
Month 6:	Failed to deliver / commence	R10,000.00 x 1% = R100 (Credit note)
Month 7:	Failed to deliver / commence	R10,000.00 x 1% = R100 (Credit note)

The credit note would Total R300 if supply and/fitment is completed **in** Month 7]

22.2 The purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, financial penalties as contained on the **Preference Schedule** relaying to breaches of the conditions upon which preference points were awarded.

23. Termination for default

Delete the heading of clause 23 and replace with the following:

23. Termination

Add the following to the end of clause 23.1:

if the supplier fails to remedy the breach in terms of such notice

Add the following after clause 23.7:

23.8 In addition to the grounds for termination due to default by the supplier, the contract may also be terminated:

23.8.1 Upon the death of the supplier who was a Sole Proprietor, or a sole member of a Close Corporation, in which case the contract will terminate forthwith.

23.8.2 The parties by mutual agreement terminate the contract.

23.8.3 If an Order has been issued incorrectly, or to the incorrect recipient, the resulting contract may be terminated by the purchaser by written notice

23.8.4 If a material irregularity vitiates the procurement process leading to the conclusion of the contract, rendering the procurement process and the conclusion of the resulting contract unfair, inequitable, non-transparent, uncompetitive or not cost-effective, provided the City Manager follows the processes as described in the purchasers SCM Policy.

23.8.5 After providing notice to the supplier, if the implementation of the contract may result in reputational risk or harm to the City as a result of (inter alia):

23.8.5.1 reports of poor governance and/or unethical behaviour;
23.8.5.2 association with known family of notorious individuals;
23.8.5.3 poor performance issues, known to the Employer;
23.8.5.4 negative social media reports; or
23.8.5.5 adverse assurance (e.g. due diligence) report outcomes..

23.9 If the contract is terminated in terms of clause 23.8, all obligations that were due and enforceable prior to the date of the termination must be performed by the relevant party.

26. Termination for insolvency

Delete clause 26.1 and replace with the following:

26.1 The purchaser may make either of the following elections to ensure its rights are protected and any negative impact on service delivery is mitigated:

26.1.1 accept a supplier proposal (via the liquidator) to render delivery utilising the appropriate contractual mechanisms; or

26.1.2 terminate the contract, as the liquidator proposed supplier is deemed unacceptable to the purchaser, at any time by giving written notice to the supplier (via the liquidator).

26.2 Termination will be without compensation to the supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

27. Settlement of Disputes

Amend clause 27.1 as follows:

27.1 If any dispute or difference of any kind whatsoever, with the exception of termination in terms of clause 23.1(c), arises between the purchaser and the supplier in connection with or arising out of the contract, the parties shall make every effort to resolve such dispute or difference amicably, by mutual consultation.

Delete Clause 27.2 in its entirety and replace with the following:

27.2 Should the parties fail to resolve any dispute by way of mutual consultation, either party shall be entitled to refer the matter for mediation before an independent and impartial person appointed by the City Manager in accordance with Regulation 50(1) of the Local Government: Municipal Finance Management Act, 56 of 2003 – Municipal Supply Chain Management Regulations (Notice 868 of 2005). Such referral shall be done by either party giving written notice to the other of its intention to commence with mediation. No mediation may be commenced unless such notice is given to the other party.

Irrespective whether the mediation resolves the dispute, the parties shall bear their own costs concerning the mediation and share the costs of the mediator and related costs equally.

The mediator shall agree the procedures, representation and dates for the mediation process with the parties. The mediator may meet the parties together or individually to enable a settlement.

Where the parties reach settlement of the dispute or any part thereof, the mediator shall record such agreement and on signing thereof by the parties the agreement shall be final and binding.

Save for reference to any portion of any settlement or decision which has been agreed to be final and binding on the parties, no reference shall be made by or on behalf of either party in any subsequent court proceedings, to any outcome of an amicable settlement by mutual consultation, or the fact that any particular evidence was given, or to any submission, statement or admission made in the course of amicable settlement by mutual consultation or mediation.

28. Limitation of Liability

Delete clause 28.1 (b) and replace with the following:

(b) the aggregate liability of the supplier to the purchaser, whether under the contract, in tort or otherwise, shall not exceed the sums insured in terms of clause 11 in respect of insurable events, or where no such amounts are stated, to an amount equal to twice the contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.

Add the following after clause 28.1:

28.2 Without detracting from, and in addition to, any of the other indemnities in this contract, the supplier

shall be solely liable for and hereby indemnifies and holds harmless the purchaser against all claims, charges, damages, costs, actions, liability, demands and/or proceedings and expense in connection with:

a) personal injury or loss of life to any individual;
b) loss of or damage to property;

arising from, out of, or in connection with the performance by the supplier in terms of this Contract, save to the extent caused by the gross negligence or wilful misconduct of the purchaser.

28.3 The supplier and/or its employees, agents, concessionaires, suppliers, sub-contractors or customers shall not have any claim of any nature against the purchaser for any loss, damage, injury or death which any of them may directly or indirectly suffer, whether or not such loss, damages, injury or death is caused through negligence of the purchaser or its agents or employees.

28.4 Notwithstanding anything to the contrary contained in this Contract, under no circumstances whatsoever, including as a result of its negligent (including grossly negligent) acts or omissions or those of its servants, agents or contractors or other persons for whom in law it may be liable, shall any party or its servants (in whose favour this constitutes a *stipulatio alteri*) be liable for any indirect, extrinsic, special, penal, punitive, exemplary or consequential loss or damage of any kind whatsoever, whether or not the loss was actually foreseen or reasonably foreseeable), sustained by the other party, its directors and/or servants, including but not limited to any loss of profits, loss of operation time, corruption or loss of information and/or loss of contracts.

28.5 Each party agrees to waive all claims against the other insofar as the aggregate of compensation which might otherwise be payable exceeds the aforesaid maximum amounts payable.

31. Notices

Delete clauses 31.1 and 31.2 and replace with the following:

31.1 Any notice, request, consent, approvals or other communications made between the Parties pursuant to the Contract shall be in writing and forwarded to the addresses specified in the contract and may be given as set out hereunder and shall be deemed to have been received when:
a) hand delivered – on the working day of delivery
b) sent by registered mail – five (5) working days after mailing
c) sent by email or telefax – one (1) working day after transmission

32. Taxes and Duties

Delete the final sentence of 32.3 and replace with the following:

In this regard, it is the responsibility of the supplier to submit documentary evidence in the form of a valid Tax Clearance Certificate issued by SARS to the CCT at the Supplier Management Unit located within the Supplier Management / Registration Office, 2nd Floor (Concourse Level), Civic Centre, 12 Hertzog Boulevard, Cape Town (Tel 021 400 9242/3/4/5).

Add the following after clause 32.3:

32.4 The **VAT registration** number of the City of Cape Town is **4500193497**.

ADDITIONAL CONDITIONS OF CONTRACT

Add the following Clause after Clause 34:

35. Reporting Obligations.

35.1 The supplier shall complete, sign and submit with each delivery note, all the documents as required in the Specifications. Any failure in this regard may result in a delay in the processing of any payments.

36. ESTABLISHMENT OF A OEM ACCREDITED WORKSHOP FACILITY OR FACILITIES FOR THE SUPPORT, REPAIRS AND MAINTENANCE ACTIVITIES OF THE TRUCK CHASSIS, AERIAL PLATFORM AND FITMENT ACCESSORIES AS SPECIFIED WITHIN THE GEOGRAPHICAL BOUNDARIES OF THE CITY OF CAPE TOWN, WITHIN NINETY (90) DAYS FROM COMMENCEMENT OF CONTRACT.

36.1 The supplier must within ninety (90) days from commencement of the contract, establish a Workshop Facility or submit proof of a agreement for the support, repair and maintenance of the ITEM 1 AND ITEM 2 within the Geographical Boundaries of the City of Cape Town (a graphic depiction of the aforesaid Geographical Boundaries is attached to the Specifications marked **Adendum '1'.)**

36.2 The City of Cape Town shall perform only one (1) technical assessment of the Workshop Facility mentioned in clause 36.1 above, to confirm that it complies with the requirements set out and otherwise meets the requirements necessary for the supplier to render the support, repairs and maintenance services contemplated in this contract and to meet its obligations. Only once the compliance of the Workshop Facilities and/or agreements has been confirmed in full by the City of Cape Town, after the aforementioned technical assessment, will work be allocated to the supplier in terms of this contract. Should the supplier fail to establish a Workshop Facility and/or agreements which complies with the aforementioned requirements, within the ninety (90) days mentioned in clause 36.1 above or a reduced period as contemplated in clause 36.3 below, this shall be a material breach of the contract and the City shall be entitled to terminate the contract forthwith and without further notice to the supplier.The date on which the aforementioned technical assessment shall be held, will not exceed two (2) weeks from expire of the ninety (90) days period.

36.3 The supplier may inform the City of Cape Town that it is ready for the technical assessment referred to in clause 36.2 above, earlier than the ninety (90) day period mentioned in clause 36.1 above, in which case the supplier shall forfeit the remaining days of the aforementioned period and the City of Cape Town shall be entitled to conduct the technical assessment at an agreed date and time between the parties, which shall not exceed two (2) weeks from receipt from the suppliers notification in terms of this clause.

36.4 The supplier shall cooperate fully and in good faith with the City of Cape Town in arranging for and assisting the City of Cape Town with the technical assessment referred to in clause 36.2 above, including but not limited to providing the City of Cape Town with access to all parts of the Workshop Facility and/or agreements during that assessment and demonstrating to the City all aspects of the Facility relevant for the aforementioned technical assessment.

36.5 Notwithstanding the contents of 36.1 to 36.4 above, the City of Cape Town reserves the right, at its sole discretion and on fourteen (14) days notice, to peform technical assessments of the Workshop Facility and/or agreements during the tenure of the contract as and when required, to ensure that the Workshop Facility and/or agreements meets the requirements for the support, repairs and servicing of the specified items and otherwise meets the requirements necessary for the supplier to render the services contemplated in this contract and to meet its obligations. Should the outcome of the technical assessment be that the Workshop Facility and/or agreements is not compliant with the aforesaid requirement, this shall be a material breach of the contract.

36.6 The supplier shall submit to the City of Cape Town all documents as requested in the Specification as well as the responsive criteria mentioned in the tender document.

(8) GENERAL CONDITIONS OF CONTRACT

(National Treasury - General Conditions of Contract (revised July 2010))

TABLE OF CLAUSES

1. Definitions

1. The following terms shall be interpreted as indicated:

1.1 'Closing time' means the date and hour specified in the bidding documents for the receipt of bids.

1.2 'Contract' means the written agreement entered into between the purchaser and the supplier, as recorded in the contract form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

1.3 'Contract price' means the price payable to the supplier under the contract for the full and proper performance of his or her contractual obligations.

1.4 'Corrupt practice' means the offering, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.

1.5 'Countervailing duties' are imposed in cases in which an enterprise abroad is subsidised by its government and encouraged to market its products internationally.

1.6 'Country of origin' means the place where the goods were mined, grown or produced or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembly of components, a commercially recognised new product results that is substantially different in basic characteristics or in purpose or utility from its components.

1.7 'Day' means calendar day.

1.8 'Delivery' means delivery in compliance with the conditions of the contract or order.

1.9 'Delivery ex stock' means immediate delivery directly from stock actually on hand.

1.10 'Delivery into consignee's store or to his site' means delivered and unloaded in the specified store or depot or on the specified site in compliance with the conditions of the contract or order, the supplier bearing all risks and charges involved until the supplies are so delivered and a valid receipt is obtained.

1.11 'Dumping' occurs when a private enterprise abroad markets its goods on its own initiative in the RSA at lower prices than that of the country of origin, and which action has the potential to harm the local industries in the RSA.

1.12 'Force majeure' means an event beyond the control of the supplier, not involving the supplier's fault or negligence, and not foreseeable. Such events may include, but are not restricted to, acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.

1.13 'Fraudulent practice' means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any bidder, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the bidder of the benefits of free and open competition.

1.14 'GCC' means the General Conditions of Contract.

1.15 'Goods' means all of the equipment, machinery, and/or other materials that the supplier is required to supply to the purchaser under the contract.

1.16 'Imported content' means that portion of the bidding price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or his subcontractors) and
which costs are inclusive of the costs abroad, plus freight and other direct importation costs such as landing costs, dock dues, import duty, sales duty or other similar tax or duty at the South African place of entry as well as transportation and handling charges to the factory in the Republic where the supplies covered by the bid will be manufactured.

1.17 'Local content' means that portion of the bidding price which is not included in the imported content, provided that local manufacture does take place.

1.18 'Manufacture' means the production of products in a factory using labour, materials, components and machinery, and includes other, related value-adding activities.

1.19 'Order' means an official written order issued for the supply of goods or works or the rendering of a service.

1.20 'Project site', where applicable, means the place indicated in bidding documents.

1.21 'Purchaser' means the organisation purchasing the goods.

1.22 'Republic' means the Republic of South Africa.

1.23 'SCC' means the Special Conditions of Contract.

1.24 'Services' means those functional services ancillary to the supply of the goods, such as transportation and any other incidental services, such as installation, commissioning, provision of technical assistance, training, catering, gardening, security, maintenance, and other such obligations of the supplier covered under the contract.

1.25 'Written' or 'in writing' means handwritten in ink or any form of electronic or mechanical writing.

2. Application

2.1 These general conditions are applicable to all bids, contracts and orders, including bids for functional and professional services, sales, hiring, letting and the granting or acquiring of rights, but excluding immovable property, unless otherwise indicated in the bidding documents.

2.2 Where applicable, special conditions of contract are also laid down to cover specific supplies, services or works.

2.3 Where such special conditions of contract are in conflict with these general conditions, the special conditions shall apply.

3. General

3.1 Unless otherwise indicated in the bidding documents, the purchaser shall not be liable for any expense incurred in the preparation and submission of a bid. Where applicable, a non-refundable fee for documents may be charged.

3.2 With certain exceptions, invitations to bid are only published in the Government Tender Bulletin. The Government Tender Bulletin may be obtained directly from the Government Printer, Private Bag X85, Pretoria 0001, or accessed electronically from www.treasury.gov.za.

4. Standards

4.1 The goods supplied shall conform to the standards mentioned in the bidding documents and specifications.

5. Use of contract documents and information; inspection.

5.1 The supplier shall not, without the purchaser's prior written consent, disclose the contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the purchaser in connection therewith, to any person other than a person employed by the supplier in the performance of the contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for the purposes of such performance.

5.2 The supplier shall not, without the purchaser's prior written consent, make use of any document or information mentioned in GCC clause 5.1, except for purposes of performing the contract.

5.3 Any document, other than the contract itself, mentioned in GCC clause 5.1 shall remain the property of the purchaser and shall be returned (all copies) to the purchaser on completion of the supplier's performance under the contract if so required by the purchaser.

5.4 The supplier shall permit the purchaser to inspect the supplier's records relating to the performance of the supplier and to have them audited by auditors appointed by the purchaser, if so required by the purchaser.

6. Patent rights

6.1 The supplier shall indemnify the purchaser against all third-party claims of infringement of patent, trademark, or industrial design rights arising from the use of the goods or any part thereof by the purchaser.

7. Performance Security

7.1 Within 30 (thirty) days of receipt of the notification of contract award, the successful bidder shall furnish to the purchaser the performance security of the amount specified in the SCC.

7.2 The proceeds of the performance security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete his obligations under the contract.

7.2 The performance security shall be denominated in the currency of the contract or in a freely convertible currency acceptable to the purchaser, and shall be in one of the following forms:

a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the purchaser's country or abroad, acceptable to the purchaser, in the form provided in the bidding documents or another form acceptable to the purchaser; or
b) a cashier's or certified cheque.

7.4 The performance security will be discharged by the purchaser and returned to the supplier not later than 30 (thirty) days following the date of completion of the supplier's performance obligations under the contract, including any warranty obligations, unless otherwise specified in the SCC.

8. Inspections, tests and analyses

8.1 All pre-bidding testing will be for the account of the bidder.

8.2 If it is a bid condition that supplies to be produced or services to be rendered should at any stage during production or execution or on completion be subject to inspection, the premises of the bidder or contractor shall be open, at all reasonable hours, for inspection by a representative of the Department or an organisation acting on behalf of the Department.

8.3 If there are no inspection requirements indicated in the bidding documents and no mention of such is made in the contract, but during the contract period it is decided that inspections shall be carried out, the purchaser shall itself make the necessary arrangements, including payment arrangements with the testing authority concerned.

8.4 If the inspections, tests and analyses referred to in clauses 8.2 and 8.3 show the supplies to be in accordance with the contract requirements, the cost of the inspections, tests and analyses shall be defrayed by the purchaser.

8.5 Where the supplies or services referred to in clauses 8.2 and 8.3 do not comply with the contract requirements, irrespective of whether such supplies or services are accepted or not, the cost in connection with these inspections, tests or analyses shall be defrayed by the supplier.

8.6 Supplies and services which are referred to in clauses 8.2 and 8.3 and which do not comply with the contract requirements may be rejected.

8.7 Any contract supplies may on or after delivery be inspected, tested or analysed and may be rejected if found not to comply with the requirements of the contract. Such rejected supplies shall be held at the cost and risk of the supplier, who shall, when called upon, remove them immediately at his own cost and forthwith substitute them with supplies which do comply with the requirements of the contract. Failing such removal, the rejected supplies shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute supplies forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected supplies, purchase such supplies as may be necessary at the expense of the supplier.

8.8 The provisions of clauses 8.4 to 8.7 shall not prejudice the right of the purchaser to cancel the contract on account of a breach of the conditions thereof, or to act in terms of Clause 23 of the GCC.

9. Packing

9.1 The supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing, case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.

9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the contract, including additional requirements, if any, specified in the SCC, and in any subsequent instructions ordered by the purchaser.

10. Delivery and documents

10.1 Delivery of the goods shall be made by the supplier in accordance with the terms specified in the contract. The details of shipping and/or other documents to be furnished by the supplier are specified in the SCC.

10.2 Documents to be submitted by the supplier are specified in the SCC.

11. Insurance

11.1 The goods supplied under the contract shall be fully insured, in a freely convertible currency, against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in the SCC.

12. Transportation

12.1 Should a price other than an all-inclusive delivered price be required, this shall be specified in the SCC.

13. Incidental Services

13.1 The supplier may be required to provide any or all of the following services, including additional services (if any) specified in the SCC:

(a) performance or supervision of on-site assembly, and/or commissioning of the supplied goods;
(b) furnishing of tools required for the assembly and/or maintenance of the supplied goods;
(c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods;
(d) performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed by the parties, provided that this service shall not relieve the supplier of any warranty obligations under this contract; and
(e) training of the purchaser's personnel, at the supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied goods.

13.2 Prices charged by the supplier for incidental services, if not included in the contract price for the goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the supplier for similar services.

14. Spare parts

14.1 As specified in the SCC, the supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the supplier:

(a) such spare parts as the purchaser may elect to purchase from the supplier, provided that this election shall not relieve the supplier of any warranty obligations under the contract; and
(b) in the event of termination of production of the spare parts:

(i) Advance notification to the purchaser of the pending termination, in sufficient time to permit the purchaser to procure needed requirements; and

(ii) following such termination, furnishing at no cost to the purchaser, the blueprints, drawings, and specifications of the spare parts, if requested.

15. Warranty

15.1 The supplier warrants that the goods supplied under the contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the contract. The supplier further warrants that all goods supplied under this contract shall have no defect arising from design, materials, or workmanship (except when the design and/or material is required by the purchaser's specifications), or from any act or

omission of the supplier, that may develop under normal use of the supplied goods in the conditions prevailing in the country of final destination.

15.2 This warranty shall remain valid for 12 (twelve) months after the goods, or any portion thereof, as the case may be, have been delivered to and accepted at the final destination indicated in the contract, or for 18 (eighteen) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in the SCC.

15.3 The purchaser shall notify the supplier promptly, in writing, of any claims arising under this warranty.

15.4 Upon receipt of such notice, the supplier shall, within the period specified in the SCC and with all reasonable speed, repair or replace the defective goods or parts thereof, without costs to the purchaser.

15.5 If the supplier, having been notified, fails to remedy the defect(s) within the period specified in the SCC, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights which the purchaser may have against the supplier under the contract.

16. Payment

16.1 The method and conditions of payment to be made to the supplier under this contract shall be specified in the SCC.

16.2 The supplier shall furnish the purchaser with an invoice accompanied by a copy of the delivery note and upon fulfilment of any other obligations stipulated in the contract.

16.3 Payments shall be made promptly by the purchaser, but in no case later than 30 (thirty) days after submission of an invoice or claim by the supplier.

16.4 Payment will be made in Rand unless otherwise stipulated in the SCC.

17. Prices

17.1 Prices charged by the supplier for goods delivered and services performed under the contract shall not vary from the prices tendered by the supplier in his bid, with the exception of any price adjustments authorized in the SCC or in the purchaser's request for bid validity extension, as the case may be.

18. Contract Amendments

18.1 No variation in or modification of the terms of the contract shall be made except by written amendment signed by the parties concerned.

19. Assignment

19.1 The supplier shall not assign, in whole or in part, its obligations to perform under the contract, except with the purchaser's prior written consent.

20. Subcontracts

20.1 The supplier shall notify the purchaser in writing of all subcontracts awarded under this contract if not already specified in the bid. Such notification, in the original bid or later, shall not relieve the supplier from any liability or obligation under the contract.

21. Delays in the supplier's performance

21.1 Delivery of the goods and performance of services shall be made by the supplier in accordance with the time schedule prescribed by the purchaser in the contract.

21.2 If at any time during the performance of the contract, the supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of services, the supplier shall promptly

notify the purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may at his or her discretion extend the supplier's time for performance, with or without the imposition of penalties, in which case the extension shall be ratified by the parties by amendment of contract.

21.3 No provision in a contract shall be deemed to prohibit the obtaining of supplies or services from a national department, provincial department, or a local authority.

21.4 The right is reserved to procure, outside of the contract, small quantities of supplies; or to have minor essential services executed if an emergency arises, or the supplier's point of supply is not situated at or near the place where the supplies are required, or the supplier's services are not readily available.

21.5 Except as provided under GCC Clause 25, a delay by the supplier in the performance of its delivery obligations shall render the supplier liable to the imposition of penalties, pursuant to GCC Clause 22, unless an extension of time is agreed upon pursuant to GCC Clause 21.2 without the application of penalties.

21.6 Upon any delay beyond the delivery period in the case of a supplies contract, the purchaser shall, without cancelling the contract, be entitled to purchase supplies of a similar quality and up to the same quantity in
substitution of the goods not supplied in conformity with the contract and to return any goods delivered later at the supplier's expense and risk, or to cancel the contract and buy such goods as may be required to complete the contract and, without prejudice to his other rights, be entitled to claim damages from the supplier.

22. Penalties

22.1 Subject to GCC Clause 25, if the supplier fails to deliver any or all of the goods or to perform the services within the period(s) specified in the contract, the purchaser shall, without prejudice to its other remedies under the contract, deduct from the contract price, as a penalty, a sum calculated on the delivered price of the delayed goods or unperformed services, using the current prime interest rate, calculated for each day of the delay until actual delivery or performance. The purchaser may also consider termination of the contract pursuant to GCC Clause 23.

23. Termination for default

23.1 The purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, may terminate this contract in whole or in part:

(a) if the supplier fails to deliver any or all of the goods within the period(s) specified in the contract, or within any extension thereof granted by the purchaser pursuant to GCC Clause 21.2;
(b) if the supplier fails to perform any other obligation(s) under the contract; or
(c) if the supplier, in the judgment of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.

23.2 In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms and in such manner as it deems appropriate, goods, works or services similar to those undelivered, and the supplier shall be liable to the purchaser for any excess costs for such similar goods, works or services. However, the supplier shall continue performance of the contract to the extent not terminated.

23.3 Where the purchaser terminates the contract in whole or in part, the purchaser may decide to impose a restriction penalty on the supplier by prohibiting such supplier from doing business with the public sector for a period not exceeding 10 years.

23.4 If a purchaser intends imposing a restriction on a supplier or any person associated with the supplier, the supplier will be allowed a time period of not more than 14 (fourteen) days to provide reasons why the envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated 14 (fourteen) days the purchaser may regard the intended penalty as not objected against and may impose it on the supplier.

23.5 Any restriction imposed on any person by the Accounting Officer/Authority will, at the discretion of the Accounting Officer/Authority, also be applicable to any other enterprise or any partner, manager, director or other person who wholly or partly exercises or exercised or may exercise control over the enterprise of the first-mentioned person, and with which enterprise or person the first-mentioned person is or was, in the opinion of the Accounting Officer/Authority, actively associated.

23.6 If a restriction is imposed, the purchaser must, within 5 (five) working days of such imposition, furnish the National Treasury with the following information:
(i) the name and address of the supplier and/or person restricted by the purchaser;
(ii) the date of commencement of the restriction;
(iii) the period of restriction; and
(iv) the reasons for the restriction.

These details will be loaded in the National Treasury's central database of suppliers or persons prohibited from doing business with the public sector.

23.7 If a court of law convicts a person of an offence as contemplated in sections 12 or 13 of the Prevention and Combating of Corrupt Activities Act, Act 12 of 2004, the court may also rule that such person's name be endorsed on the Register for Tender Defaulters. When a person's name has been endorsed on the Register, the person will be prohibited from doing business with the public sector for a period of not less than five years and not more than 10 years. The National Treasury is empowered to determine the period of restriction, and each case will be dealt with on its own merits. According to section 32 of the Act the Register must be open to the public. The Register can be perused on the National Treasury website.

24. Anti-dumping and countervailing duties and rights

24.1 When, after the date of bid, provisional payments are required, or anti-dumping or countervailing duties are imposed, or the amount of a provisional payment or anti-dumping or countervailing right is increased in respect of any dumped or subsidised import, the State is not liable for any amount so required or imposed, or for the amount of any such increase. When, after the said date, such a provisional payment is no longer required or any such anti-dumping or countervailing right is abolished, or where the amount of such provisional payment or any such right is reduced, any such favourable difference shall, on demand, be paid forthwith by the contractor to the State, or the State may deduct such amounts from moneys (if any) which may otherwise be due to the contractor in regard to supplies or services which he or she delivered or rendered, or is to deliver or render in terms of the contract or any other contract or any other amount which may be due to him or her.

25. Force majeure

25.1 Notwithstanding the provisions of GCC Clauses 22 and 23, the supplier shall not be liable for forfeiture of its performance security, damages, or termination for default if, and to the extent that, his delay in performance or other failure to perform his obligations under the contract is the result of an event of force majeure.

25.2 If a force majeure situation arises, the supplier shall notify the purchaser promptly, in writing, of such condition and the cause thereof. Unless otherwise directed by the purchaser in writing, the supplier shall continue to perform its obligations under the contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

26. Termination for insolvency

26.1 The purchaser may at any time terminate the contract by giving written notice to the supplier if the supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the purchaser.

27. Settlement of Disputes

27.1 If any dispute or difference of any kind whatsoever arises between the purchaser and the supplier in connection with or arising out of the contract, the parties shall make every effort to resolve such dispute or difference amicably, by mutual consultation.

27.2 If, after 30 (thirty) days, the parties have failed to resolve their dispute or difference by such mutual consultation, then either the purchaser or the supplier may give notice to the other party of his intention to commence with mediation. No mediation in respect of this matter may be commenced unless such notice is given to the other party.

27.3 Should it not be possible to settle a dispute by means of mediation, it may be settled in a South African court of law.

27.4 Mediation proceedings shall be conducted in accordance with the rules of procedure specified in the SCC.

27.5 Notwithstanding any reference to mediation and/or court proceedings herein,

(a) the parties shall continue to perform their respective obligations under the contract unless they otherwise agree; and
(b) the purchaser shall pay the supplier any monies due to the supplier.

28. Limitation of Liability

28.1 Except in cases of criminal negligence or wilful misconduct, and in the case of infringement pursuant to Clause 6:

(a) the supplier shall not be liable to the purchaser, whether in contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the supplier to pay penalties and/or damages to the purchaser; and
(b) the aggregate liability of the supplier to the purchaser, whether under the contract, in tort or otherwise, shall not exceed the total contract price, provided that this limitation shall not apply to the cost of repairing or replacing defective equipment.

29. Governing language

29.1 The contract shall be written in English. All correspondence and other documents pertaining to the contract that is exchanged by the parties shall also be written in English.

30. Applicable Law

30.1 The contract shall be interpreted in accordance with South African laws, unless otherwise specified in the SCC.

31. Notices

31.1 Every written acceptance of a bid shall be posted to the supplier concerned by registered or certified mail, and any other notice to him shall be posted by ordinary mail, to the address furnished in his bid or to the address notified later by him in writing; and such posting shall be deemed to be proper service of such notice.

31.2 The time mentioned in the contract documents for performing any act after such aforesaid notice has been given, shall be reckoned from the date of posting of such notice.

32. Taxes and Duties

32.1 A foreign supplier shall be entirely responsible for all taxes, stamp duties, licence fees, and other such levies imposed outside the purchaser's country.

32.2 A local supplier shall be entirely responsible for all taxes, duties, licence fees, etc., incurred until delivery of the contracted goods to the purchaser.

32.3 No contract shall be concluded with any bidder whose tax matters are not in order. Prior to the award of a bid the Department must be in possession of a tax clearance certificate submitted by the bidder. This certificate must be an original issued by the South African Revenue Services.

33. National Industrial Participation (NIP) Programme

33.1 The NIP Programme administered by the Department of Trade and Industry shall be applicable to all contracts that are subject to the NIP obligation.

34 Prohibition of Restrictive practices

34.1 In terms of section 4 (1) (b) (iii) of the Competition Act, Act 89 of 1998, as amended, an agreement between or concerted practice by firms, or a decision by an association of firms, is prohibited if it is between parties in a horizontal relationship and if a bidder(s) is/are or a contractor(s) was/were involved in collusive bidding (or bid rigging).

34.2 If a bidder(s) or contractor(s), based on reasonable grounds or evidence obtained by the purchaser, has/have engaged in the restrictive practice referred to above, the purchaser may refer the matter to the Competition Commission for investigation and possible imposition of administrative penalties as contemplated in the Competition Act, Act 89 of 1998.

34.3 If a bidder(s) or contractor(s) has/have been found guilty by the Competition Commission of the restrictive practice referred to above, the purchaser may, in addition and without prejudice to any other remedy provided for, invalidate the bid(s) for such item(s) offered, and/or terminate the contract in whole or part, and/or restrict the bidder(s) or contractor(s) from conducting business with the public sector for a period not exceeding 10 (ten) years and/or claim damages from the bidder(s) or contractor(s) concerned.

(9) FORM OF GUARANTEE / PERFORMANCE SECURITY

Not applicable

(10) FORM OF ADVANCE PAYMENT GUARANTEE

Not applicable

(10.1) ADVANCE PAYMENT SCHEDULE

Not applicable

(11) OCCUPATIONAL HEALTH AND SAFETY AGREEMENT

AGREEMENT MADE AND ENTERED INTO BETWEEN THE CITY OF CAPE TOWN (HEREINAFTER CALLED THE "CCT") AND

……..……..…… ,
(Supplier/Mandatary/Company/CC Name)

IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, 85 OF 1993 AS AMENDED.

I, ……..……..……. ,
representing

……..……..……. , as an employer
in its own right, do hereby undertake to ensure, as far as is reasonably practicable, that all work will be performed, and all equipment, machinery or plant used in such a manner as to comply with the provisions of the Occupational Health and Safety Act (OHSA) and the Regulations promulgated thereunder.

I furthermore confirm that I am/we are registered with the Compensation Commissioner and that all registration and assessment monies due to the Compensation Commissioner have been fully paid or that I/We are insured with an approved licensed compensation insurer.

COID ACT Registration Number: ……..

OR Compensation Insurer: ..... Policy No.: .....

I undertake to appoint, where required, suitable competent persons, in writing, in terms of the requirements of OHSA and the Regulations and to charge him/them with the duty of ensuring that the provisions of OHSA and Regulations as well as the Council's Special Conditions of Contract, Way Leave, Lock-Out and Work Permit Procedures are adhered to as far as reasonably practicable.

I further undertake to ensure that any subcontractors employed by me will enter into an occupational health and safety agreement separately, and that such subcontractors comply with the conditions set.

I hereby declare that I have read and understand the Occupational Health and Safety Specifications contained in this tender and undertake to comply therewith at all times.

I hereby also undertake to comply with the Occupational Health and Safety Specification and Plan submitted and approved in terms thereof.

Signed at .....on the.....day of.....20….

_____ _____
Witness **Mandatary**

Signed at ..... on the.....day of.....20 ....

_____ _____
Witness for and on behalf of
City of Cape Town

(12) INSURANCE BROKER'S WARRANTY (PRO FORMA)

Logo

Letterhead of supplier's Insurance Broker

Date _____

CITY OF CAPE TOWN
City Manager
Civic Centre
12 Hertzog Boulevard
Cape Town
8000

Dear Sir

TENDER NO.: **396G/2022/23**

TENDER DESCRIPTION: THE SUPPLY AND DELIVERY OF VARIOUS TRUCKS WITH AERIAL PLATFORMS

NAME OF SUPPLIER: _____

I, the undersigned, do hereby confirm and warrant that all the insurances required in terms of the abovementioned contract have been issued and/or in the case of blanket/umbrella policies, have been endorsed to reflect the interests of the CITY OF CAPE TOWN with regard to the abovementioned contract, and that all the insurances and endorsements, etc., are all in accordance with the requirements of the contract.

I furthermore confirm that all premiums in the above regard have been paid.

Yours faithfully

Signed: _____

For: _____ (Supplier's Insurance Broker)

(13) SPECIFICATION T2.1 TRUCK 4 X 2 WITH FITTED 15 M AP

CITY OF CAPE TOWN
ELECTRICITY ENERGY AND DISTRIBUTION

This Schedule of Technical Data must be fully completed and submitted with each offer, simply to state "comply" or "noted" is not sufficient, full details must be given.

SPECIFICATION T2.1

TRUCK 4 x 2 WITH FITTED 15 M AERIAL PLATFORM

SPECIFIED T 2.1	**DETAILS OF OFFER:**
T2.1 Scope of Specification	
This specification provides for the supply of heavy-duty, 2 axle, diesel powered platform trucks fitted with 15 M telescopic aerial platforms conforming to the technical specification below.	
The vehicles are required for general electrical infrastructure maintenance within the CITY OF CAPE TOWN'S geographical boundaries. The supplied vehicle / aerial platforms combination shall be designed for and be capable of efficient and satisfactory operation under all South African weather conditions.	
Tenderers are to state here their choice of vehicle and aerial platform offered complying with the technical specifications as found in clauses 1 – 58 below.	
Vehicle: Make, Model	……
Aerial Platform: Make, Model	……
PROFESSIONAL PDF DOCUMENTS	
It is required that the tender document be completed in ink.	
All documentation including that of the tender submission such as OEM brochures, technical drawings etc. must be in the English language and properly assembled in an appropriate lever arch file with the bidders company name, tender number and description and clearly labelled, indicating the various sections.	……
All documents submitted must in addition be scanned in PDF format and be submitted on a standard USB flash drive that is to be clearly labelled with the bidders company name, tender number and description.	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
1.	**T2.1 applicable standards**	
	The latest standard shall apply.	
1.1.	SANS 1055:2007 : Under run bumper	
1.2.	SANS 1091:2012 : National colour standard	
1.3.	SANS 1207:1998 Latest : Brakes	
1.4.	SANS 1327:2004 : 7 pin trailer socket	
1.5.	SANS 1329:4:2004 : Retro-reflective signs.	
1.6.	SANS 1496:2017 : Wheel Flaps	
1.7.	SANS 1517:2005 : Lubricating oil diesel engines	
1.8.	SANS 1550-1:2017 : Motor vehicle tyres and rims.	
1.9.	SANS 1700 : Fasteners	
1.10.	SANS 8501-3:2008 Preparation of steel substrates	
1.11.	SANS 10013-1:2006 : Internal combustion engines:	
1.12.	SANS 10168:2002 : Seat belts	
1.13.	SANS 10281:2003 : Sound levels	
1.14.	SANS 12944:1998 : Steel corrosion protection.	
1.15.	SANS 16368: 2014 Mobile elevating work platforms	
1.16.	SANS 20049:2009 : Particulate pollutants engines	
1.17.	SANS 20104:1998 : Reflective tape.	
1.18.	Occupational Health and Safety Act No. 85 of 1993	
1.19.	South African Road Traffic Act (Act 89 of 1989)	
1.20.	ANSI/SAIA A92.2 – 2015 : MEWP Elevating Platforms	
1.21.	EN 280:2013 MEWP Elevating Platforms	
2.	**T2.1 Engine**	
2.1.	The vehicle preferably must be equipped with a common rail diesel engine delivering a maximum net output of not less than 100kW and maximum net torque of not less than 400 Nm to SANS 10013-1: 2006 or latest version.	……
a.	Make and model	……
b.	Capacity cc	……cc
c.	Maximum Output not less than 100 kW (kW @ rpm)	……kw……rpm
d.	Maximum Torque not less than 400 Nm (Nm @ rpm)	……Nm……rpm
e.	Emission standard not less than Euro 2	……
f.	BSFC @ Max torque not greater than 220 g/kW/hr	……
2.2.	The engine shall have as standard fitment, an engine protection system monitoring high water temperature, low oil level and low oil pressure.	……
2.3.	**ENVIRONMENTAL COMPLIANCE**	
a.	The vehicle emissions under start up and operating conditions shall comply with the International Euro 2 standard as a minimum. In this context emissions must conform to SANS 20049:2009 or latest version requirements and conformance reflected in attached brochures.	……
b.	As part of the emissions legislation, tenderers are required to demonstrate that the emissions control systems fitted to the proposed vehicles are durable and are able to maintain the vehicle emissions below the legislated limits for the useful life of the vehicle up to 100 000 km.	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
2.4.	**ENGINE PERFORMANCE** The tenderers are to enter the data as requested in the attached table from attached brochures.	……

Engine (r/min)	**1000**	**1200**	**1400**	**1500**	**1600**	**1800**	**2000**	**2200**
Power (kW)								
Torque (Nm)								

3.	**T2.1 Transmission**	
3.1.	A robust transmission using locally supported automatic manual transmission technology is preferably to be fitted. Fully automatic transmissions will however be considered. A PTO provision must be available at a convenient location on the transmission housing.	……
3.2.	The tenderer may offer a fully automated transmission with torque converter and "hot shift" engaged PTO (World Series Allison or equivalent) and is to ensure that the gearbox and engine combination is perfectly matched in all respects and is to provide a SCAAN duty cycle simulation model as documentary proof thereof.	
a.	Make and model	……
3.3.	**GEARBOX PERFORMANCE**	
a.	The maximum speed attainable at V must not be less than 100 km/h.	……

Gear Ratio	**Speed @ max rpm**	**Speed @ max torque**	**Gradeability @ V (%)**	**Gradeability@ D/T (%)**
1				
2				
3				
4				
5				
6				
Rev				

3.4.	**GRADEABILITY**	
a.	A gradeability of not less than 25% at V in first gear is required.	……
a.1	Gradeability @ V	……
4.	**T2.1 Chassis**	
4.1.	A chassis of robust construction with a manufacturer's GVM rating of at least 7 000 kg is required.	……
a.	Wheelbase	……mm
b.	Overall width	……mm
c.	Overall length	……mm
d.	Overall height	……mm
e.	GVM rating	……kg
f.	V rating	……kg

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
5.	**T2.1 Clutch (applicable if amt is offered)**	
	State make and model of clutch, and operation	
a.	Make	……
b.	Model	……
c.	Operation	……
6.	**T2.1 Axles**	
6.1.	**FRONT AXLE** The vehicle must be fitted with heavy-duty double acting shock absorbers at the front.	
a.	Axle make / type	……
b.	Axle capacity	……kg
c.	Spring capacity	……kg
6.2.	**REAR AXLE** The vehicle must be equipped with a heavy-duty rear axle.	
a.	Axle make / type	……
b.	Axle capacity	……kg
c.	Spring capacity	……kg
d.	Final drive ratio	…… : 1
7.	**T2.1 Brakes**	
7.1.	The vehicle must be equipped with a braking system in compliance with the relevant SANS standards (SANS 1207:1998 or the latest version thereof).	……
7.2.	The vehicle must have an ABS brake system as standard fitment.	……
a.	Brake system type (Air, Vac, and Hydraulic.)	……
b.	Emergency / parking brake (wheel operated)	……
c.	ABS brakes	……
8.	**T2.1 Wheels and Tyres**	
8.1.	The vehicle must be fitted with suitably sized steel belt radial tyres of preferably South African manufacture.	……
8.2.	The size and ply rating must be the same and freely available within the geographical boundaries of the City of Cape Town.	……
8.3.	All inner wheels should have valve extensions of the steel braided flexible type	……
8.4.	All tyres including the spare wheel must be of the same manufacture, size and ply rating.	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
8.5.	Tyre loads, as well as tyre to rim matching, must comply with SANS 1550-1:2005 or the latest version thereof.	……
a.	Size and ply rating	……
b.	Load factor	……
c.	Rim size	……mm
d.	Tyre size front	……mm
e.	Tyre size rear	……mm
f.	Quantity	……
g.	Inflation pressure (front) @ V	……kPa
h.	Inflation pressure (rear) @ V	……kPa
9.	**T2.1 Steering**	
9.1.	Power assisted steering is required.	……
a.	Turning circle (curb to curb)	……mm
b.	Turning circle (wall to wall)	……mm
c.	Number of turns lock to lock	……
10.	**T2.1 Chassis Cab**	
10.1.	The cab must be able to tilt forward to expose the engine assembly and facilitate inspection and maintenance.	……
10.2.	The cab is to have sufficient seating for 3 persons with front cab seats fitted with standard seat belts conforming to SANS 10168:2002 or the latest version.	……
10.3.	The driver's seat shall be fully adjustable.	……
10.4.	The steering wheel shall be adjustable for rake and height to facilitate operator comfort	……
10.5.	A 2.5 kg portable type fire extinguishers shall be provided and shall be easily accessible to the operator.	……
10.6.	A warning red pilot light is to be installed on the dashboard to indicate that the PTO is in operation.	……
10.7.	The PTO control switch needs to be clearly marked specifying its function and operation. Dyna tape or any form of stick on label is not acceptable.	……
10.8.	The vehicle is to be fitted with an alarm immobilizer conforming at least to a VESA level 5 standard.	……
10.9.	The alarm /immobilizer system must not rely solely on a key transponder.	……
10.10.	The alarm system has to include an audible alarm which will activate a siren rated at least 120dB, if security on the vehicle is compromised for any reason.	……
10.11.	A sound system incorporating a radio with station identification functionality, aux input, front USB input for mp3 audio is to be installed.	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER	
10.12.	Sturdy firmly braced wheel flaps must be fitted behind the front and the rear wheels. SANS 1496:2001 or latest version.	.....	
10.13.	A sturdy rear under run bumper is required in terms of the South African Road Traffic Act, and must conform to (SANS 1055:2007 or the latest version thereof).	.....	
10.14.	A fuel tank of not less than 80L capacity is required.	.....	
a.	Lockable fuel tank cap is required.	.....	
b.	Fuel tank size	.....	
c.	Lockable fuel tank cap	.....	
10.15.	A factory approved air conditioner shall be supplied as standard fitment.	.....	
11.	**T2.1 Payload Requirements**		
11.1.	The tenderer is to ensure that: V - T is greater or equal to 2000 kg Where :- V - T = minimum payload V = the permissible maximum vehicle mass T = the tare mass of the completed aerial platform with all fitments including maximum fluid levels but **excludes driver and passengers.**	.....	
a.	GVM (not less than 7 000 kg	.....kg	
b.	V (Permissible mass)	.....kg	
c.	T (Tare mass)	.....kg	
d.	V - T (not less than 2 000 kg)	.....kg	
12.	**T2.1 Axle Loading**		
12.1.	Axle loads in kg as set out hereunder, must be stated as accurately as possible.	.....	
12.2.	**VEHICLE , LOADBODY AND PLATFORM**	**FRONT AXLE (kg)**	**REAR AXLE (kg)**
a.	Licencing / Tare mass (T)		
b.	Maximum payload from axle loading software		
c.	Fully laden		
d.	Maximum permissible legal axle mass		
12.3.	Load distribution charts are to be supplied along with tender documents in support of figures in 12.1	.....	
13.	**T2.1 Electrical System**		
13.1.	**ALTERNATOR**		
a.	The vehicle is to be fitted with an alternator capable of charging the battery whilst operating ancillary equipment and auxiliary lighting specified in this tender under engine idling conditions.	.....	

