



CLUSTER

FINANCE

UNIT

CITY FLEET

DEPARTMENT

SUPPORT SERVICES

PROCUREMENT DOCUMENT

GOODS / SERVICES

Documents are to be obtained, free of charge, in electronic format, from the [National Treasury's eTenders website](#) or the [eThekweni Municipality's website](#).

Tender No: 1J- 25960

Title: Supply, Delivery, Customisation and Maintenance of various Refuse Handling vehicles for a period of thirty-six (36) months

CLARIFICATION MEETING AND QUERIES

Clarification Meeting: A Non-Compulsory Clarification Meeting will be held [Ms Teams] on [12 October 2023] at [13:00 pm – 14:00 pm]

Queries can be addressed to: Email queries to be submitted by 26 October 2023 and consolidated question and answers to be uploaded 02 November 2023

General / Contractual: Nondumiso Khumalo; Tel: 031 322 5093; eMail: nondumiso.khumalo@durban.gov.za

Technical: Yuvraj Dwarika; Tel: 031 322 5033; eMail: yuvraj.dwarika@durban.gov.za

DELIVERY OF TENDERS

Sealed Tenders, addressed to the City Manager and marked with the Tender Number, are to be placed in the Tender Box [located in the ground floor foyer of the Municipal Buildings, 166 KE Masinga Road \(Old Fort Rd\), Durban](#) (and not any other municipal department), no later than:

Closing Date: Friday, 10 November 2023

Time: 11:00am

FACSIMILE, eMAIL or POSTED TENDERS WILL NOT BE ACCEPTED

Issued by:

ETHEKWINI MUNICIPALITY

Deputy Head: SUPPORT SERVICES

Issued: October 2023

Document Version: 24/02/2023

NAME OF TENDERER:

Tender Price: R

VAT Registered: YES / NO
(circle applicable)

PROCUREMENT DOCUMENT (Goods / Services)

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SECTION 1: GENERAL INFORMATION

YOU ARE HEREBY INVITED TO TENDER FOR REQUIREMENTS OF THE ETHEKWINI MUNICIPALITY

TENDER No.: 1J- 25960

DESCRIPTION: **Supply, Delivery, Customisation and Maintenance of various Refuse Handling vehicles for a period of thirty-six (36) months**

CLOSING DATE / TIME: **Friday, 10 November 2023 at 11:00am**

All tenders must be submitted on official tender documentation issued (in electronic format) by the eThekwini Municipality from:

- the National Treasury's eTenders website (<https://www.etenders.gov.za/>), or
- the eThekwini Municipality's website (<https://www.durban.gov.za/pages/business/procurement>).

Electronically downloaded documentation should be printed by the tenderer.

Tenderers are required to be registered on the **National Treasury Central Supplier Database** (CSD) as a service provider. In the case of a Joint Venture, this requirement will apply individually to each party in the Joint Venture.

Registration on the **eThekwini Municipality's Database** can be done via website: <https://ethekwinivendor.durban.gov.za/>

Tenderers should ensure that tenders are delivered timeously to the correct address as stated in the Conditions of Tender. If a tender is late, it will not be accepted for consideration.

The Municipality will consider a tender submitted in response to this request for tender to be an offer from your company to perform the supply on the basis of that tender. Accordingly, please review the attached General and Special Terms and Conditions which will form the basis for any supply arrangement entered into between the Municipality and your company.

The Municipality is seeking tenders from potential suppliers only and makes no representation or promise in relation to procuring work from a supplier or suppliers. The Municipality will not be responsible for any costs associated with preparing and submitting a tender.

The Municipality does not bind itself to accept the lowest or any tender. It reserves the right to accept the whole or any part of a tender to place orders. Bidders shall not bind the Municipality to any minimum quantity per order. The successful Tenderer (s) shall be bound to provide any quantities stipulated in the specification.

The successful tenderer will be required to fill in and sign a written Contract Form (MBD 7).

NB: NO TENDER WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE
(as defined in Regulation 44 of the Local Government: Municipal Supply Chain Management Regulations).

**THE FOLLOWING PARTICULARS MUST BE FURNISHED
(Failure to do so may result in your tender being disqualified)**

Name of Tenderer:

Postal Address:

Street Address:

E-Mail Address:

Telephone Number:

-

-

Cell phone Number:

Facsimile Number:

Circle Applicable

Is your entity registered on the **eThekweni Municipality's supplier database?**

YES / NO

- **If YES insert** your PR Number:

PR

Is your entity registered on the **National Treasury Central Supplier Database (CSD)?**

YES / NO

- **If YES, insert** your MAAA Number:

MAAA

Insert a SARS Tax Compliance Status PIN

.....

Is your entity VAT registered?

YES / NO

- **If YES insert** Vat Registration Number:

.....

Has a **Declaration of Municipal Fees** been submitted?

YES / NO

Has a **Declaration of Interest** (MBD 4) been submitted?

YES / NO

Has a **Declaration for Procurement Above R10 Million** (MBD 5) been submitted?

YES / NO

Has a **Preference Points Claim** (MBD 6.1) been submitted?

YES / NO

Has a **Declaration of Bidder's Past SCM Practices** (MBD 8) been submitted?

YES / NO

Has a **Certificate of Independent Bid Determination** (MBD 9) been submitted?

YES / NO

Are you the accredited representative in South Africa for the goods / services / works offered? **If YES, enclose proof** at the back of the tender submission.

YES / NO

Signature of Tenderer:

Date:

Name / Surname: (in block capitals)

Capacity under which this tender is signed:

SECTION 2 : CONDITIONS OF TENDER – (Goods / Services : June 2019)

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SPECIAL / ADDITIONAL CONDITIONS OF TENDER

STANDARD CONDITIONS OF TENDER (Goods / Services)

1. DEFINITIONS

General:

- (1) Defined words / phrases are printed in *Italic font*.
- (2) Definitions apply to the singular as well as the plural.
- (3) Any reference to the masculine gender shall be taken to include the feminine and any reference to the feminine gender shall be taken to include the masculine.
- (4) The words “bid” and “tender”, and “bidder” and “tenderer” can be used interchangeably.
- (5) All definitions as defined in the **General Conditions of Contract** are applicable to these **Standard Conditions of Tender**. These definitions include:
 - “Closing time”
 - “Contract”
 - “Contract Price”
 - “Corrupt practice”
 - “Countervailing duties”
 - “Country of origin”
 - “Day”
 - “Delivery”
 - “Delivery ex stock”
 - “Delivery into consignees store or to his site”
 - “Dumping”
 - “Force majeure”
 - “Fraudulent practice”
 - “GCC”
 - “Goods”
 - “Imported content”
 - “Local content”
 - “Manufacture”
 - “Order”
 - “Project site”
 - “Purchaser”
 - “Republic”
 - “SCC”
 - “Services”
 - “Supplier”
 - “Tort”
 - “Turnkey”
 - “Written” or “in writing”
- (6) **Bid or Tender:** The offer submitted in respect of an invitation to submit such an offer.
- (7) **Bidder or Tenderer:** An entity (company, close corporation, partnership, joint venture, sole proprietor) which submits a *bid/tender*.
- (8) **Municipality:** The eThekweni Municipality, as represented by the duly authorised delegate, official or committee.
- (9) **SCT:** Special Conditions of Tender (found in Section 3).
- (10) **Week:** A period of seven (7) consecutive *days*.
- (11) **Material Deviation:** A material deviation or qualification is one which, in the *Municipality’s* opinion, would:
 - (a) Detrimentally affect the scope, quality, or performance of the services or supply identified in the Scope;
 - (b) Significantly change the *Municipality’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.

2. CONDITIONS OF TENDER & CONTRACT

The specification will be governed by the **Standard Conditions of Tender** (Goods and Services), **Special Conditions of Tender (SCT)**, **General Conditions of Contract (GCC)** (Government Procurement General Conditions (July 2010), as amended by National Treasury Circular 52 dated 30 July 2010), the **Special Conditions of Contract (SCC)**, the **Occupational Health and Safety Act** (Act No. 85 of 1993), and the **eThekweni Code of Conduct**.

Complete Acceptance of Conditions

Unless otherwise expressly stipulated in a letter covering the *tender*, every *Tenderer* shall be deemed to have waived, renounced, and abandoned any conditions printed or written upon any stationery used for the purpose of, or in connection with, the submission of their *tender*, which are in conflict with the **General Conditions of Contract** and **Special Conditions of Contract**. *Tenderers* are advised that any *material divergences / qualifications* from the official Conditions or Specification will render their *tenders* liable to disqualification.

3. TENDER INFORMATION

(1) General

- (a) *Tenders* will be liable for rejection unless made out on the official tendering documentation.
- (b) Any alterations effected upon any of the tendering documents must be clearly shown by means of a hand written (black, non-erasable ink), or typed, entry and must be signed in full by the *Tenderer*. **The use of correction fluid is not permitted.**
- (c) *Tenderers* may submit alternative solutions that, in the *Tenderer’s* opinion, are to the *Municipality’s* advantage economically and technically. Full technical details of the alternative *tender(s)* shall be submitted with the tender documents. Alternative *tender(s)* shall be submitted separately.

(2) Obtaining Tender Documentation

All tenders must be submitted on official tender documentation issued, in electronic format, by the eThekweni Municipality. Electronically downloaded documentation (obtainable free of charge) should be printed and suitably bound by tenderer.

(3) Queries Relating to this Tender

Queries can be directed to the person / Department as stated in the **SCT**.

(4) Briefing Session (Clarification Meeting)

Details of the briefing session are stated in the **SCT**.

Failure to attend a **compulsory** briefing session will invalidate the *tender*. *Tenderers* must sign the attendance list in the name of the tendering entity. *Tenders* will only be evaluated from those tendering entities appearing on the attendance list.