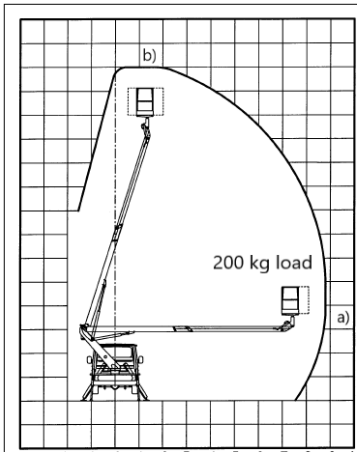
SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
b.	The resultant current draw by the accessories over and above that required by the chassis cab itself, is at least 50A.	……
b.1	Alternator (Volts @ Amps)	……
b.2	Starter motor (Volts , Power)	……
13.2.	**BATTERIES**	
	Batteries shall be deep cycle type, maintenance free and permanently sealed and within a proprietary lockable battery box.	
a.	Make / model	……
b.	Qty	……
c.	Capacity AH	……AH
d.	Lockable battery box	……
13.3.	**ACCESSORIES**	
a.	All accessories to be rated 24V, alternatively a single proprietary 24/12V (Bosch Mobility or equivalent), suitably power rated converter must be fitted to power all 12 V accessories.	……
b.	Under no circumstances must auxiliaries be connected to one battery only.	……
c.	Electrical wiring diagrams detailing accessory connections to be furnished.	……
13.4.	**ACCESORY JUNCTION BOARD**	
a.	It is required that an accessory junction board (RAMM, Safestop or equivalent models) such as that depicted in clause 3.5 of the General Technical Requirements be used for connection of the vehicle accessories.	……
b.	The fitment of the accessory junction board and accessories must in no way compromise the warranty requirements of the vehicle and aerial platform.	……
c.	Easily accessible, appropriately rated resettable fuses must be incorporated into all accessory circuits.	……
13.5.	**T2.1 HOUR METERS**	
a.	An engine hour meter (Siemens VDO 24V or equivalent) which senses the operation of the alternator shall be incorporated in the cab preferably using existing accessory ports.	……
b.	An hour meter is to be connected to the live side of the dash mounted PTO light switch thus registering only when the PTO is activated. The hour meter must not register when the engine is switched off from the aerial platform bucket or the cab.	……
c.	The size of both hour meter displays (engine and aerial platform operation) shall facilitate the ease of reading whilst seated comfortably in the driver's position.	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
13.6.	**LIGHTING**	
a.	The vehicle shall be equipped with lights in accordance with the latest compulsory South African Road Traffic regulations.	……
b.	Vibration free rear light assemblies, (Truck Lite LED type or equivalent) each consisting of a direction indicator / stop / rear position light and housed in sturdy metal protective cages, are required. The front of the cages, consisting of protective metal rods or grid, shall hinge open to allow easy access to the lights.	……
c.	In the event that the indicator flasher rate is altered after installation of the abovementioned LED units, a replacement electronic flasher unit assembly, rather than a load resistor, is the required method of restoring the flashing rate to the factory pre-set rate. The fitment of such a unit shall be factory approved and must in no way impact the chassis cab warranty.	……
13.7.	**ALARM SYSTEM**	
a.	Apart from the normal key transponder and immobilizer to be supplied as standard fitment, an audible alarm system rated at approximately 120dB shall be professionally fitted by a VESA approved agent. All doors to be automatically locked by the transponder.	……
a.1	Make and Model	……
a.2	Accredited agency	……
14.	**T2.1 Paint Specification**	
14.1.	**CHASSIS CAB**	
a.	The truck chassis cab must be finished in factory standard white.	……
b.	The cab is to incorporate a factory standard paint specification utilizing an anti-corrosion dip process and must provide at least three years corrosion protection in a coastal environment.	……
c.	The chassis, drive line components, and under body components are to be black in colour and protected with a proprietary under body coating. i.e. dry ice abrasive blasting then aluminium epoxy mastic such Carbomastic 15 or equivalent. If this coating is not supplied as factory standard then it is to be included in the tendered price.	……
14.2.	**LOAD BODY AND SUB FRAMES**	
a.	The load body, chassis, all under body components, and aerial platform sub frame members must be suitably coated to provide at least 5 years corrosion protection in a coastal environment.	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
b.	The following coating specification shall be adhered to in this regard:-	……
c.	ISO 12944-5:2019 ***Paints and varnishes — Corrosion protection of steel structures by protective paint systems — Part 5: Protective paint systems***	……
c.1.	Environment classification (C5-M) - coastal	……
c.2.	Durability classification (M)	……
d.	The following or equivalent substrate preparation in accordance with the above standard is to be achieved.	
d.1.	ISO 8501-1:2007 ***Preparation of steel substrates before application of paints and related products***	……
d.2.	Primer Coat – Carbomastic 15 or equivalent	……
d.3.	Final Coat – Carboline 134 white or equivalent	……
e.	All inner surfaces and seams on the vehicle must be treated with clear Tectyl or an equivalent rust-preventative material to safeguard the vehicle against rust for at least three years.	……
f.	Any compulsory inspections with regard to the above process will be carried out in the operational area of the vehicle by accredited agencies of the Tenderer.	……
15.	**T2.1 Warranty**	
15.1.	The following are the <u>minimum</u> respective warranty periods acceptable to the City of Cape Town, fair wear and tear excluded.	……
	MINIMUM WARRANTY REQUIREMENTS:	
a.	**Mechanical:**	
a.1.	Chassis cab drive train (2 years or 100000km)	……yrs……km
b.	**Paint and Corrosion Protection**	
b.1.	Load body sub frame (5 years)	……yrs.
b.2.	Cab (3 years)	……yrs.
b.3.	Chassis underbody (5 years)	……yrs.
b.4.	Drive train components (5 years)	……yrs.
15.2.	Full details of any warranties offered should be attached with tender documents.	……
15.3.	Tenderers are expected to accept full responsibility for the complete truck and aerial platform combination and must under-write any guarantees offered by their sub-contractors.	……
16.	**T2.1 Truck service and repair**	
16.1.	Please refer to <u>Special Conditions of Contract section 37</u> for contractual accredited maintenance, servicing, spares and parts outlets.	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
16.2.	The tenderer shall provide estimated maximum repair periods of the following truck components covering warranty and general repairs.	
a.	Major Warranty (Engine, gearbox, differentials etc.)	……days
b.	Minor General (Servicing, brakes, clutch etc.)	……days
17.	**T2.1 Truck spares**	
17.1.	Standardisation and mutual interchangeability of components is essential.	……
17.2.	The tender shall indicate the spares availability and stock holding within South Africa for the make and model of the truck offered.	……
a.	Value of spares holding in South Africa	R……
b.	Spares availability (Major spares - Engine, gearbox etc.)	……%
c.	Spares availability (Minor spares / servicing spares)	……%
17.3.	Fast moving service spares need to be available within the geographical area of City of Cape Town	
a.	Location of spares outlets	……
17.4.	Lead time of spares delivery ex warehouse outside the City of Cape Town geographical boundaries within South Africa.	……days
18.	**T2.1 Chassis Cab Requirements**	
18.1.	Relevant data sheets, engine performance curves, and brochures in support of the specified vehicle must be submitted.	……
18.2.	A general arrangement drawing of the vehicle complete with installed equipment, showing all essential features, dimensions and weight distribution under a full operating cycle is required.	……
18.3.	Essential tools, including a 6-ton hydraulic jack must be provided.	……
19.	**T2.1 Aerial Platform**	
19.1.	It is required that the tenderer install a telescopic aerial platform onto the vehicle matching one of the following standards. The tenderer is to indicate to which standard the offered mobile aerial work platform complies to.	……
a.	SANS 16368: 2014 Mobile elevating work platforms — Design, calculations, safety requirements and test methods	……
b.	ANSI/SAIA A92.2 – 2015 : Vehicle-Mounted Elevating and Rotating Aerial Devices	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
c.	DIN EN 280: 2013 Mobile elevating work platforms: Design calculations - Stability criteria - Construction - Safety - Examinations and tests	……
19.2.	The user / maintenance manuals supplied shall contain a signed declaration by the "responsible entity" (as defined in the standards), confirming the conformance of the aerial platform to this standard as well as to any local or international Safety Directives.	……
19.3.	The aerial platforms offered have to match the aesthetics of the existing City of Cape Town's fleet of aluminium clad aerial platforms. The tenderers are to acquaint themselves with the current aerial platform fleet.	……
19.4.	The compact telescopic aerial work platform shall comprise a turning turret, a fixed length main boom, a hydraulically operated telescopic boom and an operator's bucket, and a robust load body of aluminium construction.	……
19.5.	The major components of the upper boom assembly are an outer boom, a telescoping inner boom, an extension cylinder, an electrical / hydraulic hose carrier system, and slide pads mounted on the inner and outer boom.	……
19.6.	The aerial platform must be fitted onto a full length sub frame and load body and mounted directly onto the vehicle chassis as per the OEM body builders instructions.	……
19.7.	The centre of gravity (CG) of the installed aerial platform with loadbody and all fitments should be as low as possible to vehicle chassis level for stability. Height of CG above vehicle chassis longitudinal from axle loading software.	……mm
19.8.	The turning turret arrangement must not extend over the cab windscreen space and the top of the turning turret arrangement must preferably not be greater than 800 mm above the top of the cab roof.	……
19.9.	It is preferable that the selected aerial work platform is of compact design and that its overall length can be comfortably accommodated on a load body fitted onto a standard truck chassis. (See 52)	……
19.10.	The tenderer is to provide a concise drawing showing the general layout of the 15 m aerial work platform on the vehicle chassis.	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
20.	**T2.1 Working Envelope**	
20.1.	The working envelope is to be with two people at 200 kg load with H type outriggers not extending past the side of the truck more than 500 mm.	……
20.2.	**WORKING ENVELOPE @ 200KG**  **a)** Working envelope with boom horizontal, fully extended on level ground @ 200 kg bucket load at least 7 m on horizontal axis. **b)** Working envelope at maximum elevation, fully extended on level ground @ 200 kg bucket load at least 14 m on vertical axis.	……m ……m
21.	**T2.1 Aerial Platform Subframe**	
21.1.	A full length high strength, lightweight sub frame to support the 15 m aerial work platform must be designed, fabricated using Domex or equivalent and fitted to the vehicle chassis sub frame according to the recommended aerial work platform and truck OEM body builder specifications.	……
21.2.	The mounting brackets must be incorporated according to the recommended spacing and strategically placed where load transfer takes place i.e. at the platform base and at the outriggers.	……
21.3.	Full firm contact is to be made between the aerial platform sub frame and the chassis sub frame i.e. no gaps must be evident.	……
21.4.	The sub frame must be capable of withstanding maximum design loads imposed upon it during a full range of operations.	……
21.5.	It is preferred that the pedestal of the aerial platform be situated in-between the sub frame longitudinal and not on top to keep the centre of gravity as low as possible.	……
21.6.	Side and cross bearer members of the aerial platform sub frame shall be of suitable dimension to ensure torsional stability of the assembly as well as provide adequate support for the load body.	……
21.7.	The sub frame components shall be designed and constructed from Domex or equivalent steel using pressed / hollow sections for the lowest mass / strength ratio possible according to OEM standards for the vehicle and fitted aerial platform.	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
21.8.	The design of the sub frame as well as the fitment methods shall be approved by the aerial platform manufacturer and vehicle supplier.	……
21.9.	Documentary evidence of such approval shall be submitted.	……
21.10.	A general layout diagram showing all pertinent dimensions and fitment methods must be included with the tender offering.	……
22.	**T2.1 AP loadbody construction**	
22.1.	A light weight yet robust platform load body with 500 mm fixed sides, rear tail gate, and free draining, non-slip decking is required to be fitted to the aerial platform sub frame and then mounted to the vehicle chassis.	……
22.2.	Side plates, walls and tailgate must be constructed from locally available interlocking anodised aluminium rectangular profiles / planks and shall be supported by robust centre and corner posts as per the current fleet of aerial platforms using such profiles.	……
22.3.	The material used for the sides, ends, tailgate of the load body shall be of aluminium alloy 6063 T6 (or equivalent) extrusion 25mm width and 2mm wall thickness.	……
22.4.	The decking of the platform load body must be slip resistant and free draining and must be adequately supported by sturdy side bearers welded / bolted to the aerial platform sub frame to prevent a deflection of the decking in between supports more than 1mm under normal loading conditions.	……
22.5.	The floor decking shall be raised pattern non-slip solid floor plate, Floorex 3Cr12 (or equivalent) and at least 4mm nominal thickness.	……
22.6.	The cab protector / bulkhead must be of sturdy design section mild steel grade 300W hot dipped galvanised.	……
22.7.	A robust boom rest bracket constructed from mild steel grade 300W hot dipped galvanised fitted with resilient pad, with lower boom locking device is to be supplied for firm boom support and compact travelling whilst in the stowed position.	……
22.8.	The hot dip galvanized coating shall conform in every respect to the standards contained in SANS 121 (ISO 1461:2009) and SANS 32 (EN 10240:1997).	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
23.	**T2.1 Loadbody material**	
23.1.	The following is a list of essential materials and is not to be construed as a complete material list.	……
a.	**Side panels, side access and tail gate**	
a.1.	Aluminium alloy 6063 T6 (or equivalent)	……
b.	**Decking**	
b.1.	Floorex 3Cr12 (or equivalent)	……
b.2.	Nom thickness 4mm +/-	……mm
c.	**Sub frame**	
c.1.	Domex (or equivalent)	……
d.	**Cab protector**	
d.1.	Grade 300W steel section galvanised.	
e.	**Floor decking support bearers**	……
e.1.	Grade 300W steel section galvanised.	……
f.	**Load body manufacturer**	……
24.	**T2.1 Loadbody access**	
24.1.	A safe, sturdy yet lightweight means of access to the platform load body should be provided on the curb side by means of a robust step arrangement and must include side grab rails.	……
24.2.	The rise of steps or rungs must be uniform and must not exceed 300 mm. The steps or rungs must be slip resistant.	……
24.3.	A toe rail must be incorporated to prevent the operator slipping whilst attempting to enter the load body. (See 54 for typical side step configuration)	……
25.	**T2.1 Loadbody dimensions**	
25.1.	A maximum legal body length and a width of not less than 2200 mm is required. Tenderers must offer the best length to match their chassis, taking correct mass distribution and appearance into account.	……
a.	Length	……mm
b.	Width	……mm
25.2.	The body must be complete in all respects and fitted to the vehicle in such a way that it is in full compliance with the South African road ordinances, tyre pressures restrictions and with correct mass distribution.	……
25.3.	It is required that the fitment of the load body be inspected and approved by the chassis cab manufacturer in writing, a copy of which is to be submitted on delivery.	……
25.4.	The tenderer is to supply comprehensive drawings showing pertinent dimensions of the chassis cab, load body and aerial platform combination with the tender submission.	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
25.5.	An aluminium toolbox 2000mm x 600mm x 500mm shall be included as standard fitment the location of which shall be decided in consultation with the City of Cape Town.	……
26.	**T2.1 Boom Arrangement**	
26.1.	The lower pedestal shall be of a sturdy design to support the rotation bearing and be capable of supporting forces generated through the turning turret and telescopic booms in the operation of the aerial platform.	……
26.2.	The rotation drive assembly is to be fully adjustable to permit reduction of rotation gear backlash, boom side play and to ensure proper tooth contact over the life of the unit.	……
26.3.	The rotation drive assembly (including pipes, fittings, electronics) is to be protected by a removable cover mounted on the load deck encircling the base of the aerial platform to eliminate any damage being sustained to the drive assembly whilst the aerial device is rotating.	……
26.4.	The diameter and height of the cover must clear the swing of the rotation drive assembly. The cover arrangement must not allow water to accumulate in the space occupied by the rotation drive assembly.	……
26.5.	The upper and lower booms are to be a reinforced, torsion resistant, steel box design of adequate cross section to carry all imposed loads without excessive rotation or deflection of the booms at maximum extension.	……
26.6.	The upper boom assembly is extended and retracted by means of a double acting hydraulic cylinder and chain arrangement where applicable over polyethylene slide pads bearing arrangements located in the end of the lower boom.	……
27.	**T2.1 Slide Pad Arrangements**	
27.1.	The telescopic boom adjustable slide pad arrangement is to comprise not less than four (4) adjustable lateral polyethylene (or equivalent strength polymer) wear pads located at the boom end to minimise the lateral play in the inner telescopic boom.	……
27.2.	The vertical play in the telescopic boom shall be controlled by means of wear pads located at the top and bottom of the fixed boom.	……
27.3.	In all cases above the wear pads must be adjustable to allow the recommended space between pad and sliding member and must have a positive locking arrangement to ensure that the pad positions do not alter during normal operations of the boom.	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
28.	**T2.1 Aerial Work Platform Operation**	
28.1.	The platform shall be hydraulically operated by means of a direct coupled PTO and hydraulic pump arrangement incorporating a failsafe system.	……
28.2.	The turntable shall be mounted on roller bearings and propelled in both directions by means of a hydraulic motor.	……
28.3.	The aerial platform must have a rotation capability of at least 340 deg taking into account the required dead band over the width of the cab.	……
a.	Maximum rotation	……deg
28.4.	The turntable shall be self-locking in all positions.	……
29.	**T2.1 Reservoir**	
29.1.	The reservoir shall preferably be of robust sufficiently stiffened stainless steel construction and be so constructed as to have a low end where water and contaminants will settle.	……
29.2.	A tap shall be located at the lowest point of the reservoir for oil inspection and drainage purposes.	……
29.3.	The pump intake port on the reservoir shall located at a point where no settled contaminants can be sucked into the pump inlet.	……
29.4.	The reservoir shall incorporate baffles to separate returning hydraulic fluid from that being drawn into the pump. See clause 3.4 of the General Technical Requirements or general layout drawing.	……
29.5.	The reservoir volume is to be approximately three (3) times the maximum pump flow rate so that under no circumstances during the normal 8 hour operation of the platform shall there be any instances of foaming, hydraulic cavitation or overheating.	……
29.6.	The strainer arrangement is to be located in a position to facilitate ease of maintenance without the need for emptying the reservoir.	……
29.7.	The reservoir is to incorporate a sight glass / inspection port to easily check hydraulic oil level and an oil temperature gauge.	……
29.8.	The reservoir is to be positioned flush against the rear bulkhead.	……
29.9.	The reservoir shall be fitted with a lockable reservoir cap. The reservoir should incorporate a separate breather fitted with 40-µm air filtration with a hydroscopic medium to absorb airborne moisture.	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
29.10.	The hydroscopic filter shall indicate saturation of the hydroscopic material requiring replacement.	……
29.11.	The reservoir breather system shall be positioned away from the reservoir to avoid water contamination by vehicle washing or any other external environmental factors.	……
30.	**T2.1 Hydraulic Pump and Power Take Off**	
30.1.	The PTO must be either electrically or air operated. Cable operation will not be accepted.	……
30.2.	The tenderer shall supply the power take off on the vehicle complete with a factory approved wiring loom interlinking to the vehicle computer ECU (making provision for an electronically controlled PTO).	……
30.3.	The PTO must be supplied with a failsafe system interlinked to the handbrake, accelerator and idle up switch of the vehicle.	……
30.4.	The PTO and hydraulic pump are to be rated at 20 % higher than the individual maximum demand placed on it by the operation of the aerial platform.	……
30.5.	The hydraulic requirements for the aerial platform taking into account the peak operating performance are to be listed below.	……
a.	AP operation – not less than 15 l/min @ 800 rpm	……
b.	Maximum pump flow rate / pressure	……
c.	Reservoir volume (at least 3 x max pump flow rate)	……
d.	State the truck engine rpm at which the hydraulic flow rate required by the aerial platform will be achieved	……
e.	Make / Model (PTO)	……
f.	Make / Model Hydraulic Pump	……
g.	Pump type	……
30.6.	All cylinders, piston rods, pipes, hoses, valves and fittings must be able to withstand a static pressure of 3 times the maximum operating pressure without permanent deformation.	……
30.7.	All piston rods to be hard chromed and ground for extended seal life. Pins are high strength alloy steel and zinc plated for corrosion resistance.	……
30.8.	Where practically possible, all exposed piston rods are to be enclosed with concertina type protective boots.	……
30.9.	Check valves shall be provided to lock the cylinders positively in position while the controls are not being operated.	……
30.10.	Hydraulic systems shall be such that free descent cannot occur in the event of a hose or fitting failure.	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
31.	**T2.1 Emergency hydraulic pump system**	
31.1.	An emergency pump is to be installed to lower the boom arrangement. This system provides a 24V DC motor driven hydraulic pump connected in parallel with the engine driven hydraulic pump.	……
31.2.	A control is to be provided at the upper controls to actuate the emergency lowering motor. The pump is driven by the auxiliary battery pump.	……
31.3.	An emergency hand pump with fail safe device shall be incorporated for lowering of the bucket in case of emergency. The handle of the hand pump shall be galvanized.	……
31.4.	An inline pressure transducer (Turck PS510-400-04-LI2UPN8-H1141) or equivalent shall be incorporated in an appropriate and easily accessible location in the hydraulic circuit. The installation shall include all piping, a 24V power supply to the transducer and electrical connection to a digital display located either in or next to the lower control bank.	……
31.5.	All valves are to be clearly marked / labelled to indicate functionality.	……
31.6.	Hydraulic pump curves as well hydraulic circuit diagrams are required in support of the specified parameters. The drawings are to indicate safety devices and operating logic.	……
31.7.	All hydraulic connectors and fittings shall be plated for corrosion resistance. The plating used shall offer the same corrosion resistance as stainless steel. Denso tape or equivalent will not be accepted.	……
32.	**T2.1 Stabilising System**	
32.1.	The vehicles shall be equipped with two sets of H type hydraulic outrigger jack systems located at the front and rear of the vehicle load body. Alternative arrangements will be considered only if it can be proved that the H type outriggers cannot provide the desired stability ratio of at least 1.5 in terms of overturning moment at any point in the boom travel at maximum extension.	……
32.2.	The hydraulic stabilisers (outrigger) system shall incorporate a hydraulic mechanical interlock between the boom and outrigger jacks to prevent the hydraulic platform from being operated unless the outrigger jacks are fully deployed.	……
32.3.	A visual and audible alarm shall be provided which shall sound if an attempt is made to move the vehicle with the outrigger jacks not fully stowed.	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
32.4.	In the stowed position the outrigger jacks shall not protrude beyond the outer edge of the vehicle and shall have a minimum ground clearance of 300mm.	……
32.5.	The outrigger legs shall be operated by controls located independently from the aerial platform controls.	……
32.6.	All four outrigger leg extenders to be supplied with load holding valves.	……
32.7.	The deployed outriggers shall not be able to retract in the event of hydraulic line failure.	……
32.8.	A set of four stabilizer swivel foot pads Nylacast or equivalent at least 40mm thick, suitable for sand / soft soil conditions are to be supplied and housed in a suitable sturdy steel / PVC box fixed under the load deck as standard fitment.	……
32.9.	The stabilizer feet shall be constructed so as to accommodate ground unevenness of at least 10° and point loads which may be encountered.	……
32.10.	It is preferable that the vehicle and aerial platform combination be designed to be operationally stable with the outriggers not extending beyond the outer edge of the vehicle. The outriggers are to be fitted with reflective safety marking whilst in the extended position.	……
32.11.	The outrigger legs must be located on the outside of the load body but not extend beyond the outer edge of the vehicle.	……
33.	**T2.1 Aerial Platform Control System**	
33.1.	The aerial platform shall be operated by means of two hydraulically controlled valve banks. One fitted at the base on the curb side and one at the operator's bucket.	……
33.2.	The lower control bank shall have an overriding facility over the top bank for lowering of the bucket under emergency circumstances.	……
33.3.	The outrigger control bank shall be located on the curb side of the vehicle and be easily accessible to the operator.	……
33.4.	All controls must be "dead man" type which automatically return to neutral or the off position when released. Under no circumstances may there be hydraulic creep while the controls are in the neutral position.	……
33.5.	The direction of all movements of the elevating work platforms must be indicated by arrows on the control device. All controls must be positioned for logical operation and be clearly marked to show their function in legible letters and / or symbols.	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
33.6.	The upper control bank shall be mounted at a suitable ergonomically correct position on the exterior of the operators bucket and be electrically insulated from it and shall be suitably enclosed in a robust polyethylene / glass fibre waterproof enclosure to protect it from accidental damage.	……
33.7.	An emergency stop control which will cut off power must be provided at each control position. It must be prominent and coloured red.	……
33.8.	The controls must be of robust construction and waterproof to class IP65.	……
33.9.	All operating levers shall be protected by suitable insulating material and located in a protected area. The controls supplied shall be of precision manufacture to allow the operators a fine and smooth control of the aerial platform.	……
33.10.	An interlock shall be provided which will make it impossible to raise or lower the platform while the vehicle is in motion. The slewing mechanism shall be provided with a service brake.	……
33.11.	The control system offered must include limits which prevent the booms extending beyond its safe working range in any position i.e. preventing the vehicle from overturning.	……
33.12.	A start stop switch to allow the vehicle engine to be operated from the operators bucket shall be connected. The fitted PTO must stay engaged when the engine is switched on/off from the bucket controls.	……
33.13.	A proprietary electronic rev lifting device to be installed at PTO engagement. The device is to be programmable from low idle speed to a max of 900 rpm with no adjustment possible from the operator.	……
33.14.	Pilot lights in the cab have to be activated on PTO engagement.	……
a.	Green – PTO deactivated	……
b.	Red – PTO activated	……
c.	Red - Outriggers extended	……
d.	Green - Outriggers fully retracted	……
33.15.	The outrigger controls located on the curb side of the truck load body shall allow for the outriggers to be individually selected or all operated simultaneously by means of one lever.	……
33.16.	A facility coupled to the outrigger system for deploying only the two rear outriggers with manual levelling options shall be called the Rapid Outrigger Deployment system (ROD) and offered as an optional extra. The aerial platform will then be able to operate safely with the full working envelope restricted approximately 45 degrees of the vehicle centre line to the rear of the vehicle.	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
33.17.	To prevent the damage to the load body tail gate an appropriate upper boom limiting device needs to be incorporated to restrict the extension of the upper boom and or lowering of the boom unless the load body tail gate is cleared. The upper boom needs to be fully home before the boom can be placed in the rest position.	……
34.	**T2.1 Boom rotation limiter**	
34.1.	The platform is to be equipped with a motion limiting device which automatically prevents any part of the aerial platform from making any contact or crashing into the cab or cab protector.	……
34.2.	A boom rotation limiter override button is to be installed at the upper and lower control banks which allows the aerial platform main boom to be traversed over the region of the width of the cab in emergency conditions.	……
35.	**T2.1 Operators Bucket**	
35.1.	The operator's bucket manufactured from HDPE polyethylene (or equivalent strength thermoplastic polymer) , grey in colour , designed to comfortably accommodate 2 (two) persons' plus the tools held in an on board bucket tool storage compartment which could constitute a safe work load of not less than 200kg	……
35.2.	The bucket must be supported evenly on its base with no point loading. The use of full working width, perimeter support on Nylon 6 (or equivalent) bearing pads of sufficient dimension is required. Any alternative design meeting the OEM performance standards is accepted. See 58	……
35.3.	Insulated safety straps connecting the bucket support bracket to the main boom bucket support structure must be incorporated to prevent the bucket from becoming fully detached.	……
35.4.	A safe means for boarding the bucket shall be provided and installed. Bucket entry shall be on the curb side.	……
35.5.	The bucket and all associated controls shall be electrically insulated from the frame to which it is attached against a potential difference of 1000V to earth.	……
35.6.	A load limiting device shall be incorporated in the bucket to ensure that the safe working load of 200kg is not exceeded.	……
35.7.	The dimensions of the lifting bucket accommodating 2 persons shall be not less than 1300 mm width x 750 mm depth x 1100 mm height.	……
a.	Lifting bucket dimensions: W x D x H (mm)	……

	SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP	DETAILS OF OFFER
35.8.	A hydraulically powered bucket rotation facility is to be incorporated allowing not less than 50 deg left and right rotation of centre.	……
35.9.	The bucket shall be fitted with drainage holes at the lowest part of the bucket.	……
35.10.	A grating spanning the area of the bucket floor shall be neatly fitted onto the bucket floor taking into account ease of removal. Vitaglass moulded grating 38x38x38mm depth or equivalent is to be used. A sheet of PVC approximately 7mm thick is to be placed on the bucket floor upon which the grating will be placed.	……
35.11.	Fall protection anchorage point brackets shall be provided and shall be positioned so that they do not interfere with the free movement of the operators and shall comply in all respects with the relevant standards.	……
35.12.	A robust load test bracket arrangement is to be centrally fitted to the bottom of the bucket support frame and be able to safely withstand double the rated safe working load. Standard load test cables must be able to be connected to the bracket by means of standard shackles.	……
35.13.	The bucket support attachment to the main frame must maintain the 1000V electrical insulation whilst being robust enough to endure the vibration loading due to the typical road surface roughness within the City of Cape Town's geographical boundary without the securing bolts pulling out. The International Roughness Index (IRI) as it pertains to the roads in the Western Cape has reference.	……
35.14.	The following publication has reference "Guidelines for Network Level Measurement of Road Roughness" This guideline was compiled under auspices of the COTO Road Network Management Systems (RNMS) Committee. (Mr Mervyn Henderson of the Western Cape Provincial Administration (WCPA) and Mr Louw Kannemeyer of the South African National Roads Agency (SANRAL)	……
35.15.	The Tenderer shall submit drawings indicating bucket dimensions and type of materials used as well as the frame attachment details.	……
36.	**T2.1 Bucket Lighting**	
36.1.	The bucket is to be fitted with standard 12V electrical connections in order to power two proprietary LED flood lamps rated at least 20 W with a light output of at least 1600 lumens enclosed in a class IP 65 housing.	……
36.2.	All fasteners used for the fitment of such LED flood lamp are to be stainless steel.	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
36.3.	Tenderers are to supply a 12V 110AH gel type deep cycle battery, as well as an appropriate method of linking to the vehicle electrical charging circuits. The alternator supplied shall also be capable of charging this battery bank.	……
36.4.	The proposal must be accompanied by circuit diagrams showing all relevant detail i.e. lockable battery box, wiring routing from the under load body steel battery box to bucket taking into account the telescopic upper boom, battery charging, and electrical protection devices.	……
36.5.	The proposed bucket lighting system must not place any demand on the vehicle battery system and must be able to operate for at least 8 hours continuously at 100% light availability.	……
36.6.	Three bright amber flashing (Gen 3 LED or better) light clusters fixed to the sides and rear of the bucket support frame are required. Each light cluster must incorporate at least 3 Gen 3 LED's. The robust light housing bracket must be constructed of stainless steel, be vibration resistant and waterproof. The lens cover must be clear UV resistant polycarbonate. A warranty period of at least 10 years is required.	……
37.	**T2.1 Bucket Automatic Levelling**	
37.1.	An automatic hydraulic levelling system which shall hold the bucket floor horizontal at all times, is required. A bucket relying on gravity alone for levelling will not be considered.	……
37.2.	The levelling system shall have an adjustable override to accommodate any adjustments required by the operator.	……
38.	**T2.1 Aerial Platform Pre Delivery Tests**	
38.1.	The aerial work platform shall be thoroughly inspected and performance tested as per OEM recommendations contained in the standards to which it was built prior to delivery to the City of Cape Town.	……
38.2.	The inspection and performance test is to be conducted by a registered LMI (Lifting Machinery Inspector) who shall be fully conversant with the requirements of SANS 50280, 16368, 18893, BS EN 61057 and ANSI A92.2 as per the requirements of LMI registration.	……
38.3.	The aerial work platform shall, in addition, be subjected to its first statutory test to 110% of the working load applied over the whole operating range as required by the Occupational Health and Safety Act No. 85 of 1993 and relevant General/ Driven Machinery Regulations DMR 18 5(a) ensuring that every part of the installation is stressed accordingly.	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
38.4.	The above is to verify that the aerial work platform is stable, structurally sound, the operating functions work correctly and safely and that the mandatory markings are properly affixed.	……
38.5.	Certified copies of the appropriate LMI certification for the above tests shall be submitted on written request by the City of Cape Town.	……
38.6.	The cost of the load test and certification documents and all materials used shall be included in the tender price.	……
39.	**T2.1 Wind Loading**	
39.1.	The aerial platform is to be able to perform safely throughout its full operating range whilst experiencing wind speeds of up to 12 m/s i.e. typical South Easter wind loading conditions in the Cape Town CBD.	……
40.	**T2.1 Aerial Platform Performance**	
40.1.	The hydraulic platform in normal use will be subject to 40 duty cycles per day. The design and manufacture of the unit shall be such that the life expectancy of the load bearing members shall not be less than 8 years or 80 000 duty cycles.	……
40.2.	Elevating speed shall be adjustable between 0.1 – 0.4 m/s measured at maximum extension.	……
40.3.	Slewing speed at maximum reach shall be adjustable between 0.1 - 0.4 m/s measured at maximum extension.	……
40.4.	Graphical detail, depicting the full working performance range horizontally and vertically must be supplied.	……
40.5.	The time taken to deploy all outriggers and level the aerial platform should not be greater than 1 min. (On level ground)	……
40.6.	The time taken for the boom to rotate 180 degrees at maximum extension should not be greater than 1 minute.	……
40.7.	The time taken to achieve maximum height at maximum extension of the boom should not be greater than 90 seconds.	……
41.	**T2.1 Drivability and Stability Simulation**	
41.1.	It is required that any vehicle and aerial platform combination offered in this tender is driveable and stable i.e. fit for purpose under normal operating and road conditions as is found in the geographical boundary of the City of Cape Town.	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
41.2.	See clause 36 of the Special Conditions of Contract in this regard	……
42.	**T2.1 Marking and Decals**	
42.1.	The following information shall be displayed in clearly visible permanent lettering on the aerial work platform:	……
a.	Make, model, serial number, manufacturer's details	……
b.	Safe working load	……
c.	Maximum platform working height	……
d.	The working voltage to which it is insulated	……
e.	Warnings or restrictions necessary for safe operation	……
f.	All valves clearly marked and labelled	……
g.	The instruction "Read work platform manual" for servicing /operating instructions	……
42.2.	It is required that yellow reflective tape (3M C E1 104 R-00821) or equivalent is to be fitted to the aerial platform i.e. full length of both booms as well as the perimeter of the platform load body as required by South African Road Traffic ordinances. All necessary statutory decals are to be fitted to the aerial platform.	……
42.3.	Outriggers should be fitted with 3M C E1 104 R-00821 reflective tape (or equivalent) not less than 50 mm wide. Covering the full length of the retracted outrigger. (white facing front, red facing rear)	……
42.4.	The rear facing section of the operators bucket has to be suitable for the application of decals as per clause 57 of this technical specification.	……
42.5.	In the event that decals cannot be applied to rear face of the operators bucket, an aluminium / polycarbonate plate needs to be fitted to the bucket upon which the reflective tape decals as indicated in clause 57 will be applied. The fitment of the plate must be acceptable to the aerial platform OEM.	……
42.6.	The fitment of such a plate shall in no way compromise the 1000 V insulation requirement of the bucket	……
a.	The size of the plate shall be approximately:	
a.1.	3mm (t) x 400mm (h) x 800 mm (w).	……
42.7.	The tenderer to ensure that all necessary decals are fitted at their correct positions. (See 57)	
a.	Bucket chevrons	……
b.	Working envelope	……
c.	Maximum load	……
d.	Operational lever decals – upper and lower boxes	……
e.	Safety decals with instructions (Safety equipment)	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
43.	**T2.1 aerial platform Materials and Spares**	
43.1.	**AERIAL PLATFORM MATERIALS**	
a.	For maintenance purposes the tenderer must specify all materials used in the construction of the aerial platform in the supplied spares manual i.e. specifically booms, pins, bushes and hoses. All these items are to be highlighted.	……
a.1.	Booms	Page ……
a.2.	Pins	Page ……
a.3.	Bushings	Page ……
a.4.	Hoses	Page ……
43.2.	**AERIAL PLATFORM SPARES**	
a.	Standardisation and mutual interchangeability of components is essential.	……
b.	The tenderer shall indicate the spares availability and stock holding within South Africa	……
b.1.	Value of spares holding in South Africa:	R……
b.2.	Spares availability (Major spares - booms, electronic control units etc.)	……%
b.3.	Spares availability (Minor spares / servicing spares)	……%
43.3.	Fast moving service spares need to be available within the geographical area of City of Cape Town	……
a.	Location of spares outlets:	……
b.	State lead times that can be expected:	……
43.4.	Lead time of spares delivery ex overseas OEM warehouse.	……days
43.5.	Lead time of spares delivery ex warehouse outside City of Cape Town geographical boundaries within South Africa	……days
44.	**T2.1 aerial platform Service**	
44.1.	Please refer to Special Conditions of Contract section 37 for contractual accredited maintenance, servicing, spares and parts outlets.	……
a.	List the accredited local service agencies (if available) at time of tender for servicing the aerial platform.	……
b.	State the aerial platform service delivery turn-a-round times that can be expected.	……

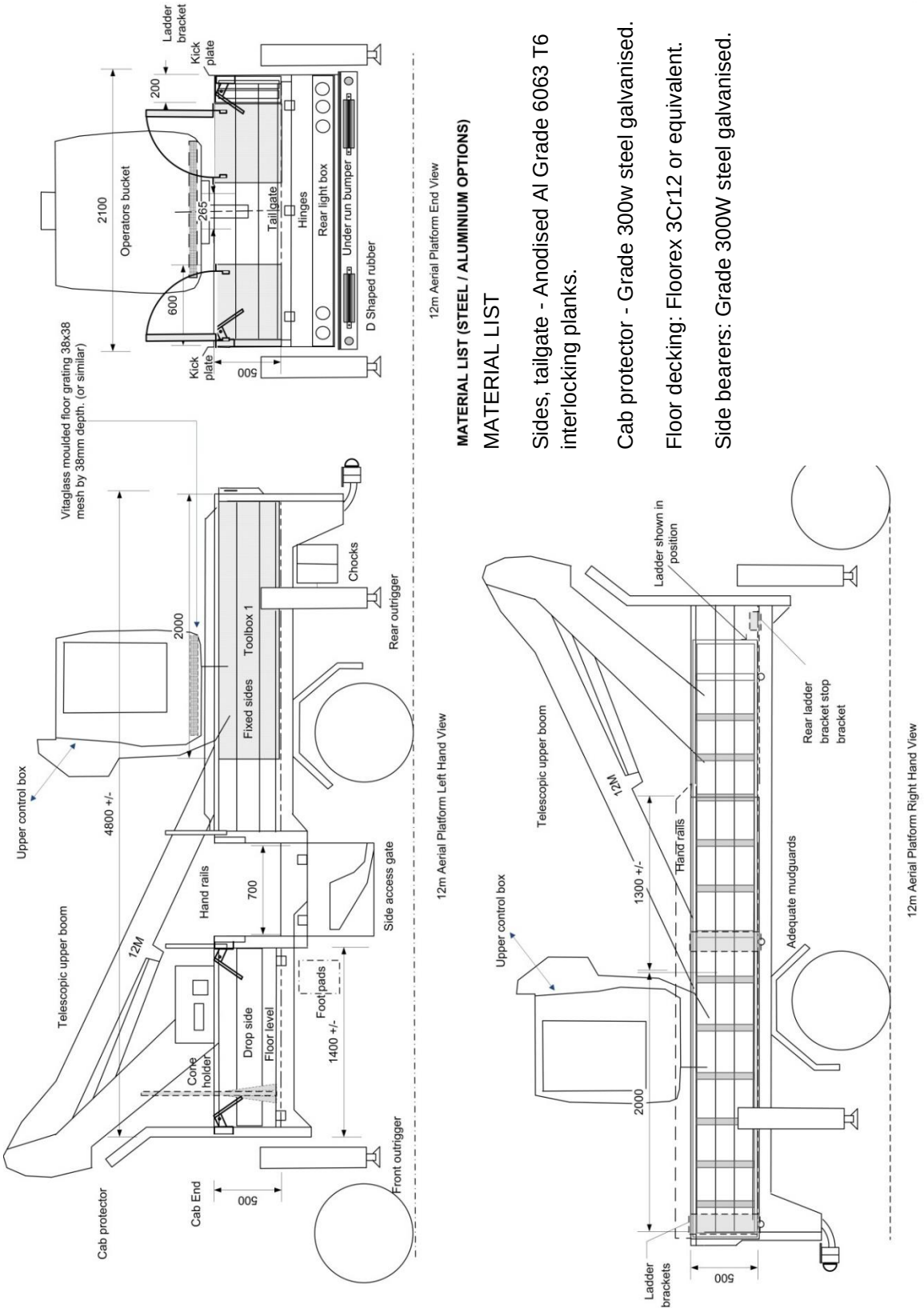
SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
45.	**T2.1 Documentation on Delivery**	
45.1.	Three copies of the comprehensive operating, maintenance manuals, spare parts manuals and training manuals in professional PDF format in the English language as well as in a properly bound book must be provided by the manufacturer.	……
	The following is to be included in the manuals:	
a.	Operation instructions	……
b.	Service schedule	……
c.	Lubrication schedule	……
d.	Routine checks	……
e.	Restrictions on use of the machine	……
f.	Advice that could affect the safe use of the machine	……
g.	Manufacturers spare parts list	……
h.	Statutory inspection registers	……
45.2.	Load test certificates signed by an LMI.	……
45.3.	An oil analysis certificate from an approved inspection authority.	……
45.4.	A sample of hydraulic oil shall be taken from the oil reservoir for spectrographic analysis and a report shall be supplied. The cost of which will be included in the tender price.	……
45.5.	A structural engineers certification letter for the aerial platform from the design engineer or his representative must be received on delivery.	……
46.	**T2.1 Training**	
46.1.	Training in the proper operation of the aerial platform and truck must be provided and included in the tendered price.	……
46.2.	The training should be adequate to transfer the required skills in the safe operation of the aerial platform and vehicle to the City of Cape Town's operating staff.	……
46.3.	A minimum of two employees per vehicle ordered needs to be catered for. A training manual is to be provided.	……
47.	**T2.1 Paint Specification Aerial Platform**	
47.1.	The aerial platform paint process is to be according to the following or equivalent:	……
a.	Surface preparation ISO 8501-1:2007	……
b.	Primer coat – Carbomastic 15 or equivalent	……
c.	Final coat – Carboline 134 or equivalent White	……
47.2.	The aerial platform paint dry film thickness is not to be less than 100 µm	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
47.3.	It is important that the inner surfaces of the booms are to be given marine quality protection against corrosion. Proof of such protection must be supplied at delivery.	……
48.	**T2.1 Warranty Aerial Platform**	
48.1.	The warranty period for the structural and hydraulic components shall not be less than 1 year and shall commence from the official date in service of the vehicle and the mounted equipment.	……
48.2.	The paint coating specified is to offer marine quality protection against corrosion for at least 5 years.	……
48.3.	Where it is found that the structural integrity of booms is impacted severely due to internal corrosion, the replacement of such booms will be for the tenderers account.	……
48.4.	Tenderers shall submit full details of their guarantee commitments contained in the warranty documents indicating in all respects the extent thereof.	……
48.5.	The main tenderer is to fully underwrite any warranties given by their subcontractors.	……
48.6.	Tenderers shall also undertake to guarantee that satisfactory after sales and maintenance support is provided in the geographical area of the City of Cape Town. See Special Conditions of Contract section 37	……
49.	**T2.1 Delivery**	
49.1.	Tenderers must specify dispatch period after placing of order clearly in terms of lead-time, rate of dispatch and completion of contract.	……
a.	Lead time for initial delivery of complete unit	……
b.	Chassis cab	……
c.	Load Body	……
d.	Aerial Platform	……
49.2.	The fully licensed vehicle (homologation must be included in the tendered price) complete with a current CRW certificate is to be delivered to the City of Cape Town's Mechanical Workshops at Ndabeni 13 Melck St. or as stipulated on the City of Cape Town's purchase order.	……
49.3.	A chassis cab service plan covering the period of five (5) years or 100,000 km and a service plan covering the aerial platform for a period of five (5) years must be included in the total price of the vehicle. Full details of such service plan should be supplied with tender.	……
49.4.	The price of a pre-delivery service for each vehicle must be included in the tendered price where such service is recommended by the manufacturer.	……

SPECIFICATION T 2.1 TRUCK 4 x 2 WITH 15 M AP		DETAILS OF OFFER
49.5.	The homologation certification cost must be included in tender price and submitted at time of delivery	……
49.6.	The vehicle registration and licensing cost must be included in the tender price.	……
50.	**T2.1 Standard Fitment Items**	
50.1.	The following items shall be included in the total tendered price as standard fitment items.	……
50.2.	A 2,5 kg dry powder fire extinguisher fitted in a suitable position in the cab.	……
50.3.	A robust lockable, robust plastic / polyethylene document container to hold logbooks, instruction documents, manuals. The container must be sized to comfortably accommodate A4 documents. The container will be fitted in a convenient place in the cab.	 ……
50.4.	Set of 4 HDPE polyethylene foot pads	……
50.5.	Foot pad holder box	……
50.6.	Set of 4 HDPE polyethylene chocks	……
50.7.	Chock holder box	……
50.8.	Emergency 24V DC hydraulic pump and hand pump.	……
50.9.	A hydraulically powered bucket rotation system.	……
50.10.	One cone holder (See 56)	……
50.11.	One 9kg gas cylinder holder. (See 56)	……
50.12.	Set aluminium ladder brackets. (See 56)	……
50.13.	One aluminium toolbox 2000mm x 600mm x 500mm (See 55)	……
51.	**T2.1 Extras**	
51.1.	Rapid Outrigger Deployment control system (ROD)	……
51.2.	Supply and fit of a Battery powered hand wash unit (Teal or equivalent)	……

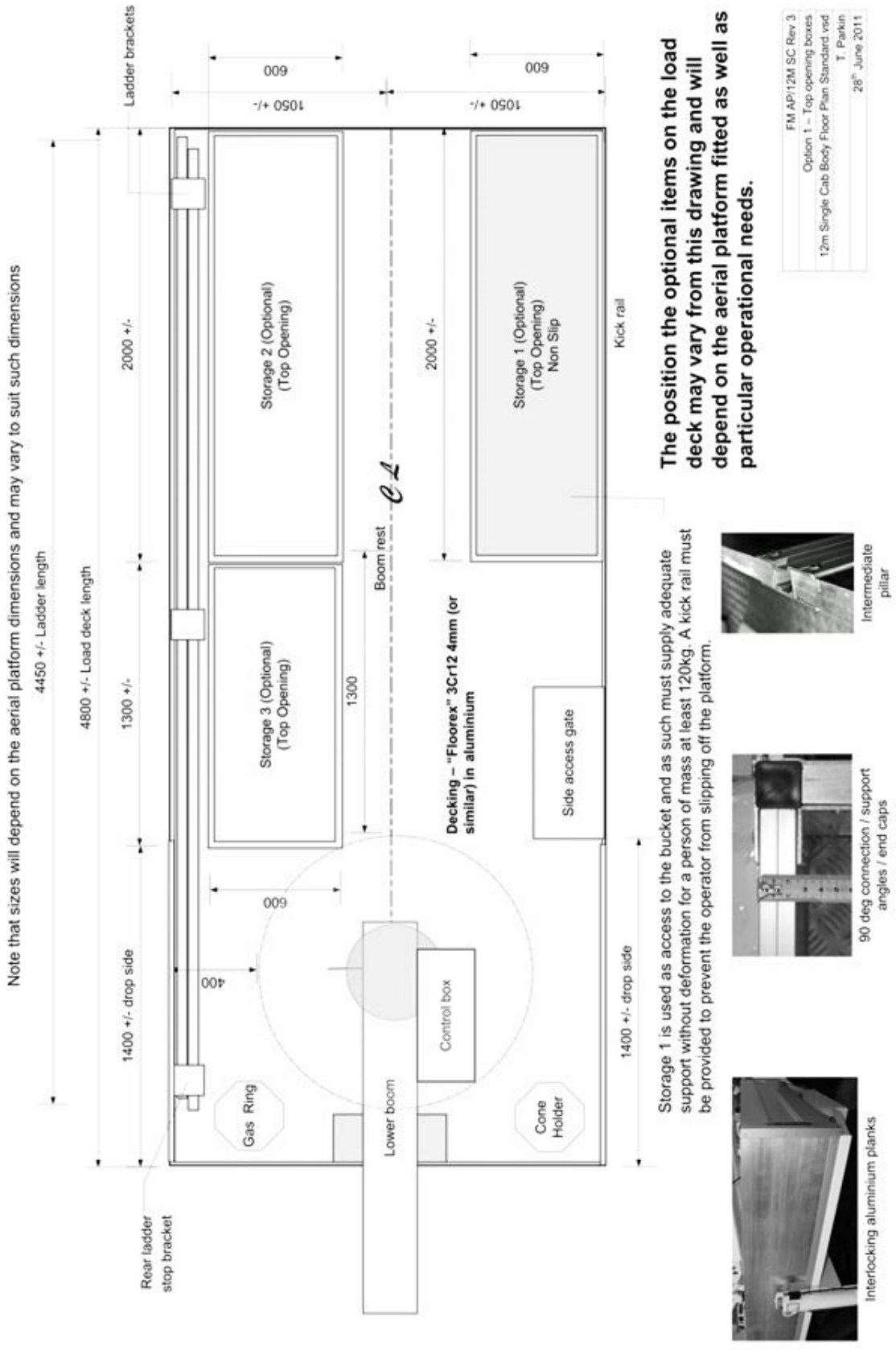
52.	**T2.1 Single Cab 15 m ap - Layout Drawing**

This drawing is to not to be used to extract dimensions for construction purposes.
It is a depiction of the overall appearance of the aerial platform and the load body.
The tenderer is to refer to the technical specification clauses for relevant details of the construction requirements..