(5) Closing Date and Delivery of Tender Submissions

Sealed *tenders* made out on the enclosed Official Tender Form, which shall be signed by or on behalf of the *Tenderer*, and addressed to the City Manager, marked with the appropriate Tender number, must be placed in the **Tender Box** as stated in the **SCT** not later than the **date and time** as stated in the **SCT**, where after they will be opened publicly.

All tender documents **must** be placed directly into the Tender Box and should not be delivered to any other Municipal Department. *Bidders* are advised that *tenders* submitted by post, fax or email **will not** be considered. All couriered documents must be placed directly into the Tender Box and should not be delivered to any other Municipal Department.

Any *tender* received after the closing date and time stated for the receipt thereof **shall not** be accepted for consideration and shall be returned to the *Tenderer*.

(6) Tender Validity and Withdrawal of Tenders

Tenders must hold good until 16:00 of the 5th week following the date on which *tenders* are opened, or during such other period as may be specified in the **SCT**. The *Municipality* may, during the period for which *tenders* are to remain open for acceptance, authorize a *Tenderer* to withdraw their *tender* in whole or in part on condition that the *Tenderer* pays to the *Municipality* on demand, a sum of one thousand Rand (R1,000.00). The *Municipality* may, if it thinks fit, waive payment of such sum in whole or in part.

4. RETURNABLE SCHEDULES, FORMS, CERTIFICATES

Each *Tenderer* shall complete fully and accurately the following documents and submit these documents with the *tender*:

- (1) **Authority of Signatory:** In terms of Clause 4(5)(c) of the Conditions of Tender.
- (2) **Tax Compliance Status PIN / Tax Clearance Certificate:** SARS has introduced a new Tax Compliance Status System. Tenderers can submit a Tax Compliance Status PIN (TCS PIN) instead of an original Tax Clearance Certificate. This TCS PIN can be used by third parties to certify the taxpayer's real-time compliance status.
- (3) **Declaration of Municipal Fees:** Only those *Bidders* whose municipal fees are fully paid, or those that have concluded acknowledgement of debt agreements with the *Municipality*, are eligible to *tender*.
All *Bidders* must sign the Declaration of Municipal Fees returnable form, declaring that their municipal fees are in order or that acknowledgement of debt agreements have been concluded, and include the relevant account numbers in the declaration. Failure to include account numbers or sign will invalidate the *tender*. The completion of the declaration is also applicable to *Bidders* outside of the eThekweni Municipal Area.
- (4) **Declaration with respect to the Occupational Health and Safety Act:** Acceptance of undertaking in terms of the Occupational Health and Safety Act (Act 85 of 1993) and the relevant Regulations.

(5) Municipal Bidding Documents (which includes):

- (a) **MBD 4: Declaration of Interest:** All *Bidders* are to sign the Declaration of Interest wherein they declare any relationship that may exist with an official of the Municipality involved in the evaluation process.
Regulation 44 of the Supply Chain Management Regulations states that a Municipality or Municipal Entity may not make any award to a person:
 - (i) Who is in the service of the state;
 - (ii) If that person is not a natural person, of which any Director, Manager, Principal, Shareholder or Stakeholder is a person in the service of the state; or
 - (iii) Who is an advisor or consultant contracted with the Municipality or municipal entity.
 Should a contract be awarded, and it is subsequently established that Regulation 44 has been breached, the Municipality shall have the right to terminate the contract with immediate effect.
- (b) **MBD 5: Declaration for Procurement Above R10 Million (if applicable):** For all procurement expected to exceed R10 million (all applicable taxes included), tenderers must complete this questionnaire.
- (c) **MBD 6.1: Preference Points Claim Form:** For the awarding of Preference Points, *Bidders* are required to complete the attached MBD 6.1 form and return it with their tender submission. Failure on the part of a tenderer to complete and submit this form will be interpreted to mean that preference points for **Specific Goals** are not claimed.
The Municipality reserves the right to require of a tenderer, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the Municipality.
- (d) **MBD 8: Declaration of Bidders Past Supply Chain Management Practices Form:** This form serves as a declaration to be used by municipalities and municipal entities in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- (e) **MBD 9: Certificate of Independent Bid Determination:** Section 4(1)(b)(iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms if it involves collusive tendering or tender rigging. In order to give effect to this, the Certificate of Bid Determination must be completed and submitted with the tender.

(5) **Official Tender Form** (see Section 9)**(a) Legal Status of Tenderer**

It is essential for the purpose of entering into a legal contract that *Bidders* state on the Official Tender Form, under "Name and Address of Tenderer ", their full legal status:

- (i) the full registered name of the company making a *tender*; or
- (ii) if the *Tenderer* is a person conducting business under a recognised trading name then:
 - State the name of the person(s);
 - State recognised trading name; and
 - State whether an owner, co-owner, proprietor, etc.

(b) Signing of Official Tender Form

Failure of a *Tenderer* to complete, in its entirety, and sign the Official Tender Form will invalidate the *tender*.

(c) Authority of Signatory

Bidders are to complete and sign the Authority of Signatory returnable document, and attach the required additional documents.

(d) Differences or Discrepancies

Should there be any difference or discrepancy between the prices or price contained in the Official Tender Form and those contained in any covering letter from the *Tenderer*, the prices or price contained in the Official Tender Form shall prevail.

(6) **Any additional Schedules, Forms, or Certificates as stated in the SCT.**5. **INFORMATION TO BE SUPPLIED REGARDING SUB-CONTRACTORS**

Bidders are to state in their *tenders*, or covering letters, whether, if the contract were to be awarded to them, the whole of the work would be executed by them in their own workshop / factory. If the answer is in the negative, they are required to state which part(s) would be handed to sub-contractors and the name and address of such sub-contractors.

6. **SAMPLES**

Bidders may be required to state where samples of the full range of products can be inspected or be required to submit samples for inspection prior to the closing date of the *tender*.

7. **MANUFACTURERS**

The names of the manufacturers of the goods or equipment offered must be stated in the *tender*.

Bidders who are not manufacturers, accredited distributors, or agents must provide a valid agreement / Joint Venture Agreement, entered into with the manufacturer, accredited distributors, or agents, with their submission. This agreement must meet all the requirements as laid down in the *tender* document, and must cover the contract period.

8. **CLARIFICATION**

The Head: Supply Chain Management Unit, or an authorized representative, may request clarification or further information on any aspect of the *tender*. The *Tenderer must* supply the requested information within the time specified. Failure to comply will render the *tender* non-responsive.

9. **PRICING**

Bidders would be precluded from this *tender* if their pricing structure deviates from the Official Tender Form.

(1) **Nett Prices**

All prices shall be quoted in South African currency (Rand) after deduction of any brokerage or discount allowed to the Municipality.

(2) **Unit Prices**

Bidders shall quote only one price in respect of each item. Such price is to hold good for the full duration of the contract period, being subject to variation only in accordance with specified criteria, as stated in the **Conditions of Contract**.

(3) **Firm Tenders**

Bidders may submit firm prices for each 12 month period. These prices shall be free from all fluctuations, including any statutory increases.

(4) **Value Added Tax (V.A.T)**

Prices exclusive and inclusive of VAT must be stated separately on the Official Tender Form.

10. **ESTIMATED QUANTITIES**

The estimated quantities are set out in Section 8 : Bill of Quantities / Schedule of Rates/Activities which forms part of the official tender documents. The quantities are stated purely for the information of the *Bidders* and are in order to ascertain an estimated total contract price. The *Supplier* will, however, be bound to supply whatever quantity or quantities the *Municipality* may actually require, and may exceed, or be less than, the estimated quantities stated.

11. **DELIVERY, RISK, PACKAGES, ETC**

- (1) Unless otherwise provided, all goods are to be supplied only against the form of order issued by the *Municipality*.
- (2) *Bidders* shall quote a unit price which shall include delivery to the specified delivery point, as stated in the **SCT**.
- (3) The risk in all goods purchased by the *Municipality* under the contract shall remain with the *Supplier* until such goods shall have been duly delivered.
- (4) *Bidders* shall clearly state the period within which delivery will be made after receipt of the official order, as this may be material in the adjudication of the *tender*.

12. RATES OF EXCHANGE

- (1) Where the goods are imported the *Supplier* shall, within seven days of date of official Purchase Order, arrange through their bankers for the foreign commitment to be covered forward down to the Rand in order to fix the rate of exchange. The *Supplier* shall notify the *Municipality* as soon as possible thereafter regarding the rate which has been fixed on such forward exchange.

Any increase or decrease between the basic rate of exchange as at a date seven days prior to the date of closing of *tenders* and that existing at the date of establishment of the forward exchange cover within the period stipulated above shall be paid or deducted by the Municipality. Upon the failure of the *Supplier* to arrange forward exchange cover, the *Supplier* shall be liable should there be any increase in the basic rate of exchange occurring after the last mentioned date.

The bank charges incurred in obtaining the forward exchange cover shall be for the *Municipality's* account.

- (2) The *Supplier* shall on request:
- Submit documentary proof of the rate of exchange; and
 - When an adjustment is claimed in terms of this sub-clause, whether by the *Supplier* or the *Municipality*, submit documentary proof to the satisfaction of the Deputy City Manager: Treasury in respect of such claim.

13. IMPORT PERMITS

- (1) In order to minimise special importation, *Bidders* should, where possible, have recourse to local suppliers and / or manufacturers.
- (2) *Bidders* must state whether their *tender* is dependent upon the issue of a special import permit or whether they are able to supply the goods by making use of the import facilities available to them.
- (3) In the event of a tender being dependent upon the issue of a special import permit, application for such special import permit shall be made by the Tenderer, unless otherwise provided for in the *SCT*.

14. EVALUATION PROCESS

The procedure for evaluation of responsive Tender Offers will be in accordance with the eThekweni Municipality's current SCM Policy and the Preferential Procurement Policy Framework Act (5 of 2000), and the Preferential Procurement Policy Framework Act Regulations (November 2022).

Details of additional evaluation criteria, if applicable, are stated in the *SCT*.

Evaluation points for price and preference will only be calculated for *Bidders* who comply with the contractual and technical specification, and if applicable, have attained the minimum Functionality Score as stated in the *SCT*.

The evaluation process of responsive *tenders* will be as follows:

- Score each *tender* in respect of the financial offer made and preferences claimed (if any);
- Calculate the total number of evaluation points (T_{EV}) in accordance with the following formula:
 $T_{EV} = N_{FO} + N_P$ where: N_{FO} : is the number of evaluation points awarded for the financial offer; and N_P : is the number of evaluation points awarded for preferences claimed.
- Rank *tenders* from the highest number of evaluation points to the lowest.
- Recommend the *Tenderer* with the highest number of evaluation points for the award of the contract, unless there are compelling and justifiable reasons not to do so.
- Rescore and re-rank all *Bidders* should there be compelling and justifiable reasons not to recommend the *Tenderer* with the highest number of evaluation points, and recommend the *Tenderer* with the highest number of evaluation points, unless there are compelling and justifiable reasons not to do so, and the process set out in this sub-clause is repeated.

(1) Evaluation points awarded for the financial offer:

Reference is to be made to the Special Conditions of Tender (*SCT*), and returnable form 5(c) in Section 4.

INCOME-GENERATING CONTRACTS

The financial offer will be scored using the formula:

$$N_{FO} = W \left(1 + \frac{Pt - P_{max}}{P_{max}} \right)$$

GOODS and SERVICES

The financial offer will be scored using the formula:

$$N_{FO} = W \left(1 - \frac{Pt - P_{min}}{P_{min}} \right)$$

Where the value of W is:

- (a) **90** where the financial value inclusive of VAT of all responsive *tenders* received have a value in excess of R 50,000,000; OR
80 where the financial value inclusive of VAT of one or more responsive *tenders* offers have a value that equals or is less than R 50,000,000.
It is unclear (at the time of advertising) which of the two preference point systems applies. Either the 80/20 or 90/10 preference point system will apply, determined by the price offered by the lowest acceptable tender.

(b) **P_{max}** is the comparative offer of the most favourable comparative offer (highest acceptable tender).

(c) **P_{min}** is the comparative offer of the most favourable comparative offer (lowest acceptable tender).

(d) **P_t** is the comparative offer of the *tender* offer under consideration.

(2) Evaluation points awarded for preference:

The **Specific Goals** for Preference Points are specified in the *SCT*.

15. BRIBERY AND COMMUNICATION WITH COUNCILLORS / OFFICIALS

(1) Bribery

No *Tenderer* shall offer, promise or give to any person or person connected with a *tender* or the awarding of a contract, any gratuity, bonus or discount etc, in connection with the obtaining of a contract.

(2) Communication, Councillors and Officials

A *Tenderer* shall not in any way communicate with a member of the *Municipality* or with any official of the *Municipality* on a question affecting any contract for the supply of goods or for any work, undertaking or services which is the subject of a *tender* during the period between the closing date for receipt of *tenders* and the dispatch of the written notification of the *Municipality's* decision on the award of the contract; provided that a *Tenderer* shall not hereby be precluded:

- (a) At the request of the Head: SCM Unit, or an authorized representative, from furnishing him with additional information or with a sample or specimen for testing purposes or otherwise from giving a demonstration so as to enable the recommendation to the Bid Committee on the award of the contract to be formulated;
- (b) From obtaining from the Head : SCM Unit, or an authorised representative, information as to the date upon which the award of the contract is likely to be made, or, after the decision upon the award has been made by the *Municipality* or any Committee to which the *Municipality* has delegated its powers, information as to the nature of the decision or such information as was publicly disclosed at the opening of *tenders* or from submitting to the Accounting Officer in writing any communication relating to their *tender* or the award of the contract or a request for leave to withdraw their *tender*; and
- (c) Provided further that nothing contained herein shall be construed so as to prevent information being sought and obtained from an Official in regard to any decision taken at an open Municipal meeting, or any Committee to which the *Municipality* has delegated its powers.

A contravention of subsection (1) and / or (2), or an attempt to contravene such subsection, shall be reported to the Accounting Officer, who may on receipt of such report disqualify the *tender* of the *Tenderer* concerned.

16. NEGOTIATIONS WITH PREFERRED BIDDERS

The *Municipality* reserves the right to invoke Regulation 24 of Municipal Finance Management Act if required.

- (1) The Accounting Officer may negotiate the final terms of a contract with *Bidders* identified through a competitive tendering process as preferred *Bidders*, provided that such negotiation:
 - Does not allow any preferred *Tenderer* a second or unfair opportunity;
 - Is not to the detriment of any other *Tenderer* ; and
 - Does not lead to a higher price than the *tender* as submitted.
- (2) Minutes of such negotiations must be kept for record purposes.
- (3) Such negotiation may be delegated by the Accounting Officer.

17. CANCELLATION OF TENDER PROCESS

The municipality is entitled to cancel the tender at any time before the award of a tender and the decision to cancel the tender shall be published in the same manner in which the original tender invitation was advertised. The Municipality shall, in no way, be liable for any damages whatsoever, including, without limitation, damages for loss of profit, in any way connected with the cancellation of this bid.

18. ACCEPTANCE OF BID

- (1) The *Municipality* does not bind itself to accept the lowest or any *tender*, and reserves the right to accept the whole or any part of a *tender* to place orders.
- (2) The *Municipality* reserves the right to accept more than one technically and contractually compliant *tender* for part or the whole of the contract and to place orders on the price and availability.
- (3) *Bidders* shall not bind the *Municipality* to any minimum quantity per order.
- (4) The successful *Tenderer (s)* shall be bound to provide any quantities stipulated in the specification.
- (5) Tenders will only be accepted on condition that:
 - (a) The *tender* is signed by a person authorised to sign on behalf of the *Tenderer* .
 - (b) A valid (at time of close of tenders), original, Tax Clearance Certificate OR Tax Compliance Status PIN is included with the *tender* submission. Both should have sufficient validity to ensure the process is adequately covered;
 - (c) A *Tenderer* who submitted their *tender* as a Joint Venture has included an acceptable Joint Venture Agreement and a B-BBEE Certificate pertaining to the Joint Venture with their *tender*.
- (6) Financial Standing: The Head: Supply Chain Management reserves the right to require *Bidders* to submit evidence that their financial standing is adequate to meet their obligations under the contract should they be successful.
- (7) Change of Ownership or Major Policy: Where it is known to a *Tenderer* that a change in ownership or major policy (of the tendering entity) will occur, or is likely to occur, during a specified contract period, the scope and effect thereof must be fully defined in a covering letter to be submitted with the *tender*.
- (8) Purchase of Goods From Other Sources: Nothing contained in this contract shall be held to restrain the *Municipality* from purchasing from persons other than the *Supplier*, any of the goods described or referred to in this contract, if it shall in its discretion think fit to do so.
- (9) Capability and Breach of Contract: Tenderers that do not have the capability of undertaking this enquiry in terms of the requirements of the contract or have been in breach of contract previously will not be considered.

19. PAYMENT and FACTORING

Payment conditions will be as per the **Conditions of Contract**.

Payment will be made only to the *Supplier(s)*. Factoring arrangements will not be accepted.

20. APPEALS

In terms of Regulation 49 of the Municipal Supply Chain Management Regulations persons aggrieved by decisions or actions taken by the *Municipality*, may lodge an appeal within 14 days of the decision or action, in writing to the *Municipality*. The appeal (clearly setting out the reasons for the appeal) and queries with regard to decision of award are to be directed to the office of the City Manager, attention:

Ms. S. Pillay, P.O. Box 1394, Durban, 4000;
eMail: Simone.Pillay@durban.gov.za.

SECTION 3: SPECIAL / ADDITIONAL CONDITIONS OF TENDER

3.1 SPECIAL CONDITIONS OF TENDER (SCT)

The **Standard Conditions of Tender** (Goods / Services) make several references to the **Special Conditions of Tender** (SCT) for details that apply specifically to this tender. The **Special Conditions of Tender** shall have precedence in the interpretation of any ambiguity or inconsistency between it and the **Standard Conditions of Tender**.

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

SCT 3(1) TENDER INFORMATION: General

The tender document comprises of a cover page and 107 pages.

SCT 3(2) TENDER INFORMATION: Obtaining Tender Documentation

Documents are issued by the eThekweni Municipality electronic format.

Electronically downloaded documentation is obtainable from:

- the National Treasury's eTenders website
 - (<https://www.etenders.gov.za/>), or
- the eThekweni Municipality's website
 - (<https://www.durban.gov.za/pages/business/procurement>).

The entire document should be printed on A4 paper (one sided), and suitably bound by the tenderer.

SCT 3(3) TENDER INFORMATION: Queries Relating to this Tender

General and Contractual Queries are to be directed to:

Nondumiso Khumalo; Tel: 031 322 5093; eMail: nondumiso.khumalo@durban.gov.za

Technical Queries are to be directed to:

Yuvraj Dwarika; Tel: 031 322 5033; eMail: yuvraj.dwarika@durban.gov.za

SCT 3(4) TENDER INFORMATION: Briefing Session

A Non-Compulsory Clarification Meeting will be held [Ms Teams] on [12 October 2023] at [13:00 pm – 14:00 pm]

SCT 3(5) TENDER INFORMATION: Closing Date and Delivery of Tender Submissions

Sealed Tenders, addressed to the City Manager and marked with the Tender Number, are to be placed in the Tender Box **located in the ground floor foyer of the Municipal Buildings, 166 KE Masinga Road (Old Fort Rd), Durban** (and not any other municipal department), no later than: **Friday, 10 November 2023 at 11:00am**.

Bidders are to include, with their “hard copy” submission, a memory-stick containing an electronically scanned (300 dpi resolution) Public Document Format (PDF) copy of their complete bid submission. This PDF file should be named using the contract number and the bidder’s name, eg. “**XX-xxxx – Tenderers Name.PDF**”. The memory-stick must be securely fixed to the paper submission.