53.	T2.1 Single Cab 15 m ap - standard Toolboxes

FLOOR PLAN WITH TOOLBOXES (Optional positions shown)



54.	T2.1 Single Cab 15 m ap - Side Access

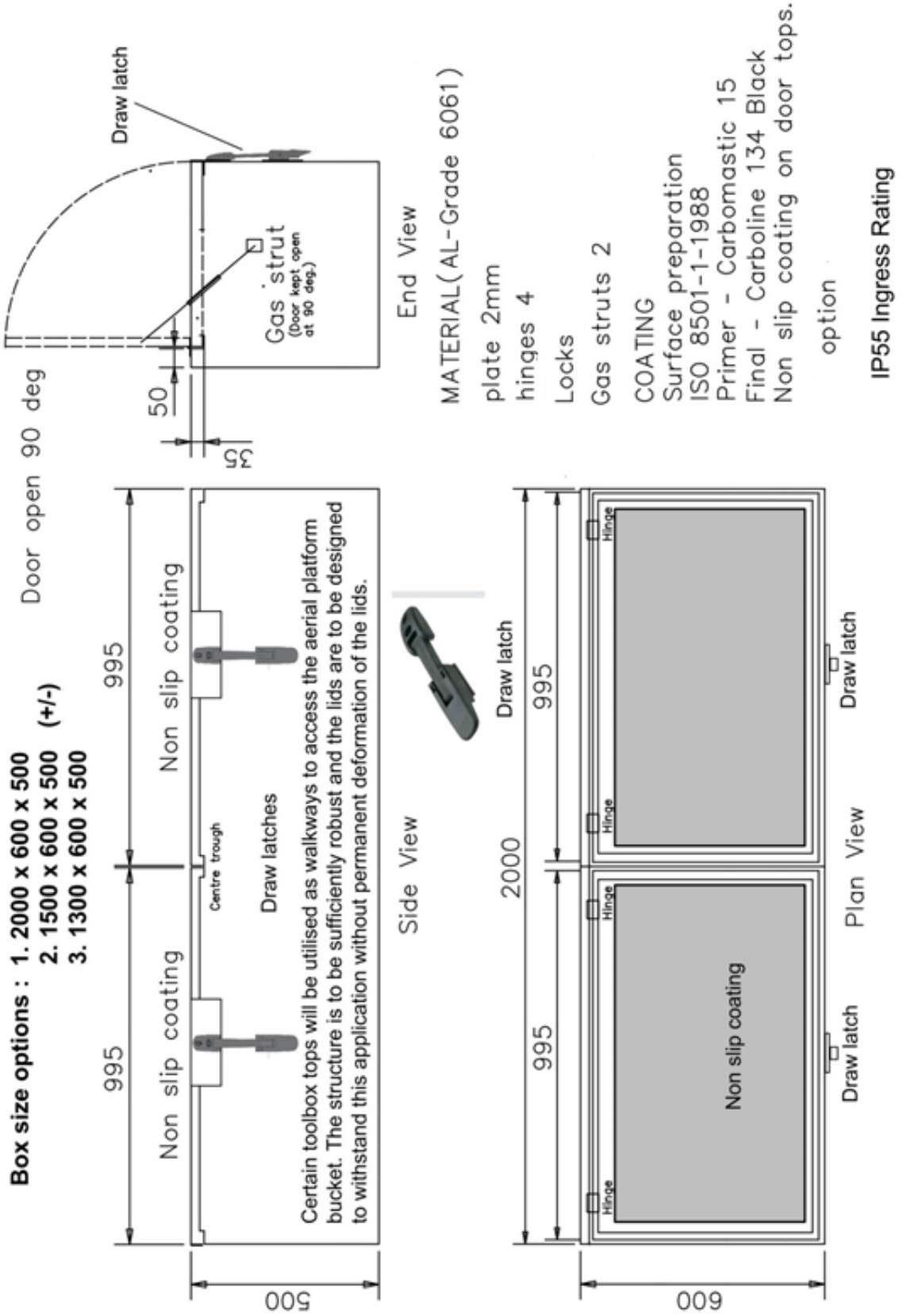
SIDE ACCESS GATE (TYPICAL LAYOUT)


Side access gate with steps


Gate supports with rubber stoppers.

55.	T2.1 Single Cab 15 m ap - toolboxes

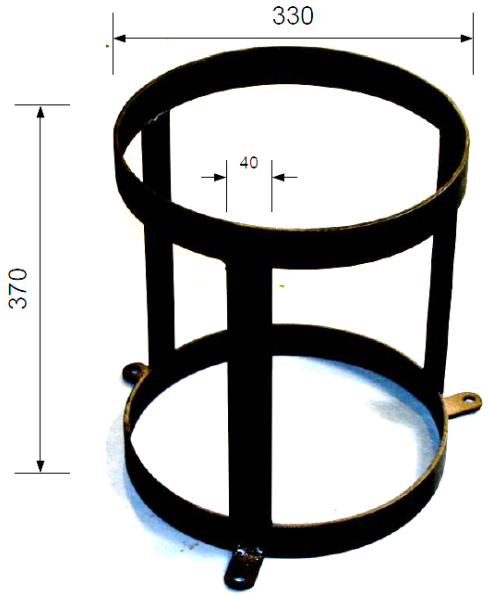
STANDARD TOOLBOX (TYPICAL CONSTRUCTION ARRANGEMENT)



56.	T2.1 Single Cab 15 m ap - floor fitments

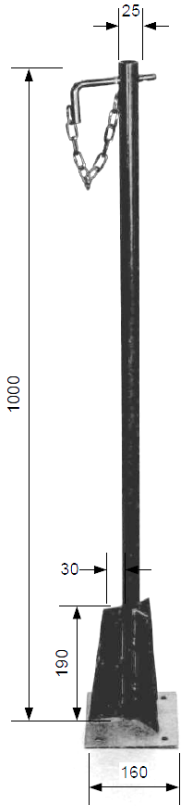
(Placement to be finalised during construction phase.)

GAS CYLINDER HOLDER – CONE HOLDER - LADDER BRACKETS



9KG GAS CYLINDER HOLDER

Material : Mild steel strip
40x4mm
Lugs: 50x30x4mm – 12mm hole
Rounded as shown
Weld full depth
Corrosion Protection: Hot dipped galvanised
Include Grade 4.8 bolts, washers and locknuts for fitment to load body floor.



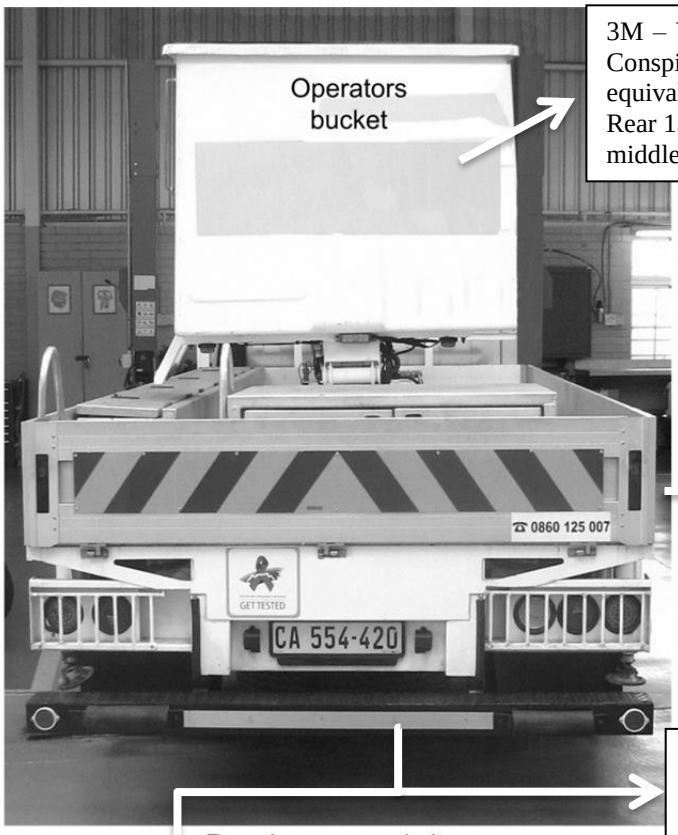
Cone Holder

Material: Mild steel
Base: 160mm Sq x 4mm – 12mm holes
Gussets: 190x50x30x3mm
Pipe: 1000x25x2mm dia – drill 8mm hole
Lock pin: 6mm bar bent as shown.
Chain: Light chain welded to pipe and lock pin.
Corrosion Protection: Hot dipped galvanised
Include Grade 4.8 bolts, washers and locknuts for fitment to load body floor.

Typical ladder brackets with rollers to ease the ladder into position. It is preferred that the rollers be sunk into the deck to bring the ladder down as low as possible.

57.	T2.1 Single Cab 15 m ap - decals and rear bumper arrangement

AERIAL PLATFORM DECALS AND REAR BUMPER ARRANGEMENT



3M – Yellow Diamond Engineering Grade Conspicuity Tape (Code: VDGC4084) or equivalent standard. Position as follows:- Rear 1300 mm W x 360 mm H – positioned middle third.

Note decal / reflective tape / reflectors position.

Chevron must comply with SANS 1329:4 and carry the SANS mark

3M – Orange diamond grade conspicuity marking code: 983-71 ECE mark or equivalent standard. SANS 2014

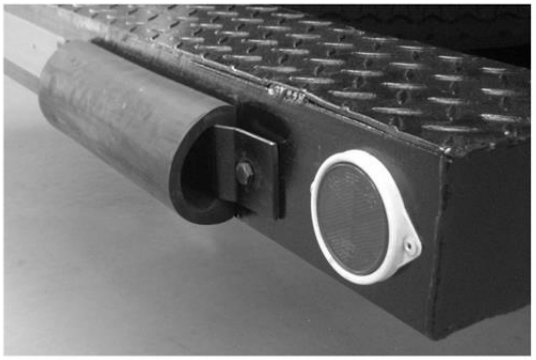
Rear bumper end view

Rear bumper side view

Rear bumper / under run bumper manufactured from two 100 x 50 channel welded together. Ends blanked off. Checker plate stitch welded on top as shown.

Two D shaped rubber mounted onto the rear face of the bumper arrangement with 12mm dia bolts.

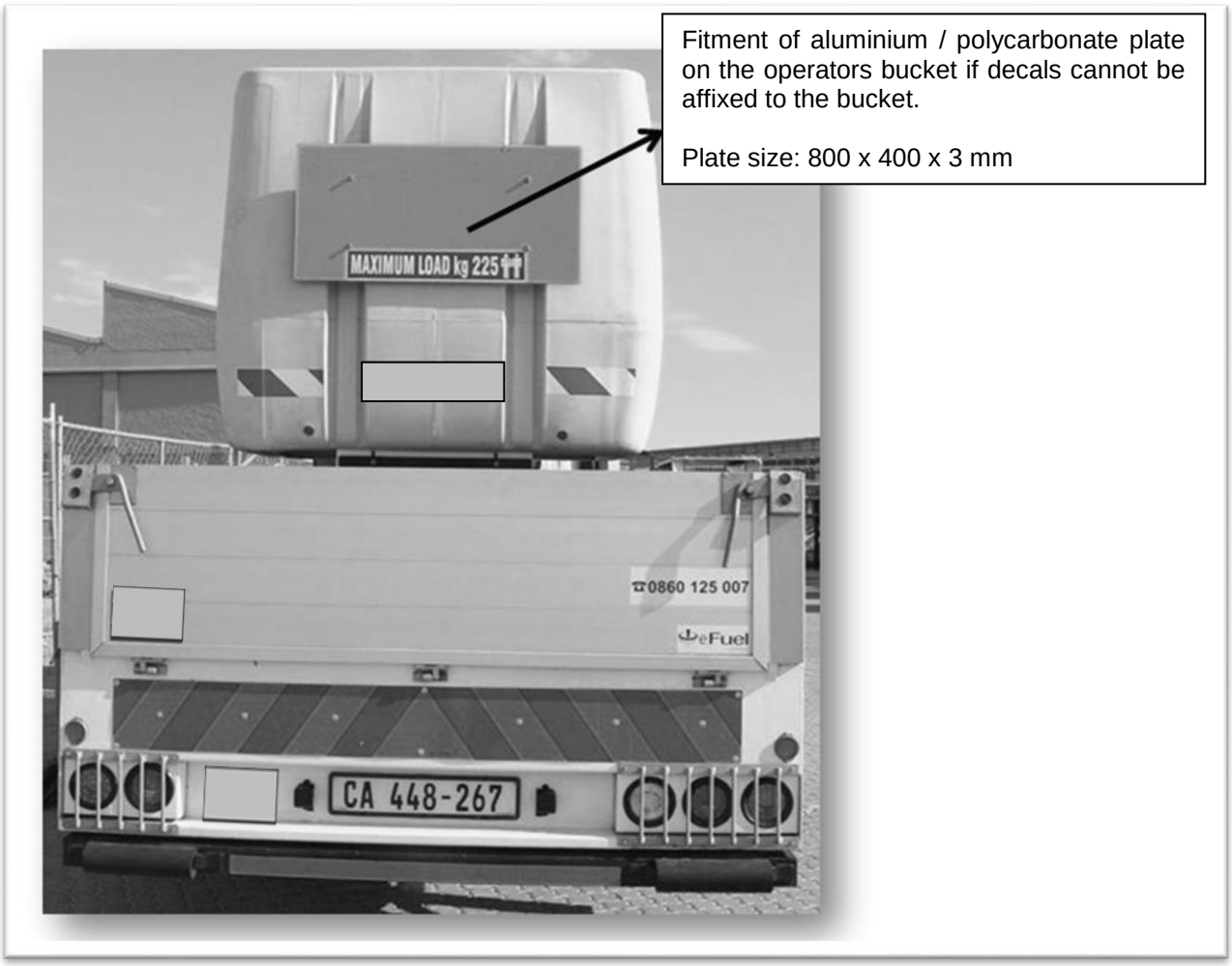
All edges to be dressed. Corrosion protection as stipulated in the technical specification.



D rubber detail

58.	**T2.1 Single Cab 15 m ap - operators bucket**

HDPE POLYETHYLENE OPERATORS BUCKET AND FITMENT OF PLATE

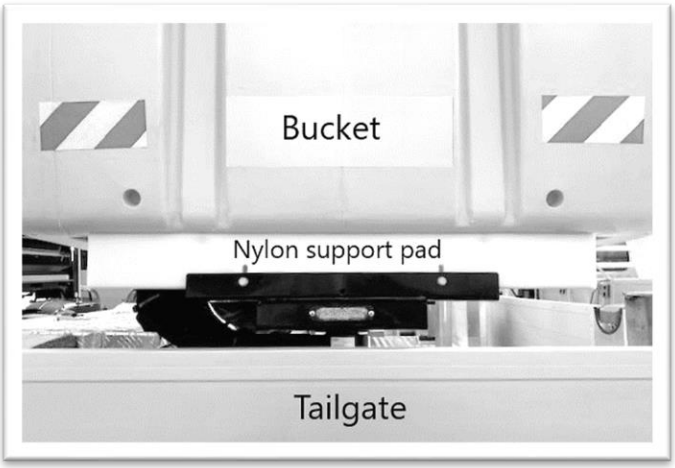


Fitment of aluminium / polycarbonate plate on the operators bucket if decals cannot be affixed to the bucket.

Plate size: 800 x 400 x 3 mm

Fitment of aluminium / polycarbonate plate on the operators bucket.

End view. Note spacers to be used.



(13) SPECIFICATION T2.2 TRUCK 4 X 2 WITH FITTED 18 M AP

CITY OF CAPE TOWN
ELECTRICITY ENERGY AND DISTRIBUTION

This Schedule of Technical Data must be fully completed and submitted with each offer, simply to state "comply" or "noted" is not sufficient, full details must be given.

SPECIFICATION T2.2

TRUCK 4 x 2 WITH FITTED 18 M AERIAL PLATFORM

SPECIFIED T 2.2	**DETAILS OF OFFER:**
SCOPE OF SPECIFICATION	
This specification provides for the supply of heavy-duty, 2 axle, diesel powered platform trucks fitted with 18 M telescopic aerial platforms conforming to the technical specification below.	
The vehicles are required for general electrical infrastructure maintenance within the CITY OF CAPE TOWN'S geographical boundaries. The supplied vehicle / aerial platforms combination shall be designed for and be capable of efficient and satisfactory operation under all South African weather conditions.	
Tenderers are to state here their choice of vehicle and aerial platform offered complying with the technical specifications as found in clauses 1 – 58 below.	
Vehicle: Make, Model	……
Aerial Platform: Make, Model	……
PROFESSIONAL PDF DOCUMENTS	
It is required that the tender document be completed in ink.	……
All documentation including that of the tender submission such as OEM brochures, technical drawings etc. must be in the English language and properly assembled in an appropriate lever arch file with clear labels indicating the various sections.	……
All documents submitted must in addition be scanned in PDF format and be submitted on a standard USB flash drive that is to be clearly labelled with the bidders company name, tender number and description.	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
1.	**T2.2 APPLICABLE STANDARDS**	
	The latest standard shall apply.	……
1.1	SANS 1055:2007 : Under run bumper	
1.2	SANS 1091:2012 : National colour standard	
1.3	SANS 1207:1998 Latest : Brakes	
1.4	SANS 1327:2004 : 7 pin trailer socket	
1.5	SANS 1329:4:2004 : Retro-reflective signs.	
1.6	SANS 1496:2017 : Wheel Flaps	
1.7	SANS 1517:2005 : Lubricating oil diesel engines	
1.8	SANS 1550-1:2017 : Motor vehicle tyres and rims.	
1.9	SANS 1700 : Fasteners	
1.10	SANS 8501-3:2008 Preparation of steel substrates	
1.11	SANS 10013-1:2006 : Internal combustion engines:	
1.12	SANS 10168:2002 : Seat belts	
1.13	SANS 10281:2003 : Sound levels	
1.14	SANS 12944:1998 : Steel corrosion protection.	
1.15	SANS 16368: 2014 Mobile elevating work platforms	
1.16	SANS 20049:2009 : Particulate pollutants engines	
1.17	SANS 20104:1998 : Reflective tape.	
1.18	Occupational Health and Safety Act No. 85 of 1993	
1.19	South African Road Traffic Act (Act 89 of 1989)	
1.20	ANSI/SAIA A92.2 – 2015 : MEWP Elevating Platforms	
1.21	EN 280:2013 MEWP Elevating Platforms	
2.	**T2.2 ENGINE**	
2.1	The vehicle preferably must be equipped with a common rail diesel engine delivering a maximum net output of not less than 120 kW and maximum net torque of not less than 450 Nm to SANS 10013-1: 2006 or latest version.	……
a.	Make and model	……
b.	Capacity cc	……cc
c.	Maximum Output not less than 120 kW (kW @ rpm)	……kw……rpm
d.	Maximum Torque not less than 450 Nm (Nm @ rpm)	……Nm……rpm
e.	Emission standard not less than Euro 2	……
f.	BSFC @ Max torque not greater than 220 g/kW/hr	……
2.2	The engine shall have as standard fitment, an engine protection system monitoring high water temperature, low oil level and low oil pressure.	……
2.3	**T2.2 ENVIRONMENTAL COMPLIANCE**	
a.	The vehicle emissions under start up and operating conditions shall comply with the International Euro 2 standard as a minimum. In this context emissions must conform to SANS 20049:2009 or latest version requirements and conformance reflected in attached brochures.	……
b.	As part of the emissions legislation, tenderers are required to demonstrate that the emissions control systems fitted to the proposed vehicles are durable and are able to maintain the vehicle emissions below the legislated limits for the useful life of the vehicle up to 100 000 km.	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
2.4	**ENGINE PERFORMANCE** The tenderers are to enter the data as requested in the attached table from attached brochures.	……

Engine (r/min)	1000	1200	1400	1500	1600	1800	2000	2200
Power (kW)								
Torque (Nm)								

3.	**T2.2 TRANSMISSION**	
3.1	A robust transmission using locally supported automatic manual transmission technology is preferably to be fitted. Fully automatic transmissions will however be considered. A PTO provision must be available at a convenient location on the transmission housing.	……
3.2	The tenderer may offer a fully automated transmission with torque converter and "hot shift" engaged PTO (World Series Allison or equivalent) and is to ensure that the gearbox and engine combination is perfectly matched in all respects and is to provide a SCAAN duty cycle simulation model as documentary proof thereof.	……
a.	Make and model	……
3.3	**GEARBOX PERFORMANCE**	
a.	The maximum speed attainable at V must not be less than 100 km/h.	……

Gear Ratio	Speed @ max rpm	Speed @ max torque	Gradeability @ V (%)	Gradeability@ D/T (%)
1				
2				
3				
4				
5				
6				
Rev				

3.4	**GRADEABILITY** A gradeability of not less than 25% in first gear at V is required.	……
a.	Gradeability @ V	……
4.	**T2.2 CHASSIS**	
4.1	A chassis of robust construction with a manufacturer's GVM rating of at least 10 000 kg is required.	……
a.	Wheelbase	……mm
b.	Overall width	……mm
c.	Overall length	……mm
d.	Overall height	……mm
e.	GVM rating	……kg
f.	V rating	……kg

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
5.	**CLUTCH (APPLICABLE IF AMT IS OFFERED) State make and model of clutch, and operation**	……
a.	Make	……
b.	Model	……
c.	Operation	……
6.	**T2.2 AXLES**	
6.1	**FRONT AXLE** The vehicle must be fitted with heavy-duty double acting shock absorbers at the front.	……
a.	Axle make / type	……
b.	Axle capacity	……kg
c.	Spring capacity	……kg
6.2	**T2.2 REAR AXLE** The vehicle must be equipped with a heavy-duty rear axle.	
a.	Axle make / type	……
b.	Axle capacity	……kg
c.	Spring capacity	……kg
d.	Final drive ratio	…… : 1
7.	**T2.2 BRAKES**	
7.1	The vehicle must be equipped with a braking system in compliance with the relevant SANS standards (SANS 1207:1998 or the latest version thereof).	……
7.2	The vehicle must have an ABS brake system as standard fitment.	……
a.	Brake system type (Air, Vac, and Hydraulic.)	……
b.	Emergency / parking brake (wheel operated)	……
c.	ABS brakes	……
8.	**WHEELS AND TYRES**	
8.1	The vehicle must be fitted with suitably sized steel belt radial tyres of preferably South African manufacture.	……
8.2	The size and ply rating must be the same and freely available within the geographical boundaries of the City of Cape Town.	……
8.3	All inner wheels should have valve extensions of the steel braided flexible type	……
8.4	All tyres including the spare wheel must be of the same manufacture, size and ply rating.	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
8.5	Tyre loads, as well as tyre to rim matching, must comply with SANS 1550-1:2005 or the latest version thereof.	……
a.	Size and ply rating	……
b.	Load factor	……
c.	Rim size	……mm
d.	Tyre size front	……mm
e.	Tyre size rear	……mm
f.	Quantity	……
g.	Inflation pressure (front) @ V	……kPa
h.	Inflation pressure (rear) @ V	……kPa
9.	**T2.2 STEERING**	
9.1	Power assisted steering is required.	……
a.	Turning circle (curb to curb)	……mm
b.	Turning circle (wall to wall)	……mm
c.	Number of turns lock to lock	……
10.	**T2.2 CHASSIS CAB**	
10.1	The cab must be able to tilt forward to expose the engine assembly and facilitate inspection and maintenance.	……
10.2	The cab is to have sufficient seating for 3 persons with front cab seats fitted with standard seat belts conforming to SANS 10168:2002 or the latest version.	……
10.3	The driver's seat shall be fully adjustable.	……
10.4	The steering wheel shall be adjustable for rake and height to facilitate operator comfort	……
10.5	A 2.5kg portable type fire extinguishers shall be provided and shall be easily accessible to the operator.	……
10.6	A warning red pilot light is to be installed on the dashboard to indicate that the PTO is in operation.	……
10.7	The PTO control switch needs to be clearly marked specifying its function and operation. Dyna tape or any form of stick on label is not acceptable.	……
10.8	The vehicle is to be fitted with an alarm immobilizer conforming at least to a VESA level 5 standard.	……
10.9	The alarm /immobilizer system must not rely solely on a key transponder.	……
10.10	The alarm system has to include an audible alarm which will activate a siren rated at least 120dB, if security on the vehicle is compromised for any reason.	……
10.11	A sound system incorporating a radio with station identification functionality, aux input, front USB input for mp3 audio is to be installed.	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER	
10.12	Sturdy firmly braced wheel flaps must be fitted behind the front and the rear wheels. SANS 1496:2001 or latest version.	……	
10.13	A sturdy rear under run bumper is required in terms of the South African Road Traffic Act, and must conform to (SANS 1055:2007 or the latest version thereof).	……	
10.14	A fuel tank of not less than 80L capacity is required.	……	
a.	Lockable fuel tank cap is required.	……	
b.	Fuel tank size	……	
c.	Lockable fuel tank cap	……	
10.15	A factory approved air conditioner shall be supplied as standard fitment.	……	
11.	**PAYLOAD REQUIREMENTS**		
11.1	The tenderer is to ensure that: V - T is greater or equal to 4000 kg Where :- V - T = minimum payload V = the permissible maximum vehicle mass T = the tare mass of the completed aerial platform with all fitments including maximum fluid levels but **excludes driver and passengers.**	……	
a.	GVM (not less than 10 000 kg	……kg	
b.	V (Permissible mass)	……kg	
c.	T (Tare mass)	……kg	
d.	V - T (not less than 4 000 kg)	……kg	
12.	**T2.2 AXLE LOADING**		
	Axle loads in kg as set out hereunder, must be stated as accurately as possible.	……	
12.1	**VEHICLE , LOADBODY AND PLATFORM**	**FRONT AXLE (kg)**	**REAR AXLE (kg)**
a.	Licencing / Tare mass (T)		
b.	Maximum payload from axle loading software		
c.	Fully laden		
d.	Maximum permissible legal axle mass		
e.			
12.2	Load distribution charts are to be supplied along with tender documents in support of figures in 12.1	……	
13.	**T2.2 ELECTRICAL SYSTEM**		
13.1	**ALTERNATOR**		
a.	The vehicle is to be fitted with an alternator capable of charging the battery whilst operating ancillary equipment and auxiliary lighting specified in this tender under engine idling conditions.	……	