SCT 3(6) TENDER INFORMATION: Tender Validity and Withdrawal of Tenders

Tenders must hold good for 120 days following the date on which tenders are opened.

SCT 4(6) RETURNABLE SCHEDULES, FORMS, CERTIFICATES

There are no additional returnable schedules, forms, certificates

SCT 14 EVALUATION PROCESS

14.1 Step one – Mandatory Requirement

Offers will be considered from Original Equipment Manufacturer (OEM), accredited agent or any third-party supplier with a letter of undertaking from the OEM confirming to honour the warranty period.

In a case of a bidder being an accredited agent or a third-party supplier, a letter confirming the accreditation or a letter of undertaking from the OEM must be submitted as part of the tender submission

14.2 Price and Preference

The procedure for the evaluation of responsive tenders is **PRICE AND PREFERENCE** in accordance with the Employer’s current SCM Policy, the Preferential Procurement Policy Framework Act (5 of 2000), and the Preferential Procurement Policy Framework Act Regulations (2022).

The **90/10** preference points system will be applied. The Formula used to calculate the **Price Points (max. 90)** will be according to that specified Regulation 5.1.

14.3 Preference Point System and Specific Goals

The definitions as per the SCM Policy are applicable.

Preference Points (either 20 or 10) will be derived from points claimed on Returnable Document **MBD 6.1: “Preference Points Claim Form”** (in Section 4 of this procurement document) for the **Specific Goal(s)** as indicated on the table(s) below, and according to the specified **Goal Weightings**.

Ownership Goal

The tendering entity's **Percentage Ownership**, in terms of the **Ownership Category(s)** listed below, is to be used in the determination of the tenderer's claim for **Preference Points**.

Goal Weighting 15%			
Ownership Categories	Criteria	80/20	90/10
Race: Black (100%)	0%	n/a	0
	>0% and <51%	n/a	4
	≥51% and <100%	n/a	7.5
	100%	n/a	10
Proof of claim as declared on MBD 6.1 (1 or more of the following will be used in verifying the tenderer's status) - Companies and Intellectual Property Commission registration document (CIPC) - CSD report. - B-BBEE Certificate of the tendering entity. - Consolidated B-BBEE Certificate if the tendering entity is a Consortium, Joint Venture, or Trust (Issued by verification agency accredited by the South African Accreditation System). - Agreement for a Consortium, Joint Venture, or Trust.			

RDP Goal: The promotion of South African owned enterprises

The tendering entity's **Address** (as stated on the National Treasury Central Supplier Database (CSD) or on the eThekweni Municipality Vendor Portal) is to be used in the determination of the tenderer's claim for **Preference Points** for this Specific Goal.

Goal Weighting 60%		
Location	80/20	90/10
Not in South Africa	n/a	0
South Africa	n/a	2.5
KZN	n/a	5
ETM	n/a	10
Proof of claim as declared on MBD 6.1 (1 or more of the following will be used in verifying the tenderer's status) CSD report		

RDP Goal: The promotion SMMEs owned by 51 percent black owned – Contracts > R5m

The tendering entity's **Commitment to Sub-Contracting** (to Sub-Contractors conforming to the specified ownership demographics) the **percentage works**, as specified below, is to be used in the determination of the tenderer's claim for **Preference Points** for this Specific Goal.

Goal Weighting 25%		
Contract Participation Goal	80/20	90/10
Sub-contracting 0%	n/a	0
Sub-contracting <25%	n/a	2.5
Sub-contracting 25%	n/a	5
Sub-contracting ≥25% and <50%	n/a	10
Proof of claim as declared on MBD 6.1 (1 or more of the following will be used in verifying the tenderer's status) Contract Participation Goal Plan (% work to be allocated)		

The tenderer is required to subcontract the bodywork part of the tender at their chosen percentage as outlined on the table above.

3.2 ADDITIONAL CONDITIONS OF TENDER (ACT)

ACT 1 ELIGIBILITY – CSD REGISTRATION

Tenderers are required to be registered on the National Treasury Central Supplier Database (CSD) as a service provider. In the case of a Joint Venture, this requirement will apply individually to each party in the Joint Venture. Tenderers not so registered, at time of closing of tenders, will not be eligible to submit tenders.

The Tenderer's CSD Supplier Number (starting with "MAAA") is to be provided on the information table in Section 1.

Tenderers who wish to register on the CSD may do so via web address <https://secure.csd.gov.za>.

SECTION 4: RETURNABLE TENDER DOCUMENTS

The required returnable documents are as detailed in [Section 2 \(Clause 4\)](#): “Returnable Schedules, Forms, Certificates” of the Conditions of Tender / Special Conditions of Tender.

- 1) Authority of Signatory
- 2) Tax Compliance Status PIN / Tax Clearance Certificate
- 3) Declaration of Municipal Fees
- 4) Declaration with respect to The Occupational Health and Safety Act
- 5(a) MBD 4: Declaration of Interest
- 5(b) MBD 5: Declaration for Procurement Above R10 Million
- 5(c) MBD 6.1: Preference Points Claim
- 5(d) MBD 8: Declaration of Bidder's Past Supply Chain Management Practices
- 5(e) MBD 9: Certificate of Independent Bid Determination

The Tender Form can be found in [Section 9](#): “Official Tender Form”, and any additional schedules, forms, certificates can be found in [Section 10](#): “Annexures”.

1) AUTHORITY OF SIGNATORY

Reference is made to the Conditions of Tender: [Clause 4\(5\)\(c\)](#).

Indicate the status of the tenderer by ticking the appropriate box hereunder.

COMPANY		CLOSE CORPORATION		PARTNERSHIP		JOINT VENTURE		SOLE PROPRIETOR	
Refer to Notes at the bottom of the page									

I / We, the undersigned, being the Chairperson (Company), Member(s) (Close Corporation), Partners (Partnership), Sole Owner (Sole Proprietor), Lead Partner (JV), in the company / business trading as:

.....

hereby authorise Mr/Mrs/Ms

acting in the capacity of

to sign all documents in connection with the tender for Contract No. [1J- 25960](#) and any contract resulting from it on our behalf.

NAME	ADDRESS	SIGNATURE	DATE

Notes

Tenderers are to include, at the back of their tender submission document, a printout of the following documents:

If a Company : a "Resolution of the Board" in this regard.

If a Joint Venture : a "Power of Attorney" signed by the legally authorised signatories of all the partners to the Joint venture.

2) TAX COMPLIANCE STATUS PIN / TAX CLEARANCE CERTIFICATE

SARS has introduced a new Tax Compliance Status System. Tenderers can submit a Tax Compliance Status PIN (TCS PIN) instead of an original Tax Clearance Certificate. This TCS PIN can be used by third parties to certify the taxpayer's real-time compliance status.

Separate Tax Clearance Certificates / TCS PINs are required for each entity in a Joint Venture.

The TCS PIN(s) are to be entered on the information table in **SECTION 1: GENERAL INFORMATION**.

Tenderers are to include, at the back of their tender submission document, a printout of their Tax Compliance Status PIN (TCS PIN) OR an original Tax Clearance Certificate.

Failure to include the required document will make the tender submission non-responsive.

*I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct, **and that the requested documentation has been included in the tender submission.***

NAME (Block Capitals): _____

Date

SIGNATURE: _____

3) DECLARATION OF MUNICIPAL FEES

I, the undersigned, do hereby declare that the Municipal fees of

.....
(full name of Company / Close Corporation / partnership / sole proprietary/Joint Venture)

(hereinafter referred to as the TENDERER) are, as at the date hereunder, fully paid or an Acknowledgement of Debt has been concluded with the Municipality to pay the said charges in instalments.

The following account details relate to property of the said TENDERER:

Account

Account Number: to be completed by tenderer.

Consolidated Account No.

--	--	--	--	--	--	--	--	--	--	--	--	--

Electricity

--	--	--	--	--	--	--	--	--	--	--	--	--

Water

--	--	--	--	--	--	--	--	--	--	--	--	--

Rates

--	--	--	--	--	--	--	--	--	--	--	--	--

Other

--	--	--	--	--	--	--	--	--	--	--	--	--

I acknowledge that should the aforesaid Municipal charges fall into arrears, the Municipality may take such remedial action as is required, including termination of any contract, and any payments due to the Contractor by the Municipality shall be first set off against such arrears.

- Where the TENDERER'S place of business or business interests are outside the jurisdiction of eThekweni Municipality, a copy of the accounts/agreements from the relevant municipality must be attached (to the back inside cover of this document).
- Where the tenderer's Municipal Accounts are part of their lease agreement, then a copy of the agreement, or official letter to that effect is to be attached (to the back inside cover of this document).

Tenderers are to be include, at the back of their tender submission document, a printout of the above account's and or agreements signed with the municipality.

Failure to include the required document will make the tender submission non-responsive.

NAME (Block Capitals):

Date

SIGNATURE:

.....

.....

4) DECLARATION WITH RESPECT TO THE OCCUPATIONAL HEALTH AND SAFETY ACT

Definitions

The Act: The Occupational Health and Safety Act No 85 of 1993 (as amended by the Occupational Health and Safety Amendment Act No 181 of 1993), and any associated / applicable Regulations.

Declaration by Tenderer

1. I, the undersigned, hereby declare and confirm that I am fully conversant with the Act.
2. I hereby declare that my company has the competence and the necessary resources to safely carry out the work / supply / services under this contract in compliance with the Act, and the Employer's / Purchaser's / Client's Health and Safety Specifications.
3. I hereby undertake, if my tender is accepted, to provide on request a suitable and sufficiently documented Health and Safety Plan which plan shall be subject to approval by the Employer / Purchaser / Client.
4. I hereby confirm that adequate provision has been made in my tendered rates to cover the cost of all resources, actions, training and all health and safety measures envisaged in the Act, and that I will be liable for any penalties that may be applied by the Employer / Purchaser / Client for failure to comply with the provisions of the Act.
5. I agree that my failure to complete and execute this declaration to the satisfaction of the Employer / Purchaser / Client will mean that I am unable to comply with the requirements of the Act and accept that my tender will be prejudiced and may be rejected at the discretion of the Employer / Purchaser / Client.

NAME (Block Capitals):**Date****SIGNATURE:**

5(a) MBD 4: DECLARATION OF INTEREST**NOTES**

MSCM Regulations: “in the service of the state” means to be:

- (a) a member of:
 - (i) any municipal council.
 - (ii) any provincial legislature.
 - (iii) the national Assembly or the national Council of provinces.
- (b) a member of the board of directors of any municipal enterprise.
- (c) an official of any municipality or municipal enterprise.
- (d) an employee of any national or provincial department, national or provincial public enterprise or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No.1 of 1999).
- (e) a member of the accounting authority of any national or provincial public enterprise.
- (f) an employee of Parliament or a provincial legislature.

“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.

- 1 No bid will be accepted from persons **in the service of the state**.
- 2 Any person, having a kinship with persons **in the service of the state**, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to **persons in service of the state**, it is required that the bidder or their authorised representative declare their position in relation to the evaluating/adjudicating authority and/or take an oath declaring his/her interest.
- 3 In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.

3.1 Name of enterprise

Name of enterprise’s representative

3.2 ID Number of enterprise’s representative

3.3 Position enterprise’s representative occupies in the enterprise

3.4 Company Registration number

3.5 Tax Reference number

3.6 VAT registration number

3.7 The names of all directors / trustees / shareholders / members / sole proprietors / partners in partnerships, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below. In the case of a joint venture, information in respect of each partnering enterprise must be completed and submitted.

3.8 Are you presently in the service of the state?

If yes, furnish particulars:

.....

3.9 Have you been in the service of the state for the past twelve months?

If yes, furnish particulars:

.....

Circle Applicable

YES

NO

YES

NO

3.10 Do you have any relationship (family, friend, other) with persons in the service of the state and who may be involved with the evaluation and or adjudication of this bid?

YES

NO

If yes, furnish particulars:

.....

.....

3.11 Are you, aware of any relationship (family, friend, other) between any other bidder and any persons in the service of the state who may be involved with the evaluation and or adjudication of this bid?

YES

NO

If yes, furnish particulars:

.....

.....

3.12 Are any of the company's directors, trustees, managers, principle shareholders or stakeholders in service of the state?

YES

NO

If yes, furnish particulars:

.....

.....

3.13 Are any spouse, child or parent of the company's directors, trustees, managers, principle shareholders or stakeholders in service of the state?

YES

NO

If yes, furnish particulars:

.....

.....

3.14 Do you or any of the directors, trustees, managers, principle shareholders, or stakeholders of this company have any interest in any other related companies or business whether or not they are bidding for this contract?

YES

NO

If yes, furnish particulars:

.....

.....

- 4 The names of all directors / trustees / shareholders / members / sole proprietors / partners in partnerships, their individual identity numbers and state employee numbers must be indicated below. In the case of a joint venture, information in respect of each partnering enterprise must be completed and submitted

Full Name	Identity No.	State Employee No.	Personal income tax No.
Use additional pages if necessary			

I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct.

NAME (Block Capitals):

.....

Date

.....

SIGNATURE:

.....

5(b) **MBD 5: DECLARATION FOR PROCUREMENT ABOVE R10 MILLION**
(ALL APPLICABLE TAXES INCLUDED)

For all procurement expected to exceed R10 million (all applicable taxes included), bidders must complete the following questionnaire.

		Circle Applicable	
		YES	NO
1.0	Are you by law required to prepare annual financial statements for auditing?		
1.1	If YES, submit audited annual financial statements for the past three years or since the date of establishment if established during the past three years.		
2.0	Do you have any outstanding undisputed commitments for municipal services towards any municipality for more than three months or any other service provider in respect of which payment is overdue for more than 30 days?	YES	NO
2.1	If NO, this serves to certify that the bidder has no undisputed commitments for municipal services towards any municipality for more than three months or other service provider in respect of which payment is overdue for more than 30 days.		
2.2	If YES, provide particulars.		
3.0	Has any contract been awarded to you 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?	YES	NO
3.1	If YES, provide particulars.		
4.0	Will any portion of goods or services be sourced from outside the Republic, and, if so, what portion and whether any portion of payment from the municipality / municipal entity is expected to be transferred out of the Republic?	YES	NO
4.1	If YES, provide particulars.		

If required by 1.1 above, tenderers are to include, at the back of their tender submission document, a printout of their audited annual financial statements.

I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, confirms that the information contained in this form is within my personal knowledge and is to the best of my belief both true and correct, and, if required, that the requested documentation has been included in the tender submission.

NAME (Block Capitals):

Date

SIGNATURE:

5(c) MBD 6.1: PREFERENCE POINTS CLAIM
In terms of THE PREFERENTIAL PROCUREMENT REGULATIONS (2022)

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

1.0 GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 The applicable preference point system for this tender is the **90/10 preference point system**.

1.3 Preference Points for this tender shall be awarded for:

- **Price and Specific Goals:** 90 (price) and 10 (specific goals), in terms of 1.2 above.
- The total Preference Points, for Price and Specific Goals, is 100.

1.4 Failure on the part of the tenderer to submit the required proof or documentation, in terms of the requirements in the (Special) Conditions of Tender for claiming **Specific Goal** preference points, will be interpreted that preference points for **Specific Goals** are not claimed.

1.5 The Municipality reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard of preferences, in any manner required by the Municipality.

2.0 DEFINITIONS

2.1 “**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.

2.2 “**price**” means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts.

2.3 “**rand value**” means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes.

2.4 “**tender for income-generating contracts**” means a written offer in the form determined by Municipality 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 Municipality and a third party that produces revenue for the Municipality, 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.

2.5 “**the Act**” means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3.0 FORMULA FOR CALCULATION OF PREFERENCE PRICE POINTS

3.1 PROCUREMENT OF GOODS AND SERVICES

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

<u>80 / 20 Points System</u>	OR	<u>90 / 10 Points System</u>
$P_s = 80 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right)$		$P_s = 90 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right)$

Where:

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

4.0 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 **points claimed** for the goal(s) stated in **Table 1** below, as supported by proof/ documentation stated in the **Conditions of Tender**:
- 4.2 In cases where the municipality intends 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, the municipality 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 municipality 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.

Tenderers are to indicate their points claim for each of the Specific Goals.

The Specific Goals to be allocated points in terms of this tender	Number of points ALLOCATED (90/10 system)	Number of points CLAIMED (90/10 system)
Ownership Goal:	1,5	
RDP Goal: The promotion of South African owned enterprises.	6	
RDP Goal: The promotion of SMMEs owned by PPG (contracts >R5m)	2,5	
Total point claimed		
Should the municipality apply a combination of Specific Goals, the points for the individual goals will be weighted according to the Goal Weightings specified in the Tender Data to arrive at the final points for Preferential Points for Specific Goals .		

I, the undersigned, who warrants that they are authorised to sign on behalf of the Tenderer, certify that the points claimed, based on the specific goals as specified in the tender, qualifies the tendering entity for the preference(s) shown.

I acknowledge that:

- 1) The information furnished is true and correct.
- 2) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form.
- 3) 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.
- 4) 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.

NAME (Block Capitals):

Date

SIGNATURE:

5(d) MBD 8: DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES

- 1.0 This Municipal Bidding Document must form part of all bids invited.
- 2.0 It serves as a declaration to be used by municipalities and municipal entities in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- 3.0 The bid of any bidder may be rejected if that bidder, or any of its directors have:
- abused the municipal entity's supply chain management system or committed any improper conduct in relation to such system.
 - been convicted for fraud or corruption during the past five years.
 - wilfully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years.
 - been listed in the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004).
- 4.0 In order to give effect to the above, the following questions must be completed and submitted with the bid.

- 4.1 Is the bidder or any of its directors 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.

- 4.1.1 If YES, provide particulars.

.....

.....

- 4.2 Is the bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)?

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.

- 4.2.1 If YES, provide particulars.

.....

.....

- 4.3 Was the bidder or any of its directors convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?

- 4.3.1 If YES, provide particulars.

.....

.....

Circle Applicable	
YES	NO

YES	NO
-----	----

YES	NO
-----	----

4.5 Was any contract between the bidder and the municipality / municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?

5(e) MBD 9: CERTIFICATE OF INDEPENDENT BID DETERMINATION**NOTES**

¹ Includes price quotations, advertised competitive bids, limited bids and proposals.

² Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.

³ 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.

1.0 This Municipal Bidding Document (MBD) must form part of all **bids**¹ invited.

2.0 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or **bid rigging**).² Collusive bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.

3.0 Municipal Supply Regulation 38 (1) prescribes that a supply chain management policy must provide measures for the combating of abuse of the supply chain management system, and must enable the accounting officer, among others, to:

- a. take all reasonable steps to prevent such abuse;
- b. reject the bid of any bidder if that bidder or any of its directors has abused the supply chain management system of the municipality or municipal entity or has committed any improper conduct in relation to such system; and
- c. cancel a contract awarded to a person if the person committed any corrupt or fraudulent act during the bidding process or the execution of the contract.

4.0 This MBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of **bid rigging**.

5.0 In order to give effect to the above, the attached Certificate of Bid Determination (MBD 9) must be completed and submitted with the bid.

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

(Bid Number and Description)

in response to the invitation for the bid made by:

(Name of Municipality / Municipal Entity)

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

I certify, on behalf of:

(Name of Bidder)

that:

1. I have read and I understand the contents of this Certificate.
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect.
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign, the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
 - (a) has been requested to submit a bid in response to this bid invitation.
 - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience.
 - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder.
6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement, or arrangement with any competitor. However, communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.