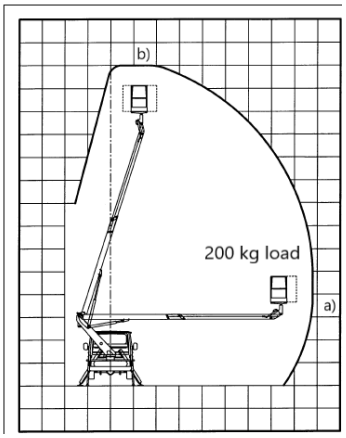
SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
b.	The resultant current draw by the accessories over and above that required by the chassis cab itself, is at least 50A.	……
b.1.	Alternator (Volts @ Amps)	……
b.2.	Starter motor (Volts , Power)	……
13.2	**BATTERIES**	
	Batteries shall be deep cycle type, maintenance free and permanently sealed and within a proprietary lockable battery box.	……
a.	Make / model	……
b.	Qty	……
c.	Capacity AH	……AH
d.	Lockable battery box	……
13.3	**ACCESSORIES**	
a.	All accessories to be rated 24V, alternatively a single proprietary 24/12V (Bosch Mobility or equivalent), suitably power rated converter must be fitted to power all 12 V accessories.	……
b.	Under no circumstances must auxiliaries be connected to one battery only.	……
c.	Electrical wiring diagrams detailing accessory connections to be furnished.	……
13.4	**ACCESORY JUNCTION BOARD**	
a.	It is required that an accessory junction board (RAMM, Safestop or equivalent models) such as that depicted in clause 3.5 of the General Technical Requirements be used for connection of the vehicle accessories.	……
b.	The fitment of the accessory junction board and accessories must in no way compromise the warranty requirements of the vehicle and aerial platform.	……
c.	Easily accessible, appropriately rated resettable fuses must be incorporated into all accessory circuits.	……
13.5	**T2.2 HOUR METERS**	
a.	An engine hour meter (Siemens VDO 24V or equivalent) which senses the operation of the alternator shall be incorporated in the cab preferably using existing accessory ports.	……
b.	An hour meter is to be connected to the live side of the dash mounted PTO light switch thus registering only when the PTO is activated. The hour meter must not register when the engine is switched off from the aerial platform bucket or the cab.	……
c.	The size of both hour meter displays (engine and aerial platform operation) shall facilitate the ease of reading whilst seated comfortably in the driver's position.	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
13.6	**LIGHTING**	
a.	The vehicle shall be equipped with lights in accordance with the latest compulsory South African Road Traffic regulations.	……
b.	Vibration free rear light assemblies, (Truck Lite LED type or equivalent) each consisting of a direction indicator / stop / rear position light and housed in sturdy metal protective cages, are required. The front of the cages, consisting of protective metal rods or grid, shall hinge open to allow easy access to the lights.	……
c.	In the event that the indicator flasher rate is altered after installation of the abovementioned LED units, a replacement electronic flasher unit assembly, rather than a load resistor, is the required method of restoring the flashing rate to the factory pre-set rate. The fitment of such a unit shall be factory approved and must in no way impact the chassis cab warranty.	……
13.7	**ALARM SYSTEM**	
a.	Apart from the normal key transponder and immobilizer to be supplied as standard fitment, an audible alarm system rated at approximately 120dB shall be professionally fitted by a VESA approved agent. All doors to be automatically locked by the transponder.	……
a.1.	Make and Model	……
a.2.	Accredited agency	……
14.	**T2.2 PAINT SPECIFICATION**	
14.1	**CHASSIS CAB PROTECTION**	
a.	The truck chassis cab must be finished in factory standard white.	……
b.	The cab is to incorporate a factory standard paint specification utilizing an anti-corrosion dip process and must provide at least three years corrosion protection in a coastal environment.	……
c.	The chassis, drive line components, and under body components are to be black in colour and protected with a proprietary under body coating. i.e. dry ice abrasive blasting then aluminium epoxy mastic such Carbomastic 15 or equivalent. If this coating is not supplied as factory standard then it is to be included in the tendered price.	……
14.2	**LOAD BODY AND SUB FRAMES**	
a.	The load body, chassis, all under body components, and aerial platform sub frame members must be suitably coated to provide at least 5 years corrosion protection in a coastal environment.	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
b.	The following coating specification shall be adhered to in this regard:-	……
c.	ISO 12944-5:2019 *Paints and varnishes — Corrosion protection of steel structures by protective paint systems — Part 5: Protective paint systems*	……
c.1.	Environment classification (C5-M) - coastal	……
c.2.	Durability classification (M)	……
d.	The following or equivalent substrate preparation in accordance with the above standard is to be achieved.	……
e.	ISO 8501-1:2007 *Preparation of steel substrates before application of paints and related products*	……
e.1.	Primer Coat – Carbomastic 15 or equivalent	……
e.2.	Final Coat – Carboline 134 white or equivalent	……
f.	All inner surfaces and seams on the vehicle must be treated with clear Tectyl or an equivalent rust-preventative material to safeguard the vehicle against rust for at least three years.	……
g.	Any compulsory inspections with regard to the above process will be carried out in the operational area of the vehicle by accredited agencies of the Tenderer.	……
15.	**T2.2 WARRANTY**	
15.1	The following are the minimum respective warranty periods acceptable to the City of Cape Town, fair wear and tear excluded.	……
a.	**MECHANICAL:**	
a.1.	Chassis cab drive train (2 years or 100000km)	……yrs……km
b.	**PAINT AND CORROSION PROTECTION**	
b.1.	Load body sub frame (5 years)	……yrs.
b.2.	Cab (3 years)	……yrs.
b.3.	Chassis underbody (5 years)	……yrs.
b.4.	Drive train components (5 years)	……yrs.
15.2	Full details of any warranties offered should be attached with tender documents.	……
15.3	Tenderers are expected to accept full responsibility for the complete truck and aerial platform combination and must under-write any guarantees offered by their sub-contractors.	……
16.	**T2.2 TRUCK SERVICE AND REPAIR**	
16.1	Please refer to Special Conditions of Contract section 37 for contractual accredited maintenance, servicing, spares and parts outlets.	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
16.2	The tenderer shall provide estimated maximum repair periods of the following truck components covering warranty and general repairs.	……
a.	Major Warranty (Engine, gearbox, differentials etc.)	……days
b.	Minor General (Servicing, brakes, clutch etc.)	……days
17.	**T2.2 TRUCK SPARES**	
17.1	Standardisation and mutual interchangeability of components is essential.	……
17.2	The tender shall indicate the spares availability and stock holding within South Africa for the make and model of the truck offered.	……
a.	Value of spares holding in South Africa	R……
b.	Spares availability (Major spares - Engine, gearbox etc.)	……%
c.	Spares availability (Minor spares / servicing spares)	……%
17.3	Fast moving service spares need to be available within the geographical area of City of Cape Town	……
a.	Location of spares outlets	……
17.4	Lead time of spares delivery ex warehouse outside the City of Cape Town geographical boundaries within South Africa.	……days
18.	**T2.2 CHASSIS CAB REQUIREMENTS**	
18.1	Relevant data sheets, engine performance curves, and brochures in support of the specified vehicle must be submitted.	……
18.2	A general arrangement drawing of the vehicle complete with installed equipment, showing all essential features, dimensions and weight distribution under a full operating cycle is required.	……
18.3	Essential tools, including a 6-ton hydraulic jack must be provided.	……
19.	**T2.2 AERIAL PLATFORM**	
19.1	It is required that the tenderer install a telescopic aerial platform onto the vehicle matching one of the following standards. The tenderer is to indicate to which standard the offered mobile aerial work platform complies to.	……
a.	SANS 16368: 2014 Mobile elevating work platforms — Design, calculations, safety requirements and test methods	……
b.	ANSI/SAIA A92.2 – 2015 : Vehicle-Mounted Elevating and Rotating Aerial Devices	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
c.	DIN EN 280: 2013 Mobile elevating work platforms: Design calculations - Stability criteria - Construction - Safety - Examinations and tests	……
19.2	The user / maintenance manuals supplied shall contain a signed declaration by the "responsible entity" (as defined in the standards), confirming the conformance of the aerial platform to this standard as well as to any local or international safety directives.	……
19.3	The aerial platforms offered have to match the aesthetics of the existing City of Cape Town's fleet of aluminium clad aerial platforms. The tenderers are to acquaint themselves with the current aerial platform fleet.	……
19.4	The compact telescopic aerial work platform shall comprise a turning turret, a fixed length main boom, a hydraulically operated telescopic boom and an operator's bucket, and a robust load body of aluminium construction.	……
19.5	The major components of the upper boom assembly are an outer boom, a telescoping inner boom, an extension cylinder, an electrical / hydraulic hose carrier system, and slide pads mounted on the inner and outer boom.	……
19.6	The aerial lifting device must be fitted onto a full length sub frame and load body and mounted directly onto the vehicle chassis as per the OEM body builders instructions.	……
19.7	The centre of gravity (CG) of the installed aerial platform with loadbody and all fitments should be as low as possible to vehicle chassis level for stability. Height of CG above vehicle chassis longitudinal from axle loading software.	……mm
19.8	The turning turret arrangement must not extend over the cab windscreen space and the top of the turning turret arrangement must preferably not be greater than 800 mm above the top of the cab roof.	……
19.9	It is preferable that the selected aerial work platform is of compact design and that its overall length can be comfortably accommodated on a load body fitted onto a standard truck chassis. (See 52)	……
19.10	The tenderer is to provide a concise drawing showing the general layout of the 18 m aerial work platform on the vehicle chassis.	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
20.	**T2.2 WORKING ENVELOPE**	
20.1	The working envelope is to be with two people at 200 kg load with H type outriggers not extending past the side of the truck more than 500 mm.	……
20.2	**WORKING ENVELOPE @ 200KG**  **a)** Working envelope with boom horizontal, fully extended on level ground @ 200 kg bucket load at least 7m on horizontal axis. **b)** Working envelope at maximum elevation, fully extended on level ground @ 200 kg bucket load at least 17m on vertical axis.	……m ……m
21.	**T2.2 AERIAL PLATFORM SUBFRAME**	
21.1	A full length high strength, lightweight sub frame to support the 18 m aerial work platform must be designed, fabricated using Domex or equivalent and fitted to the vehicle chassis sub frame according to the recommended aerial work platform and truck OEM body builder specifications.	……
21.2	The mounting brackets must be incorporated according to the recommended spacing and strategically placed where load transfer takes place i.e. at the platform base and at the outriggers.	……
21.3	Full firm contact is to be made between the aerial platform sub frame and the chassis sub frame i.e. no gaps must be evident.	……
21.4	The sub frame must be capable of withstanding maximum design loads imposed upon it during a full range of operations.	……
21.5	It is preferred that the pedestal of the aerial platform be situated in-between the sub frame longitudinal and not on top to keep the centre of gravity as low as possible.	……
21.6	Side and cross bearer members of the aerial platform sub frame shall be of suitable dimension to ensure torsional stability of the assembly as well as provide adequate support for the load body.	……
21.7	The sub frame components shall be designed and constructed from Domex or equivalent steel using pressed / hollow sections for the lowest mass / strength ratio possible according to OEM standards for the vehicle and fitted aerial platform.	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
21.8	The design of the sub frame as well as the fitment methods shall be approved by the aerial platform manufacturer and vehicle supplier.	……
21.9	Documentary evidence of such approval shall be submitted.	……
21.10	A general layout diagram showing all pertinent dimensions and fitment methods must be included with the tender offering.	……
22.	**T2.2 AP LOADBODY CONSTRUCTION**	
22.1	A light weight yet robust platform load body with 500 mm fixed sides, rear tail gate, and free draining, non-slip decking is required to be fitted to the aerial platform sub frame and then mounted to the vehicle chassis.	……
22.2	Side plates, walls and tailgate must be constructed from locally available interlocking anodised aluminium rectangular profiles / planks and shall be supported by robust centre and corner posts as per the current fleet of aerial platforms using such profiles.	……
22.3	The material used for the sides, ends, tailgate of the load body shall be of aluminium alloy 6063 T6 (or equivalent) extrusion 25mm width and 2mm wall thickness.	……
22.4	The decking of the platform load body must be slip resistant and free draining and must be adequately supported by sturdy side bearers welded / bolted to the aerial platform sub frame to prevent a deflection of the decking in between supports more than 1mm under normal loading conditions.	……
22.5	The floor decking shall be raised pattern non-slip solid floor plate, Floorex 3Cr12 (or equivalent) and at least 4mm nominal thickness.	……
22.6	The cab protector / bulkhead must be of sturdy design section mild steel grade 300W hot dipped galvanised.	……
22.7	A robust boom rest bracket constructed from mild steel grade 300W hot dipped galvanised fitted with resilient pad, with lower boom locking device is to be supplied for firm boom support and compact travelling whilst in the stowed position.	……
22.8	The hot dip galvanized coating shall conform in every respect to the standards contained in SANS 121 (ISO 1461:2009) and SANS 32 (EN 10240:1997).	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
23.	**T2.2 LOADBODY MATERIAL**	
23.1	The following is a list of essential materials and is not to be construed as a complete material list.	……
a.	**Side panels, side access and tail gate**	
a.1.	Aluminium alloy 6063 T6 (or equivalent)	……
b.	**Decking**	
b.1.	Floorex 3Cr12 (or equivalent)	……
b.2.	Nom thickness 4mm +/-	……mm
c.	**Sub frame**	
c.1.	Domex (or equivalent)	……
d.	**Cab protector**	
d.1.	Grade 300W steel section galvanised.	……
e.	**Floor decking support bearers**	
e.1.	Grade 300W steel section galvanised.	……
e.2.	**Load body manufacturer**	……
24.	**LOADBODY ACCESS**	
24.1	A safe, sturdy yet lightweight means of access to the platform load body should be provided on the curb side by means of a robust step arrangement and must include side grab rails.	……
24.2	The rise of steps or rungs must be uniform and must not exceed 300 mm. The steps or rungs must be slip resistant.	……
24.3	A toe rail must be incorporated to prevent the operator slipping whilst attempting to enter the load body. (See 54 for typical side step configuration)	……
25.	**LOADBODY DIMENSIONS**	
25.1	A maximum legal body length and a width of not less than 2200 mm is required. Tenderers must offer the best length to match their chassis, taking correct mass distribution and appearance into account.	……
a.	Length	……mm
b.	Width	……mm
25.2	The body must be complete in all respects and fitted to the vehicle in such a way that it is in full compliance with the South African road ordinances, tyre pressures restrictions and with correct mass distribution.	……
25.3		
25.4	It is required that the fitment of the load body be inspected and approved by the chassis cab manufacturer in writing, a copy of which is to be submitted on delivery.	……
25.5	The tenderer is to supply comprehensive drawings showing pertinent dimensions of the chassis cab, load body and aerial platform combination with the tender submission.	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
25.6	Two Aluminium toolboxes 2000mm x 600mm x 500mm and 1300mm x 600mm x 500mm shall be included as standard fitment the location of which shall be decided in consultation with the City of Cape Town.	……
26.	**BOOM ARRANGEMENT**	
26.1	The lower pedestal shall be of a sturdy design to support the rotation bearing and be capable of supporting forces generated through the turning turret and telescopic booms in the operation of the aerial platform.	……
26.2	The rotation drive assembly is to be fully adjustable to permit reduction of rotation gear backlash, boom side play and to ensure proper tooth contact over the life of the unit.	……
26.3	The rotation drive assembly (including pipes, fittings, electronics) is to be protected by a removable cover mounted on the load deck encircling the base of the aerial platform to eliminate any damage being sustained to the drive assembly whilst the aerial device is rotating.	……
26.4	The diameter and height of the cover must clear the swing of the rotation drive assembly. The cover arrangement must not allow water to accumulate in the space occupied by the rotation drive assembly.	……
26.5	The upper and lower booms are to be a reinforced, torsion resistant, steel box design of adequate cross section to carry all imposed loads without excessive rotation or deflection of the booms at maximum extension.	……
26.6	The upper boom assembly is extended and retracted by means of a double acting hydraulic cylinder and chain arrangement where applicable over polyethylene slide pads bearing arrangements located in the end of the lower boom.	……
27.	**SLIDE PAD ARRANGEMENTS**	
27.1	The telescopic boom adjustable slide pad arrangement is to comprise not less than four (4) adjustable lateral polyethylene (or equivalent strength polymer) wear pads located at the boom end to minimise the lateral play in the inner telescopic boom.	……
27.2	The vertical play in the telescopic boom shall be controlled by means of wear pads located at the top and bottom of the fixed boom.	……
27.3	In all cases above the wear pads must be adjustable to allow the recommended space between pad and sliding member and must have a positive locking arrangement to ensure that the pad positions do not alter during normal operations of the boom.	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
28.	**T2.2 AERIAL WORK PLATFORM**	
28.1	The aerial platform shall be operated by means of a close coupled PTO, a closed circuit hydraulic pump arrangement, with replaceable hydraulic filters, suction strainer, return line filters, relief valves, and change over valves and reservoir and incorporating a failsafe system.	……
a.	Safe work load	……kg
28.2	The turntable shall be mounted on roller bearings and propelled in both directions by means of a hydraulic motor.	……
28.3	The aerial platform must have a rotation capability of minimum 340 deg taking into account the required dead band over the width of the cab.	……
a.	Maximum rotation	……deg
28.4	The turntable shall be self-locking in all positions.	……
29.	**T2.2 RESERVOIR**	
29.1	The reservoir shall preferably be of robust sufficiently stiffened stainless steel construction and be so constructed as to have a low end where water and contaminants will settle.	……
29.2	A tap shall be located at the lowest point of the reservoir for oil inspection and drainage purposes.	……
29.3	The pump intake port on the reservoir shall located at a point where no settled contaminants can be sucked into the pump inlet.	……
29.4	The reservoir shall incorporate baffles to separate returning hydraulic fluid from that being drawn into the pump. See clause 3.4 of the General Technical Requirements or general layout drawing.	……
29.5	The reservoir volume is to be approximately three (3) times the maximum pump flow rate so that under no circumstances during the normal 8 hour operation of the platform shall there be any instances of foaming, hydraulic cavitation or overheating.	……
29.6	The strainer arrangement is to be located in a position to facilitate ease of maintenance without the need for emptying the reservoir.	……
29.7	The reservoir is to incorporate a sight glass / inspection port to easily check hydraulic oil level and an oil temperature gauge.	……
29.8	The reservoir is to be positioned flush against the rear bulkhead.	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
29.9	The reservoir shall be fitted with a lockable reservoir cap. The reservoir should incorporate a separate breather fitted with 40-µm air filtration with a hydroscopic medium to absorb airborne moisture.	……
29.10	The hydroscopic filter shall indicate saturation of the hydroscopic material requiring replacement.	……
29.11	The reservoir breather system shall be positioned away from the reservoir to avoid water contamination by vehicle washing or any other external environmental factors.	……
30.	**T2.2 HYDRAULIC PUMP AND POWER TAKE OFF**	
30.1	The PTO must be either electrically or air operated. Cable operation will not be accepted.	……
30.2	The tenderer shall supply the power take off on the vehicle complete with a factory approved wiring loom interlinking to the vehicle computer ECU (making provision for an electronically controlled PTO).	……
30.3	The PTO must be supplied with a failsafe system interlinked to the handbrake, accelerator and idle up switch of the vehicle.	……
30.4	The PTO and hydraulic pump are to be rated at 20 % higher than the individual maximum demand placed on it by the operation of the aerial platform.	……
30.5	The hydraulic requirements for the aerial platform taking into account the peak operating performance are to be listed below.	……
a.	AP operation – not less than 15 l/min @ 800 rpm	……
b.	Maximum pump flow rate / pressure	……
c.	Reservoir volume (at least 3 x max pump flow rate)	……
d.	State the truck engine rpm at which the hydraulic flow rate required by the aerial platform will be achieved	……
e.	Make / Model (PTO)	……
f.	Make / Model Hydraulic Pump	……
g.	Pump type	……
30.6	All cylinders, piston rods, pipes, hoses, valves and fittings must be able to withstand a static pressure of 3 times the maximum operating pressure without permanent deformation.	……
30.7	All piston rods to be hard chromed and ground for extended seal life. Pins are high strength alloy steel and zinc plated for corrosion resistance.	……
30.8	Where practically possible, all exposed piston rods are to be enclosed with concertina type protective boots.	……
30.9	Check valves shall be provided to lock the cylinders positively in position while the controls are not being operated.	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
30.10	Hydraulic systems shall be such that free descent cannot occur in the event of a hose or fitting failure.	……
31.	**T2.2 EMERGENCY HYDRAULIC PUMP SYSTEM**	
31.1	An emergency pump is to be installed to lower the boom arrangement. This system provides a 24V DC motor driven hydraulic pump connected in parallel with the engine driven hydraulic pump.	……
31.2	A control is to be provided at the upper controls to actuate the emergency lowering motor. The pump is driven by the auxiliary battery pump.	……
31.3	An emergency hand pump with fail safe device shall be incorporated for lowering of the bucket in case of emergency. The handle of the hand pump shall be galvanized.	……
31.4	An inline pressure transducer (Turck PS510-400-04-LI2UPN8-H1141) or equivalent shall be incorporated in an appropriate and easily accessible location in the hydraulic circuit. The installation shall include all piping, a 24V power supply to the transducer and electrical connection to a digital display located either in or next to the lower control bank.	……
31.5	All valves are to be clearly marked / labelled to indicate functionality.	……
31.6	Hydraulic pump curves as well hydraulic circuit diagrams are required in support of the specified parameters. The drawings are to indicate safety devices and operating logic.	……
31.7	All hydraulic connectors and fittings shall be plated for corrosion resistance. The plating used shall be offer the same corrosion resistance as stainless steel. Denso tape or equivalent will not be accepted.	……
32.	**T2.2 STABILISING SYSTEM**	
32.1	The vehicles shall be equipped with two sets of H type hydraulic outrigger jack systems located at the front and rear of the vehicle load body. Alternative arrangements will be considered only if it can be proved that the H type outriggers cannot provide the desired stability ratio of at least 1.5 in terms of overturning moment at any point in the boom travel at maximum extension.	……
32.2	The hydraulic stabilisers (outrigger) system shall incorporate a hydraulic mechanical interlock between the boom and outrigger jacks to prevent the hydraulic platform from being operated unless the outrigger jacks are fully deployed.	……
32.3	A visual and audible alarm shall be provided which shall sound if an attempt is made to move the vehicle with the outrigger jacks not fully stowed.	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
32.4	In the stowed position the outrigger jacks shall not protrude beyond the outer edge of the vehicle and shall have a minimum ground clearance of 300mm.	……
32.5	The outrigger legs shall be operated by controls located independently from the aerial platform controls.	……
32.6	All four outrigger leg extenders to be supplied with load holding valves.	……
32.7	The deployed outriggers shall not be able to retract in the event of hydraulic line failure.	……
32.8	A set of four stabilizer swivel foot pads Nylacast or equivalent at least 40mm thick, suitable for sand / soft soil conditions are to be supplied and housed in a suitable sturdy steel / PVC box fixed under the load deck as standard fitment.	……
32.9	The stabilizer feet shall be constructed so as to accommodate ground unevenness of at least 10° and point loads which may be encountered.	……
32.10	It is preferable that the vehicle and aerial platform combination be designed to be operationally stable with the outriggers not extending beyond the outer edge of the vehicle. The outriggers are to be fitted with reflective safety marking whilst in the extended position.	……
32.11	The outrigger legs must be located on the outside of the load body but not extend beyond the outer edge of the vehicle.	……
33.	**T2.2 AERIAL PLATFORM CONTROL SYSTEM**	
33.1	The aerial platform shall be operated by means of two hydraulically controlled valve banks. One fitted at the base on the curb side and one at the operator's bucket.	……
33.2	The lower control bank shall have an overriding facility over the top bank for lowering of the bucket under emergency circumstances.	……
33.3	The outrigger control bank shall be located on the curb side of the vehicle and be easily accessible to the operator.	……
33.4	All controls must be "dead man" type which automatically return to neutral or the off position when released. Under no circumstances may there be hydraulic creep while the controls are in the neutral position.	……
33.5	The direction of all movements of the elevating work platforms must be indicated by arrows on the control device. All controls must be positioned for logical operation and be clearly marked to show their function in legible letters and / or symbols.	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
33.6	The upper control bank shall be mounted at a suitable ergonomically correct position on the exterior of the operators bucket and be electrically insulated from it and shall be suitably enclosed in a robust polyethylene / glass fibre waterproof enclosure to protect it from accidental damage.	……
33.7	An emergency stop control which will cut off power must be provided at each control position. It must be prominent and coloured red.	……
33.8	The controls must be of robust construction and waterproof to class IP65.	……
33.9	All operating levers shall be protected by suitable insulating material and located in a protected area. The controls supplied shall be of precision manufacture to allow the operators a fine and smooth control of the aerial platform.	……
33.10	An interlock shall be provided which will make it impossible to raise or lower the platform while the vehicle is in motion. The slewing mechanism shall be provided with a service brake.	……
33.11	The control system offered must include limits which prevent the booms extending beyond its safe working range in any position i.e. preventing the vehicle from overturning.	……
33.12	A start stop switch to allow the vehicle engine to be operated from the operators bucket shall be connected. The fitted PTO must stay engaged when the engine is switched on/off from the bucket controls.	……
33.13	A proprietary electronic rev lifting device to be installed at PTO engagement. The device is to be programmable from low idle speed to a max of 900 rpm with no adjustment possible from the operator.	……
33.14	Pilot lights in the cab have to be activated on PTO engagement.	……
a.	Green – PTO deactivated	……
b.	Red – PTO activated	……
c.	Red - Outriggers extended	……
d.	Green - Outriggers fully retracted	……
33.15	The outrigger controls located on the curb side of the truck load body shall allow for the outriggers to be individually selected or all operated simultaneously by means of one lever.	……
33.16	A facility coupled to the outrigger system for deploying only the two rear outriggers with manual levelling options shall be called the ROD (Rapid Outrigger Deployment) and offered as an optional extra. The aerial platform will then be able to operate safely with the full working envelope restricted approximately 45 degrees of the vehicle centre line to the rear of the vehicle.	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
33.17	To prevent the damage to the load body tail gate an appropriate upper boom limiting device needs to be incorporated to restrict the extension of the upper boom and or lowering of the boom unless the load body tail gate is cleared. The upper boom needs to be fully home before the boom can be placed in the rest position	……
34.	**BOOM ROTATION LIMITER**	
34.1	The platform is to be equipped with a motion limiting device which automatically prevents the aerial platform from making any contact or crashing into the cab or cab protector.	……
34.2	A boom rotation limiter override button is to be installed at the upper and lower control banks which allows the aerial platform main boom to be traversed over the region of the width of the cab in emergency conditions.	……
35.	**T2.2 OPERATORS BUCKET**	
35.1	The operator's bucket manufactured from HDPE polyethylene (or equivalent strength thermoplastic polymer) , grey in colour , designed to comfortably accommodate 2 (two) persons' plus the tools held in an on board bucket tool storage compartment which could constitute a safe work load of not less than 200kg	……
35.2	The bucket must be supported evenly on its base with no point loading. The use of full working width, perimeter support on Nylon 6 (or equivalent) bearing pads of sufficient dimension is required. Any alternative design meeting the OEM performance standards is accepted. See 58.	……
35.3	Insulated safety straps connecting the bucket support bracket to the main boom bucket support structure must be incorporated to prevent the bucket from becoming fully detached.	……
35.4	A safe means for boarding the bucket shall be provided and installed. Bucket entry shall be on the curb side.	……
35.5	The bucket and all associated controls shall be electrically insulated from the frame to which it is attached against a potential difference of 1000V to earth.	……
35.6	A load limiting device shall be incorporated in the bucket to ensure that the safe working load of 200kg is not exceeded.	……
35.7	The dimensions of the lifting bucket accommodating 2 persons shall be not less than 1300 mm width x 750 mm depth x 1100 mm height.	……
a.	Lifting bucket dimensions: W x D x H (mm)	……
35.8	A hydraulically powered bucket rotation facility is to be incorporated allowing not less than 50 deg left and right rotation of centre.	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
35.9	The bucket shall be fitted with drainage holes at the lowest part of the bucket.	……
35.10	A grating spanning the area of the bucket floor shall be neatly fitted onto the bucket floor taking into account ease of removal. Vitaglass moulded grating 38x38x38mm depth or equivalent is to be used. A sheet of PVC approximately 7mm thick is to be placed on the bucket floor upon which the grating will be placed.	……
35.11	Fall protection attachment point brackets shall be provided and shall be positioned so that they do not interfere with the free movement of the operators and shall comply in all respects with the relevant standards.	……
35.12	A robust load test bracket arrangement is to be centrally fitted to the bottom of the bucket support frame and be able to safely withstand double the rated safe working load. Standard load test cables must be able to be connected to the bracket by means of standard shackles.	……
35.13	The bucket support attachment to the frame must maintain the 1000V electrical insulation whilst being robust enough to endure the vibration loading due to the typical road surface roughness within the City of Cape Town's geographical boundary without the securing bolts pulling out. The International Roughness Index (IRI) as it pertains to the roads in the Western Cape has reference.	……
35.14	The following publication has reference "Guidelines for Network Level Measurement of Road Roughness" This guideline was compiled under auspices of the COTO Road Network Management Systems (RNMS) Committee. (Mr Mervyn Henderson of the Western Cape Provincial Administration (WCPA) and Mr Louw Kannemeyer of the South African National Roads Agency (SANRAL)	……
35.15	The Tenderer shall submit drawings indicating bucket dimensions and type of materials used as well as the frame attachment details.	……
36.	**T2.2 BUCKET LIGHTING**	
36.1	The bucket is to be fitted with standard 12V electrical connections in order to power two proprietary LED flood lamps rated at least 20 W with a light output of at least 1600 lumens enclosed in a class IP 65 housing.	……
36.2	All fasteners used for the fitment of such LED flood lamp are to be stainless steel.	……
36.3	Tenderers are to supply a 12V 110AH gel type deep cycle battery, as well as an appropriate method of linking to the vehicle electrical charging circuits. The alternator supplied shall also be capable of charging this battery bank.	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
36.4	The proposal must be accompanied by circuit diagrams showing all relevant detail i.e. lockable battery box, wiring routing from the under load body steel battery box to bucket taking into account the telescopic upper boom, battery charging, and electrical protection devices.	……
36.5	The proposed bucket lighting system must not place any demand on the vehicle battery system and must be able to operate for at least 8 hours continuously at 100% light availability.	……
36.6	Three bright amber flashing (Gen 3 LED or better) light clusters fixed to the sides and rear of the bucket support frame are required. Each light cluster must incorporate at least 3 Gen 3 LED's. The robust light housing bracket must be constructed of stainless steel, be vibration resistant and waterproof. The lens cover must be clear UV resistant polycarbonate. A warranty period of at least 10 years is required.	……
37.	**T2.2 BUCKET AUTOMATIC LEVELLING**	
37.1	An automatic hydraulic levelling system which shall hold the bucket floor horizontal at all times, is required. A bucket relying on gravity alone for levelling will not be considered.	……
37.2	The levelling system shall have an adjustable override to accommodate any adjustments required by the operator.	……
38.	**T2.2 AERIAL PLATFORM PRE DELIVERY TESTS**	
38.1	The aerial work platform shall be thoroughly inspected and performance tested as per OEM recommendations contained in the standards to which it was built prior to delivery to the City of Cape Town.	……
38.2	The inspection and performance test is to be conducted by a registered LMI (Lifting Machinery Inspector) who shall be fully conversant with the requirements of SANS 50280, 16368, 18893, BS EN 61057 and ANSI A92.2 as per the requirements of LMI registration.	……
38.3	The aerial work platform shall, in addition, be subjected to a statutory test to 110% of the working load applied over the whole operating range as required by the Occupational Health and Safety Act No. 85 of 1993 and relevant General/ Driven Machinery Regulations DMR 18 5(a) ensuring that every part of the installation is stressed accordingly.	……
38.4	The above to verify that the aerial work platform is stable, structurally sound, the operating functions work correctly and safely and the mandatory markings are properly affixed.	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
38.5	Certified copies of the appropriate LMI certification for the above tests shall be submitted on written request by the City of Cape Town.	……
38.6	The cost of the load test and certification documents and all materials used shall be included in the tender price.	……
39.	**T2.2 WIND LOADING**	
39.1	The aerial platform is to be able to perform safely throughout its full operating range whilst experiencing wind speeds of up to 12 m/s i.e. typical South Easter wind loading conditions in the Cape Town CBD.	……
40.	**T2.2 AERIAL PLATFORM PERFORMANCE**	
40.1	The hydraulic platform in normal use will be subject to 40 duty cycles per day. The design and manufacture of the unit shall be such that the life expectancy of the load bearing members shall not be less than 8 years or 80 000 duty cycles.	……
40.2	Elevating speed shall be adjustable between 0.1 – 0.4 m/s measured at maximum extension.	……
40.3	Slewing speed at maximum reach shall be adjustable between 0.1 - 0.4 m/s measured at maximum extension.	……
40.4	Graphical detail, depicting the full working performance range horizontally and vertically must be supplied.	……
40.5	The time taken to deploy all outriggers and level the aerial platform should not be greater than 1 min. (On level ground)	……
40.6	The time taken for the boom to rotate 180 degrees at maximum extension should not be greater than 1 minute.	……
40.7	The time taken to achieve maximum height at maximum extension of the boom should not be greater than 90 seconds.	……
41.	**T2.2 DRIVABILITY AND STABILTY SIMULATION**	
41.1	It is required that any vehicle and aerial platform combination offered in this tender is driveable and stable i.e. fit for purpose under normal operating and road conditions as is found in the geographical boundary of the City of Cape Town.	……
41.2	See clause 36 of the Special Conditions of Contract in this regard	

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
42.	**T2.2 MARKING AND DECALS**	
42.1	The following information shall be displayed in clearly visible permanent lettering on the aerial work platform:	
a.	Make, model, serial number, manufacturer's details	……
b.	Safe working load	……
c.	Maximum platform working height	……
d.	The working voltage to which it is insulated	……
e.	Warnings or restrictions necessary for safe operation	……
f.	All valves clearly marked and labelled	……
g.	The instruction "Read work platform manual" for servicing /operating instructions	……
42.2	It is required that yellow reflective tape (3M C E1 104 R-00821) or equivalent is to be fitted to the aerial platform i.e. full length of both booms as well as the perimeter of the platform load body as required by South African Road Traffic ordinances. All necessary statutory decals are to be fitted to the aerial platform.	……
42.3	Outriggers should be fitted with 3M C E1 104 R-00821 reflective tape (or equivalent) not less than 50 mm wide. Covering the full length of the retracted outrigger. (white facing front, red facing rear)	……
42.4	The rear facing section of the operators bucket has to be suitable for the application of decals as per clause 57 of this technical specification.	……
42.5	In the event that decals cannot be applied to rear face of the operators bucket, an aluminium / polycarbonate plate needs to be fitted to the bucket upon which the reflective tape decals as indicated in clause 57 will be applied. The fitment of the plate must be acceptable to the aerial platform OEM.	……
42.6	The fitment of such a plate shall in no way compromise the 1000 V insulation requirement of the bucket	……
a.	The size of the plate shall be approximately:	
a.1.	3mm (t) x 400mm (h) x 800 mm (w).	……
42.7	The tenderer to ensure that all necessary decals are fitted at their correct positions. (See 57)	
a.	Bucket chevrons	……
b.	Working envelope	……
c.	Maximum load	……
d.	Operational lever decals – upper and lower boxes	……
e.	Safety decals with instructions (Safety equipment)	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
43.	**T2.1 AERIAL PLATFORM MATERIALS AND SPARES**	
43.1	**T2.2 AERIAL PLATFORM MATERIALS**	
a.	For maintenance purposes the tenderer must specify all materials used in the construction of the aerial platform in the supplied spares manual i.e. specifically booms, pins, bushes and hoses. All these items are to be highlighted.	
a.1.	Booms	Page ……
a.2.	Pins	Page ……
a.3.	Bushings	Page ……
a.4.	Hoses	Page ……
43.2	**AERIAL PLATFORM SPARES**	
a.	Standardisation and mutual interchangeability of components is essential.	……
b.	The tenderer shall indicate the spares availability and stock holding within South Africa	……
b.1.	Value of spares holding in South Africa:	R……
b.2.	Spares availability (Major spares - booms, electronic control units etc.)	……%
b.3.	Spares availability (Minor spares / servicing spares)	……%
43.3	Fast moving service spares need to be available within the geographical area of City of Cape Town	
a.	Location of spares outlets:	……
b.	State lead times that can be expected:	……
43.4	Lead time of spares delivery ex overseas OEM warehouse.	……days
43.5	Lead time of spares delivery ex warehouse outside City of Cape Town geographical boundaries within South Africa	……days
44.	**T2.2 AERIAL PLATFORM SERVICE**	
44.1	Please refer to Special Conditions of Contract section 37 for contractual accredited maintenance, servicing, spares and parts outlets for the aerial platform.	……
a.	List the accredited local service agencies (if available) at time of tender for servicing the aerial platform.	……
b.	State the aerial platform service delivery turn-a-round times that can be expected.	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
45.	**T2.2 DOCUMENTATION ON DELIVERY**	
45.1	Three copies of the comprehensive operating, maintenance manuals, spare parts manuals and training manuals in professional PDF format in the English language as well as in a properly bound book must be provided by the manufacturer.	……
	The following is to be included in the manuals:	
a.	Operation instructions	……
b.	Service schedule	……
c.	Lubrication schedule	……
d.	Routine checks	……
e.	Restrictions on use of the machine	……
f.	Advice that could affect the safe use of the machine	……
g.	Manufacturers spare parts list	……
h.	Statutory inspection registers	……
45.2	Load test certificates signed by an LMI.	……
45.3	An oil analysis certificate from an approved inspection authority.	……
45.4	A sample of hydraulic oil shall be taken from the oil reservoir for spectrographic analysis and a report shall be supplied. The cost of which will be included in the tender price.	……
45.5	A structural engineers certification letter for the aerial platform from the design engineer or his representative must be received on delivery.	……
46.	**T2.2 TRAINING**	
46.1	Training in the proper operation of the aerial platform and truck must be provided and included in the tendered price.	……
46.2	The training should be adequate to transfer the required skills in the safe operation of the aerial platform and vehicle to the City of Cape Town's operating staff.	……
46.3	A minimum of two employees per vehicle ordered needs to be catered for. A training manual is to be provided.	……
47.	**T2.2 PAINT SPECIFICATION AERIAL PLATFORM**	
47.1	The aerial platform paint process is to be according to the following or equivalent:	……
a.	Surface preparation ISO 8501-1:2007	……
b.	Primer coat – Carbomastic 15 or equivalent	……
c.	Final coat – Carboline 134 or equivalent White	……
47.2	The aerial platform paint dry film thickness is not to be less than 100 µm	……

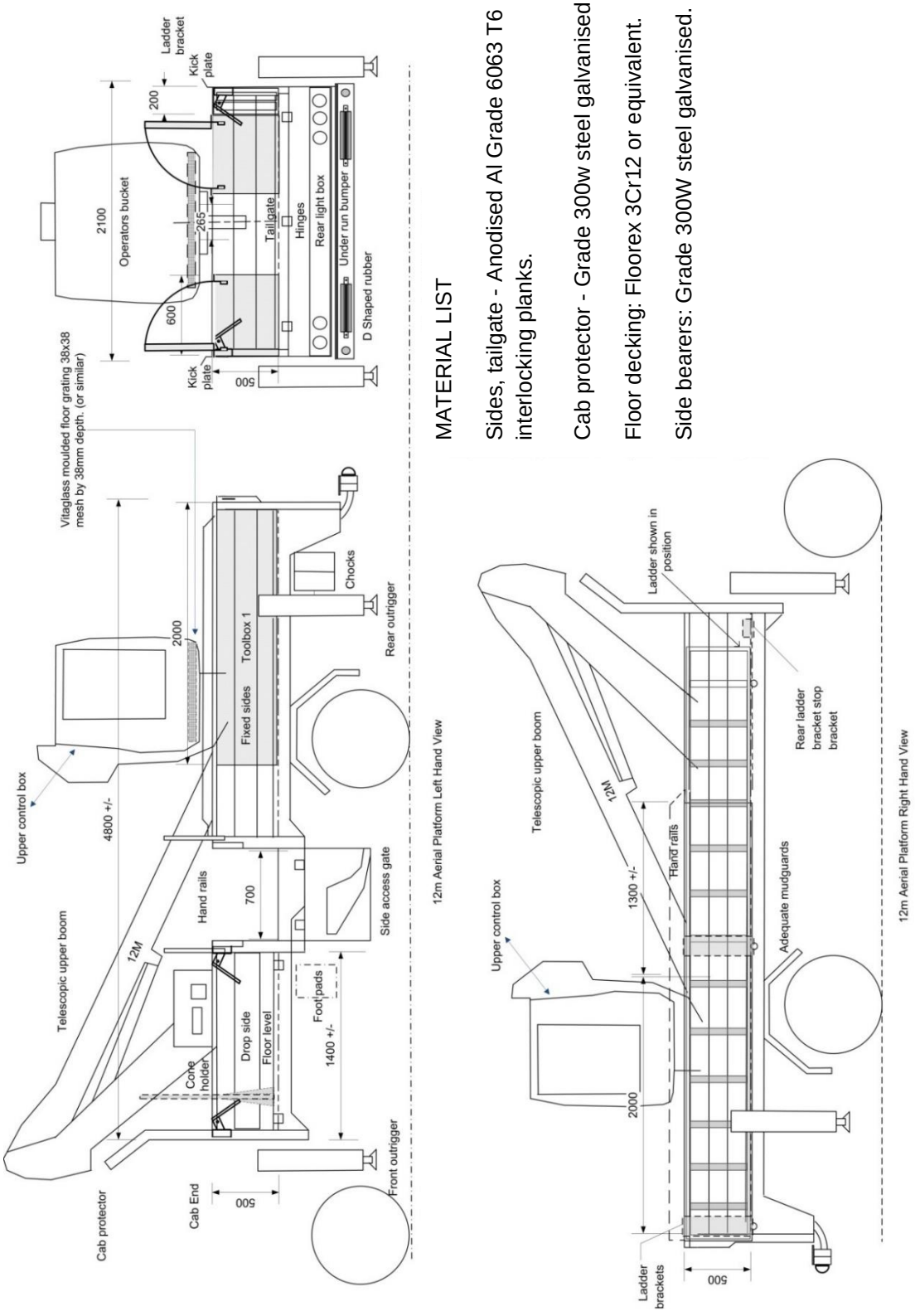
SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
47.3	It is important that the inner surfaces of the booms are to be given marine quality protection against corrosion. Proof of such protection must be supplied at delivery.	……
48.	**T2.2 WARRANTY AERIAL PLATFORM**	
48.1	The warranty period for the structural and hydraulic components shall not be less than 1 year and shall commence from the official date in service of the vehicle and the mounted equipment.	……
48.2	The paint coating specified is to offer marine quality protection against corrosion for at least 5 years.	……
48.3	Where it is found that the structural integrity of booms is impacted severely due to internal corrosion, the replacement of such booms will be for the tenderers account.	……
48.4	Tenderers shall also undertake to ensure that satisfactory after sales and maintenance support is provided.	……
48.5	The main tenderer is to fully underwrite any warranties given by their subcontractors.	……
48.6	Tenderers shall also undertake to guarantee that satisfactory after sales and maintenance support is provided in the geographical area of the City of Cape Town. See Special Conditions of Contract section 37	……
49.	**T2.2 DELIVERY**	
49.1	Tenderers must specify dispatch period after placing of order clearly in terms of lead-time, rate of dispatch and completion of contract.	……
a.	Lead time for initial delivery of complete unit	……
b.	Chassis cab	……
c.	Load Body	……
d.	Aerial Platform	……
49.2	The fully licensed vehicle (homologation must be included in the tendered price) complete with a current CRW certificate is to be delivered to the City of Cape Town's Mechanical Workshops at Ndabeni 13 Melck St. or as stipulated on the City of Cape Town's purchase order.	……
49.3	A chassis cab service plan covering the period of five (5) years or 100,000 km and a service plan covering the aerial platform for a period of five (5) years must be included in the total price of the vehicle. Full details of such service plan should be supplied with tender.	……
49.4	The price of a pre-delivery service for each vehicle must be included in the tendered price where such service is recommended by the manufacturer.	……

SPECIFICATION T 2.2 TRUCK 4 x 2 WITH 18 M AP		DETAILS OF OFFER
49.5	The homologation certification cost must be included in tender price and submitted at time of delivery	……
49.6	The vehicle registration and licensing cost must be included in the tender price.	……
50.	**T2.2 STANDARD FITMENT ITEMS**	
50.1	The following items shall be included in the total tendered price as standard fitment items.	……
50.2	A 2,5 kg dry powder fire extinguisher fitted in a suitable position in the cab.	……
50.3	A robust lockable, robust plastic / polyethylene document container to hold logbooks, instruction documents, manuals. The container must be sized to comfortably accommodate A4 documents. The container will be fitted in a convenient place in the cab.	 ……
50.4	Set of 4 HDPE polyethylene foot pads	……
50.5	Foot pad holder box	……
50.6	Set of 4 HDPE polyethylene chocks	……
50.7	Chock holder box	……
50.8	Emergency 24V DC hydraulic pump and hand pump.	……
50.9	A hydraulically powered bucket rotation system.	……
50.10	One cone holder (See 56)	……
50.11	One 9kg gas cylinder holder. (See 56)	……
50.12	Set aluminium ladder brackets. (See 56)	……
50.13	Aluminium toolbox 2000 x 600 x 500 mm (See 55)	……
50.14	Aluminium toolbox 1300 x 600 x 500 mm (See 55)	……
51.	**T2.2 Extras**	
51.1	Rapid Outrigger Deployment control system (ROD)	……
51.2	Supply and fit of a Battery powered hand wash unit (Teal or equivalent)	……

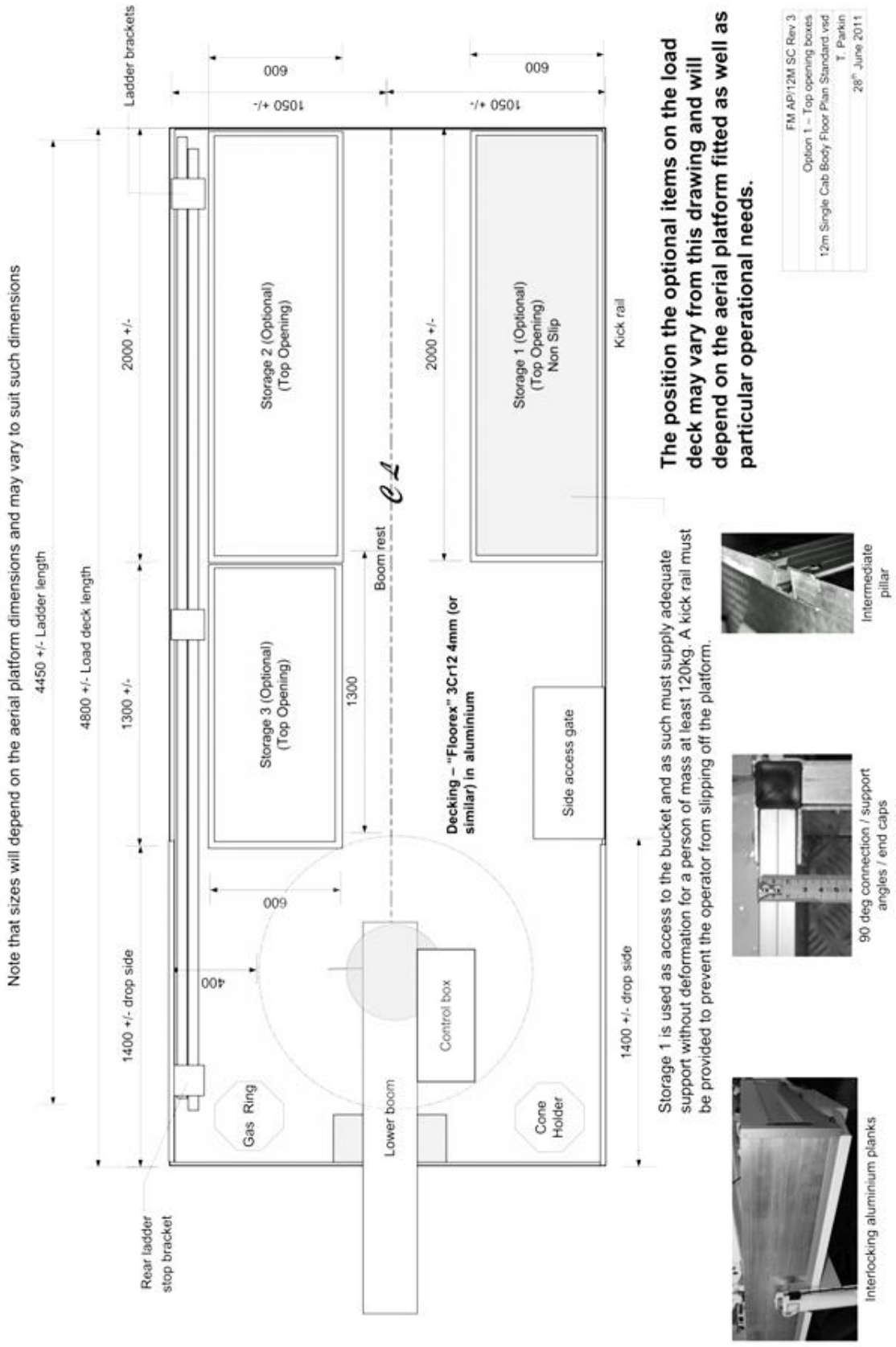
52.	T2.2 single cab 18 m ap - layout drawing

LOADBODY FITTED WITH STANDARD TOOLBOXES AND LADDER RACK.

This drawing is to not to be used to extract dimensions for construction purposes.
It is a depiction of the overall appearance of the aerial platform and the load body.
The tenderer is to refer to the technical specification clauses for relevant details of the construction requirements..



53.	T2.2 Single cab 18 m ap - floor plan standard toolboxes

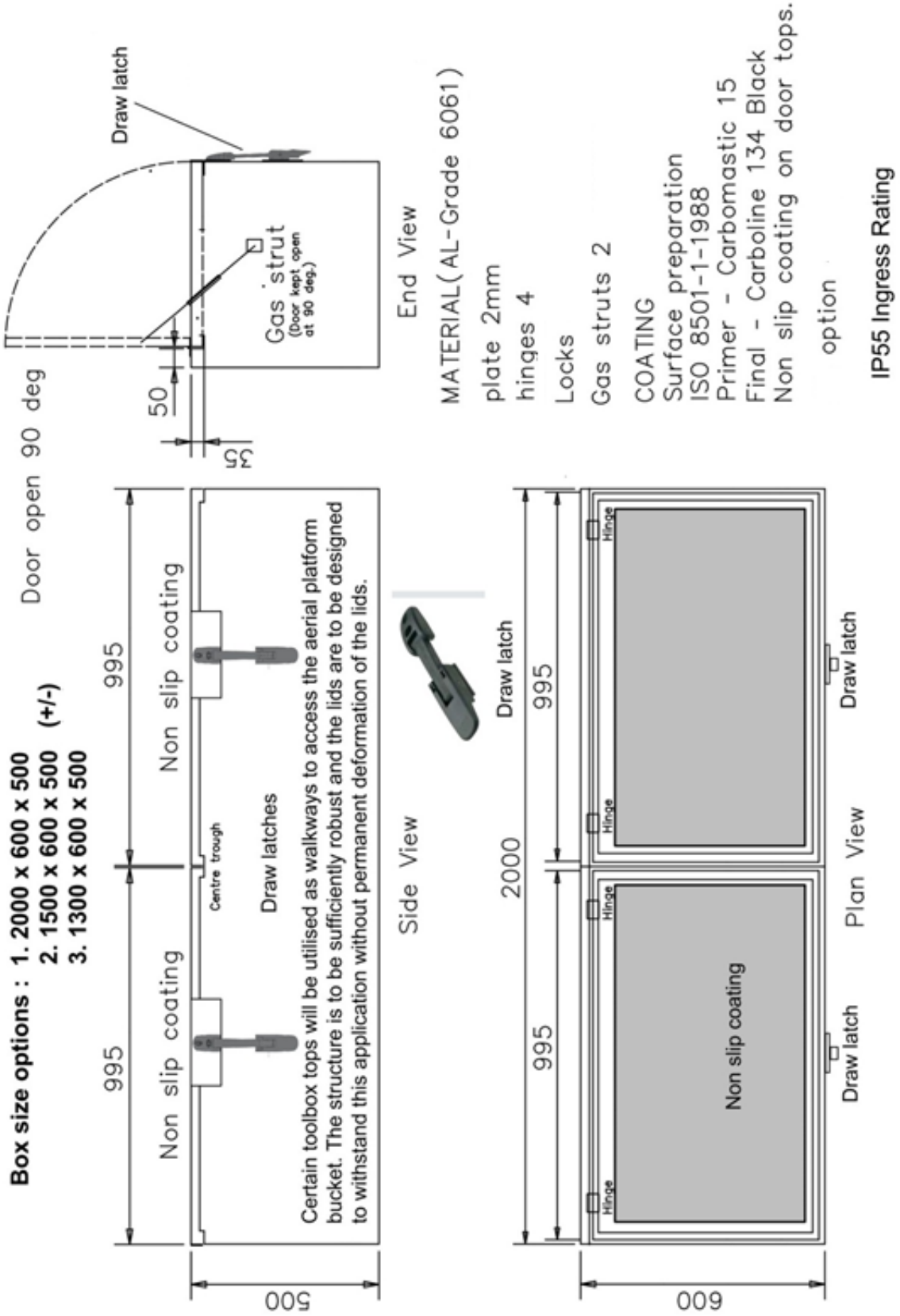


54.	T2.2 Single cab 18 m ap - side access

SIDE ACCESS GATE (TYPICAL LAYOUT)

55.	T2.2 Single cab 18 m ap - toolboxes

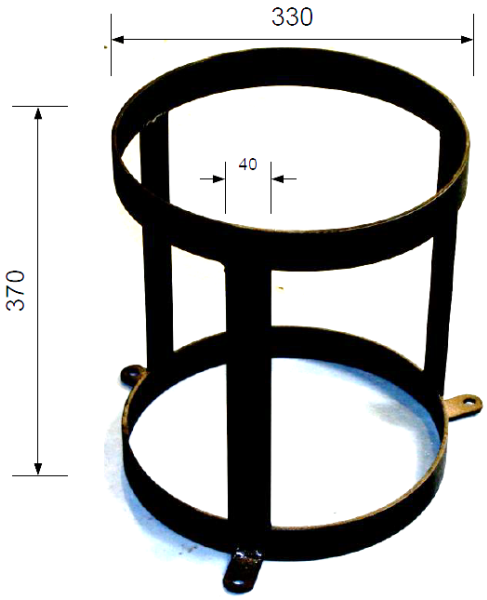
STANDARD TOOLBOX (TYPICAL ARRANGEMENT)



56.	T2.2 Single cab 18 m ap - floor fitments

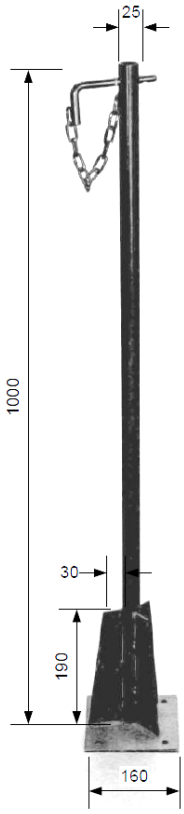
(Placement to be finalised during construction phase.)

GAS CYLINDER HOLDER – CONE HOLDER - LADDER BRACKETS



9KG GAS CYLINDER HOLDER

Material : Mild steel strip
40x4mm
Lugs: 50x30x4mm – 12mm hole
Rounded as shown
Weld full depth
Corrosion Protection: Hot dipped galvanised
Include Grade 4.8 bolts, washers and locknuts for fitment to load body floor.