7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices.
 - (b) geographical area where product or service will be rendered (market allocation).
 - (c) methods, factors or formulas used to calculate prices.
 - (d) the intention or decision to submit or not to submit, a bid.
 - (e) the submission of a bid which does not meet the specifications and conditions of the bid.
 - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements, or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

NAME (Block Capitals):

Date

SIGNATURE:

SECTION 5: CONDITIONS OF CONTRACT

GOVERNMENT PROCUREMENT: CONDITIONS OF CONTRACT (July 2010)

The **Conditions of Contract** are the **General Conditions of Contract** as published by the National Treasury titled "Government Procurement: General Conditions of Contract (July 2010), as amended by National Treasury Circular 52 dated 30 July 2010, hereinafter referred to as **GCC**.

THE NATIONAL TREASURY

Republic of South Africa



GOVERNMENT PROCUREMENT: GENERAL CONDITIONS OF CONTRACT

July 2010

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1. Definitions

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 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 where an enterprise abroad is subsidized 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 recognized 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 of 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 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 goods are so delivered and a valid receipt is obtained.
- 1.11 "Dumping" occurs when a private enterprise abroad market its goods on own initiative in the RSA at lower prices than that of the country of origin and which have the potential to harm the local industries in the RSA.
- 1.12 "Force majeure" means an event beyond the control of the supplier and not involving the supplier's fault or negligence and not foreseeable. Such events may include, but is 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 goods 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 organization 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 "Supplier" means the successful bidder who is awarded the contract to maintain and administer the required and specified service(s) to the State.
- 1.26 "Tort" means in breach of contract.
- 1.27 "Turnkey" means a procurement process where one service provider assumes total responsibility for all aspects of the project and delivers the full end product / service required by the contract.
- 1.28 "Written" or "in writing" means hand-written 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 (excluding professional services related to the building and construction industry), 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 goods, 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 Invitations to bid are usually published in locally distributed news media and on the municipality/municipal entity website.

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 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 use of the goods or any part thereof by the purchaser.
- 6.2 When a supplier developed documentation / projects for the municipality / municipal entity, the intellectual, copy and patent rights or ownership of such documents or projects will vest in the municipality / municipal entity.

7. Performance security

- 7.1 Within thirty (30) 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 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.
- 7.3 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 thirty (30) days following the date of completion of the supplier's performance obligations under the contract, including any warranty obligations, [unless otherwise specified](#).

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 goods to be produced or services to be rendered should at any stage be subject to inspections, tests and analyses, the bidder or contractor's premises shall be open, at all reasonable hours, for inspection by a representative of the purchaser or organization acting on behalf of the purchaser.

- 8.3 If there are no inspection requirements indicated in the bidding documents and no mention 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 goods 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 goods or services referred to in clauses 8.2 and 8.3 do not comply with the contract requirements, irrespective of whether such goods or services are accepted or not, the cost in connection with these inspections, tests or analyses shall be defrayed by the supplier.

- 8.6 Goods 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 goods 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 goods 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 goods, which do comply with the requirements of the contract. Failing such removal the rejected goods shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute goods forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected goods, purchase such goods 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 22 of 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 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, and in any subsequent instructions ordered by the purchaser.

10. Delivery and documents

- 10.1 Delivery of the goods and arrangements for shipping and clearance obligations, shall be made by the supplier in accordance with the terms [specified in the contract](#).

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](#).

12. Transportation

- 12.1 Should a price other than an all-inclusive delivered price be required, [this shall be specified](#).

13. Incidental Services

13.1 The supplier may be required to provide any or all of the following services, **including additional services**, if any:

- (a) performance or supervision of on-site assembly and/or commissioning of the supplied goods;
- (b) furnishing of tools required for 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**, 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 twelve (12) 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 eighteen (18) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, **unless specified otherwise**.

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

15.4 Upon receipt of such notice, the supplier shall, **within the period specified** 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**, 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**.

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

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

16.4 Payment will be made in Rand **unless otherwise stipulated**.

17. Prices

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

18. Variation orders

18.1 In cases where the estimated value of the envisaged changes in purchase does not vary more than 15% of the total value of the original contract, the contractor may be instructed to deliver the goods or render the services as such. In cases of measurable quantities, the contractor may be approached to reduce the unit price, and such offers may be accepted provided that there is no escalation in price.

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

- 21.4 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 22.2 without the application of penalties.
- 21.5 Upon any delay beyond the delivery period in the case of a goods contract, the purchaser shall, without cancelling the contract, be entitled to purchase goods 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:
- 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;
 - if the supplier fails to perform any other obligation(s) under the contract; or
 - if the supplier, in the judgement 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 fourteen (14) days to provide reasons why the envisaged restriction should not be imposed. Should the supplier fail to respond within the stipulated fourteen (14) days the purchaser may regard the supplier as having no objection and proceed with the restriction.
- 23.5 Any restriction imposed on any person by the purchaser will, at the discretion of the purchaser, 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 purchaser actively associated.
- 23.6 If a restriction is imposed, the purchaser must, within five (5) working days of such imposition, furnish the National Treasury, with the following information:
- the name and address of the supplier and / or person restricted by the purchaser;
 - the date of commencement of the restriction
 - the period of restriction; and
 - 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, No. 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 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. Antidumping 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 subsidized 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 supplier to the purchaser or the purchaser may deduct such amounts from moneys (if any) which may otherwise be due to the supplier in regard to goods or services which he 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.
- 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 promptly notify the purchaser 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 amicably such dispute or difference by mutual consultation.
- 27.2 If, after thirty (30) 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 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 the supplier for goods delivered and / or services rendered according to the prescripts of the contract.

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.

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, license fees, and other such levies imposed outside the purchaser's country.
- 32.2 A local supplier shall be entirely responsible for all taxes, duties, license 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 SARS must have certified that the tax matters of the preferred bidder are in order.
- 32.4 No contract shall be concluded with any bidder whose municipal rates and taxes and municipal services charges are in arrears.

33. Transfer of Contracts

- 33.1 The contractor shall not abandon, transfer, cede assign or sublet a contract or part thereof without the written permission of the purchaser.

34. Amendment of contracts

- 34.1 No agreement to amend or vary a contract or order or the conditions, stipulations or provisions thereof shall be valid and of any force unless such agreement to amend or vary is entered into in writing and signed by the contracting parties. Any waiver of the requirement that the agreement to amend or vary shall be in writing, shall also be in writing.

35. Prohibition of restrictive practices

- 35.1 In terms of section 4 (1) (b) (iii) of the Competition Act No. 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.
- 35.2 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 section 59 of the Competition Act No 89 Of 1998.
- 35.3 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 ten (10) years and / or claim damages from the bidder(s) or contractor(s) concerned.

SECTION 6: SPECIAL / ADDITIONAL CONDITIONS OF CONTRACT

The **Conditions of Contract** make reference to the **Special Conditions of Contract (SSC)** for details that apply specifically to this bid. The **Special Conditions of Contract** shall have precedence in the interpretation of any ambiguity or inconsistency between it and the **Conditions of Contract**.

Each item below is cross-referenced to the clause in the **Conditions of Contract** to which it mainly applies.

SCC 1.2 CONTRACT

This contract will be for a period of thirty-six (36) months

SCC 7.1 PERFORMANCE SECURITY

The liability of the Performance Security shall be Nil.

SCC 10.1 DELIVERY AND DOCUMENTS

The complete unit will have to be delivered to eThekweni Municipality Premises and have to be accompanied by an invoice. Delivery will only take place after the prototype and relevant documentation have been received and assessed by eThekweni Municipality's officials responsible.

10.1.1 The following documentation (soft and hard copies) shall accompany the vehicle:

- a) Detailed maintenance manual
- b) Operating manual
- c) Training manual
- d) Spares manual
- e) Electrical wiring circuit/diagram
- f) The vehicle complies to SANS 20013.
- g) A CAD model in. STEP format for the proposed customisation either on CD or USB (where applicable).
- h) Certificate showing vehicle and all serial numbers of main components (engine, gearbox, drivetrain, braking system, etc.) fitted from the factory according to the specification of the customer's requirements. No retro fitments of major components shall be undertaken outside the OEM/agent factory.
- i) CANBUS interface with contactless adapter used to read vehicle CAN data with LV-CAN200, ALL-CAN300.

10.1.2 The following documentation shall accompany the tender response:

- a) A chassis cab and superstructure product catalogue with technical specifications.
- b) An assembly drawing indicating the general arrangement of the vehicle.

SCC 11.1 INSURANCE

The successful tenderer is to take adequate insurance to cover the unit when it leaves the premises of the bidder until it is fully delivered and commissioned at eThekweni Municipality Premises.

SCC 12.1 TRANSPORTATION

No separate costs will be paid by the City for transportation of the goods, the tenderer must provide a price which is inclusive of delivery costs.

SCC 14.1 SPARE PARTS

The tenderer must have service representation in South Africa that can provide spare parts for the unit tendered on.

SCC 15.5 WARRANTY

The vehicles supplied to meet the warranties:

All components fitted (excl. chassis, driver cab and superstructures) and the hydraulic/pneumatic/electrical systems to be covered by a minimum 2-year warranty.

The steel structures (including the superstructure, chassis and the driver cab) shall have a minimum of a 7-year warranty for its application.

The paintwork shall be covered by a 10-year corrosion free warranty.

SCC 16.1 PAYMENT

The Contractor shall submit to the Department concerned a detailed account which shall reflect the identifying number of each item / service. Payment will be made on this account when checked and substantiated by the authorised official.

Payment for goods received and accepted by the Municipality shall be made no later than 30 days after submission of invoice or claim, provided however that all the terms of the contract are duly complied with.

Payment will be made only to the supplier. Factoring arrangements will not be accepted.

SCC 17 PRICES

Prices must be fixed for the first 6-month period(s) and thereafter price adjustment will be in line with SEIFSA and Consumer Price Index. Such request for price adjustment must be supported by necessary documentation.