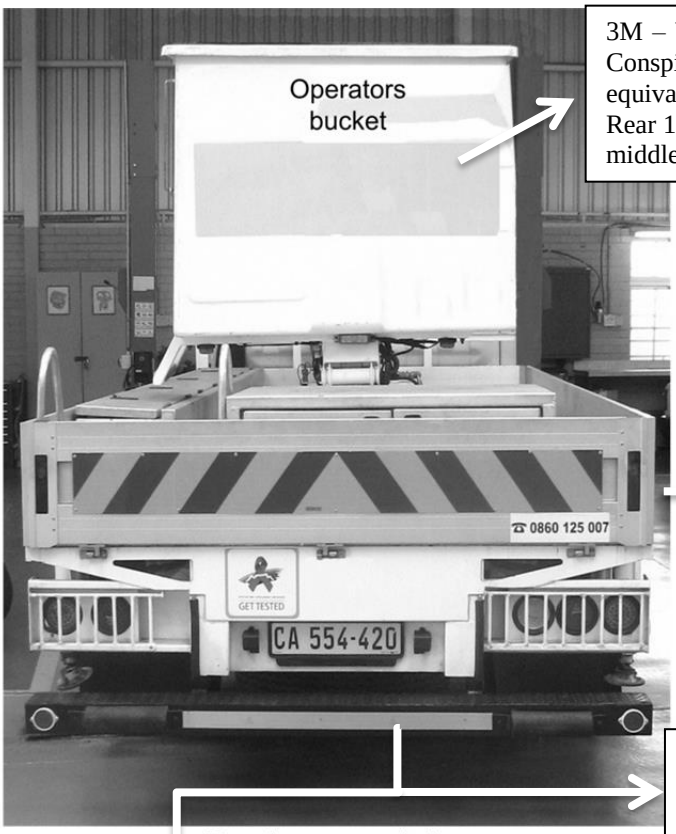


Cone Holder

Material: Mild steel
Base: 160mm Sq x 4mm – 12mm holes
Gussets: 190x50x30x3mm
Pipe: 1000x25x2mm dia – drill 8mm hole
Lock pin: 6mm bar bent as shown.
Chain: Light chain welded to pipe and lock pin.
Corrosion Protection: Hot dipped galvanised
Include Grade 4.8 bolts, washers and locknuts for fitment to load body floor.

Typical ladder brackets with rollers to ease the ladder into position. It is preferred that the rollers be sunk into the deck to bring the ladder down as low as possible.

57.	**T2.2 Single cab 18 m ap - decals and rear bumper arrangement**



3M – Yellow Diamond Engineering Grade Conspicuity Tape (Code: VDGC4084) or equivalent standard. Position as follows:- Rear 1300 mm W x 360 mm H – positioned middle third.

Note decal / reflective tape / reflectors position.

Chevron must comply with SANS 1329:4 and carry the SANS mark

3M – Orange diamond grade conspicuity marking code: 983-71 ECE mark or equivalent standard. SANS 2014

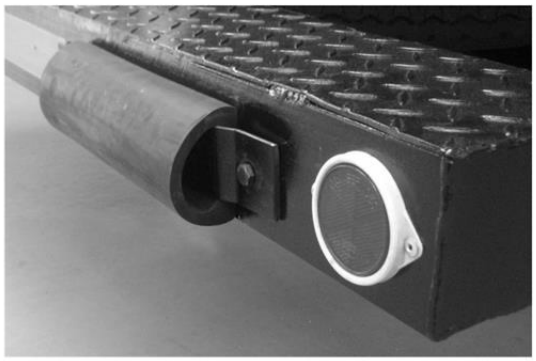
Rear bumper end view

Rear bumper side view

Rear bumper / under run bumper manufactured from two 100 x 50 channel welded together. Ends blanked off. Checker plate stitch welded on top as shown.

Two D shaped rubber mounted onto the rear face of the bumper arrangement with 12mm dia bolts.

All edges to be dressed. Corrosion protection as stipulated in the technical specification.



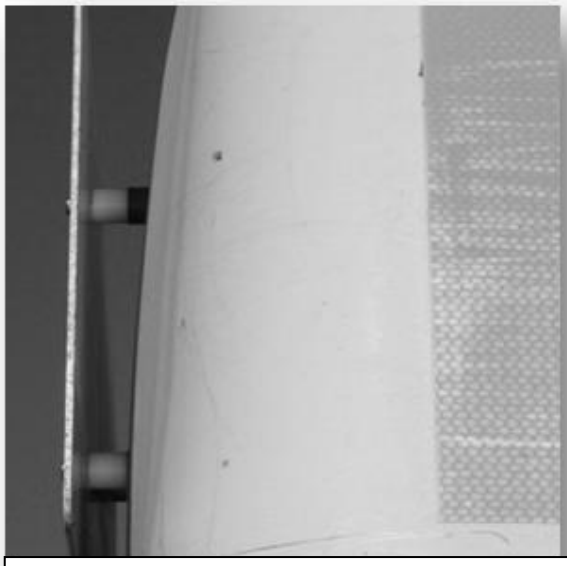
D rubber detail

58.	**T2.2 single cab 18 m ap - operators bucket**

HDPE POLYETHYLENE OPERATORS BUCKET AND FITMENT OF PLATE

Fitment of aluminium / polycarbonate plate on the operators bucket if decals cannot be affixed to the bucket.

Plate size: 800 x 400 x 3 mm



Fitment of plate on the operators bucket.

End view. Note spacers to be used.

(13) SPECIFICATION T2.3 TRUCK D/CAB 4 X 2 WITH FITTED 12 M AP

CITY OF CAPE TOWN
ELECTRICITY ENERGY AND DISTRIBUTION

This Schedule of Technical Data must be fully completed and submitted with each offer, simply to state "comply" or "noted" is not sufficient, full details must be given.

SPECIFICATION T2.3

TRUCK DOUBLE CAB 4 x 2 WITH FITTED 12 M AERIAL PLATFORM

SPECIFIED T 2.3	**DETAILS OF OFFER:**
SCOPE OF SPECIFICATION	
This specification provides for the supply of heavy-duty, 2 axle, diesel powered double cab platform trucks fitted with 12 M telescopic aerial platforms conforming to the technical specification below. Various load body configurations must be offered as optional extras.	
The vehicles are required for general electrical infrastructure maintenance within the CITY OF CAPE TOWN'S geographical boundaries. The supplied vehicle / aerial platforms combination shall be designed for and be capable of efficient and satisfactory operation under all South African weather conditions.	
Tenderers are to state here their choice of vehicle and aerial platform offered complying with the technical specifications as found in clauses 1 – 58 below.	
Vehicle: Make, Model	……
Aerial Platform: Make, Model	……
PROFESSIONAL PDF DOCUMENTS	
It is required that the tender document be completed in ink.	……
All documentation including that of the tender submission such as OEM brochures, technical drawings etc. must be in the English language and properly assembled in an appropriate lever arch file with clear labels indicating the various sections.	……
All documents submitted must in addition be scanned in PDF format and be submitted on a standard USB flash drive that is to be clearly labelled with the bidders company name, tender number and description.	……

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
1.	**T2.3 APPLICABLE STANDARDS**	
	The latest standard shall apply.	……
1.1.	SANS 1055:2007 : Under run bumper	
1.2.	SANS 1091:2012 : National colour standard	
1.3.	SANS 1207:1998 Latest : Brakes	
1.4.	SANS 1327:2004 : 7 pin trailer socket	
1.5.	SANS 1329:4:2004 : Retro-reflective signs.	
1.6.	SANS 1496:2017 : Wheel Flaps	
1.7.	SANS 1517:2005 : Lubricating oil diesel engines	
1.8.	SANS 1550-1:2017 : Motor vehicle tyres and rims.	
1.9.	SANS 1700 : Fasteners	
1.10.	SANS 8501-3:2008 Preparation of steel substrates	
1.11.	SANS 10013-1:2006 : Internal combustion engines:	
1.12.	SANS 10168:2002 : Seat belts	
1.13.	SANS 10281:2003 : Sound levels	
1.14.	SANS 12944:1998 : Steel corrosion protection.	
1.15.	SANS 16368: 2014 Mobile elevating work platforms	
1.16.	SANS 20049:2009 : Particulate pollutants engines	
1.17.	SANS 20104:1998 : Reflective tape.	
1.18.	Occupational Health and Safety Act No. 85 of 1993	
1.19.	South African Road Traffic Act (Act 89 of 1989)	
1.20.	ANSI/SAIA A92.2 – 2015 : MEWP Elevating Platforms	
1.21.	EN 280:2013 MEWP Elevating Platforms	
2.	**T2.3** ENGINE	
2.1.	The vehicle preferably must be equipped with a common rail diesel engine delivering a maximum net output of not less than 100 kW and maximum net torque of not less than 400 Nm to SANS 10013-1: 2006 or latest version.	……
a.	Make and model	……
b.	Capacity cc	……cc
c.	Maximum Output not less than 100 kW (kW @ rpm)	……kw……rpm
d.	Maximum Torque not less than 400 Nm (Nm @ rpm)	……Nm……rpm
e.	Emission standard not less than Euro 2	……
f.	BSFC @ Max torque not greater than 220 g/kW/hr	……
2.2.	The engine shall have as standard fitment, an engine protection system monitoring high water temperature, low oil level and low oil pressure.	……
2.3.	**ENVIRONMENTAL COMPLIANCE**	
a.	The vehicle emissions under start up and operating conditions shall comply with the International Euro 2 standard as a minimum. In this context emissions must conform to SANS 20049:2009 or latest version requirements and conformance reflected in attached brochures.	……
b.	As part of the emissions legislation, tenderers are required to demonstrate that the emissions control systems fitted to the proposed vehicles are durable and are able to maintain the vehicle emissions below the legislated limits for the useful life of the vehicle up to 100 000 km.	……

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
2.4.	**ENGINE PERFORMANCE** The tenderers are to enter the data as requested in the attached table from attached brochures.	……

Engine (r/min)	**1000**	**1200**	**1400**	**1500**	**1600**	**1800**	**2000**	**2200**
Power (kW)								
Torque (Nm)								

3.	**T2.3 TRANSMISSION**	
3.1.	A robust transmission using locally supported automatic manual transmission technology is preferably to be fitted. Fully automatic transmissions will however be considered. A PTO provision must be available at a convenient location on the transmission housing.	……
3.2.	The tenderer may offer a fully automated transmission with torque converter and "hot shift" engaged PTO (World Series Allison or equivalent) and is to ensure that the gearbox and engine combination is perfectly matched in all respects and is to provide a SCAAN duty cycle simulation model as documentary proof thereof.	……
a.	Make and model	……
3.3.	**GEARBOX PERFORMANCE**	
a.	The maximum speed attainable at V must not be less than 100 km/h.	……

Gear Ratio	**Speed @ max rpm**	**Speed @ max torque**	**Gradeability @ V (%)**	**Gradeability@ D/T (%)**
1				
2				
3				
4				
5				
6				
Rev				

3.4.	**GRADEABILITY**	
a.	A gradeability of not less than 25% in first gear at V is required.	……
b.	Gradeability @ V	……
4.	**T2.3 CHASSIS**	
4.1.	A double cab chassis of robust construction with a manufacturer's GVM rating of at least 7000 kg is required.	……
a.	Wheelbase	……mm
b.	Overall width	……mm
c.	Overall length	……mm
d.	Overall height	……mm
e.	GVM rating	……kg
f.	V rating	……kg

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
5.	**T2.3 CLUTCH (Applicable if AMT is offered) State make and model of clutch, and operation**	
a.	Make	……
b.	Model	……
c.	Operation	……
6.	**T2.3 AXLES**	
6.1.	**FRONT AXLE** The vehicle must be fitted with heavy-duty double acting shock absorbers at the front.	……
a.	Axle make / type	……
b.	Axle capacity	……kg
c.	Spring capacity	……kg
6.2.	**REAR AXLE** The vehicle must be equipped with a heavy-duty rear axle.	
a.	Axle make / type	……
b.	Axle capacity	……kg
c.	Spring capacity	……kg
d.	Final drive ratio	…… : 1
7.	**T2.3 BRAKES**	
7.1.	The vehicle must be equipped with a braking system in compliance with the relevant SANS standards (SANS 1207:1998 or the latest version thereof).	……
7.2.	The vehicle must have an ABS brake system as standard fitment.	……
a.	Brake system type (Air, Vac, and Hydraulic.)	……
b.	Emergency / parking brake (wheel operated)	……
c.	ABS brakes	……
8.	**T2.3 WHEELS AND TYRES**	
8.1.	The vehicle must be fitted with suitably sized steel belt radial tyres of preferably South African manufacture.	……
8.2.	The size and ply rating must be the same and freely available within the geographical boundaries of the City of Cape Town.	……
8.3.	All inner wheels should have valve extensions of the steel braided flexible type	……
8.4.	All tyres including the spare wheel must be of the same manufacture, size and ply rating.	……

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
8.5.	Tyre loads, as well as tyre to rim matching, must comply with SANS 1550-1:2005 or the latest version thereof.	……
a.	Size and ply rating	……
b.	Load factor	……
c.	Rim size	……mm
d.	Tyre size front	……mm
e.	Tyre size rear	……mm
f.	Quantity	……
g.	Inflation pressure (front) @ V	……kPa
h.	Inflation pressure (rear) @ V	……kPa
9.	**T2.3 STEERING**	
9.1.	Power assisted steering is required.	……
a.	Turning circle (curb to curb)	……mm
b.	Turning circle (wall to wall)	……mm
c.	Number of turns lock to lock	……
10.	**T2.3 CHASSIS CAB**	
10.1.	The cab must be able to tilt forward to expose the engine assembly and facilitate inspection and maintenance.	……
10.2.	The cab is to have sufficient seating for 3 persons with front cab seats fitted with standard seat belts conforming to SANS 10168:2002 or the latest version.	……
10.3.	The driver's seat shall be fully adjustable.	……
10.4.	The steering wheel shall be adjustable for rake and height to facilitate operator comfort.	……
10.5.	A 2.5 kg portable type fire extinguishers shall be provided and shall be easily accessible to the operator.	……
10.6.	A warning red pilot light is to be installed on the dashboard to indicate that the PTO is in operation.	……
10.7.	The PTO control switch needs to be clearly marked specifying its function and operation. Dyna tape or any form of stick on label is not acceptable.	……
10.8.	The vehicle is to be fitted with an alarm immobilizer conforming at least to a VESA level 5 standard.	……
10.9.	The alarm /immobilizer system must not rely solely on a key transponder.	……
10.10.	The alarm system has to include an audible alarm which will activate a siren rated at least 120dB, if security on the vehicle is compromised for any reason.	……
10.11.	A sound system incorporating a radio with station identification functionality, aux input, front USB input for mp3 audio is to be installed.	……

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER	
10.12.	Sturdy firmly braced wheel flaps must be fitted behind the front and the rear wheels. SANS 1496:2001 or latest version.	.....	
10.13.	A sturdy rear under run bumper is required in terms of the South African Road Traffic Act, and must conform to (SANS 1055:2007 or the latest version thereof).	.....	
10.14.	A fuel tank of not less than 80L capacity is required.	.....	
a.	Lockable fuel tank cap is required.	.....	
b.	Fuel tank size	.....	
c.	Lockable fuel tank cap	.....	
10.15.	A factory approved air conditioner shall be supplied as standard fitment.	.....	
11.	**T2.3 PAYLOAD REQUIREMENTS**		
11.1.	The tenderer is to ensure that: V - T is greater or equal to 2000 kg Where :- V - T = minimum payload V = the permissible maximum vehicle mass T = the tare mass of the completed aerial platform with all fitments including maximum fluid levels but **excludes driver and passengers.**	.....	
a.	GVM (not less than 7000 kg	.....kg	
b.	V (Permissible mass)	.....kg	
c.	T (Tare mass)	.....kg	
d.	V - T (not less than 2000 kg)	.....kg	
12.	**T2.3 AXLE LOADING**		
12.1.	Axle loads in kg as set out hereunder, must be stated as accurately as possible.	.....	
12.2.	**VEHICLE , LOADBODY AND PLATFORM**	**FRONT AXLE (kg)**	**REAR AXLE (kg)**
a.	Licencing / Tare mass (T)		
b.	Maximum payload from axle loading software		
c.	Fully laden		
d.	Maximum permissible legal axle mass		
12.3.	Load distribution charts are to be supplied along with tender documents in support of figures in 12.1	.....	
13.	**T2.3 ELECTRICAL SYSTEM**		
13.1.	**ALTERNATOR**		
a.	The vehicle is to be fitted with an alternator capable of charging the battery whilst operating ancillary equipment and auxiliary lighting specified in this tender under engine idling conditions.	.....	

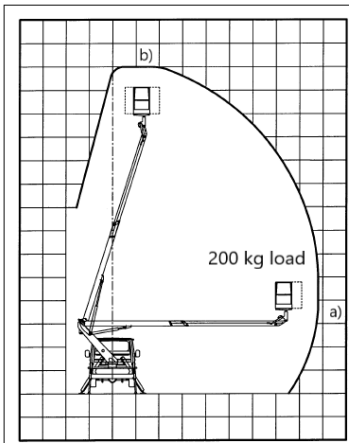
SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
b.	The resultant current draw by the accessories over and above that required by the chassis cab itself, is at least 50A.	……
b.1.	Alternator (Volts @ Amps)	……
b.2.	Starter motor (Volts , Power)	……
13.2.	**BATTERIES**	
	Batteries shall be deep cycle type, maintenance free and permanently sealed and within a proprietary lockable battery box.	……
a.	Make / model	……
b.	Qty	……
c.	Capacity AH	……AH
d.	Lockable battery box	……
13.3.	**ACCESSORIES**	
a.	All accessories to be rated 24V, alternatively a single proprietary 24/12V (Bosch Mobility or equivalent), suitably power rated converter must be fitted to power all 12 V accessories.	……
b.	Under no circumstances must auxiliaries be connected to one battery only.	……
c.	Electrical wiring diagrams detailing accessory connections to be furnished.	……
13.4.	**ACCESORY JUNCTION BOARD**	
a.	It is required that an accessory junction board (RAMM, Safestop or equivalent models) such as that depicted in clause 3.5 of the General Technical Requirements be used for connection of the vehicle accessories.	……
b.	The fitment of the accessory junction board and accessories must in no way compromise the warranty requirements of the vehicle and aerial platform.	……
c.	Easily accessible, appropriately rated resettable fuses must be incorporated into all accessory circuits.	……
13.5.	**T2.3 HOUR METERS**	
a.	An engine hour meter (Siemens VDO 24V or equivalent) which senses the operation of the alternator shall be incorporated in the cab preferably using existing accessory ports.	……
b.	An hour meter is to be connected to the live side of the dash mounted PTO light switch thus registering only when the PTO is activated. The hour meter must not register when the engine is switched off from the aerial platform bucket or the cab.	……
c.	The size of both hour meter displays (engine and aerial platform operation) shall facilitate the ease of reading whilst seated comfortably in the driver's position.	……

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
13.6.	**LIGHTING**	
a.	The vehicle shall be equipped with lights in accordance with the latest compulsory South African Road Traffic regulations.	……
b.	Vibration free rear light assemblies, (Truck Lite LED type or equivalent) each consisting of a direction indicator / stop / rear position light and housed in sturdy metal protective cages, are required. The front of the cages, consisting of protective metal rods or grid, shall hinge open to allow easy access to the lights.	……
c.	In the event that the indicator flasher rate is altered after installation of the abovementioned LED units, a replacement electronic flasher unit assembly, rather than a load resistor, is the required method of restoring the flashing rate to the factory pre-set rate. The fitment of such a unit shall be factory approved and must in no way impact the chassis cab warranty.	……
13.7.	**ALARM SYSTEM**	
a.	Apart from the normal key transponder and immobilizer to be supplied as standard fitment, an audible alarm system rated at approximately 120dB shall be professionally fitted by a VESA approved agent. All doors to be automatically locked by the transponder.	……
a.1.	Make and Model	……
a.2.	Accredited agency	……
14.	**T2.3 PAINT SPECIFICATION**	
14.1.	**CHASSIS CAB**	
a.	The truck chassis cab must be finished in factory standard white.	……
b.	The cab is to incorporate a factory standard paint specification utilizing an anti-corrosion dip process and must provide at least three years corrosion protection in a coastal environment.	……
c.	The chassis, drive line components, and under body components are to be black in colour and protected with a proprietary under body coating. i.e. dry ice abrasive blasting then aluminium epoxy mastic such Carbomastic 15 or equivalent. If this coating is not supplied as factory standard then it is to be included in the tendered price.	……
14.2.	**LOAD BODY AND SUB FRAMES**	
a.	The load body, chassis, all under body components, and aerial platform sub frame members must be suitably coated to provide at least 5 years corrosion protection in a coastal environment.	……

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
b.	The following coating specification shall be adhered to in this regard:-	……
c.	ISO 12944-5:2019 *Paints and varnishes — Corrosion protection of steel structures by protective paint systems — Part 5: Protective paint systems*	……
c.1.	Environment classification (C5-M) - coastal	……
c.2.	Durability classification (M)	……
d.	The following or equivalent substrate preparation in accordance with the above standard is to be achieved.	……
e.	ISO 8501-1:2007 *Preparation of steel substrates before application of paints and related products*	……
e.1.	Primer Coat – Carbomastic 15 or equivalent	……
e.2.	Final Coat – Carboline 134 white or equivalent	……
f.	All inner surfaces and seams on the vehicle must be treated with clear Tectyl or an equivalent rust-preventative material to safeguard the vehicle against rust for at least three years.	……
g.	Any compulsory inspections with regard to the above process will be carried out in the operational area of the vehicle by accredited agencies of the Tenderer.	……
15.	**T2.3 WARRANTY**	
15.1.	The following are the <u>minimum</u> respective warranty periods acceptable to the City of Cape Town, fair wear and tear excluded.	……
	MINIMUM WARRANTY REQUIREMENTS:	
a.	**Mechanical:**	
a.1.	Chassis cab drive train (2 years or 100000km)	……yrs……km
b.	**Paint and Corrosion Protection**	
b.1.	Load body sub frame (5 years)	……yrs.
b.2.	Cab (3 years)	……yrs.
b.3.	Chassis underbody (5 years)	……yrs.
b.4.	Drive train components (5 years)	……yrs.
15.2.	Full details of any warranties offered should be attached with tender documents.	……
15.3.	Tenderers are expected to accept full responsibility for the complete truck and aerial platform combination and must under-write any guarantees offered by their sub-contractors.	……
16.	**T2.3 TRUCK SERVICE AND REPAIR**	
16.1.	Please refer to <u>Special Conditions of Contract section 37</u> for contractual accredited maintenance, servicing, spares and parts outlets.	……

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
16.2.	The tenderer shall provide estimated maximum repair periods of the following components covering warranty and general repairs.	……
a.	Major Warranty (Engine, gearbox, differentials etc.)	……days
b.	Minor General (Servicing, brakes, clutch etc.)	……days
17.	**T2.3 TRUCK SPARES**	
17.1.	Standardisation and mutual interchangeability of components is essential.	……
17.2.	The tender shall indicate the spares availability and stock holding within South Africa for the make and model of the truck offered.	……
a.	Value of spares holding in South Africa	R……
b.	Spares availability (Major spares - Engine, gearbox etc.)	……%
c.	Spares availability (Minor spares / servicing spares)	……%
17.3.	Fast moving service spares need to be available within the geographical area of City of Cape Town	
a.	Location of spares outlets	……
17.4.	Lead time of spares delivery ex warehouse outside the City of Cape Town geographical boundaries within South Africa.	……days
18.	**T2.3 CHASSIS CAB REQUIREMENTS**	
18.1.	Relevant data sheets, engine performance curves, and brochures in support of the specified vehicle must be submitted.	……
18.2.	A general arrangement drawing of the vehicle complete with installed equipment, showing all essential features, dimensions and weight distribution under a full operating cycle is required.	……
18.3.	Essential tools, including a 6-ton hydraulic jack must be provided.	……
19.	**T2.3 AERIAL PLATFORM**	
19.1.	It is required that the tenderer install a telescopic aerial platform onto the vehicle matching one of the following standards. The tenderer is to indicate to which standard the offered mobile aerial work platform complies to.	……
a.	SANS 16368: 2014 Mobile elevating work platforms — Design, calculations, safety requirements and test methods	……
b.	ANSI/SAIA A92.2 – 2015 : Vehicle-Mounted Elevating and Rotating Aerial Devices	……

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
c.	DIN EN 280: 2013 Mobile elevating work platforms: Design calculations - Stability criteria - Construction - Safety - Examinations and tests	……
19.2.	The user / maintenance manuals supplied shall contain a signed declaration by the "responsible entity" (as defined in the standards), confirming the conformance of the aerial platform to this standard as well as to any local or international Safety Directives.	……
19.3.	The aerial platforms offered have to match the aesthetics of the existing City of Cape Town's fleet of aluminium clad aerial platforms. The tenderers are to acquaint themselves with the current aerial platform fleet.	……
19.4.	The compact telescopic aerial work platform shall comprise a turning turret, a fixed length main boom, a hydraulically operated telescopic boom and an operator's bucket, and a robust load body of aluminium construction.	……
19.5.	The major components of the upper boom assembly are an outer boom, a telescoping inner boom, an extension cylinder, an electrical / hydraulic hose carrier system, and slide pads mounted on the inner and outer boom.	……
19.6.	The aerial platform must be fitted onto a full length sub frame and load body and mounted directly onto the vehicle chassis as per the OEM body builders instructions.	……
19.7.	The centre of gravity (CG) of the installed aerial platform with loadbody and all fitments should be as low as possible to vehicle chassis level for stability. Height of CG above vehicle chassis longitudinal from axle loading software.	……mm
19.8.	The turning turret arrangement must not extend over the cab windscreen space and the top of the turning turret arrangement must preferably not be greater than 800 mm above the top of the cab roof.	……
19.9.	It is preferable that the selected aerial work platform is of compact design and that its overall length can be comfortably accommodated on a load body fitted onto a standard truck chassis. (See 52)	……
19.10.	The tenderer is to provide a concise drawing showing the general layout of the 12 m aerial work platform on the vehicle chassis.	……

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
20.	**T2.3 WORKING ENVELOPE**	
20.1.	The working envelope is to be with two people at 200 kg load with H type outriggers not extending past the side of the truck more than 500 mm.	……
20.2.	**WORKING ENVELOPE @ 200KG**  **a)** Working envelope with boom horizontal, fully extended on level ground @ 200 kg bucket load at least 6 m on horizontal axis. **b)** Working envelope at maximum elevation, fully extended on level ground @ 200 kg bucket load at least 11.5 m on vertical axis.	……m ……m
21.	**AERIAL PLATFORM SUBFRAME**	
21.1.	A full length high strength, lightweight sub frame to support the 12 m aerial work platform must be designed, fabricated using Domex or equivalent and fitted to the vehicle chassis sub frame according to the recommended aerial work platform and truck OEM body builder specifications.	……
21.2.	The mounting brackets must be incorporated according to the recommended spacing and strategically placed where load transfer takes place i.e. at the platform base and at the outriggers.	……
21.3.	Full firm contact is to be made between the aerial platform sub frame and the chassis sub frame i.e. no gaps must be evident.	……
21.4.	The sub frame must be capable of withstanding maximum design loads imposed upon it during a full range of operations.	……
21.5.	It is preferred that the pedestal of the aerial platform be situated in-between the sub frame longitudinal and not on top to keep the centre of gravity as low as possible.	……
21.6.	Side and cross bearer members of the aerial platform sub frame shall be of suitable dimension to ensure torsional stability of the assembly as well as provide adequate support for the load body.	……
21.7.	The sub frame components shall be designed and constructed from Domex or equivalent steel using pressed / hollow sections for the lowest mass / strength ratio possible according to OEM standards for the vehicle and fitted aerial platform.	……

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
21.8.	The design of the sub frame as well as the fitment methods shall be approved by the aerial platform manufacturer and vehicle supplier.	……
21.9.	Documentary evidence of such approval shall be submitted.	……
21.10.	A general layout diagram showing all pertinent dimensions and fitment methods must be included with the tender offering.	……
22.	**T2.3 AERIAL PLATFORM LOADBODY**	
22.1.	A light weight yet robust platform load body with 500 mm fixed sides, rear tail gate, and free draining, non-slip decking is required to be fitted to the aerial platform sub frame and then mounted to the vehicle chassis.	……
22.2.	Side plates, walls and tailgate must be constructed from locally available interlocking anodised aluminium rectangular profiles / planks and shall be supported by robust centre and corner posts as per the current fleet of aerial platforms using such profiles.	……
22.3.	The material used for the sides, ends, tailgate of the load body shall be of aluminium alloy 6063 T6 extrusion 25mm width and 2mm wall thickness.	……
22.4.	The decking of the platform load body must be slip resistant and free draining and must be adequately supported by sturdy side bearers welded / bolted to the aerial platform sub frame to prevent a deflection of the decking in between supports more than 1mm under normal loading conditions.	……
22.5.	The floor decking shall be raised pattern non-slip solid floor plate, Floorex 3Cr12 (or equivalent) and at least 4mm nominal thickness.	……
22.6.	The cab protector / bulkhead must be of sturdy design section mild steel grade 300W hot dipped galvanised.	……
22.7.	A robust boom rest bracket constructed from mild steel grade 300W hot dipped galvanised fitted with resilient pad, with lower boom locking device is to be supplied for firm boom support and compact travelling whilst in the stowed position.	……
22.8.	The hot dip galvanized coating shall conform in every respect to the standards contained in SANS 121 (ISO 1461:2009) and SANS 32 (EN 10240:1997).	……

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
23.	**T2.3 LOADBODY MATERIAL**	
23.1.	The following is a list of essential materials and is not to be construed as a complete material list.	……
a.	**Side panels, side access and tail gate**	
a.1.	Aluminium alloy 6063 T6 extrusion.	……
b.	**Decking**	
b.1.	Floorex 3Cr12 (or equivalent)	……
b.2.	Nom thickness 4mm +/-	……mm
c.	**Sub frame**	
c.1.	Domex.	……
d.	**Cab protector**	
d.1.	Grade 300W steel section galvanised.	……
d.2.	**Floor decking support bearers**	
d.3.	Grade 300W steel section galvanised.	……
e.	**Load body manufacturer**	……
24.	**T2.3 LOADBODY ACCESS**	
24.1.	A safe, sturdy yet lightweight means of access to the platform load body should be provided on the curb side by means of a robust step arrangement and must include side grab rails.	……
24.2.	The rise of steps or rungs must be uniform and must not exceed 300 mm. The steps or rungs must be slip resistant.	……
24.3.	A toe rail must be incorporated to prevent the operator slipping whilst attempting to enter the load body. (See 54 for typical side step configuration)	……
25.	**LOADBODY DIMENSIONS**	
25.1.	A maximum legal body length and a width of not less than 2200 mm is required. Tenderers must offer the best length to match their chassis, taking correct mass distribution and appearance into account.	……
a.	Length	……mm
b.	Width	……mm
25.2.	The body must be complete in all respects and fitted to the vehicle in such a way that it is in full compliance with the South African road ordinances, tyre pressures restrictions and with correct mass distribution.	……
25.3.	It is required that the fitment of the load body be inspected and approved by the chassis cab manufacturer in writing, a copy of which is to be submitted on delivery.	……
25.4.	The tenderer is to supply comprehensive drawings showing pertinent dimensions of the chassis cab, load body and aerial platform combination with the tender submission.	……
25.5.	An aluminium toolbox 1500mm x 600mm x 500mm shall be included as standard fitment the location of which shall be decided in consultation with the City of Cape Town.	……

26.	**T2.3 BOOM ARRANGEMENT**	
26.1.	The lower pedestal shall be of a sturdy design to support the rotation bearing and be capable of supporting forces generated through the turning turret and telescopic booms in the operation of the aerial platform.	……
26.2.	The rotation drive assembly is to be fully adjustable to permit reduction of rotation gear backlash, boom side play and to ensure proper tooth contact over the life of the unit.	……
26.3.	The rotation drive assembly (including pipes, fittings, electronics) is to be protected by a removable cover mounted on the load deck encircling the base of the aerial platform to eliminate any damage being sustained to the drive assembly whilst the aerial device is rotating.	……
26.4.	The diameter and height of the cover must clear the swing of the rotation drive assembly. The cover arrangement must not allow water to accumulate in the space occupied by the rotation drive assembly.	……
26.5.	The upper and lower booms are to be a reinforced, torsion resistant, steel box design of adequate cross section to carry all imposed loads without excessive rotation or deflection of the booms at maximum extension.	……
26.6.	The upper boom assembly is extended and retracted by means of a double acting hydraulic cylinder and chain arrangement where applicable over polyethylene slide pads bearing arrangements located in the end of the lower boom.	……
27.	**T2.3 SLIDE PAD ARRANGEMENTS**	
27.1.	The telescopic boom adjustable slide pad arrangement is to comprise not less than four (4) adjustable lateral polyethylene (or equivalent strength polymer) wear pads located at the boom end to minimise the lateral play in the inner telescopic boom.	……
27.2.	The vertical play in the telescopic boom shall be controlled by means of wear pads located at the top and bottom of the fixed boom.	……
27.3.	In all cases above the wear pads must be adjustable to allow the recommended space between pad and sliding member and must have a positive locking arrangement to ensure that the pad positions do not alter during normal operations of the boom.	……
28.	**T2.3 AERIAL WORK PLATFORM OPERATION**	
28.1.	The platform shall be hydraulically operated by means of a direct coupled PTO and hydraulic pump arrangement incorporating a failsafe system.	……

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
28.2.	The turntable shall be mounted on roller bearings and propelled in both directions by means of a hydraulic motor.	……
28.3.	The aerial platform must have a rotation capability of minimum 340 deg taking into account the required dead band over the width of the cab.	……
a.	Maximum rotation	……deg
28.4.	The turntable shall be self-locking in all positions.	……
29.	**T2.3 RESERVOIR**	
29.1.	The reservoir shall preferably be of robust sufficiently stiffened stainless steel construction and be so constructed as to have a low end where water and contaminants will settle.	……
29.2.	A tap shall be located at the lowest point of the reservoir for oil inspection and drainage purposes.	……
29.3.	The pump intake port on the reservoir shall located at a point where no settled contaminants can be sucked into the pump inlet.	……
29.4.	The reservoir shall incorporate baffles to separate returning hydraulic fluid from that being drawn into the pump. See clause 3.4 of the General Technical Requirements or general layout drawing.	……
29.5.	The reservoir volume is to be approximately three (3) times the maximum pump flow rate so that under no circumstances during the normal 8 hour operation of the platform shall there be any instances of foaming, hydraulic cavitation or overheating.	……
29.6.	The strainer arrangement is to be located in a position to facilitate ease of maintenance without the need for emptying the reservoir.	……
29.7.	The reservoir is to incorporate a sight glass / inspection port to easily check hydraulic oil level and an oil temperature gauge.	……
29.8.	The reservoir is to be positioned flush against the rear bulkhead.	……
29.9.	The reservoir shall be fitted with a lockable reservoir cap. The reservoir should incorporate a separate breather fitted with 40-µm air filtration with a hydroscopic medium to absorb airborne moisture.	……
29.10.	The hydroscopic filter shall indicate saturation of the hydroscopic material requiring replacement.	……
29.11.	The reservoir breather system shall be positioned away from the reservoir to avoid water contamination by vehicle washing or any other external environmental factors.	……

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
30.	**HYDRAULIC PUMP AND POWER TAKE OFF (PTO)**	
30.1.	The PTO must be either electrically or air operated. Cable operation will not be accepted.	……
30.2.	The tenderer shall supply the power take off on the vehicle complete with a factory approved wiring loom interlinking to the vehicle computer ECU (making provision for an electronically controlled PTO).	……
30.3.	The PTO must be supplied with a failsafe system interlinked to the handbrake, accelerator and idle up switch of the vehicle.	……
30.4.	The PTO and hydraulic pump are to be rated at 20 % higher than the individual maximum demand placed on it by the operation of the aerial platform.	……
30.5.	The hydraulic requirements for the aerial platform taking into account the peak operating performance are to be listed below.	……
a.	AP operation – not less than 15 l/min @ 800 rpm	……
b.	Maximum pump flow rate / pressure	……
c.	Reservoir volume (at least 3 x max pump flow rate)	……
d.	State the truck engine rpm at which the hydraulic flow rate required by the aerial platform will be achieved	……
e.	Make / Model (PTO)	……
f.	Make / Model Hydraulic Pump	……
g.	Pump type	……
30.6.	All cylinders, piston rods, pipes, hoses, valves and fittings must be able to withstand a static pressure of 3 times the maximum operating pressure without permanent deformation.	……
30.7.	All piston rods to be hard chromed and ground for extended seal life. Pins are high strength alloy steel and zinc plated for corrosion resistance.	……
30.8.	Where practically possible, all exposed piston rods are to be enclosed with concertina type protective boots.	……
30.9.	Check valves shall be provided to lock the cylinders positively in position while the controls are not being operated.	……
30.10.	Hydraulic systems shall be such that free descent cannot occur in the event of a hose or fitting failure.	……
31.	**T2.3 EMERGENCY HYDRAULIC PUMP SYSTEM**	
31.1.	An emergency pump is to be installed to lower the boom arrangement. This system provides a 24V DC motor driven hydraulic pump connected in parallel with the engine driven hydraulic pump.	……

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
31.2.	A control is to be provided at the upper controls to actuate the emergency lowering motor. The pump is driven by the auxiliary battery pump.	……
31.3.	An emergency hand pump with fail safe device shall be incorporated for lowering of the bucket in case of emergency. The handle of the hand pump shall be galvanized.	……
31.4.	An inline pressure transducer (Turck PS510-400-04-LI2UPN8-H1141) or equivalent shall be incorporated in an appropriate and easily accessible location in the hydraulic circuit. The installation shall include all piping, a 24V power supply to the transducer and electrical connection to a digital display located either in or next to the lower control bank housing.	……
31.5.	All valves are to be clearly marked / labelled to indicate functionality.	……
31.6.	Hydraulic pump curves as well hydraulic circuit diagrams are required in support of the specified parameters. The drawings are to indicate safety devices and operating logic.	……
31.7.	All hydraulic connectors and fittings shall be plated for corrosion resistance. The plating used shall be offer the same corrosion resistance as stainless steel. Denso tape or equivalent will not be accepted.	……
32.	**T2.3 STABILISING SYSTEM**	
32.1.	The vehicles shall be equipped with two sets of H type hydraulic outrigger jack systems located at the front and rear of the vehicle load body. Alternative arrangements will be considered only if it can be proved that the H type outriggers cannot provide the desired stability ratio of at least 1.5 in terms of overturning moment at any point in the boom travel at maximum extension.	……
32.2.	The hydraulic stabilisers (outrigger) system shall incorporate a hydraulic mechanical interlock between the boom and outrigger jacks to prevent the hydraulic platform from being operated unless the outrigger jacks are fully deployed.	……
32.3.	A visual and audible alarm shall be provided which shall sound if an attempt is made to move the vehicle with the outrigger jacks not fully stowed.	……
32.4.	In the stowed position the outrigger jacks shall not protrude beyond the outer edge of the vehicle and shall have a minimum ground clearance of 300mm.	……
32.5.	The outrigger legs shall be operated by controls located independently from the aerial platform controls.	……
32.6.	All four outrigger leg extenders to be supplied with load holding valves.	……

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
32.7.	The deployed outriggers shall not be able to retract in the event of hydraulic line failure.	……
32.8.	A set of four stabilizer swivel foot pads Nylacast or equivalent at least 40mm thick, suitable for sand / soft soil conditions are to be supplied and housed in a suitable sturdy steel / PVC box fixed under the load deck as standard fitment.	……
32.9.	The stabilizer feet shall be constructed to accommodate ground unevenness of at least 10°.	……
32.10.	It is preferable that the vehicle and aerial platform combination be designed to be operationally stable with the outriggers not extending beyond the outer edge of the vehicle. The outriggers are to be fitted with reflective safety marking whilst in the extended position.	……
32.11.	The outrigger legs must be located on the outside of the load body but not extend beyond the outer edge of the vehicle.	……
33.	**T2.3 AERIAL PLATFORM CONTROL SYSTEM**	
33.1.	The aerial platform shall be operated by means of two hydraulically controlled valve banks. One fitted at the base on the curb side and one at the operator's bucket.	……
33.2.	The lower control bank shall have an overriding facility over the top bank for lowering of the bucket under emergency circumstances.	……
33.3.	The outrigger control bank shall be located on the curb side of the vehicle and be easily accessible to the operator.	……
33.4.	All controls must be "dead man" type which automatically return to neutral or the off position when released. Under no circumstances may there be hydraulic creep while the controls are in the neutral position.	……
33.5.	The direction of all movements of the elevating work platforms must be indicated by arrows on the control device. All controls must be positioned for logical operation and be clearly marked to show their function in legible letters and / or symbols.	……
33.6.	The upper control bank shall be mounted at a suitable ergonomically correct position on the exterior of the operators bucket and be electrically insulated from it and shall be suitably enclosed in a robust polyethylene / glass fibre waterproof enclosure to protect it from accidental damage.	……
33.7.	An emergency stop control which will cut off power must be provided at each control position. It must be prominent and coloured red.	……
33.8.	The controls must be of robust construction and	

waterproof to class IP65.	……

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
33.9.	All operating levers shall be protected by suitable insulating material and located in a protected area. The controls supplied shall be of precision manufacture to allow the operators a fine and smooth control of the aerial platform.	……
33.10.	An interlock shall be provided which will make it impossible to raise or lower the platform while the vehicle is in motion. The slewing mechanism shall be provided with a service brake.	……
33.11.	The control system offered must include limits which prevent the booms extending beyond its safe working range in any position i.e. preventing the vehicle from overturning.	……
33.12.	A start stop switch to allow the vehicle engine to be operated from the operators bucket shall be connected. The fitted PTO must stay engaged when the engine is switched on/off from the bucket controls.	……
33.13.	A proprietary electronic rev lifting device to be installed at PTO engagement. The device is to be programmable from low idle speed to a max of 900 rpm with no adjustment possible from the operator.	……
33.14.	Pilot lights in the cab have to be activated on PTO engagement.	……
a.	Green – PTO deactivated	……
b.	Red – PTO activated	……
c.	Red - Outriggers extended	……
d.	Green - Outriggers fully retracted	……
33.15.	The outrigger controls located on the curb side of the truck load body shall allow for the outriggers to be individually selected or all operated simultaneously by means of one lever.	……
33.16.	A facility coupled to the outrigger system for deploying only the two rear outriggers with manual levelling options shall be called the Rapid Outrigger Deployment system (ROD) and offered as an optional extra. The aerial platform will then be able to operate safely with the full working envelope restricted approximately 45 degrees of the vehicle centre line to the rear of the vehicle.	……
33.17.	To prevent the damage to the load body tail gate an appropriate upper boom limiting device need to be incorporated to restrict the extension of the upper boom and or lowering of the boom unless the load body tail gate are cleared. The upper boom need to be fully home before the boom can be placed in the rest position	……
34.	**T2.3 BOOM ROTATION LIMITER**	
34.1.	The platform is to be equipped with a motion limiting device which automatically prevents any part of the aerial platform from making any contact or crashing into the cab or cab protector.	……

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
34.2.	A boom rotation limiter override button is to be installed at the upper and lower control banks which allows the aerial platform main boom to be traversed over the region of the width of the cab in emergency conditions.	……
35.	**T2.3 OPERATORS BUCKET**	
35.1.	The operator's bucket manufactured from HDPE polyethylene (or equivalent strength thermoplastic polymer) , grey in colour , designed to comfortably accommodate 2 (two) persons' plus the tools held in an on board bucket tool storage compartment which could constitute a safe work load of not less than 200kg	……
35.2.	The bucket must be supported evenly on its base with no point loading. The use of full working width, perimeter support on Nylon 6 (or equivalent) bearing pads of sufficient dimension is required. Any alternative design meeting the OEM performance standards is accepted. See 58	……
35.3.	Insulated safety straps connecting the bucket support bracket to the main boom bucket support structure must be incorporated to prevent the bucket from becoming fully detached.	
35.4.	A safe means for boarding the bucket shall be provided and installed. Bucket entry shall be on the curb side.	……
35.5.	The bucket and all associated controls shall be electrically insulated from the frame to which it is attached against a potential difference of 1000V to earth.	……
35.6.	A load limiting device shall be incorporated in the bucket to ensure that the safe working load of 200kg is not exceeded.	……
35.7.	The dimensions of the lifting bucket accommodating 2 persons shall be not less than 1300 mm width x 750 mm depth x 1100 mm height.	……
a.	Lifting bucket dimensions: W x D x H (mm)	……
35.8.	A hydraulically powered bucket rotation facility is to be incorporated allowing not less than 50 deg left and right rotation of centre.	……
35.9.	The bucket shall be fitted with drainage holes at the lowest part of the bucket.	……
35.10.	A grating spanning the area of the bucket floor shall be neatly fitted onto the bucket floor taking into account ease of removal. Vitaglass moulded grating 38x38x38mm depth or equivalent is to be used. A sheet of PVC approximately 7mm thick is to be placed on the bucket floor upon which the grating will be placed.	……
35.11.	Fall protection attachment point brackets shall be provided and shall be positioned so that they do not interfere with the free movement of the operators and shall comply in all respects with the relevant standards.	……