SCC 21.1 DELAYS IN THE SUPPLIER'S PERFORMANCE

The time schedule for the delivery of goods and performance of services is 26 weeks from the date of confirmation of an order

SCC 22.1 PENALTIES

Replace this clause with the following:

"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 penalty of R 5000 per day for each day delivery is delayed.

The purchaser may also consider termination of the contract pursuant to GCC Clause 23.”

ADDITIONAL CONDITIONS OF CONTRACT

ACC1 PERFORMANCE MONITORING & ASSESSMENT OF SERVICE PROVIDERS

For contract awards that are greater than R10m, the Contractor shall be subjected to “Performance Monitoring” assessments in terms of the applicable Section of the Council’s current Supply Chain Management Policy.

ACC2 QUALITY OF PRODUCTS

No inferior products will be accepted under this enquiry.

Should there be any cause for complaint against the standard of service or quality of products offered which is not resolved within a period of 10 working days, the Municipality reserves the right to cancel the contract after serving one month’s notice, in writing, to the supplier involved. Should such notice be given, the supplier shall nevertheless be obliged to perform the duties covered by the contract up to the date of expiration of the period of notice.

ACC3 SATISFACTORY PERFORMANCE

The supplier shall employ for the purpose of this contract only such personnel as are careful and competent and the Municipality shall be at liberty to object to and require the supplier to remove from the job forthwith any person, including supervisory staff, employed by the supplier who, in the opinion of the Municipality, misconducts himself/herself or is incompetent or negligent in the proper performance of his/her duties and such person shall not again be employed upon this contract without the permission of the Municipality.

ACC4 OCCUPATIONAL INJURIES AND DISEASES ACT

This act replaces the Workmen’s Compensation Act:

The supplier shall, before commencement of work, produce documentary proof to the Deputy Municipal Manager, Treasury: Finance that he has complied in all respects with the provisions of the Occupational Injuries and Diseases Act. The supplier undertakes that he/she will perform and comply with all provisions of the Occupational Injuries and Diseases Act and more particularly that he/she will render all returns and pay all assessments for which he/she is liable in terms of such Act.

ACC5 DAMAGE TO PERSONS AND PROPERTY

- (1) The supplier **shall** indemnify and keep indemnified the Council against any claim for death, injury, damage or loss to any person or property whatsoever in respect thereof or in relation thereto.
- (2) The supplier enters into this contract as an independent contractor and shall be solely liable in respect of any claim for death, injury, damage or loss to any person or property whatsoever in respect thereof or in relation thereto.

ACC6 RATE OF EXCHANGE VARIATION

Where the goods are imported the Contractor shall within seven days of date of Official Purchase Order, arrange through his bankers for the foreign commitment to be covered forward down to the Rand in order to fix the rate of exchange. The Contractor shall notify the Municipality as soon as possible thereafter regarding the rate which has been fixed on such forward exchange. The forward cover shall be from a reputable South African bank. The Contractor is to confirm with the employer prior to placing forward cover if the service provider is acceptable.

Any increase or decrease between the basic rate of exchange as at 12:00 on the date of close of the bid and that existing at the date of establishment of the forward exchange cover within the period stipulated above shall be paid or deducted by the Municipality. Upon the failure of the Contractor to arrange forward exchange cover, the Contractor shall be liable should there be an increase in the basic rate of exchange occurring after the last-mentioned date.

The bank charges incurred in obtaining the forward exchange cover must be included in the Tenderer's bid.

ACC7 ESTIMATED QUANTITIES

The quantities stated in Section 8 are applicable for evaluation purposes only. The final quantity of goods and services required shall vary, depending on the total number of actual instances a service/goods will be required over the Contract Period. The rates tendered shall be applicable, irrespective of the total quantity of goods and services procured over the contract duration.

ACC8 SERVICE PROVIDER OFFICE REQUIREMENTS

The service provider must have, for the duration of the contract, a local presence (within the geographical eThekweni boundary).

ACC9 SUBCONTRACTING

Subcontracting will be in line with the RDP goal for promotion of SMME's which is found on page 12 of this document under preference points scoring system for the tender

ACC10 FITMENT OF AUXILIARY EQUIPMENT

It must be noted that once the vehicle(s) have been receipted by eThekweni Municipality there will be fitment of auxiliary equipment such as fuel monitoring and vehicle tracking systems.

The bidder will be required to provide an electrical diagram and tap off points for such fitments

ACC11 VEHICLE/ EQUIPMENT/ UNIT DERIVATES (EURO)

The bidder shall tender for variants of the vehicle/equipment/unit in different Euro versions. eThekweni Municipality reserves the right to award based on their discretion and evaluation which aligns with operational, environmental and strategic requirements in conjunction with the adopted Durban Climate Strategy.

SECTION 7: SCOPE AND SPECIFICATION OF REQUIRED SUPPLY / SERVICES

The vehicles with the customisation shall be supplied complete and fully assembled in all respects, including standard equipment supplied by the manufacturer and shall comply with the South African Occupational Health and Safety Act, Act 85 of 1993/as amended and the applicable current Road Traffic Legislation. All work on the vehicle including the accessories and customisation is to be constructed by an SABS/SANS approved body/coach/vehicle manufacturer/ builder.

The vehicle and its customisation must be operationally friendly, easy to operate and maintain. All replaceable items including (but not limited to) critical components shall be designed for easy access, removal and replacement. There shall be a prescreening design phase of the concept of the vehicle provided by the bidder before getting approval from Ethekewini City Fleet to go ahead with the prototype. Prototype will be used in field conditions before being accepted or revised. Thereafter consent will be provided for production (if multiple units required).

The vehicle and its customisation shall be to I.S.O. Metric Standards, and instrumentation gauges, dials, etc. shall be in Systeme International (S.I.) units.

Prospective tenderers must ensure that they read the specific Contractual Conditions applicable to this contract which appear in the section immediately preceding Section 7.

Each vehicle must be supplied with detailed maintenance, operating, training and spares manuals (in English), including technical data for each spare, as well as general arrangement drawings and a bill of materials.

There must be sufficient information to allow the capture of maintenance schedules in terms of inspections, servicing and replacement of parts. Three hardcopies and three electronic copies of the operating, maintenance, training and spare parts manuals shall be provided, as well as a training manual for each trainee.

PTO calibration shall be performed after tracking device is installed on the vehicle by eThekwini City Fleet. All consumables to connect the tracking device to the vehicle shall be supplied (electrical cables/harnesses, PCM module plugs, electrical adaptors including pins, etc.) by the bidder.

All exposed electrical wiring looms of the chassis cab shall be full encased in a flexible protective metallic conduit and securely clamped with fasteners to the chassis or the structure.

All primary vehicles (chassis cabs) shall be suitable for the specific application, this must be reinforced with evidence in the product catalogues and references.

In each listed item for supply, chapter 2 specifies accessories and additional equipment for the vehicle that is expected to be provided by the OEM ex-factory. If these are standard items available on the bidders make and model specify as such. Should these items be additional options/extras offered by the OEM itemize these

accordingly in the submission. Should the OEM not offer these options and only offer aftermarket retro fitment solutions these items must accompany the bidder's response as an annexure stating so. Bidders are asked to be diligent in this process with attention to items like the sunroof, tyre pressure monitoring system, Bluetooth audio/hands free multimedia system with reverse camera, engine and fuel safety equipment and auto lubrication systems where applicable.

The tyres that are supplied for the chassis cabs shall be of suitable application and load ratings in respect to their permissible payloads. 6x4 and 8x4 chassis cabs with standard slimline cabs shall have the option of an extended/day cab if offered for extra space.

All superstructures supplied should have the option of an overload device which can read out or provide an audible and visible indicator when maximum payload of the vehicle is achieved.

The CANBUS interface shall be able to read the following;

- Factory remote Alarm
- Factory's remote
- Factory's remote - 3x Arm
- Parking
- Reverse
- Parking lights
- Dipped headlights
- Full beam headlights
- Rear fog lights
- Front fog lights
- AC turned on
- Cruise
- Automatic retarder
- Manual retarder
- Driver's seat belt
- CHECK ENGINE (MIL)
- ABS ESP ESP OFF
- Oil pressure / level
- Coolant temperature / level
- Battery charging
- Handbrake system
- Warning Low fuel
- Glow plug indicator
- Rear PTO turned on
- Engine lifetime from dashboard
- Engine lifetime - Counted Vehicle mileage
- Vehicle mileage - Counted
- Total fuel consumption
- Total fuel consumption - Counted
- Fuel level (Dashboard)
- Fuel level (Dashboard) - Liters
- Engine speed (RPM)
- Engine temperature
- Vehicle speed
- Axle 1 load

Axle 2 load
 Axle 3 load
 Axle 4 load
 Axle 5 load
 AdBlue level (Dashboard)
 Acceleration pedal position
 Engine torque
 Retarder torque
 Distance to service
 Outside temperature
 Weight load
 SIMPLE TACHO

CANBUS speed shall within a range of 33,33 to 500 kb/s or better.

Bidder shall provide a list of what can be read from their CANBUS interface and what system is required to interface it.

At the end Section 7 other specifications/standards are covered that will be adhered to.

List of items for supply:

Item 1: 6x4 Skip Loader single cab chassis vehicle (minimum lifting capacity 20Ton)

Item 2: 6x4 Hook lift single cab chassis vehicle (minimum lifting capacity 20Ton)

Item 3: 8x4 Hook lift single cab chassis vehicle (minimum lifting capacity 20Ton)

Item 4: 4x2 Enclosed box body with equipment single cab chassis vehicle

Item 5: 4x2 5000-6000 litre jetting water tanker single cab chassis vehicle

Item 6: 6x4 vacuum tanker single cab chassis vehicle

Item 1.1 to 1.2: Technical specification for a 6x4 Skip Loader single cab vehicle with a minimum lifting capacity of 20 000 kg.