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
35.12.	A robust load test bracket arrangement is to be centrally fitted to the bottom of the bucket support frame and be able to safely withstand double the rated safe working load. Standard load test cables must be able to be connected to the bracket by means of standard shackles.	……
35.13.	The bucket support attachment to the frame must maintain the 1000V electrical insulation whilst being robust enough to endure the vibration loading due to the typical road surface roughness within the City of Cape Town's geographical boundary without the securing bolts pulling out. The International Roughness Index (IRI) as it pertains to the roads in the Western Cape has reference.	……
35.14.	The following publication has reference "Guidelines for Network Level Measurement of Road Roughness" This guideline was compiled under auspices of the COTO Road Network Management Systems (RNMS) Committee. (Mr Mervyn Henderson of the Western Cape Provincial Administration (WCPA) and Mr Louw Kannemeyer of the South African National Roads Agency (SANRAL)	……
35.15.	The Tenderer shall submit drawings indicating bucket dimensions and type of materials used as well as the frame attachment details.	……
36.	**T2.3 BUCKET LIGHTING**	
36.1.	The bucket is to be fitted with standard 12V electrical connections in order to power two proprietary LED flood lamps rated at least 20 W with a light output of at least 1600 lumens enclosed in a class IP 65 housing.	……
36.2.	All fasteners used for the fitment of such LED flood lamp are to be stainless steel.	……
36.3.	Tenderers are to supply a 12V 110AH gel type deep cycle battery, as well as an appropriate method of linking to the vehicle electrical charging circuits. The alternator supplied shall also be capable of charging this battery bank.	……
36.4.	The proposal must be accompanied by circuit diagrams showing all relevant detail i.e. lockable battery box, wiring routing from the under load body steel battery box to bucket taking into account the telescopic upper boom, battery charging, and electrical protection devices.	……
36.5.	The proposed bucket lighting system must not place any demand on the vehicle battery system and must be able to operate for at least 8 hours continuously at 100% light availability.	……

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
36.6.	Three bright amber flashing (Gen 3 LED or better) light clusters fixed to the sides and rear of the bucket support frame are required. Each light cluster must incorporate at least 3 Gen 3 LED's. The robust light housing bracket must be constructed of stainless steel, be vibration resistant and waterproof. The lens cover must be clear UV resistant polycarbonate. A warranty period of at least 10 years is required.	……
37.	**T2.3 BUCKET AUTOMATIC LEVELLING**	
37.1.	An automatic hydraulic levelling system which shall hold the bucket floor horizontal at all times, is required. A bucket relying on gravity alone for levelling will not be considered.	……
37.2.	The levelling system shall have an adjustable override to accommodate any adjustments required by the operator.	……
38.	**AERIAL PLATFORM PRE DELIVERY TESTS**	
38.1.	The aerial work platform shall be thoroughly inspected and performance tested as per OEM recommendations contained in the standards to which it was built prior to delivery to the City of Cape Town. The inspection and performance test is to be conducted by a registered LMI (Lifting Machinery Inspector).	……
38.2.	The inspection and performance test is to be conducted by a registered LMI (Lifting Machinery Inspector) who shall be fully conversant with the requirements of SANS 50280, 16368, 18893, BS EN 61057 and ANSI A92.2 as per the requirements of LMI registration.	……
38.3.	The aerial work platform shall, in addition, be subjected to its first statutory test to 110% of the working load applied over the whole operating range as required by the Occupational Health and Safety Act No. 85 of 1993 and relevant General/ Driven Machinery Regulations DMR 18 5(a) ensuring that every part of the installation is stressed accordingly.	……
38.4.	The above to verify that the aerial work platform is stable, structurally sound, the operating functions work correctly and safely and the mandatory markings are properly affixed.	……
38.5.	Certified copies of the appropriate LMI certification for the above tests shall be submitted on written request by the City of Cape Town.	……
38.6.	The cost of the load test and certification documents and all materials used shall be included in the tender price.	……

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
39.	**T2.3 WIND LOADING**	
39.1.	The aerial platform is to be able to perform safely throughout its full operating range whilst experiencing wind speeds of up to 12 m/s i.e. typical South Easter wind loading conditions in the Cape Town CBD.	……
40.	**AERIAL PLATFORM PERFORMANCE**	
40.1.	The hydraulic platform in normal use will be subject to 40 duty cycles per day. The design and manufacture of the unit shall be such that the life expectancy of the load bearing members shall not be less than 8 years or 80 000 duty cycles.	……
40.2.	Elevating speed shall be adjustable between 0.1 – 0.4 m/s measured at maximum extension.	……
40.3.	Slewing speed at maximum reach shall be adjustable between 0.1 - 0.4 m/s measured at maximum extension.	……
40.4.	Graphical detail, depicting the full working performance range horizontally and vertically must be supplied.	……
40.5.	The time taken to deploy all outriggers and level the aerial platform should not be greater than 1 min. (On level ground)	……
40.6.	The time taken for the boom to rotate 180 degrees at maximum extension should not be greater than 1 minute.	……
40.7.	The time taken to achieve maximum height at maximum extension of the boom should not be greater than 90 seconds.	……
41.	**T2.3 DRIVABILITY AND STABILTY SIMULATION**	
41.1.	It is required that any vehicle and aerial platform combination offered in this tender is driveable and stable i.e. fit for purpose under normal operating and road conditions as is found in the geographical boundary of the City of Cape Town.	……
41.2.	See clause 36 of the Special Conditions of Contract in this regard	
42.	**T2.3 MARKING AND DECALS**	
42.1.	The following information shall be displayed in clearly visible permanent lettering on the aerial work platform:	
a.	Make, model, serial number, manufacturer's details	……
b.	Safe working load	……
c.	Maximum platform working height	……
d.	The working voltage to which it is insulated	……
e.	Warnings or restrictions necessary for safe operation	……

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
f.	All valves clearly marked and labelled	……
g.	The instruction “Read work platform manual" for servicing /operating instructions	……
42.2.	It is required that yellow reflective tape (3M C E1 104 R-00821) or equivalent is to be fitted to the aerial platform i.e. full length of both booms as well as the perimeter of the platform load body as required by South African Road Traffic ordinances. All necessary statutory decals are to be fitted to the aerial platform.	……
42.3.	Outriggers should be fitted with 3M C E1 104 R-00821 reflective tape (or equivalent) not less than 50 mm wide. Covering the full length of the retracted outrigger. (white facing front, red facing rear)	……
42.4.	The rear facing section of the operators bucket has to be suitable for the application of decals as per clause 57 of this technical specification.	……
42.5.	In the event that decals cannot be applied to rear face of the operators bucket, an aluminium / polycarbonate plate needs to be fitted to the bucket upon which the reflective tape decals as indicated in clause 57 will be applied. The fitment of the plate must be acceptable to the aerial platform OEM.	……
42.6.	The fitment of such a plate shall in no way compromise the 1000 V insulation requirement of the bucket	……
	The size of the plate shall be approximately:	
a.	3mm (t) x 400mm (h) x 800 mm (w).	……
42.7.	The tenderer to ensure that all necessary decals are fitted at their correct positions. (See 57.)	
a.	Bucket chevrons	……
b.	Working envelope	……
c.	Maximum load	……
d.	Operational lever decals – upper and lower boxes	……
e.	Safety decals with instructions (Safety equipment)	……
43.	**T2.3 AERIAL PLATFORM MATERIALS AND SPARES**	
43.1.	**AERIAL PLATFORM MATERIALS**	
	For maintenance purposes the tenderer must specify all materials used in the construction of the aerial platform in the supplied spares manual i.e. specifically booms, pins, bushes and hoses.	
	All these items are to be highlighted.	……
a.	Booms	Page ……
b.	Pins	Page ……
c.	Bushings	Page ……
d.	Hoses	Page ……

	SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP	DETAILS OF OFFER
43.2.	**AERIAL PLATFORM SPARES**	
a.	Standardisation and mutual interchangeability of components is essential.	……
b.	The tenderer shall indicate the spares availability and stock holding within South Africa	……
b.1.	Value of spares holding in South Africa:	……
b.2.	Spares availability (Major spares - booms, electronic control units etc.)	……%
b.3.	Spares availability (Minor spares / servicing spares)	……%
43.3.	Fast moving service spares need to be available within the geographical area of City of Cape Town	
a.	State lead times that can be expected:	……
b.	Location of spares outlets:	……
c.	Lead time of spares outside the ex-overseas:	……
d.	Lead time of spares ex outside CCT geographical boundaries within South Africa	……
43.4.	Lead time of spares delivery ex overseas OEM warehouse.	……days
43.5.	Lead time of spares delivery ex warehouse outside City of Cape Town geographical boundaries within South Africa	……days
44.	**T2.3 AERIAL PLATFORM SERVICE**	
44.1.	Please refer to Special Conditions of Contract section 37 for contractual accredited maintenance, servicing, spares and parts outlets.	……
44.2.	List the accredited local service agencies (if available) at time of tender for servicing the aerial platform.	……
44.3.	State the aerial platform service delivery turn-a-round times that can be expected.	……
45.	**T2.3 DOCUMENTATION ON DELIVERY**	
45.1.	Three copies of the comprehensive operating, maintenance manuals, spare parts manuals and training manuals in professional PDF format in the English language as well as in a properly bound book must be provided by the manufacturer.	……
	The following is to be included in the manuals:	
a.	Operation instructions	……
b.	Service schedule	……
c.	Lubrication schedule	……
d.	Routine checks	……
e.	Restrictions on use of the machine	……
f.	Advice that could affect the safe use of the machine	……
g.	Manufacturers spare parts list	……
h.	Statutory inspection registers	……

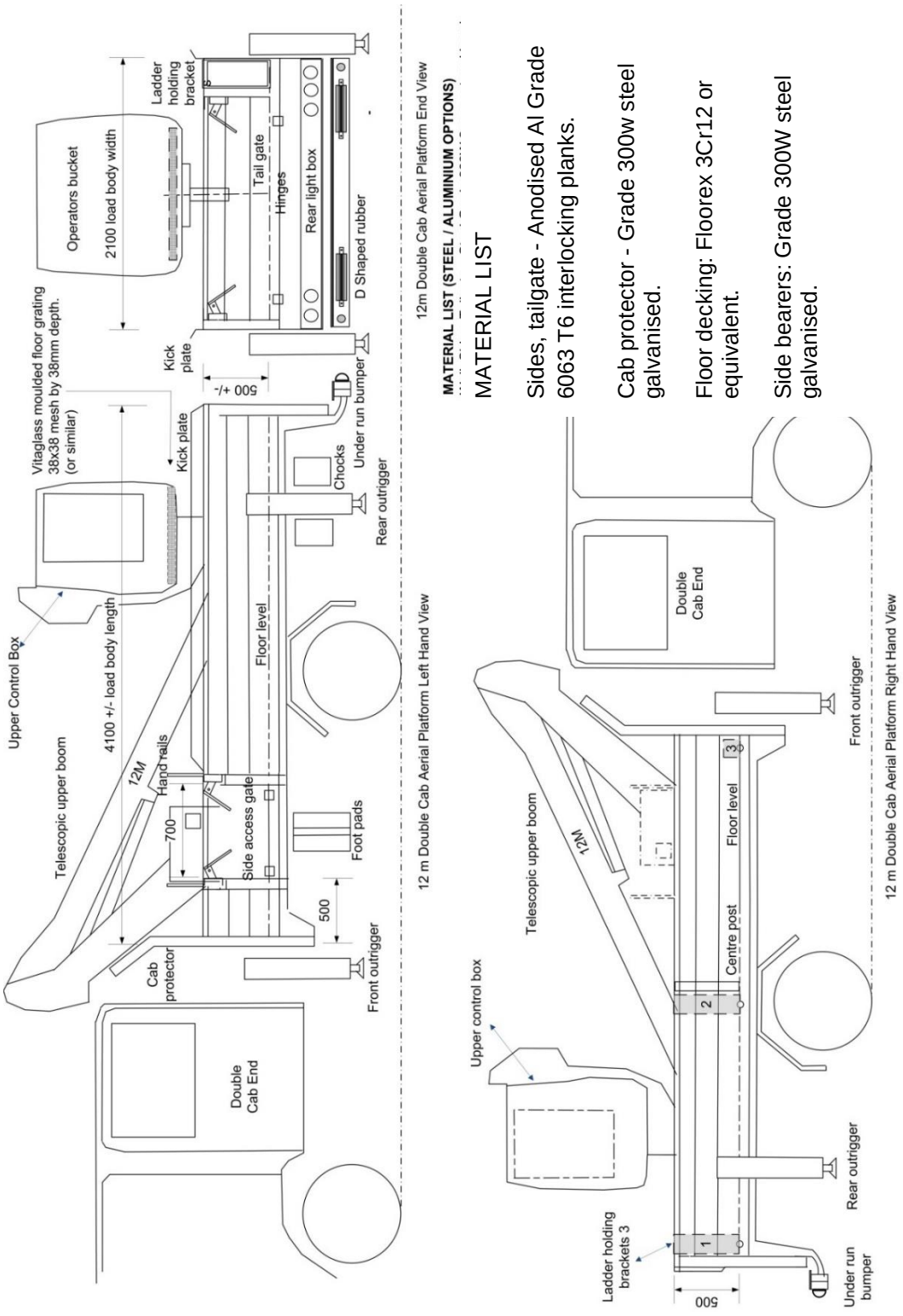
SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
45.2.	Load test certificates signed by an LMI.	……
45.3.	An oil analysis certificate from an approved inspection authority.	……
45.4.	A sample of hydraulic oil shall be taken from the oil reservoir for spectrographic analysis and a report shall be supplied. The cost of which will be included in the tender price.	……
45.5.	A structural engineers certification letter for the aerial platform from the design engineer or his representative must be received on delivery.	……
46.	**T2.3 TRAINING**	
46.1.	Training in the proper operation of the aerial platform and truck must be provided and included in the tendered price.	……
46.2.	The training should be adequate to transfer the required skills in the safe operation of the aerial platform and vehicle to the City of Cape Town's operating staff.	……
46.3.	A minimum of two employees per vehicle ordered needs to be catered for. A training manual is to be provided.	……
47.	**T2.3 PAINT SPECIFICATION AERIAL PLATFORM**	
47.1.	The aerial platform paint process is to be according to the following or equivalent:	……
a.	Surface preparation ISO 8501-1:2007	……
b.	Primer coat – Carbomastic 15 or equivalent	……
c.	Final coat – Carboline 134 or equivalent White	……
47.2.	The aerial platform paint dry film thickness is not to be less than 100 µm	……
47.3.	It is important that the inner surfaces of the booms are to be given marine quality protection against corrosion. Proof of such protection must be supplied at delivery.	……
48.	**WARRANTY AERIAL PLATFORM**	
48.1.	The warranty period for the structural and hydraulic components shall not be less than 1 year and shall commence from the official date in service of the vehicle and the mounted equipment.	……
48.2.	The paint coating specified is to offer marine quality protection against corrosion for at least 5 years.	……
48.3.	Where it is found that the structural integrity of booms is impacted severely due to internal corrosion, the replacement of such booms will be for the tenderers account.	……

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
48.4.	Tenderers shall submit full details of their guarantee commitments contained in the warranty documents indicating in all respects the extent thereof.	……
48.5.	The main tenderer is to fully underwrite any warranties given by their subcontractors.	……
48.6.	Tenderers shall also undertake to guarantee that satisfactory after sales and maintenance support is provided in the geographical area of the City of Cape Town. See Special Conditions of Contract section 37	……
49.	**T2.3 DELIVERY**	
49.1.	Tenderers must specify dispatch period after placing of order clearly in terms of lead-time, rate of dispatch and completion of contract.	……
a.	Lead time for initial delivery of complete unit	……
b.	Chassis cab	……
c.	Load Body	……
d.	Aerial Platform	……
49.2.	The fully licensed vehicle (homologation must be included in the tendered price) complete with a current CRW certificate is to be delivered to the City of Cape Town's Mechanical Workshops at Ndabeni 13 Melck St. or as stipulated on the City of Cape Town's purchase order.	……
49.3.	A chassis cab service plan covering the period of five (5) years or 100,000 km and a service plan covering the aerial platform for a period of five (5) years must be included in the total price of the vehicle. Full details of such service plan should be supplied with tender.	……
49.4.	The price of a pre-delivery service for each vehicle must be included in the tendered price where such service is recommended by the manufacturer.	……
49.5.	The homologation certification cost must be included in tender price and submitted at time of delivery	……
49.6.	The vehicle registration and licensing cost must be included in the tender price.	……
50.	**T2.3 STANDARD FITMENT ITEMS**	
50.1.	The following items shall be included in the total tendered price as standard fitment items.	……
50.2.	A 2,5 kg dry powder fire extinguisher fitted in a suitable position in the cab.	……

SPECIFICATION T 2.3 TRUCK D/CAB 4 x 2 WITH 12 M AP		DETAILS OF OFFER
50.3.	A robust lockable, robust plastic / polyethylene document container to hold logbooks, instruction documents, manuals. The container must be sized to comfortably accommodate A4 documents. The container will be fitted in a convenient place in the cab.	 ……
50.4.	Set of 4 HDPE polyethylene foot pads	……
50.5.	Foot pad holder box	……
50.6.	Set of 4 HDPE polyethylene chocks	……
50.7.	Chock holder box	……
50.8.	Emergency 24V DC hydraulic pump and hand pump.	……
50.9.	A hydraulically powered bucket rotation system.	……
50.10.	One cone holder (See 56)	……
50.11.	One 9kg gas cylinder holder. (See 56)	……
50.12.	Set aluminium ladder brackets. (See 56)	……
50.13.	One aluminium toolbox 1500mm x 600mm x 500mm (See 55)	……
51.	**T2.3 Extras**	
51.1.	Rapid Outrigger Deployment control system (ROD)	……
51.2.	Supply and fit of a Battery powered hand wash unit (Teal or equivalent)	……

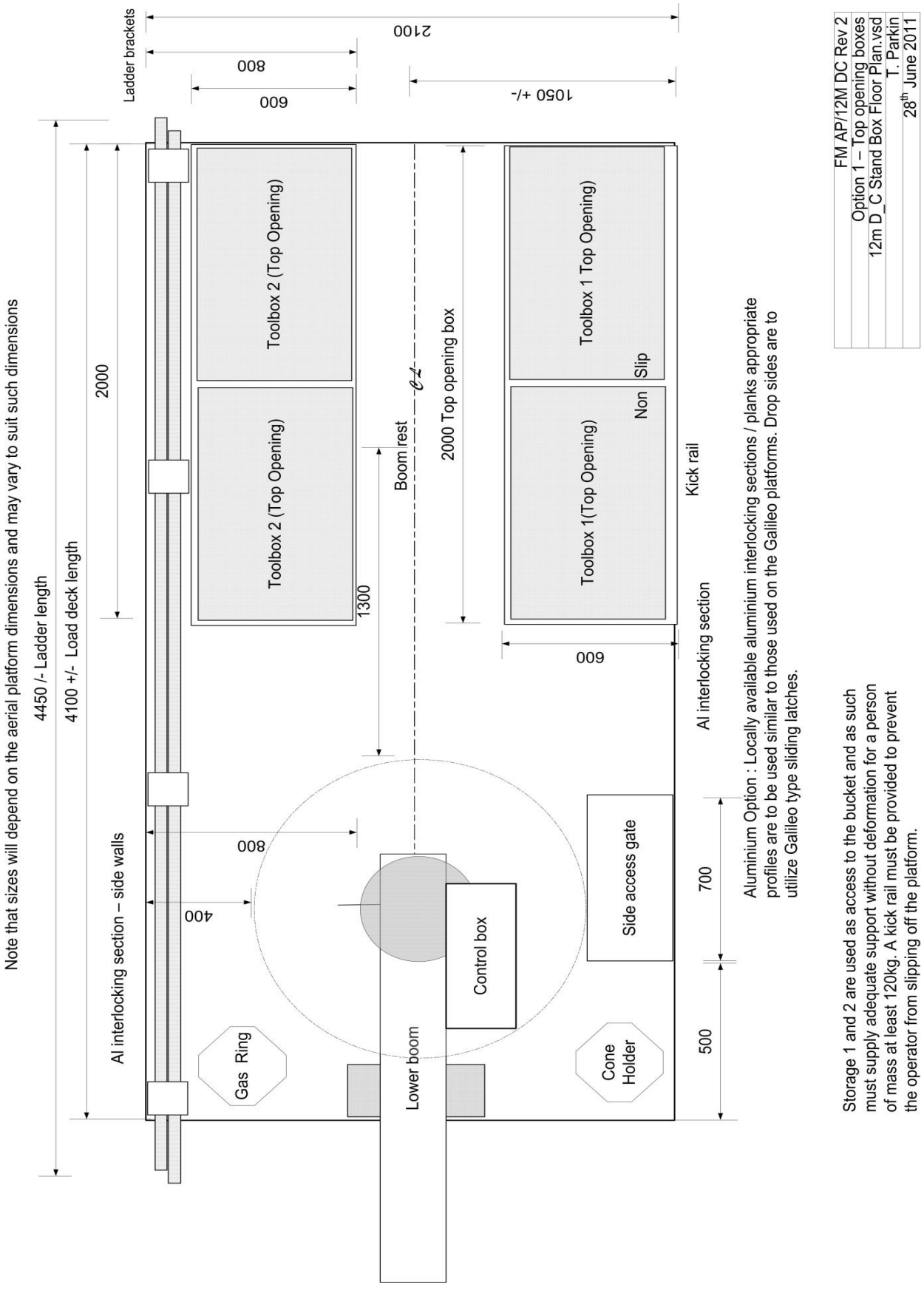
52.	T2.3 Double cab 12 m ap - layout drawing

This drawing is to not to be used to extract dimensions for construction purposes.
It is a depiction of the overall appearance of the aerial platform and the load body.
The tenderer is to refer to the technical specification clauses for relevant details of the construction requirements..



53.	T2.3 Double cab 12 m ap - standard toolboxes

FLOOR PLAN WITH OPTIONAL STANDARD TOOLBOXES.

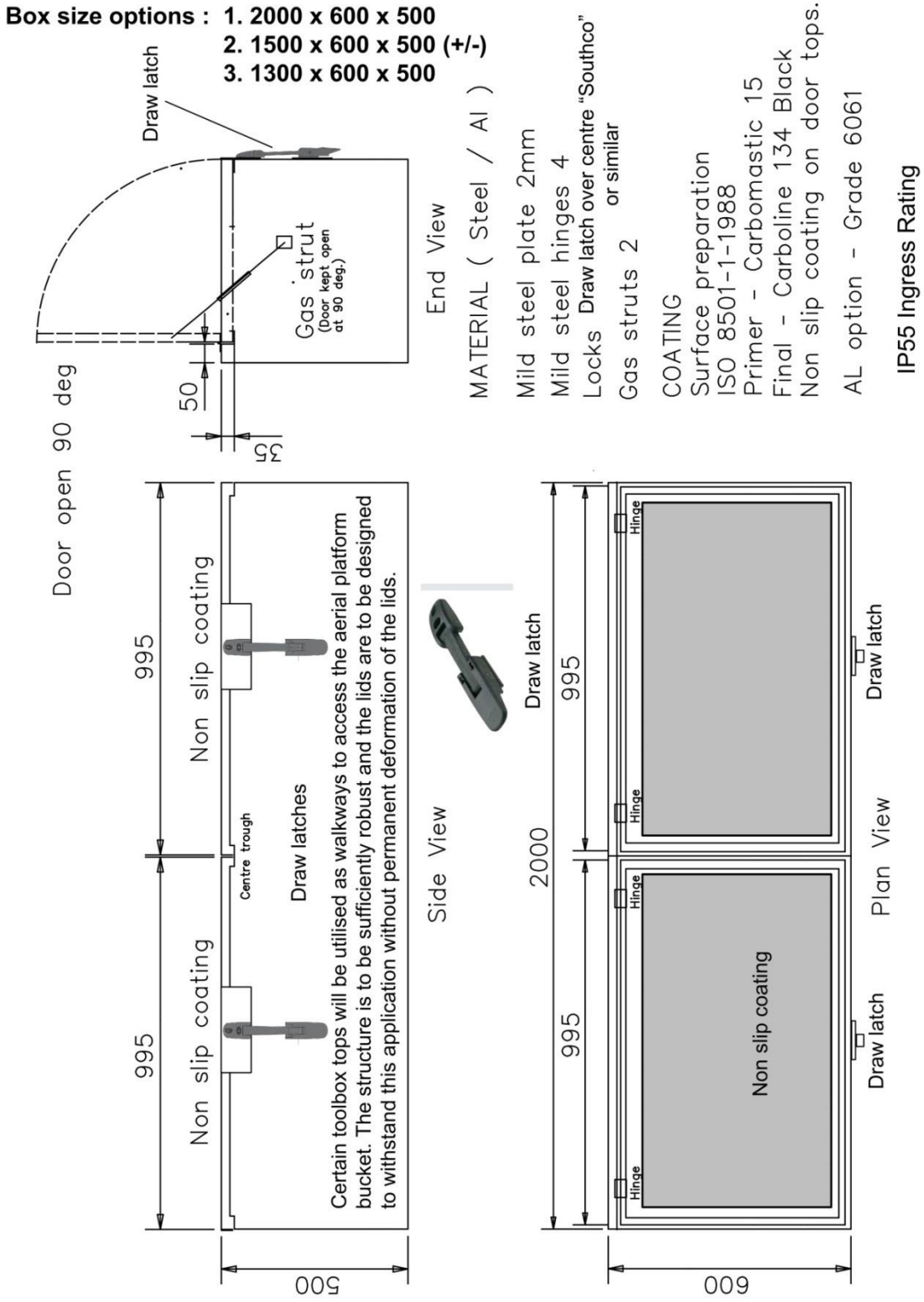


54.	T2.3 Double cab 12 m ap - side access

SIDE ACCESS GATE (TYPICAL LAYOUT)

55.	T 2.3 Double cab 12 m ap - toolboxes

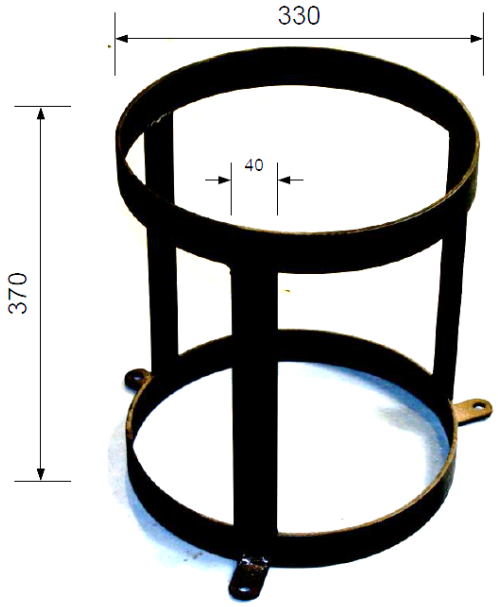
STANDARD TOOLBOX (TYPICAL ARRANGEMENT)



56.	T 2.3 Double cab 12 m ap - floor fitments

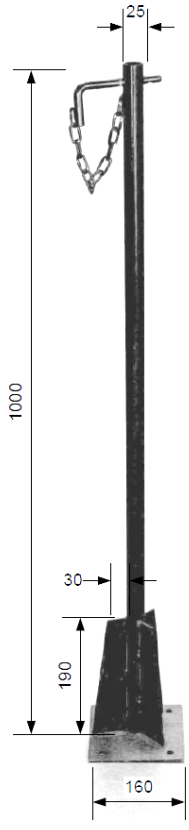
(Placement to be finalised during construction phase.)

GAS CYLINDER HOLDER – CONE HOLDER - LADDER BRACKETS



Material : Mild steel strip
40x4mm
Lugs: 50x30x4mm – 12mm hole
Rounded as shown
Weld full depth
Corrosion Protection: Hot dipped galvanised
Include Grade 4.8 bolts, washers and locknuts for fitment to load body floor.

9KG GAS CYLINDER HOLDER



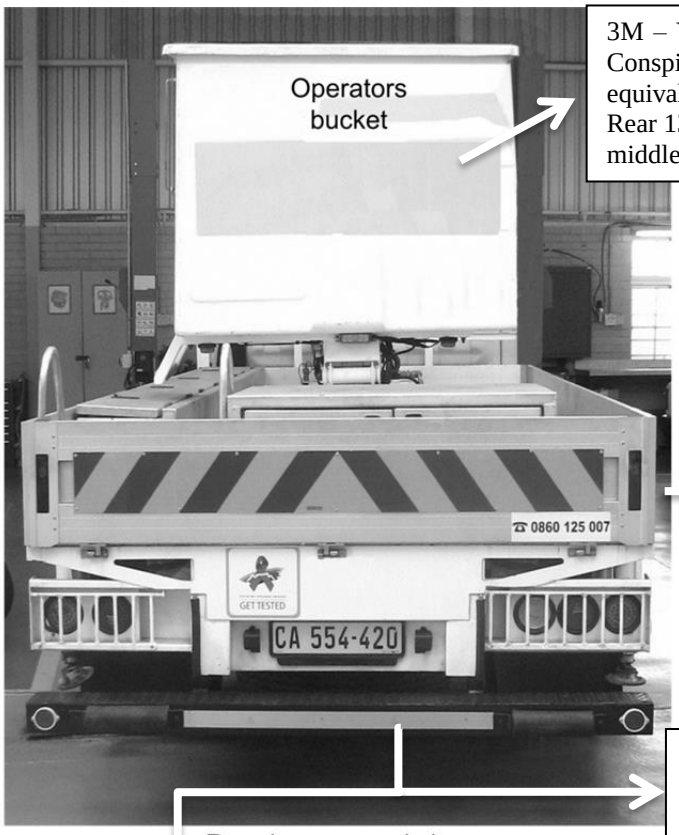
Material: Mild steel
Base: 160mm Sq x 4mm – 12mm holes
Gussets: 190x50x30x3mm
Pipe: 1000x25x2mm dia – drill 8mm hole
Lock pin: 6mm bar bent as shown.
Chain: Light chain welded to pipe and lock pin.
Corrosion Protection: Hot dipped galvanised
Include Grade 4.8 bolts, washers and locknuts for fitment to load body floor.

Cone Holder

Typical ladder brackets with rollers to ease the ladder into position. It is preferred that the rollers be sunk into the deck to bring the ladder down as low as possible,

57.	**T 2.3 Double cab 12 m ap - decals and rear bumper arrangement**

AERIAL PLATFORM DECALS AND REAR BUMPER



3M – Yellow Diamond Engineering Grade Conspicuity Tape (Code: VDGC4084) or equivalent standard. Position as follows:- Rear 1300 mm W x 360 mm H – positioned middle third.

Note decal / reflective tape / reflectors position.

Chevron must comply with SANS 1329:4 and carry the SANS mark

3M – Orange diamond grade conspicuity marking code: 983-71 ECE mark or equivalent standard. SANS 2014

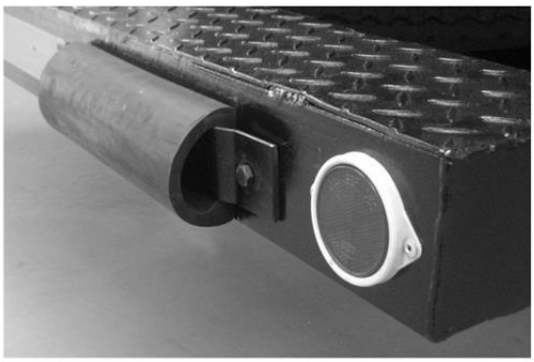
Rear bumper end view

Rear bumper side view

Rear bumper / under run bumper manufactured from two 100 x 50 channel welded together. Ends blanked off. Checker plate stitch welded on top as shown.

Two D shaped rubber mounted onto the rear face of the bumper arrangement with 12mm dia bolts.

All edges to be dressed. Corrosion protection as stipulated in the technical specification.



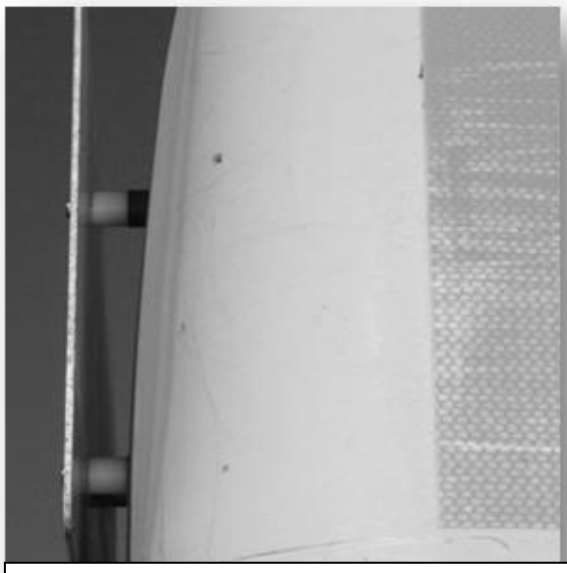
D rubber detail

58.	T 2.3 Double cab 12 m ap - operators bucket

HDPE POLYETHYLENE OPERATORS BUCKET AND FITMENT OF PLATE

Fitment of aluminium / polycarbonate plate on the operators bucket if decals cannot be affixed to the bucket.

Plate size: 800 x 400 x 3 mm



Fitment of aluminium plate on the operators bucket.

End view. Note spacers to be used.

(13) SPECIFICATION T2.4 TRUCK SINGLE CAB 4 X 4 WITH FITTED 18 M AP

CITY OF CAPE TOWN
ELECTRICITY ENERGY AND DISTRIBUTION

This Schedule of Technical Data must be fully completed and submitted with each offer, simply to state "comply" or "noted" is not sufficient, full details must be given.

SPECIFICATION T2.4

TRUCK 4 x 4 WITH FITTED 18 M AERIAL PLATFORM

SPECIFIED T 2.4	**DETAILS OF OFFER:**
SCOPE OF SPECIFICATION	
This specification provides for the supply of heavy-duty, 2 axle, 4x4, diesel powered platform trucks in single rear wheel configuration fitted with 18 M telescopic aerial platforms conforming to the technical specification below.	
The vehicles are required for general electrical infrastructure maintenance within the CITY OF CAPE TOWN'S geographical boundaries. The supplied vehicle / aerial platforms combination shall be designed for and be capable of efficient and satisfactory operation under all South African weather conditions.	
Tenderers are to state here their choice of vehicle and aerial platform offered complying with the technical specifications as found in clauses 1 – 58 below.	
Vehicle: Make, Model	……
Aerial Platform: Make, Model	……
PROFESSIONAL PDF DOCUMENTS	
It is required that the tender document be completed in ink.	……
All documentation including that of the tender submission such as OEM brochures, technical drawings etc. must be in the English language and properly assembled in an appropriate lever arch file with clear labels indicating the various sections.	……
All documents submitted must in addition be scanned in PDF format and be submitted on a standard USB flash drive that is to be clearly labelled with the bidders company name, tender number and description.	……

SPECIFICATION T 2.4 TRUCK 4 x 4 WITH 18 M AP		DETAILS OF OFFER
1.	**APPLICABLE STANDARDS**	
	The latest standard shall apply.	……
1.1.	SANS 1055:2007 : Under run bumper	
1.2.	SANS 1091:2012 : National colour standard	
1.3.	SANS 1207:1998 Latest : Brakes	
1.4.	SANS 1327:2004 : 7 pin trailer socket	
1.5.	SANS 1329:4:2004 : Retro-reflective signs.	
1.6.	SANS 1496:2017 : Wheel Flaps	
1.7.	SANS 1517:2005 : Lubricating oil diesel engines	
1.8.	SANS 1550-1:2017 : Motor vehicle tyres and rims.	
1.9.	SANS 1700 : Fasteners	
1.10.	SANS 8501-3:2008 Preparation of steel substrates	
1.11.	SANS 10013-1:2006 : Internal combustion engines:	
1.12.	SANS 10168:2002 : Seat belts	
1.13.	SANS 10281:2003 : Sound levels	
1.14.	SANS 12944:1998 : Steel corrosion protection.	
1.15.	SANS 16368: 2014 Mobile elevating work platforms	
1.16.	SANS 20049:2009 : Particulate pollutants engines	
1.17.	SANS 20104:1998 : Reflective tape.	
1.18.	Occupational Health and Safety Act No. 85 of 1993	
1.19.	South African Road Traffic Act (Act 89 of 1989)	
1.20.	ANSI/SAIA A92.2 – 2015 : MEWP Elevating Platforms	
1.21.	EN 280:2013 MEWP Elevating Platforms	
2.	**T2.4** ENGINE	
2.1.	The vehicle preferably must be equipped with a common rail diesel engine delivering a maximum net output of not less than 150 kW and maximum net torque of not less than 600 Nm to SANS 10013-1: 2006 or latest version.	……
a.	Make and model	……
b.	Capacity cc	……cc
c.	Maximum Output not less than 150 kW (kW @ rpm)	……kw……rpm
d.	Maximum Torque not less than 600 Nm (Nm @ rpm)	……Nm……rpm
e.	Emission standard not less than Euro 2	……
f.	BSFC @ Max torque not greater than 220 g/kW/hr	……
2.2.	The engine shall have as standard fitment, an engine protection system monitoring high water temperature, low oil level and low oil pressure.	……
2.3.	**ENVIRONMENTAL COMPLIANCE**	
a.	The vehicle emissions under start up and operating conditions shall comply with the International Euro 2 standard as a minimum. In this context emissions must conform to SANS 20049:2009 or latest version requirements and conformance reflected in attached brochures.	……
b.	As part of the emissions legislation, tenderers are required to demonstrate that the emissions control systems fitted to the proposed vehicles are durable and are able to maintain the vehicle emissions below the legislated limits for the useful life of the vehicle up to 100 000 km.	……

SPECIFICATION T 2.4 TRUCK 4 x 4 WITH 18 M AP		DETAILS OF OFFER
2.4.	**ENGINE PERFORMANCE** The tenderers are to enter the data as requested in the attached table from attached brochures.	……

Engine (r/min)	1000	1200	1400	1500	1600	1800	2000	2200
Power (kW)								
Torque (Nm)								

3.	**TRANSMISSION**	
3.1.	A robust transmission using locally supported automatic manual transmission technology is preferably to be fitted. Fully automatic transmissions will however be considered. A PTO provision must be available at a convenient location on the transmission housing.	……
3.2.	The tenderer may offer a fully automated transmission with torque converter and "hot shift" engaged PTO (World Series Allison or equivalent) and is to ensure that the gearbox and engine combination is perfectly matched in all respects and is to provide a SCAAN duty cycle simulation model as documentary proof thereof.	
a.	Make and model	……
3.3.	**GEARBOX PERFORMANCE**	

Gear Ratio	Speed @ max rpm	Speed @ max torque	Gradeability @ V (%)	Gradeability@ D/T (%)
1				
2				
3				
4				
5				
6				
Rev				

3.4.	**GRADEABILITY**	
a.	A gradeability of not less than 25% in first gear at V is required. The maximum speed attainable must not be less than 80km/h.	……
a.1.	Gradeability @ V	……
4.	**CHASSIS**	
4.1.	A chassis of robust construction with a manufacturer's GVM rating not less than 12000 kg is required.	……
a.	Wheelbase	……mm
b.	Overall width	……mm
c.	Overall length	……mm
d.	Overall height	……mm
e.	GVM rating	……kg
f.	V rating	……kg

SPECIFICATION T 2.4 TRUCK 4 x 4 WITH 18 M AP		DETAILS OF OFFER
5.	**CLUTCH (Applicable if AMT is offered) State make and model of clutch, and operation**	……
a.	Make	……
b.	Model	……
c.	Operation	……
6.	**AXLES**	
6.1.	**FRONT AXLE** The vehicle must be fitted with heavy-duty double acting shock absorbers at the front.	
a.	Axle make / type	……
b.	Axle capacity	……kg
c.	Spring capacity	……kg
6.2.	**REAR AXLE** The vehicle must be equipped with a heavy-duty rear axle.	……
a.	Axle make / type	……
b.	Axle capacity	……kg
c.	Spring capacity	……kg
d.	Final drive ratio	…… : 1
7.	**BRAKES**	
7.1.	The vehicle must be equipped with a braking system in compliance with the relevant SANS standards (SANS 1207:1998 or the latest version thereof).	……
7.2.	The vehicle must have an ABS brake system as standard fitment.	……
a.	Brake system type (Air, Vac, and Hydraulic.)	……
b.	Emergency / parking brake (wheel operated)	……
c.	ABS brakes	……
8.	**WHEELS AND TYRES**	
8.1.	The vehicle must be fitted with suitably sized steel belt radial tyres of preferably South African manufacture.	……
8.2.	The size and ply rating must be the same and freely available within the geographical boundaries of the City of Cape Town.	……
8.3.	All inner wheels should have valve extensions of the steel braided flexible type	……
8.4.	All tyres including the spare wheel must be of the same manufacture, size and ply rating.	……

SPECIFICATION T 2.4 TRUCK 4 x 4 WITH 18 M AP		DETAILS OF OFFER
8.5.	Tyre loads, as well as tyre to rim matching, must comply with SANS 1550-1:2005 or the latest version thereof.	……
a.	Size and ply rating	……
b.	Load factor	……
c.	Rim size	……mm
d.	Tyre size front	……mm
e.	Tyre size rear	……mm
f.	Quantity	……
g.	Inflation pressure (front) @ V	……kPa
h.	Inflation pressure (rear) @ V	……kPa
9.	**STEERING**	
9.1.	Power assisted steering is required.	……
a.	Turning circle (curb to curb)	……mm
b.	Turning circle (wall to wall)	……mm
c.	Number of turns lock to lock	……
10.	**CHASSIS CAB**	
10.1.	The cab must be able to tilt forward to expose the engine assembly and facilitate inspection and maintenance.	……
10.2.	The cab is to have sufficient seating for 3 persons with front cab seats fitted with standard seat belts conforming to SANS 10168:2002 or the latest version.	……
10.3.	The driver's seat shall be fully adjustable.	……
10.4.	The steering wheel shall be adjustable for rake and height to facilitate operator comfort	……
10.5.	A (2.5kg) portable type fire extinguishers shall be provided and shall be easily accessible to the operator.	……
10.6.	A warning red pilot light is to be installed on the dashboard to indicate that the PTO is in operation.	……
10.7.	The PTO control switch needs to be clearly marked specifying its function and operation. Dyna tape or any form of stick on label is not acceptable.	……
10.8.	The vehicle is to be fitted with an alarm immobilizer conforming at least to a VESA level 5 standard.	……
10.9.	The alarm /immobilizer system must not rely solely on a key transponder.	……
10.10.	The alarm system has to include an audible alarm which will activate a siren rated at least 120dB, if security on the vehicle is compromised for any reason.	……
10.11.	A sound system incorporating a radio with station identification functionality, aux input, front USB input for mp3 audio is to be installed.	……

SPECIFICATION T 2.4 TRUCK 4 x4 WITH 18 M AP		DETAILS OF OFFER
10.12.	Sturdy firmly braced wheel flaps must be fitted behind the front and the rear wheels. SANS 1496:2001 or latest version.	……
10.13.	A sturdy rear under run bumper is required in terms of the South African Road Traffic Act, and must conform to (SANS 1055:2007 or the latest version thereof).	……
10.14.	A fuel tank of not less than 80L capacity is required.	……
a.	Lockable fuel tank cap is required.	……
b.	Fuel tank size	……
c.	Lockable fuel tank cap	……
10.15.	A factory approved air conditioner shall be supplied as standard fitment.	……
11.	**T2.4 PAYLOAD REQUIREMENTS**	
11.1.	The tenderer is to ensure that: V - T is greater or equal to 3500 kg Where :- V - T = minimum payload V = the permissible maximum vehicle mass T = the tare mass of the completed aerial platform with all fitments including maximum fluid levels but **excludes driver and passengers.**	……
a.	GVM (not less than 12 000 kg	……kg
b.	V (Permissible mass)	……kg
c.	T (Tare mass)	……kg
d.	V - T (not less than 3 500 kg)	……kg
12.	**T2.5 AXLE LOADING**	
12.1.	Axle loads in kg as set out hereunder, must be stated as accurately as possible.	……

12.2.	**VEHICLE , LOADBODY AND PLATFORM**	**FRONT AXLE (kg)**	**REAR AXLE (kg)**
a.	Licencing / Tare mass (T)		
b.	Maximum payload from axle loading software		
c.	Fully laden		
d.	Maximum permissible legal axle mass		

12.3.	Load distribution charts are to be supplied along with tender documents in support of figures in 12.1	……
13.	**T2.4 ELECTRICAL SYSTEM**	
13.1.	**ALTERNATOR**	
a.	The vehicle is to be fitted with an alternator capable of charging the battery whilst operating ancillary equipment and auxiliary lighting specified in this tender under engine idling conditions.	……

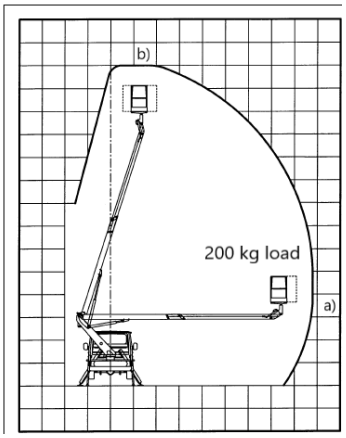
SPECIFICATION T 2.4 TRUCK 4 x4 WITH 18 M AP		DETAILS OF OFFER
b.	The resultant current draw by the accessories over and above that required by the chassis cab itself, is at least 50A.	……
b.1.	Alternator (Volts @ Amps)	……
b.2.	Starter motor (Volts , Power)	……
13.2.	**BATTERIES**	
	Batteries shall be deep cycle type, maintenance free and permanently sealed and within a proprietary lockable battery box.	……
a.	Make / model	……
b.	Qty	……
c.	Capacity AH	……AH
d.	Lockable battery box	……
13.3.	**ACCESSORIES**	
a.	All accessories to be rated 24V, alternatively a single proprietary 24/12V (Bosch Mobility or equivalent), suitably power rated converter must be fitted to power all 12 V accessories.	……
b.	Under no circumstances must auxiliaries be connected to one battery only.	……
c.	Electrical wiring diagrams detailing accessory connections to be furnished.	……
13.4.	**ACCESORY JUNCTION BOARD**	
a.	It is required that an accessory junction board (RAMM, Safestop or equivalent models) such as that depicted in clause 3.5 of the General Technical Requirements be used for connection of the vehicle accessories.	……
b.	The fitment of the accessory junction board and accessories must in no way compromise the warranty requirements of the vehicle and aerial platform.	……
c.	Easily accessible, appropriately rated resettable fuses must be incorporated into all accessory circuits.	……
13.5.	**T2.4 HOUR METERS**	
a.	An engine hour meter (Siemens VDO 24V or equivalent) which senses the operation of the alternator shall be incorporated in the cab preferably using existing accessory ports.	……
b.	An hour meter is to be connected to the live side of the dash mounted PTO light switch thus registering only when the PTO is activated. The hour meter must not register when the engine is switched off from the aerial platform bucket or the cab.	……
c.	The size of both hour meter displays (engine and aerial platform operation) shall facilitate the ease of reading whilst seated comfortably in the driver's position.	……

SPECIFICATION T 2.4 TRUCK 4 x 4 WITH 18 M AP		DETAILS OF OFFER
13.6.	**LIGHTING**	
a.	The vehicle shall be equipped with lights in accordance with the latest compulsory South African Road Traffic regulations.	……
b.	Vibration free rear light assemblies, (Truck Lite LED type or equivalent) each consisting of a direction indicator / stop / rear position light and housed in sturdy metal protective cages, are required. The front of the cages, consisting of protective metal rods or grid, shall hinge open to allow easy access to the lights.	……
c.	In the event that the indicator flasher rate is altered after installation of the abovementioned LED units, a replacement electronic flasher unit assembly, rather than a load resistor, is the required method of restoring the flashing rate to the factory pre-set rate. The fitment of such a unit shall be factory approved and must in no way impact the chassis cab warranty.	……
13.7.	**ALARM SYSTEM**	
a.	Apart from the normal key transponder and immobilizer to be supplied as standard fitment, an audible alarm system rated at approximately 120dB shall be professionally fitted by a VESA approved agent. All doors to be automatically locked by the transponder.	……
a.1	Make and Model	……
a.2	Accredited agency	……
14.	**T2.4 PAINT SPECIFICATION**	
14.1.	**CHASSIS CAB**	
a.	The truck chassis cab must be finished in factory standard white.	……
b.	The cab is to incorporate a factory standard paint specification utilizing an anti-corrosion dip process and must provide at least three years corrosion protection in a coastal environment.	……
c.	The chassis, drive line components, and under body components are to be black in colour and protected with a proprietary under body coating. i.e. dry ice abrasive blasting then aluminium epoxy mastic such Carbomastic 15 or equivalent. If this coating is not supplied as factory standard then it is to be included in the tendered price.	……
14.2.	**LOAD BODY AND SUB FRAMES**	
a.	The load body, chassis, all under body components, and aerial platform sub frame members must be suitably coated to provide at least 5 years corrosion protection in a coastal environment.	……

SPECIFICATION T 2.4 TRUCK 4 x 4 WITH 18 M AP		DETAILS OF OFFER
b.	The following coating specification shall be adhered to in this regard:-	
c.	ISO 12944-5:2019 *Paints and varnishes — Corrosion protection of steel structures by protective paint systems — Part 5: Protective paint systems*	……
c.1.	Environment classification (C5-M) - coastal	……
c.2.	Durability classification (M)	……
d.	The following or equivalent substrate preparation in accordance with the above standard is to be achieved.	
d.1.	ISO 8501-1:2007 *Preparation of steel substrates before application of paints and related products*	……
d.2.	Primer Coat – Carbomastic 15 or equivalent	……
d.3.	Final Coat – Carboline 134 white or equivalent	……
e.	All inner surfaces and seams on the vehicle must be treated with clear Tectyl or an equivalent rust-preventative material to safeguard the vehicle against rust for at least three years.	……
f.	Any compulsory inspections with regard to the above process will be carried out in the operational area of the vehicle by accredited agencies of the Tenderer.	……
15.	**T2.4 WARRANTY**	
15.1.	The following are the <u>minimum</u> respective warranty periods acceptable to the City of Cape Town, fair wear and tear excluded.	……
	MINIMUM WARRANTY REQUIREMENTS:	
a.	**Mechanical:**	
a.1.	Chassis cab drive train (2 years or 100000km)	……yrs……km
b.	**Paint and Corrosion Protection**	
b.1.	Load body sub frame (5 years)	……yrs.
b.2.	Cab (3 years)	……yrs.
b.3.	Chassis underbody (5 years)	……yrs.
b.4.	Drive train components (5 years)	……yrs.
15.2.	Full details of any warranties offered should be attached with tender documents.	……
15.3.	Tenderers are expected to accept full responsibility for the complete truck and aerial platform combination and must under-write any guarantees offered by their sub-contractors.	……
16.	**T2.5 TRUCK SERVICE AND REPAIR**	
16.1.	Please refer to <u>Special Conditions of Contract section 37</u> for contractual accredited maintenance, servicing, spares and parts outlets.	……

	SPECIFICATION T 2.4 TRUCK 4 x 4 WITH 18 M AP	DETAILS OF OFFER
16.2.	The tenderer shall provide estimated maximum repair periods of the following truck components covering warranty and general repairs.	……
a.	Major Warranty (Engine, gearbox, differentials etc.)	……days
b.	Minor General (Servicing, brakes, clutch etc.)	……days
17.	**T2.4 TRUCK SPARES**	
17.1.	Standardisation and mutual interchangeability of components is essential.	……
17.2.	The tender shall indicate the spares availability and stock holding within South Africa for the make and model of the truck offered.	
a.	Value of spares holding in South Africa	R……
b.	Spares availability (Major spares - Engine, gearbox etc.)	……%
c.	Spares availability (Minor spares / servicing spares)	……%
17.3.	Fast moving service spares need to be available within the geographical area of City of Cape Town	
a.	Location of spares outlets	……
17.4.	Lead time of spares delivery ex warehouse outside the City of Cape Town geographical boundaries within South Africa.	……days
18.	**T2.4 CHASSIS CAB REQUIREMENTS**	
18.1.	Relevant data sheets, engine performance curves, and brochures in support of the specified vehicle must be submitted.	……
18.2.	A general arrangement drawing of the vehicle complete with installed equipment, showing all essential features, dimensions and weight distribution under a full operating cycle is required.	……
18.3.	Essential tools, including a 6-ton hydraulic jack must be provided.	……
19.	**T2.4 AERIAL PLATFORM**	
19.1.	It is required that the tenderer install a telescopic aerial platform onto the vehicle matching one of the following standards. The tenderer is to indicate to which standard the offered mobile aerial work platform complies to.	……
a.	SANS 16368: 2014 Mobile elevating work platforms — Design, calculations, safety requirements and test methods	……
b.	ANSI/SAIA A92.2 – 2015 : Vehicle-Mounted Elevating and Rotating Aerial Devices	……

SPECIFICATION T 2.4 TRUCK 4 x 4 WITH 18 M AP		DETAILS OF OFFER
c.	DIN EN 280: 2013 Mobile elevating work platforms: Design calculations - Stability criteria - Construction - Safety - Examinations and tests	……
19.2.	The user / maintenance manuals supplied shall contain a signed declaration by the "responsible entity" (as defined in the standards), confirming the conformance of the aerial platform to this standard as well as to any local or international Safety Directives.	……
19.3.	The aerial platforms offered have to match the aesthetics of the existing City of Cape Town's fleet of aluminium clad aerial platforms. The tenderers are to acquaint themselves with the current aerial platform fleet.	……
19.4.	The compact telescopic aerial work platform shall comprise a turning turret, a fixed length main boom, a hydraulically operated telescopic boom and an operator's bucket, and a robust load body of aluminium construction.	……
19.5.	The major components of the upper boom assembly are an outer boom, a telescoping inner boom, an extension cylinder, an electrical / hydraulic hose carrier system, and slide pads mounted on the inner and outer boom.	……
19.6.	The aerial platform must be fitted onto a full length sub frame and load body and mounted directly onto the vehicle chassis as per the OEM body builders instructions.	……
19.7.	The centre of gravity (CG) of the installed aerial platform with loadbody and all fitments should be as low as possible to vehicle chassis level for stability. Height of CG above vehicle chassis longitudinal from axle loading software.	……mm
19.8.	The turning turret arrangement must not extend over the cab windscreen space and the top of the turning turret arrangement must preferably not be greater than 800 mm above the top of the cab roof.	……
19.9.	It is preferable that the selected aerial work platform is of compact design and that its overall length can be comfortably accommodated on a load body fitted onto a standard truck chassis. (See 52)	……
19.10.	The tenderer is to provide a concise drawing showing the general layout of the 18 m aerial work platform on the vehicle chassis.	……

SPECIFICATION T 2.4 TRUCK 4 x 4 WITH 18 M AP		DETAILS OF OFFER
20.	**T2.4 WORKING ENVELOPE**	
20.1.	The working envelope is to be with two people at 200 kg load with H type outriggers not extending past the side of the truck more than 500 mm.	……
20.2.	**WORKING ENVELOPE @ 200KG**  **a)** Working envelope with boom horizontal, fully extended on level ground @ 200 kg bucket load at least 7m on horizontal axis. **b)** Working envelope at maximum elevation, fully extended on level ground @ 200 kg bucket load at least 17m on vertical axis.	……m ……m
21.	**T2.4 AERIAL PLATFORM SUBFRAME**	
21.1.	A full length high strength, lightweight sub frame to support the 15 m aerial work platform must be designed, fabricated using Domex or equivalent and fitted to the vehicle chassis sub frame according to the recommended aerial work platform and truck OEM body builder specifications.	……
21.2.	The mounting brackets must be incorporated according to the recommended spacing and strategically placed where load transfer takes place i.e. at the platform base and at the outriggers.	……
21.3.	Full firm contact is to be made between the aerial platform sub frame and the chassis sub frame i.e. no gaps must be evident.	……
21.4.	The sub frame must be capable of withstanding maximum design loads imposed upon it during a full range of operations.	……
21.5.	It is preferred that the pedestal of the aerial platform be situated in-between the sub frame longitudinal and not on top to keep the centre of gravity as low as possible.	……
21.6.	Side and cross bearer members of the aerial platform sub frame shall be of suitable dimension to ensure torsional stability of the assembly as well as provide adequate support for the load body.	……
21.7.	The sub frame components shall be designed and constructed from Domex or equivalent steel using pressed / hollow sections for the lowest mass / strength ratio possible according to OEM standards for the vehicle and fitted aerial platform.	……

SPECIFICATION T 2.4 TRUCK 4 x 4 WITH 18 M AP		DETAILS OF OFFER
21.8.	The design of the sub frame as well as the fitment methods shall be approved by the aerial platform manufacturer and vehicle supplier.	……
21.9.	Documentary evidence of such approval shall be submitted.	……
21.10.	A general layout diagram showing all pertinent dimensions and fitment methods must be included with the tender offering.	……
22.	**T2.4 AP LOADBODY CONSTRUCTION**	
22.1.	A light weight yet robust platform load body with 500 mm fixed sides, rear tail gate, and free draining, non-slip decking is required to be fitted to the aerial platform sub frame and then mounted to the vehicle chassis.	……
22.2.	Side plates, walls and tailgate must be constructed from locally available interlocking anodised aluminium rectangular profiles / planks and shall be supported by robust centre and corner posts as per the current fleet of aerial platforms using such profiles.	……
22.3.	The material used for the sides, ends, tailgate of the load body shall be of aluminium alloy 6063 T6 (or equivalent) extrusion 25mm width and 2mm wall thickness.	……
22.4.	The decking of the platform load body must be slip resistant and free draining and must be adequately supported by sturdy side bearers welded / bolted to the aerial platform sub frame to prevent a deflection of the decking in between supports more than 1mm under normal loading conditions.	……
22.5.	The floor decking shall be raised pattern non-slip solid floor plate, Floorex 3Cr12 (or equivalent) and at least 4mm nominal thickness.	……
22.6.	The cab protector / bulkhead must be of sturdy design section mild steel grade 300W hot dipped galvanised.	……
22.7.	A robust boom rest bracket constructed from mild steel grade 300W hot dipped galvanised fitted with resilient pad, with lower boom locking device is to be supplied for firm boom support and compact travelling whilst in the stowed position.	……
22.8.	The hot dip galvanized coating shall conform in every respect to the standards contained in SANS 121 (ISO 1461:2009) and SANS 32 (EN 10240:1997).	……

SPECIFICATION T 2.4 TRUCK 4 x 4 WITH 18 M AP		DETAILS OF OFFER
23.	**T2.4 LOADBODY MATERIAL**	
23.1.	The following is a list of essential materials and is not to be construed as a complete material list.	……
a.	**Side panels, side access and tail gate**	
a.1.	Aluminium alloy 6063 T6 extrusion.	……
b.	**Decking**	
b.1.	Floorex 3Cr12 (or equivalent)	……
b.2.	Nom thickness 4mm +/-	……mm
c.	**Sub frame**	
c.1.	Domex.	……
d.	**Cab protector**	
d.1.	Grade 300W steel section galvanised.	……
e.	**Floor decking support bearers**	
e.1.	Grade 300W steel section galvanised.	……
f.	**Load body manufacturer**	……
24.	**T2.4 LOADBODY ACCESS**	
24.1.	A safe, sturdy yet lightweight means of access to the platform load body should be provided on the curb side by means of a robust step arrangement and must include side grab rails.	……
24.2.	The rise of steps or rungs must be uniform and must not exceed 300 mm. The steps or rungs must be slip resistant.	……
24.3.	A toe rail must be incorporated to prevent the operator slipping whilst attempting to enter the load body. (See 54 for typical side step configuration)	……
25.	**T2.4 LOADBODY DIMENSIONS**	
25.1.	A maximum legal body length and a width of not less than 2200 mm is required. Tenderers must offer the best length to match their chassis, taking correct mass distribution and appearance into account.	……
a.	Length	……mm
b.	Width	……mm
25.2.	The body must be complete in all respects and fitted to the vehicle in such a way that it is in full compliance with the South African road ordinances, tyre pressures restrictions and with correct mass distribution.	……
25.3.	It is required that the fitment of the load body be inspected and approved by the chassis cab manufacturer in writing, a copy of which is to be submitted on delivery.	……
25.4.	The tenderer is to supply comprehensive drawings showing pertinent dimensions of the chassis cab, load body and aerial platform combination with the tender submission.	……
25.5.	An aluminium toolbox 2000mm x 600mm x 500mm shall be included as standard fitment the location of which shall be decided in consultation with the City of Cape Town.	……

SPECIFICATION T 2.4 TRUCK 4 x 4 WITH 18 M AP		DETAILS OF OFFER
26.	**T2.4 BOOM ARRANGEMENT**	
26.1.	The lower pedestal shall be of a sturdy design to support the rotation bearing and be capable of supporting forces generated through the turning turret and telescopic booms in the operation of the aerial platform.	……
26.2.	The rotation drive assembly is to be fully adjustable to permit reduction of rotation gear backlash, boom side play and to ensure proper tooth contact over the life of the unit.	……
26.3.	The rotation drive assembly (including pipes, fittings, electronics) is to be protected by a removable cover mounted on the load deck encircling the base of the aerial platform to eliminate any damage being sustained to the drive assembly whilst the aerial device is rotating.	……
26.4.	The diameter and height of the cover must clear the swing of the rotation drive assembly. The cover arrangement must not allow water to accumulate in the space occupied by the rotation drive assembly.	……
26.5.	The upper and lower booms are to be a reinforced, torsion resistant, steel box design of adequate cross section to carry all imposed loads without excessive rotation or deflection of the booms at maximum extension.	……
26.6.	The upper boom assembly is extended and retracted by means of a double acting hydraulic cylinder and chain arrangement where applicable over polyethylene slide pads bearing arrangements located in the end of the lower boom.	……
27.	**T2.4 SLIDE PAD ARRANGEMENTS**	
27.1.	The telescopic boom adjustable slide pad arrangement is to comprise not less than four (4) adjustable lateral polyethylene (or equivalent strength polymer) wear pads located at the boom end to minimise the lateral play in the inner telescopic boom.	……
27.2.	The vertical play in the telescopic boom shall be controlled by means of wear pads located at the top and bottom of the fixed boom.	……
27.3.	In all cases above the wear pads must be adjustable to allow the recommended space between pad and sliding member and must have a positive locking arrangement to ensure that the pad positions do not alter during normal operations of the boom.	……
28.	**T2.4 AERIAL WORK PLATFORM OPERATION**	
28.1.	The platform shall be hydraulically operated by means of a direct coupled PTO and hydraulic pump arrangement incorporating a failsafe system.	……

SPECIFICATION T 2.4 TRUCK 4 x 4 WITH 18 M AP		DETAILS OF OFFER
28.2.	The turntable shall be mounted on roller bearings and propelled in both directions by means of a hydraulic motor.	……
28.3.	The aerial platform must have a rotation capability of at least 340 deg taking into account the required dead band over the width of the cab.	……
a.	Maximum rotation	……deg
28.4.	The turntable shall be self-locking in all positions.	……
29.	**T2.4 RESERVOIR**	
29.1.	The reservoir shall preferably be of robust sufficiently stiffened stainless steel construction and be so constructed as to have a low end where water and contaminants will settle.	……
29.2.	A tap shall be located at the lowest point of the reservoir for oil inspection and drainage purposes.	……
29.3.	The pump intake port on the reservoir shall located at a point where no settled contaminants can be sucked into the pump inlet.	……
29.4.	The reservoir shall incorporate baffles to separate returning hydraulic fluid from that being drawn into the pump. See clause 3.4 of the General Technical Requirements or general layout drawing.	……
29.5.	The reservoir volume is to be approximately three (3) times the maximum pump flow rate so that under no circumstances during the normal 8 hour operation of the platform shall there be any instances of foaming, hydraulic cavitation or overheating.	……
29.6.	The strainer arrangement is to be located in a position to facilitate ease of maintenance without the need for emptying the reservoir.	……
29.7.	The reservoir is to incorporate a sight glass / inspection port to easily check hydraulic oil level and an oil temperature gauge.	……
29.8.	The reservoir is to be positioned flush against the rear bulkhead.	……
29.9.	The reservoir shall be fitted with a lockable reservoir cap. The reservoir should incorporate a separate breather fitted with 40-µm air filtration with a hydroscopic medium to absorb airborne moisture.	……
29.10.	The hydroscopic filter shall indicate saturation of the hydroscopic material requiring replacement.	……
29.11.	The reservoir breather system shall be positioned away from the reservoir to avoid water contamination by vehicle washing or any other external environmental factors.	……

SPECIFICATION T 2.4 TRUCK 4 x 4 WITH 18 M AP		DETAILS OF OFFER
30.	**T2.4 HYDRAULIC PUMP AND POWER TAKE OFF**	
30.1.	The PTO must be either electrically or air operated. Cable operation will not be accepted.	……
30.2.	The tenderer shall supply the power take off on the vehicle complete with a factory approved wiring loom interlinking to the vehicle computer ECU (making provision for an electronically controlled PTO).	……
30.3.	The PTO must be supplied with a failsafe system interlinked to the handbrake, accelerator and idle up switch of the vehicle.	……
30.4.	The PTO and hydraulic pump are to be rated at 20 % higher than the individual maximum demand placed on it by the operation of the aerial platform.	……
30.5.	The hydraulic requirements for the aerial platform taking into account the peak operating performance are to be listed below.	……
a.	AP operation – not less than 15 l/min @ 800 rpm	……
b.	Maximum pump flow rate / pressure	……
c.	Reservoir volume (at least 3 x max pump flow rate)	……
d.	State the truck engine rpm at which the hydraulic flow rate required by the aerial platform will be achieved	……
e.	Make / Model (PTO)	……
f.	Make / Model Hydraulic Pump	……
g.	Pump type	……
30.6.	All cylinders, piston rods, pipes, hoses, valves and fittings must be able to withstand a static pressure of 3 times the maximum operating pressure without permanent deformation.	……
30.7.	All piston rods to be hard chromed and ground for extended seal life. Pins are high strength alloy steel and zinc plated for corrosion resistance.	……
30.8.	Where practically possible, all exposed piston rods are to be enclosed with concertina type protective boots.	……
30.9.	Check valves shall be provided to lock the cylinders positively in position while the controls are not being operated.	……
30.10.	Hydraulic systems shall be such that free descent cannot occur in the event of a hose or fitting failure.	……
31.	**T2.4 EMERGENCY HYDRAULIC PUMP SYSTEM**	
31.1.	An emergency pump is to be installed to lower the boom arrangement. This system provides a 24V DC motor driven hydraulic pump connected in parallel with the engine driven hydraulic pump.	……

SPECIFICATION T 2.4 TRUCK 4 x 4 WITH 18 M AP		DETAILS OF OFFER
31.2.	A control is to be provided at the upper controls to actuate the emergency lowering motor. The pump is driven by the auxiliary battery pump.	……
31.3.	An emergency hand pump with fail safe device shall be incorporated for lowering of the bucket in case of emergency. The handle of the hand pump shall be galvanized.	……
31.4.	An inline pressure transducer (Turck PS510-400-04-LI2UPN8-H1141) or equivalent shall be incorporated in an appropriate and easily accessible location in the hydraulic circuit. The installation shall include all piping, a 24V power supply to the transducer and electrical connection to a digital display located either in or next to the lower control bank.	……
31.5.	All valves are to be clearly marked / labelled to indicate functionality.	……
31.6.	Hydraulic pump curves as well hydraulic circuit diagrams are required in support of the specified parameters. The drawings are to indicate safety devices and operating logic.	……
31.7.	All hydraulic connectors and fittings shall be plated for corrosion resistance. The plating used shall be offer the same corrosion resistance as stainless steel. Denso tape or equivalent will not be accepted.	……
32.	**T2.4 STABILISING SYSTEM**	
32.1.	The vehicles shall be equipped with two sets of H type hydraulic outrigger jack systems located at the front and rear of the vehicle load body. Alternative arrangements will be considered only if it can be proved that the H type outriggers cannot provide the desired stability ratio of at least 1.5 in terms of overturning moment at any point in the boom travel at maximum extension.	……
32.2.	The hydraulic stabilisers (outrigger) system shall incorporate a hydraulic mechanical interlock between the boom and outrigger jacks to prevent the hydraulic platform from being operated unless the outrigger jacks are fully deployed.	……
32.3.	A visual and audible alarm shall be provided which shall sound if an attempt is made to move the vehicle with the outrigger jacks not fully stowed.	……
32.4.	In the stowed position the outrigger jacks shall not protrude beyond the outer edge of the vehicle and shall have a minimum ground clearance of 300mm.	……
32.5.	The outrigger legs shall be operated by controls located independently from the aerial platform controls.	……
32.6.	All four outrigger leg extenders to be supplied with load holding valves.	……

SPECIFICATION T 2.4 TRUCK 4 x 4 WITH 18 M AP		DETAILS OF OFFER
32.7.	The deployed outriggers shall not be able to retract in the event of hydraulic line failure.	……
32.8.	A set of four stabilizer swivel foot pads Nylacast or equivalent at least 40mm thick, suitable for sand / soft soil conditions are to be supplied and housed in a suitable sturdy steel / PVC box fixed under the load deck as standard fitment.	……
32.9.	The stabilizer feet shall be constructed to accommodate ground unevenness of at least 10°.	……
32.10.	It is preferable that the vehicle and aerial platform combination be designed to be operationally stable with the outriggers not extending beyond the outer edge of the vehicle. The outriggers are to be fitted with reflective safety marking whilst in the extended position.	……
32.11.	The outrigger legs must be located on the outside of the load body but not extend beyond the outer edge of the vehicle.	……
33.	**T2.4 AERIAL PLATFORM CONTROL SYSTEM**	
33.1.	The aerial platform shall be operated by means of two hydraulically controlled valve banks. One fitted at the base on the curb side and one at the operator's bucket.	……
33.2.	The lower control bank shall have an overriding facility over the top bank for lowering of the bucket under emergency circumstances.	……
33.3.	The outrigger control bank shall be located on the curb side of the vehicle and be easily accessible to the operator.	……
33.4.	All controls must be "dead man" type which automatically return to neutral or the off position when released. Under no circumstances may there be hydraulic creep while the controls are in the neutral position.	……
33.5.	The direction of all movements of the elevating work platforms must be indicated by arrows on the control device. All controls must be positioned for logical operation and be clearly marked to show their function in legible letters and / or symbols.	……
33.6.	The upper control bank shall be mounted at a suitable ergonomically correct position on the exterior of the operators bucket and be electrically insulated from it and shall be suitably enclosed in a robust polyethylene / glass fibre waterproof enclosure to protect it from accidental damage.	……
33.7.	An emergency stop control which will cut off power must be provided at each control position. It must be prominent and coloured red.	……
33.8.	The controls must be of robust construction and	

waterproof to class IP65.	……

SPECIFICATION T 2.4 TRUCK 4 x 4 WITH 18 M AP		DETAILS OF OFFER
33.9.	All operating levers shall be protected by suitable insulating material and located in a protected area. The controls supplied shall be of precision manufacture to allow the operators a fine and smooth control of the aerial platform.	……
33.10.	An interlock shall be provided which will make it impossible to raise or lower the platform while the vehicle is in motion. The slewing mechanism shall be provided with a service brake.	……
33.11.	The control system offered must include limits which prevent the booms extending beyond its safe working range in any position i.e. preventing the vehicle from overturning.	……
33.12.	A start stop switch to allow the vehicle engine to be operated from the operators bucket shall be connected. The fitted PTO must stay engaged when the engine is switched on/off from the bucket controls.	……
33.13.	A proprietary electronic rev lifting device to be installed at PTO engagement. The device is to be programmable from low idle speed to a max of 900 rpm with no adjustment possible from the operator.	……
33.14.	Pilot lights in the cab have to be activated on PTO engagement.	……
a.	Green – PTO deactivated	……
b.	Red – PTO activated	……
c.	Red - Outriggers extended	……
d.	Green - Outriggers fully retracted	……
33.15.	The outrigger controls located on the curb side of the truck load body shall allow for the outriggers to be individually selected or all operated simultaneously by means of one lever.	……
33.16.	A facility coupled to the outrigger system for deploying only the two rear outriggers with manual levelling options shall be called the Rapid Outrigger Deployment system (ROD) and offered as an optional extra. The aerial platform will then be able to operate safely with the full working envelope restricted approximately 45 degrees of the vehicle centre line to the rear of the vehicle.	……
33.17.	To prevent the damage to the load body tail gate an appropriate upper boom limiting device needs to be incorporated to restrict the extension of the upper boom and or lowering of the boom unless the load body tail gate is cleared. The upper boom need to be fully home before the boom can be placed in the rest position	……
34.	**BOOM ROTATION LIMITER**	
34.1.	The platform is to be equipped with a motion limiting device which automatically prevents any part of the aerial platform from making any contact or crashing into the cab or cab protector.	……

SPECIFICATION T 2.4 TRUCK 4 x 4 WITH 18 M AP		DETAILS OF OFFER
34.2.	A boom rotation limiter override button is to be installed at the upper and lower control banks which allows the aerial platform main boom to be traversed over the region of the width of the cab in emergency conditions.	……
35.	**T2.4 OPERATORS BUCKET**	
35.1.	The operator's bucket manufactured from HDPE polyethylene (or equivalent strength thermoplastic polymer) , grey in colour , designed to comfortably accommodate 2 (two) persons' plus the tools held in an on board bucket tool storage compartment which could constitute a safe work load of not less than 200kg	……
35.2.	The bucket must be supported evenly on its base with no point loading. The use of full working width, perimeter support on Nylon 6 (or equivalent) bearing pads of sufficient dimension is required. Any alternative design meeting the OEM performance standards is accepted. See 58.	……
35.3.	Insulated safety straps connecting the bucket support bracket to the main boom bucket support structure must be incorporated to prevent the bucket from becoming fully detached.	……
35.4.	A safe means for boarding the bucket shall be provided and installed. Bucket entry shall be on the curb side.	……
35.5.	The bucket and all associated controls shall be electrically insulated from the frame to which it is attached against a potential difference of 1000V to earth.	……
35.6.	A load limiting device shall be incorporated in the bucket to ensure that the safe working load of 200kg is not exceeded.	……
35.7.	The dimensions of the lifting bucket accommodating 2 persons shall be not less than 1300 mm width x 750 mm depth x 1100 mm height.	……
a.	Lifting bucket dimensions: W x D x H (mm)	……
35.8.	A hydraulically powered bucket rotation facility is to be incorporated allowing not less than 50 deg left and right rotation of centre.	……
35.9.	The bucket shall be fitted with drainage holes at the lowest part of the bucket.	……
35.10.	A grating spanning the area of the bucket floor shall be neatly fitted onto the bucket floor taking into account ease of removal. Vitaglass moulded grating 38x38x38mm depth or equivalent is to be used. A sheet of PVC approximately 7mm thick is to be placed on the bucket floor upon which the grating will be placed.	……
35.11.	Fall protection attachment point brackets shall be provided and shall be positioned so that they do not interfere with the free movement of the operators and shall comply in all respects with the relevant standards.	……

SPECIFICATION T 2.4 TRUCK 4 x 4 WITH 18 M AP		DETAILS OF OFFER
35.12.	A robust load test bracket arrangement is to be centrally fitted to the bottom of the bucket support frame and be able to safely withstand double the rated safe working load. Standard load test cables must be able to be connected to the bracket by means of standard shackles.	……
35.13.	The bucket support attachment to the frame must maintain the 1000V electrical insulation whilst being robust enough to endure the vibration loading due to the typical road surface roughness within the City of Cape Town's geographical boundary without the securing bolts pulling out. The International Roughness Index (IRI) as it pertains to the roads in the Western Cape has reference.	……
35.14.	The following publication has reference "Guidelines for Network Level Measurement of Road Roughness" This guideline was compiled under auspices of the COTO Road Network Management Systems (RNMS) Committee. (Mr Mervyn Henderson of the Western Cape Provincial Administration (WCPA) and Mr Louw Kannemeyer of the South African National Roads Agency (SANRAL)	……
35.15.	The Tenderer shall submit drawings indicating bucket dimensions and type of materials used as well as the frame attachment details.	……
36.	**T2.4 BUCKET LIGHTING**	
36.1.	The bucket is to be fitted with standard 12V electrical connections in order to power two proprietary LED flood lamps rated at least 20 W with a light output of at least 1600 lumens enclosed in a class IP 65 housing.	……
36.2.	All fasteners used for the fitment of such LED flood lamp are to be stainless steel.	……
36.3.	Tenderers are to supply a 12V 110AH gel type deep cycle battery, as well as an appropriate method of linking to the vehicle electrical charging circuits. The alternator supplied shall also be capable of charging this battery bank.	……
36.4.	The proposal must be accompanied by circuit diagrams showing all relevant detail i.e. lockable battery box, wiring routing from the under load body steel battery box to bucket taking into account the telescopic upper boom, battery charging, and electrical protection devices.	……
36.5.	The proposed bucket lighting system must not place any demand on the vehicle battery system and must be able to operate for at least 8 hours continuously at 100% light availability.	……

SPECIFICATION T 2.4 TRUCK 4 x 4 WITH 18 M AP		DETAILS OF OFFER
36.6.	Three bright amber flashing (Gen 3 LED or better) light clusters fixed to the sides and rear of the bucket support frame are required. Each light cluster must incorporate at least 3 Gen 3 LED's. The robust light housing bracket must be constructed of stainless steel, be vibration resistant and waterproof. The lens cover must be clear UV resistant polycarbonate. A warranty period of at least 10 years is required.	……
37.	**T2.4 BUCKET AUTOMATIC LEVELLING**	
37.1.	An automatic hydraulic levelling system which shall hold the bucket floor horizontal at all times, is required. A bucket relying on gravity alone for levelling will not be considered.	……
37.2.	The levelling system shall have an adjustable override to accommodate any adjustments required by the operator.	……
38.	**T2.4 AERIAL PLATFORM PRE DELIVERY TESTS**	
38.1.	The aerial work platform shall be thoroughly inspected and performance tested as per OEM recommendations contained in the standards to which it was built prior to delivery to the City of Cape Town.	……
38.2.	The inspection and performance test is to be conducted by a registered LMI (Lifting Machinery Inspector) who shall be fully conversant with the requirements of SANS 50280, 16368, 18893, BS EN 61057 and ANSI A92.2 as per the requirements of LMI registration.	……
38.3.	The aerial work platform shall, in addition, be subjected to its first statutory test to 110% of the working load applied over the whole operating range as required by the Occupational Health and Safety Act No. 85 of 1993 and relevant General/ Driven Machinery Regulations DMR 18 5(a) ensuring that every part of the installation is stressed accordingly.	……
38.4.	The above is to verify that the aerial work platform is stable, structurally sound, the operating functions work correctly and safely and that the mandatory markings are properly affixed.	……
38.5.	Certified copies of the appropriate LMI certification for the above tests shall be submitted on written request by the City of Cape Town.	……
38.6.	The cost of the load test and certification documents and all materials used shall be included in the tender price.	……
39.	**T2.4 WIND LOADING**	
39.1.	The aerial platform is to be able to perform safely throughout its full operating range whilst experiencing wind speeds of up to 12 m/s i.e. typical South Easter wind loading conditions in the Cape Town CBD.	……

SPECIFICATION T 2.4 TRUCK 4 x 4 WITH 18 M AP		DETAILS OF OFFER
40.	**T2.4 AERIAL PLATFORM PERFORMANCE**	
40.1.	The hydraulic platform in normal use will be subject to 40 duty cycles per day. The design and manufacture of the unit shall be such that the life expectancy of the load bearing members shall not be less than 8 years or 80 000 duty cycles.	……
40.2.	Elevating speed shall be adjustable between 0.1 – 0.4 m/s measured at maximum extension.	……
40.3.	Slewing speed at maximum reach shall be adjustable between 0.1 - 0.4 m/s measured at maximum extension.	……
40.4.	Graphical detail, depicting the full working performance range horizontally and vertically must be supplied.	……
40.5.	The time taken to deploy all outriggers and level the aerial platform should not be greater than 1 min. (On level ground)	……
40.6.	The time taken for the boom to rotate 180 degrees at maximum extension should not be greater than 1 minute.	……
40.7.	The time taken to achieve maximum height at maximum extension of the boom should not be greater than 90 seconds.	……
41.	**T2.4 DRIVABILITY AND STABILTY SIMULATION**	
41.1.	It is required that any vehicle and aerial platform combination offered in this tender is driveable and stable i.e. fit for purpose under normal operating and road conditions as is found in the geographical boundary of the City of Cape Town.	……
41.2.	See clause 36 of the Special Conditions of Contract in this regard	……
42.	**T2.4 MARKING AND DECALS**	
42.1.	The following information shall be displayed in clearly visible permanent lettering on the aerial work platform:	……
a.	Make, model, serial number, manufacturer's details	……
b.	Safe working load	……
c.	Maximum platform working height	……
d.	The working voltage to which it is insulated	……
e.	Warnings or restrictions necessary for safe operation	……
f.	All valves clearly marked and labelled	……
g.	The instruction "Read work platform manual" for servicing /operating instructions	……

SPECIFICATION T 2.4 TRUCK 4 x4 WITH 18 M AP		DETAILS OF OFFER
42.2.	It is required that yellow reflective tape (3M C E1 104 R-00821) or equivalent is to be fitted to the aerial platform i.e. full length of both booms as well as the perimeter of the platform load body as required by South African Road Traffic ordinances. All necessary statutory decals are to be fitted to the aerial platform.	……
42.3.	Outriggers should be fitted with 3M C E1 104 R-00821 reflective tape (or equivalent) not less than 50 mm wide. Covering the full length of the retracted outrigger. (white facing front, red facing rear)	……
42.4.	The rear facing section of the operators bucket has to be suitable for the application of decals as per clause 57 of this technical specification.	……
42.5.	In the event that decals cannot be applied to rear face of the operators bucket, an aluminium / polycarbonate plate needs to be fitted to the bucket upon which the reflective tape decals as indicated in clause 57 will be applied. The fitment of the plate must be acceptable to the aerial platform OEM.	……
42.6.	The fitment of such a plate shall in no way compromise the 1000 V insulation requirement of the bucket	……
	The size of the plate shall be approximately:	
a.	3mm (t) x 400mm (h) x 800 mm (w).	……
a.1.		
42.7.	The tenderer to ensure that all necessary decals are fitted at their correct positions. See 57.	……
a.	Bucket chevrons	……
b.	Working envelope	……
c.	Maximum load	……
d.	Operational lever decals – upper and lower boxes	……
e.	Safety decals with instructions (Safety equipment)	……
43.	**T2.4 AERIAL PLATFORM MATERIALS AND SPARES**	
43.1.	**AERIAL PLATFORM MATERIALS**	
a.	For maintenance purposes the tenderer must specify all materials used in the construction of the aerial platform in the supplied spares manual i.e. specifically booms, pins, bushes and hoses.	
	All these items are to be highlighted.	……
a.1.	Booms	Page ……
a.2.	Pins	Page ……
a.3.	Bushings	Page ……
a.4.	Hoses	Page ……
43.2.	**AERIAL PLATFORM SPARES**	
a.	Standardisation and mutual interchangeability of components is essential.	……
b.	The tenderer shall indicate the spares availability and stock holding within South Africa	……

SPECIFICATION T 2.4 TRUCK 4 x4 WITH 18 M AP		DETAILS OF OFFER
b.1.	Value of spares holding in South Africa:	R……
b.2.	Spares availability (Major spares - booms, electronic control units etc.)	……%
b.3.	Spares availability (Minor spares / servicing spares)	……%
43.3.	Fast moving service spares need to be available within the geographical area of City of Cape Town	……
a.	Location of spares outlets:	……
b.	State lead times that can be expected:	……
43.4.	Lead time of spares delivery ex overseas OEM warehouse.	……days
43.5.	Lead time of spares delivery ex warehouse outside City of Cape Town geographical boundaries within South Africa	……days
44.	**T2.4 AERIAL PLATFORM SERVICE**	
44.1.	Please refer to Special Conditions of Contract section 37 for contractual accredited maintenance, servicing, spares and parts outlets.	……
a.	List the accredited local service agencies (if available) at time of tender for servicing the aerial platform.	……
b.	State the aerial platform service delivery turn-a-round times that can be expected.	……
45.	**T2.4 DOCUMENTATION ON DELIVERY**	
45.1.	Three copies of the comprehensive operating, maintenance manuals, spare parts manuals and training manuals in professional PDF format in the English language as well as in a properly bound book must be provided by the manufacturer.	……
	The following is to be included in the manuals:	
a.	Operation instructions	……
b.	Service schedule	……
c.	Lubrication schedule	……
d.	Routine checks	……
e.	Restrictions on use of the machine	……
f.	Advice that could affect the safe use of the machine	……
g.	Manufacturers spare parts list	……
h.	Statutory inspection registers	……
45.2.	Load test certificates signed by an LMI.	……
45.3.	An oil analysis certificate from an approved inspection authority.	……
45.4.	A sample of hydraulic oil shall be taken from the oil reservoir for spectrographic analysis and a report shall be supplied. The cost of which will be included in the tender price.	……

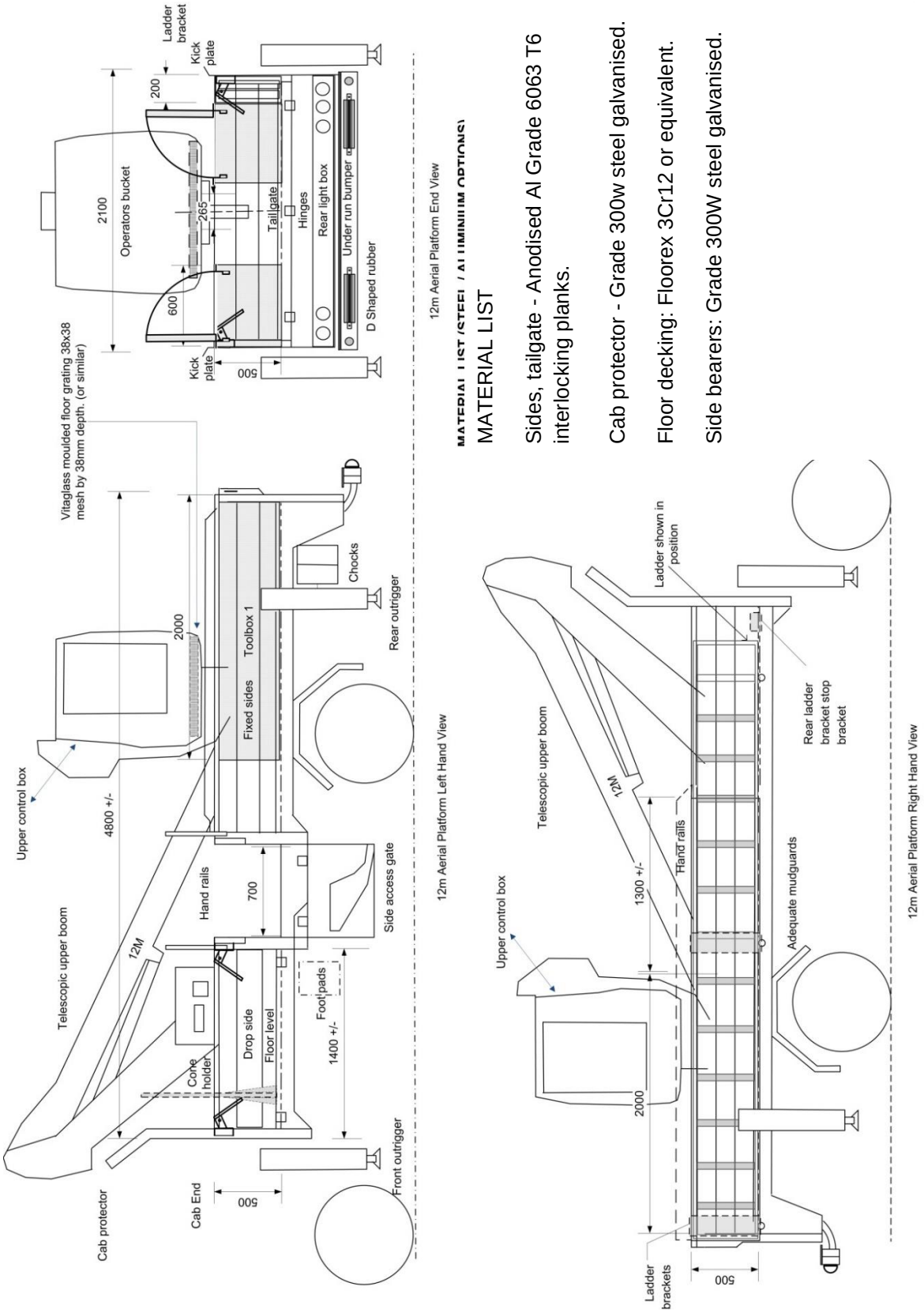
SPECIFICATION T 2.4 TRUCK 4 x4 WITH 18 M AP		DETAILS OF OFFER
45.5.	A structural engineers certification letter for the aerial platform from the design engineer or his representative must be received on delivery.	……
46.	**T2.4 TRAINING**	
46.1.	Training in the proper operation of the aerial platform and truck must be provided and included in the tendered price.	……
46.2.	The training should be adequate to transfer the required skills in the safe operation of the aerial platform and vehicle to the City of Cape Town's operating staff.	……
46.3.	A minimum of two employees per vehicle ordered needs to be catered for. A training manual is to be provided.	……
47.	**T2.4 PAINT SPECIFICATION AERIAL PLATFORM**	
47.1.	The aerial platform paint process is to be according to the following or equivalent:	
a.	Surface preparation ISO 8501-1:2007	……
b.	Primer coat – Carbomastic 15 or equivalent	……
c.	Final coat – Carboline 134 or equivalent White	……
47.2.	The aerial platform paint dry film thickness is not to be less than 100 µm	……
47.3.	It is important that the inner surfaces of the booms are to be given marine quality protection against corrosion. Proof of such protection must be supplied at delivery.	……
48.	**T2.4 WARRANTY AERIAL PLATFORM**	
48.1.	The warranty period for the structural and hydraulic components shall not be less than 1 year and shall commence from the official date in service of the vehicle and the mounted equipment.	……
48.2.	The paint coating specified is to offer marine quality protection against corrosion for at least 5 years.	……
48.3.	Where it is found that the structural integrity of booms is impacted severely due to internal corrosion, the replacement of such booms will be for the tenderers account.	……
48.4.	Tenderers shall submit full details of their guarantee commitments contained in the warranty documents indicating in all respects the extent thereof.	……
48.5.	The main tenderer is to fully underwrite any warranties given by their subcontractors.	……
48.6.	Tenderers shall also undertake to guarantee that satisfactory after sales and maintenance support is provided in the geographical area of the City of Cape Town. See Special Conditions of Contract section 37	……

SPECIFICATION T 2.4 TRUCK 4 x 4 WITH 18 M AP		DETAILS OF OFFER
49.	**T2.4 DELIVERY**	.....
49.1.	Tenderers must specify dispatch period after placing of order clearly in terms of lead-time, rate of dispatch and completion of contract.	.....
a.	Lead time for initial delivery of complete unit	.....
b.	Chassis cab	.....
c.	Load Body	.....
d.	Aerial Platform	.....
49.2.	The fully licensed vehicle (homologation must be included in the tendered price) complete with a current CRW certificate is to be delivered to the City of Cape Town's Mechanical Workshops at Ndabeni 13 Melck St. or as stipulated on the City of Cape Town's purchase order.	.....
49.3.	A chassis cab service plan covering the period of five (5) years or 100,000 km and a service plan covering the aerial platform for a period of five (5) years must be included in the total price of the vehicle. Full details of such service plan should be supplied with tender.	.....
49.4.	The price of a pre-delivery service for each vehicle must be included in the tendered price where such service is recommended by the manufacturer.	.....
49.5.	The homologation certification cost must be included in tender price and submitted at time of delivery	.....
49.6.	The vehicle registration and licensing cost must be included in the tender price.	.....
50.	**T2.4 STANDARD FITMENT ITEMS**	
50.1.	The following items shall be included in the total tendered price as standard fitment items.	.....
50.2.	A 2,5 kg dry powder fire extinguisher fitted in a suitable position in the cab.	.....
50.3.	A robust lockable, robust plastic / polyethylene document container to hold logbooks, instruction documents, manuals. The container must be sized to comfortably accommodate A4 documents. The container will be fitted in a convenient place in the cab.	 .....
50.4.	Set of 4 HDPE polyethylene foot pads	.....
50.5.	Foot pad holder box	.....
50.6.	Set of 4 HDPE polyethylene chocks	.....
50.7.	Chock holder box	.....
50.8.	Emergency 24V DC hydraulic pump and hand pump.	.....

SPECIFICATION T 2.4 TRUCK 4 x 4 WITH 18 M AP		DETAILS OF OFFER
50.9.	A hydraulically powered bucket rotation system.	……
50.10.	One cone holder (See 56)	……
50.11.	One 9kg gas cylinder holder. (See 56)	……
50.12.	Set aluminium ladder brackets. (See 56)	……
51.	**T2.4 Extras**	
51.1.	Rapid Outrigger Deployment control system (ROD)	……
51.2.	Supply and fit of a Battery powered hand wash unit (Teal or equivalent)	……

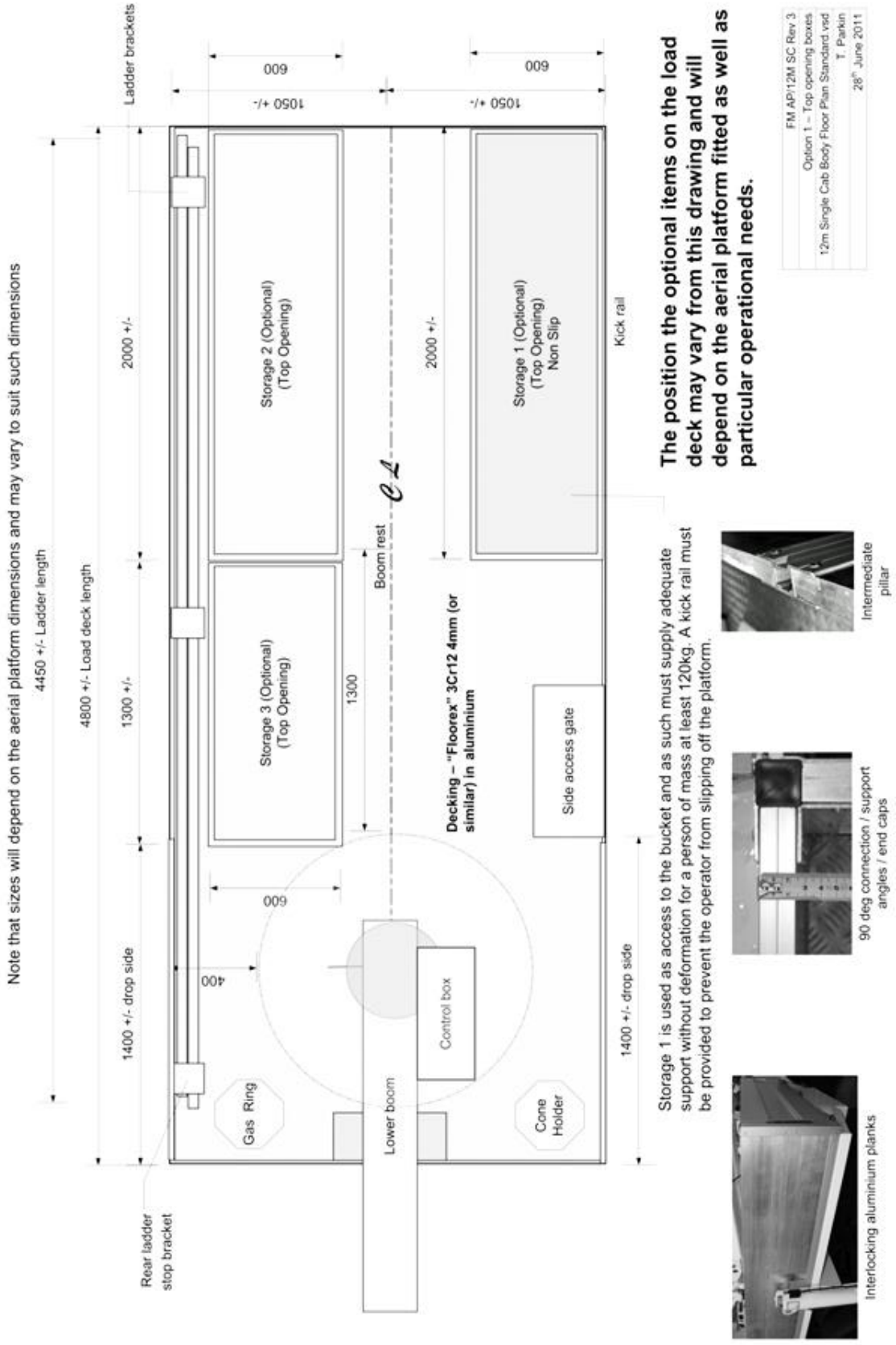
52.	**T2.4 Single Cab 15 m ap - Layout Drawing**

This drawing is to not to be used to extract dimensions for construction purposes.
It is a depiction of the overall appearance of the aerial platform and the load body.
The tenderer is to refer to the technical specification clauses for relevant details of the construction requirements..



53.	T2.4 Single Cab 15 m ap - standard Toolboxes

FLOOR PLAN WITH OPTIONAL STANDARD TOOLBOXES.

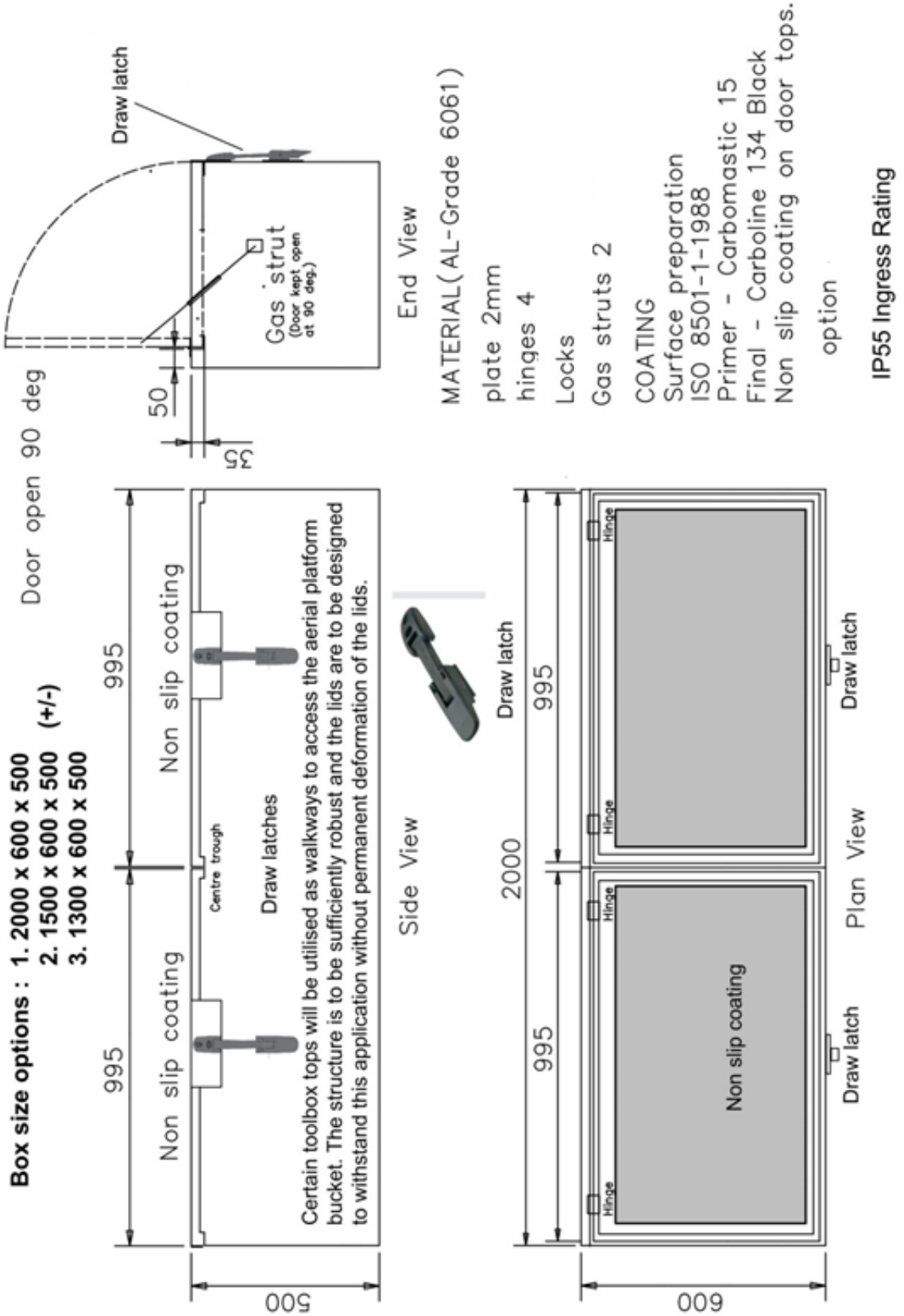


54.	T2.4 Single Cab 15 m ap - Side Access

SIDE ACCESS GATE (TYPICAL LAYOUT)

55.	T2.4 Single Cab 15 m ap - toolboxes

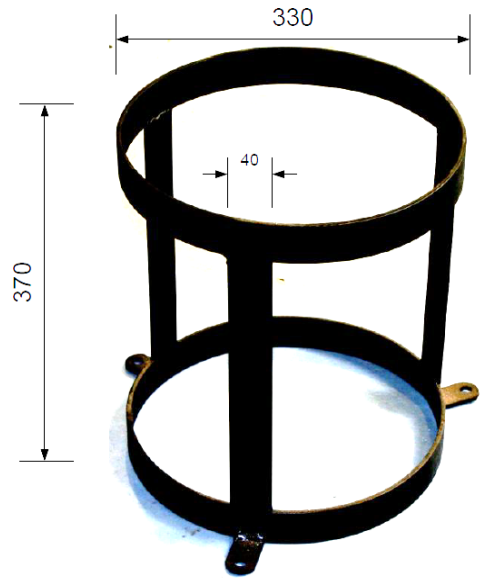
STANDARD TOOLBOX (TYPICAL ARRANGEMENT)



56.	T2.4 Single Cab 15 m ap - floor fitments

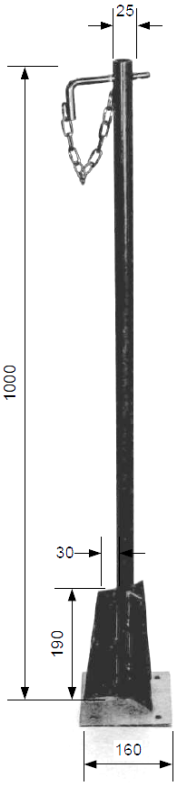
(Placement to be finalised during construction phase.)

GAS CYLINDER HOLDER – CONE HOLDER - LADDER BRACKETS



Material : Mild steel strip
40x4mm
Lugs: 50x30x4mm – 12mm hole
Rounded as shown
Weld full depth
Corrosion Protection: Hot dipped galvanised
Include Grade 4.8 bolts, washers and locknuts for fitment to load body floor.

9KG GAS CYLINDER HOLDER



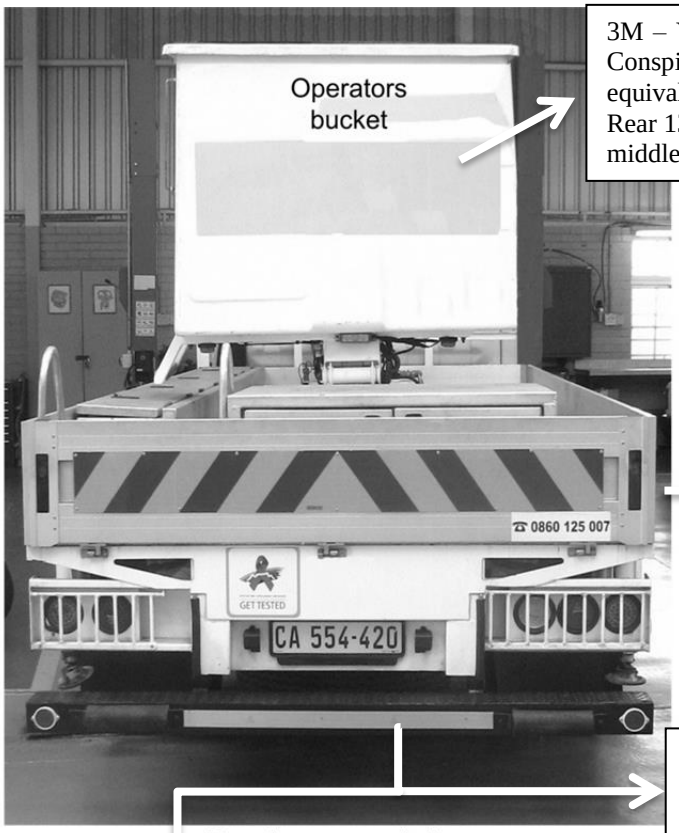
Material: Mild steel
Base: 160mm Sq x 4mm – 12mm holes
Gussets: 190x50x30x3mm
Pipe: 1000x25x2mm dia – drill 8mm hole
Lock pin: 6mm bar bent as shown.
Chain: Light chain welded to pipe and lock pin.
Corrosion Protection: Hot dipped galvanised
Include Grade 4.8 bolts, washers and locknuts for fitment to load body floor.

Cone Holder

Typical ladder brackets with rollers to ease the ladder into position. It is preferred that the rollers be sunk into the deck to bring the ladder down as low as possible.

57. T2.4 Single Cab 15 m ap - decals and rear bumper arrangement

AERIAL PLATFORM DECALS AND REAR BUMPER ARRANGEMENT



3M – Yellow Diamond Engineering Grade Conspicuity Tape (Code: VDGC4084) or equivalent standard. Position as follows:- Rear 1300 mm W x 360 mm H – positioned middle third.

Note decal / reflective tape / reflectors position.

Chevron must comply with SANS 1329:4 and carry the SANS mark

3M – Orange diamond grade conspicuity marking code: 983-71 ECE mark or equivalent standard. SANS 2014

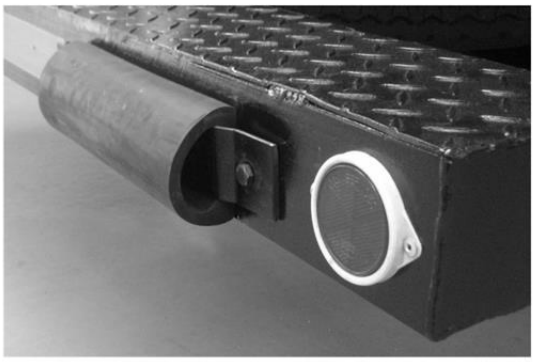
Rear bumper end view

Rear bumper side view

Rear bumper / under run bumper manufactured from two 100 x 50 channel welded together. Ends blanked off. Checker plate stitch welded on top as shown.

Two D shaped rubber mounted onto the rear face of the bumper arrangement with 12mm dia bolts.

All edges to be dressed. Corrosion protection as stipulated in the technical specification.



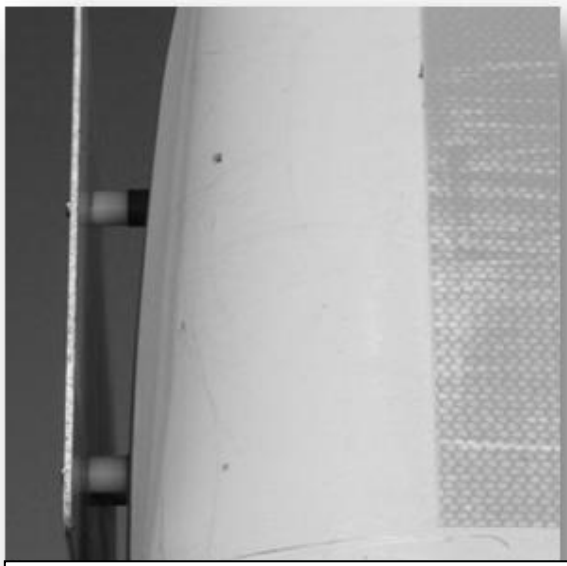
D rubber detail

58.	T2.4 Single Cab 15 m ap - Operators Bucket

HDPE POLYETHYLENE OPERATORS BUCKET AND FITMENT OF PLATE

Fitment of aluminium / polycarbonate plate on the operators bucket if decals cannot be affixed to the bucket.

Plate size: 800 x 400 x 3 mm



Fitment of aluminium / polycarbonate plate on the operators bucket.

End view. Note spacers to be used.

(13) ADDENDUM A

(13) General technical requirements

1.1 The Tenderer shall be an accredited agent for the chassis cab supplied and shall make use of an accredited body builder in terms of Section 38 of the Road Traffic Act (Latest) and shall include a valid up to date copy of such accreditation. Tenderer may be deemed non-responsive failing to submit proof of accreditation.

1.2 The complete installation as detailed in the Scope of Specification as well as all technical specifications mentioned above shall comply with all the requirements of this specification as well as conforming to all Road Traffic Act (Latest) ordinances and associated SANS compulsory specifications.

1.3 The equipment, materials and apparatus used in the assembly shall be new and of best commercial quality with a high reliability and shall be selected for ease of maintenance.

1.4 It is in the interests of the contractor to notify the CITY OF CAPE TOWN'S Fleet Management Department when the construction / assembly reach various stages of completion so that the designated Technical Representative may inspect the vehicle and point out deficiencies. Any costs incurred in correcting deficiencies shall be for the Contractors account.

1.5 The contractor shall apply best engineering practices and shall apply the relevant SANS codes of practice in ensuring the highest quality standard of workmanship.

1.6 All material and equipment shall comply in respect of quality, manufacture, tests and performance of at least one of the following standards.

ISO (International Standards Organisation)
IEC (International Electro technical Commission
EN (European Standards)
BS (British Standards)
DIN (Deutsche Industrie Normen)

1.7 All material and equipment supplied shall be suitable for operating conditions as found within the boundaries of the CITY OF CAPE TOWN.

1.8 Individual components such as valves, batteries, terminal blocks, and electrical control equipment etc. when used in the supplied vehicles shall be of the same make, type or series for each item. Standardisation and mutual interchangeability of components is essential.

2. STANDARD OF WORKMANSHIP

2.1 All work required for completion of this tender shall be according to the latest professional South African engineering standards.

2.2 Material or workmanship which is not to the satisfaction of the CITY OF CAPE TOWN'S, Electricity Services, and Fleet Management Technical Representative shall be rectified at the cost of the Contractor.

2.3 All subframe and loadbody components shall be built to manufacturer's specification. Copies of the relevant manufacturer's specification and drawings are to be furnished on written request.

2.4 The aerial platform shall be mounted onto an approved sub frame which will be fixed to the vehicle chassis. The design, manufacturing standards and consequent fitment must be approved by the vehicle and crane manufacturer.

2.5 The aerial platform sub frame is to be mounted to the vehicle chassis sub frame by means of suitable positioned and spaced mounting brackets using high tensile bolts and washers and ensuring that adequate support is provided for the base of the aerial work platform as well as the outriggers. The aerial platform supplier, sub frame and load body builder are to ensure that fitment of all components are done to the correct standard to ensure that all forces generated in the normal use of the aerial platform can be accommodated. Supportive documents must be submitted on written request.

2.6 QUALITY CONTROL INSPECTIONS

The City of Cape Town, Electricity Services Fleet Management Department may at its discretion, conduct quality control inspections during the production and assembly process. The inspection intervals will be negotiated on award of the tender. If the abovementioned processes take place outside the boundaries of the Western Cape, the cost of an inspection undertaken by two designated Technical Inspectors must be incorporated in the tender price.

3. STRUCTURAL STEELWORK

All structural members shall be capable of sustaining in a structurally stable manner, the total load and forces acting on such structural members.

Each part of the structural installation shall be correctly designed, constructed and erected and shall be according to appropriate SANS specifications covering structural steelwork.

3.1 HOLES

Holes, slots shall be machined to a template. Burrs and risers shall be removed before assembly.

3.2 BOLTS / FASTENERS

SANS 1700-7-7:2003 / ISO 7411:1984
Hexagon bolts for high-strength structural bolting

SANS 1700-7-8:2003 / ISO 7412:1984
Hexagon bolts for high-strength structural bolting (Short threads)

SANS 1700-14-8:2003 / ISO 4775:1984
Hexagon nuts for high-strength structural bolting

SANS 1700-16-9:2004 / ISO 7416:1984
Plain washers for high-strength structural bolting

3.3 WELDING

All welding must be done under supervision of a qualified artisan / foreman and shall confirm to the following standards.

SANS 455:2004 :	Manual electrode welding of mild steel.
SANS 10044-2:2004 :	Code of practice for welding.
SANS 10167:2004 :	Quality evaluation of fusion welding joints.

Welding jigs / templates should be utilized to ensure uniformity of construction.

The surfaces to be welded shall be cleaned and free from rust, scale or other foreign materials. Full attention is to be given to correct edge preparation suitable for welding applications used.

Welds shall be full strength without flaws, grooves or pits. Crater effects shall be avoided.

All welds shall have adequate root fusion and shall be free from cracks, porosity or other irregularities and any under cutting shall be made good by the contractor.

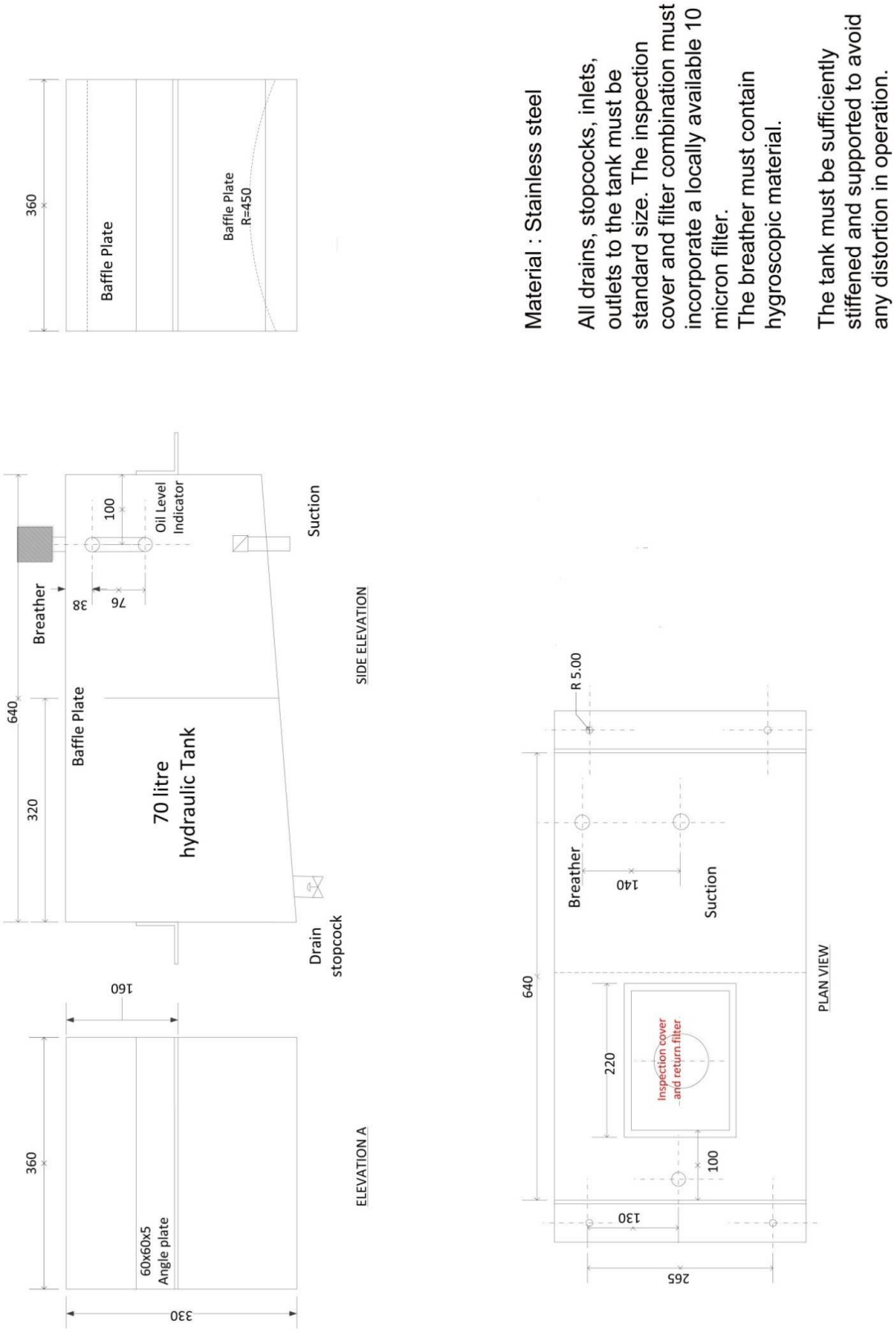
Weld fillet sizes must be appropriate to the size of the structural steel welded and be done without requiring excessive amounts of grinding or dressing.

Intermittent welding joints and butt welding joints with insufficient penetration shall not be used.

All welding joints shall be thoroughly cleaned after welding.

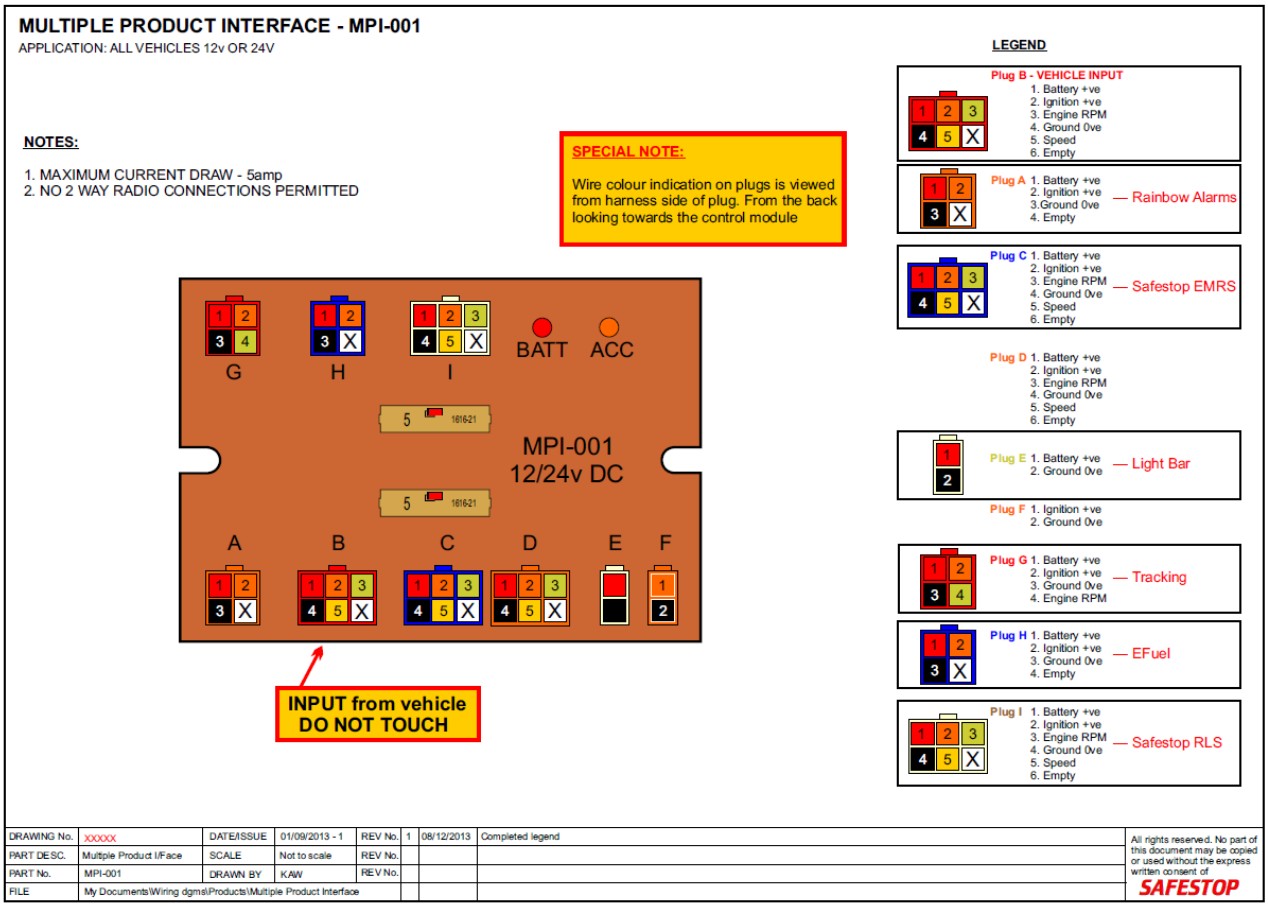
3.4 RESERVOIR (Typical Construction)

Dimensions are approximate - the Tenderer to check existing Aerial Platform tank design supplied on the previous tender and supply accordingly.

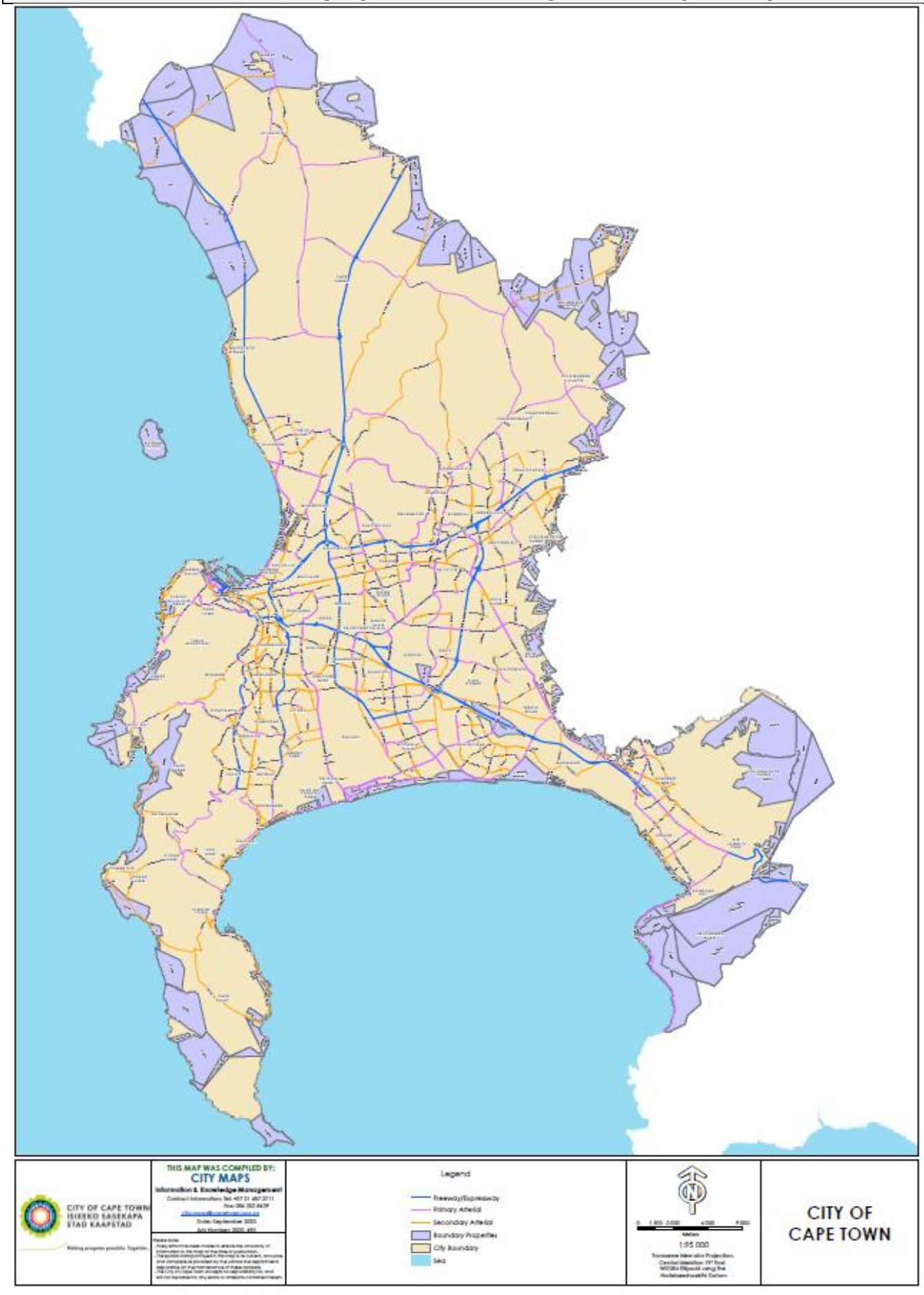


3.5 Multiple Interface Board (Accessory interface)

Typical example of the accessory board and fitment plug-ins (RAMM, Safestop or equivalent model)



Addendum 1: Geographical Boundary of the City of Cape Town



14 **TRADE NAMES OR PROPRIETARY PRODUCTS**

Bid specifications may not make any reference to any particular trade mark, name, patent, design, type, specific origin or producer, unless there is no other sufficiently precise or intelligible way of describing the characteristics of the work, in which case such reference must be accompanied by the words "or equivalent".

TENDERERS MUST NOTE THAT WHEREVER THIS DOCUMENT REFERS TO ANY PARTICULAR TRADE MARK, NAME, PATENT, DESIGN, TYPE, SPECIFIC ORIGIN OR PRODUCER, SUCH REFERENCE SHALL BE DEEMED TO BE ACCOMPANIED BY THE WORDS 'OR EQUIVALENT"

15. EMPLOYMENT OF SECURITY PERSONNEL

All security staff employed by the supplier on behalf of the CCT or at any CCT property must be registered with Private Security Industry Regulatory Authority (PSiRA). Proof of such registration must be made available to the CCT's agent upon request.

16. FORMS FOR CONTRACT ADMINISTRATION

The supplier shall complete, sign and submit with each invoice, the following:

a) Monthly Project Labour Report **(Annex 3)**.
b) B-BBEE Sub-Contract Expenditure Report **(Annex 4)**.
c) Joint Venture Expenditure Report **(Annex 5)**.

The Monthly Project Labour Report must include details of all labour (including that of sub-contractors) that are South African citizens earning less than R350.00 per day, as adjusted from time to time (excluding any benefits), who are employed on a temporary or contract basis on this contract in the month in question.

In addition to the Monthly Project Labour Report the Supplier shall simultaneously furnish the CCT's Agent with copies of the employment contracts entered into with such labour, together with certified copies of identification documents, proof of attendance in the form of attendance register or timesheets as well as evidence of payments to such labour in the form of copies of payslips or payroll runs. If the worker is paid in cash or by cheque, this information must be recorded on the envelope and the worker must acknowledge receipt of payment by signing for it and proof of such acknowledgement shall be furnished to the CCT's Agent.

The Monthly Project Labour Reports shall be completed and submitted in accordance with the instructions therein.

The **B-BBEE Sub-Contract Expenditure Report** is required for monitoring the supplier's compliance with the sub-contracting conditions of the **Preference Schedule**.

The Joint Venture Expenditure Report is required for monitoring the joint venture's/consortium/partnership compliance with the percentage contributions of the partners as tendered, where the joint venture/consortium/partnership has been awarded preference points in respect of its consolidated B-BBEE scorecard.

(14) MONTHLY PROJECT LABOUR REPORT (EXAMPLE)

ANNEX 1

CITY OF CAPE TOWN
MONTHLY PROJECT LABOUR REPORT

CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

Instructions for completing and submitting forms

General

1 The Monthly Project Labour Reports must be completed in full, using typed, proper case characters; alternatively, should a computer not be available, handwritten in black ink.

2 Incomplete / incorrect / illegible forms will not be accepted.

3 Any conditions relating to targeted labour stipulated in the Contract (in the case of contracted out services or works) shall apply to the completion and submission of these forms.

4 This document is available in Microsoft Excel format upon request from the City's EPWP office, tel 021 400 9406, email EPWPLR@capetown.gov.za.

Project Details

5 If a field is not applicable insert the letters: NA

6 Only the Project Number supplied by the Corporate EPWP Office must be inserted. The Project Number can be obtained from the Coordinator or Project Manager or from the e-mail address in point 4 above.

7 On completion of the contract or works project the anticipated end date must be updated to reflect the actual end date.

Beneficiary Details and Work Information

8 Care must be taken to ensure that beneficiary details correspond accurately with the beneficiary's ID document.

9 A new beneficiary is one in respect of which a new employment contract is signed in the current month. A certied ID copy must accompany this labour report on submission.

10 Was the beneficiary sourced from the City's job seeker database?

11 The contract end date as stated in the beneficiary's employment contract.

12 Where a beneficiary has not worked in a particular month, the beneficiary's name shall not be reflected on this form at all for the month in question.

13 Training will be recorded separately from normal working days and together shall not exceed the maximum of 23 days per month

14 Workers earning more than the maximum daily rate (currently R450 excluding any benefits) shall not be reflected on this form at all.

Submission of Forms

15 Signed hardcopy forms must be scanned and submitted to the City's project manager in electronic (.pdf) format, together with the completed form in Microsoft Excel format.

16 Scanned copies of all applicable supporting documentation must be submitted along with each monthly project labour report. Copies of employment contracts and ID documents are only required in respect of new beneficiaries.

17 If a computer is not available hardcopy forms and supporting documentation will be accepted.

PROJECT DETAILS

Numbers in cells below e.g (6) refer to the relevant instruction above for completing and submitting forms

CONTRACT OR WORKS PROJECT NAME: (6)		EPWP SUPPLIED PROJECT NUMBER: (6)	
DIRECTORATE:		DEPARTMENT:	
CONTRACTOR OR VENDOR NAME:		CONTRACTOR OR VENDOR E-MAIL ADDRESS:	
CONTRACTOR OR VENDOR CONTACT PERSON:		CONTRACTOR OR VENDOR TEL. NUMBER:	CELL / WORK

PROJECT LABOUR REPORT CURRENT MONTH (mark with "X")

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR

ACTUAL START DATE (yyyy/mm/dd)	ANTICIPATED / ACTUAL END DATE (yyyy/mm/dd) (7)

TOTAL PROJECT EXPENDITURE / VALUE OF WORK DONE TO-DATE (INCLUDING ALL COSTS, BUT EXCLUDING VAT)

R

ANNEX 1 (continued)

MONTHLY PROJECT LABOUR REPORT

CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

BENEFICIARY DETAILS AND WORK INFORMATION

CONTRACT OR WORKS PROJECT NUMBER:		Year	Month	Sheet		
				1	of	

	(8)	(8)	(8)	(9)			(10)		(11)	(12)	(13)	(14)
No.	First name	Surname	ID number	New Beneficiary (Y/N)	Gender (M/F)	Disabled (Y/N)	Job seeker database (Y/N)	Contract start date (DDMMYY)	Contract end date (DDMMYY)	No. days worked this month (excl. training)	Training days	Rate of pay per day (R – c)
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
										0	0	R -

Declared by Contractor or Vendor to be true and correct:	Name		Signature	
	Date			

Received by Employer's Agent / Representative:	Name		Signature	
	Date			