1. Scope

The intent of this specification is to provide for a fully operational vehicle, which has the capability to load and offload laden 5m³, 8m³ and 14m³ skip containers with a laden mass of 15-20 000 kg. The metallic skips are used for the collection of non-compactable commercial waste and sludge. The skip lifting mechanism must be rated for a minimum lifting capacity of 20 000 kg due to the nature of the various operations.

Pre-delivery inspection of the completed vehicle and superstructure will be only deemed complete after used once in field operations and conditions.

The vehicle with the customisation shall be supplied complete and fully assembled in all respects, including standard equipment supplied by the manufacturer and shall comply with the South African Occupational Health and Safety Act, Act 85 of 1993/as amended, and to the applicable current Road Traffic Legislation. All work on the vehicle including the customisation is to be constructed by an SABS/SANS approved body/coach/vehicle manufacturer/ builder. The total operating mass of the vehicle and its customisation should not exceed the trucks legal V rating less 1000 kg. The layout should also ensure that the laden individual axle loads do not exceed the legal limits.

The bodywork should be designed to enhance the aesthetics of the vehicle. The vehicle and its customisation must be operationally friendly, easy to operate and maintain. All replaceable items including (but not limited to) critical components shall be designed for easy access, removal and replacement.

The vehicle and its customisation shall be to I.S.O. Metric Standards, and instrumentation gauges, dials, etc. shall be in Systeme International (S.I.) units.

2. Vehicle

- 2.1 The chassis cab/vehicle shall be an application specific (construction recommended) 6x4 cab truck, with a minimum Gross Vehicle Mass (GVM) of 26 000 kg.
- 2.2 Transmission shall be automatic manual transmission (AMT) and fully automatic. Bidder shall provide an option on one or all if offered.
- 2.3 Minimum diesel engine requirements shall be of Euro 3-5 emission level, 250 kW of power and 1 400 Nm of torque.
- 2.4 Minimum wheelbase of not less than 4 500 mm.
- 2.5 Steel suspension.
- 2.6 Fitment of a steel under belly plate to protect the radiator & engine.
- 2.7 Automated tire monitoring/warning system for all wheels only if offered by the OEM. System can be integrated into the media center of the vehicle.
- 2.8 Front shunting type tow hitch to be fitted with a bulbar that does not inhibit operation of it. Bulbar shall be for the full lateral width and follow the contour of the cab/front bumper profile.
- 2.9 ABS brakes is mandatory. Auxiliary braking to be provided through an integrated retarder operated via the foot brake pedal or through an electronic management system (this will have to be demonstrated before approval).
- 2.10 A fully laden minimum grade ability of 30 % shall be expected. Maximum speed of 80 km/hr.
- 2.11 Rear axles with full hub reduction gearing and differential lock.
- 2.12 Forward tilt hydraulic actuated cab with safety holding mechanism.
- 2.13 To safely and comfortably accommodate driver using an equal levelling suspended type seat. To be fully adjustable.
- 2.14 Rear window of cab shall have a structural frame with 3 mm 3CR12 mesh across the surface area for protection. To be mounted with fasteners (not rivets).
- 2.15 Electric adjustable mirrors.
- 2.16 Driver assist mirrors for front and passenger side of vehicle.
- 2.17 Heater, windscreen demister and air-conditioning system should be adequate for the cab and its occupants.
- 2.18 Bluetooth hands free cellphone multimedia radio and speakers/microphone.
- 2.19 12v charger sockets.
- 2.20 Fuel tank shall be not less than 300 liters with a lockable fuel cap and an anti-siphoning device.
- 2.21 Automated truck fuel filtration management system to remove water and dirt before delivery to the engine. This system shall be in a lockable enclosure (lock to be provided).
- 2.22 Engine protection system/device to be installed monitoring engine temperature, low water level and low engine oil pressure. Monitoring device/system to safely shut down engine when any of these (if not all) are detected.
- 2.23 The vehicle and the customisation shall be designed according to these critical specifications (summary of evidence shall be provided):
 - a) SANS 1518 Transport of dangerous goods — Design, construction, testing, approval and maintenance of road vehicles and portable tanks.
 - b) SANS 20013 Surface vehicles. This specification covers the braking system of motor vehicles and trailers. Maximum design speed exceeding 35km/h intended for use on public roads.
 - c) National Roads Traffic Act with attention to Regulation 240: The carrying capacity of the road.
 - d) Chapter 15 covers other specifications/standards that shall be adhered to.

3. Material specification

The load bearing items shall be made from structural steel with chromium content to withstand the payload and corrosive nature of the refuse application. Corten steel is recommended for the superstructure. Whilst Hardox for the wear pads and on the floor.

4. Construction requirements

4.1 Superstructure

- 4.1.1 A minimum of 6 mm thickness is recommended for the floor where the skip will be seated.
- 4.1.2 Areas of the floor that shall be used as access walkways shall have a hard wearing, slip resistant material (Vastrap).
- 4.1.3 Skip and container stops shall be strategically positioned and installed. The surface in contact with the skip/container shall be a hard wearing type like Hardox.
- 4.1.4 Access ladder and railings/grabs shall be installed in a suitable position behind the cab and rear/side.
- 4.1.5 The twin mounted hydraulic cylinders shall be suitable for the application and provide a sufficient lifting force for the laden skip even if heaped loaded. Maintenance free bushings/bearings shall be used where possible. Alternatively an automated greasing system shall be supplied.
- 4.1.6 A tipping angle of 50° shall be required.
- 4.1.7 The main booms on either side shall be independent and have no lateral member connecting them.
- 4.1.8 The booms shall be height adjustable to accommodate larger skips on occasion.
- 4.1.9 Hydraulically controlled rear stabiliser legs shall be installed to allow levelling and counterbalance of chassis when loading/unloading.
- 4.1.10 Rear stabilizer legs shall be fit with suitable wheels/rollers to allow short term movement of unit.
- 4.1.11 Lifting chain assemblies (tipping and lifting) shall be supplied and certified according to SANS 10388. Tipping chains at the rear base shall have a safety lock and holders to securely keep them in place during transit. The skip lifting chains shall have dual eyes and a length suitable for small and large skips. Bidder to verify type required at the time of order.
- 4.1.12 Stowage points shall be provided for the chains when not in use.
- 4.1.13 Option of a hydraulically operated durable and robust roll up material which can be deployed and retracted automatically over a skip shall be installed. The cover shall cover the skip geometry including the length and width. It shall have a two stage movement process; were the later after being covered, shall be held in tension to secure covered skip contents.
- 4.1.14 Hydraulic controls for the operation of the loading/offloading shall be fitted to a lockable, water resistant control panel behind the driver's cab allowing for ease of operation.
- 4.1.15 The controls shall be clearly marked for their specific operation and colour coding shall be used with the instruction data plate.

All items in chapter 4 must be thoroughly sealed with an approved sealer to prevent rusting between mating surfaces and drain holes must be provided in areas where water can accumulate. Any floor that persons will use on the body should be coated with a hard wearing, slip resistant material (Vastrap).

5. Lighting

5.1 A waterproof slim line bar light approx. 1200mm in length and 200mm in width to be installed on bracket on the front of the cab without drilling into the roof. Generation 3 type LED consisting of 1 watt, 6x4 modules to the front with end cap modules consisting of 1x2 head modules with amber coloured polycarbonate lenses to be fitted to the bracket on the cab roof with on/off switch with random flash pattern positioned in the cab.

5.2 One pair of large LED flush mount modules shall be mounted on brackets at the rear chevron board.

5.3 A pair of LED waterproof rubber encased spotlights shall be installed to the headboard facing the rear bin loading area.

5.4 Light switches shall be positioned in the driver's cab and clearly labelled.

6. Hydraulic system

- 6.1 In respect of the hydraulic tank the following shall be required:
- a. To be constructed of steel and mounted clear from all moving parts.
 - b. To be fitted to an accessible side under the truck chassis, low enough that the body height does not impede the maintenance staff or driver of filling oil to tank.
 - c. To be fitted with a bump guard from externalities.
 - d. To be fitted with a front mounted sight glass for visual oil level inspection. Glass should be marked minimum and maximum accordingly with levels of fluid in the tank.
 - e. Must have a filler cap strainer & filter into filler base and filler cap assembly.
 - f. Oil capacity shall be sufficient and a cooler added if necessary.
- 6.2 Must have an inline filter with a blockage indicator fitted onto the pressure side of hydraulic pump, before the tipper / solenoid valve system.
- 6.3 The hydraulic valves shall be grouped together for ease of maintenance.
- 6.4 Test points for testing hydraulic pressures shall be fitted and grouped together.
- 6.5 Where possible steel tubing, which shall be treated with suitable corrosion protection, in lieu of rubber hosing shall be used for hydraulic lines.
- 6.6 All hydraulic fittings shall be wrapped with a petrolatum impregnated tape or sprayed with a petrolatum primer to prevent corrosion.
- 6.7 Hydraulic controls for the operation of the loading/offloading shall be fitted in a user-friendly manner on the passenger side of the vehicle. The outside controls shall be protected by means of an enclosure.
- 6.8 The lever controls shall be manual. All actions will be fully adjustable at variable speeds for the operation of the hydraulics. The controls shall automatically electronically/pneumatically engage the PTO when in use.

7. Power Take Off (PTO)

- 7.1 The close coupled PTO drive assembly shall be approved by the OEM mechanically and electrically for use on the engine and the wiring systems of the vehicle for the engagement of the PTO drive. Any modifications to the vehicle to accommodate the P.T.O. must be approved by the truck manufacturer and not affect the trucks warranty in any way.
- 7.2 The engine and transmission must not be harmed by use of the PTO.
- 7.3 The fitment of the P.T.O. should not negatively impact on the vehicles ground clearance.
- 7.4 Electronic control module and wiring harness which incorporates the "Rev Up Limiter" must be integrated into the existing OEM vehicle using the OEM 24 Volt system.
- 7.5 The PTO must only run when the PTO switch is engaged. The system will not allow the PTO to be engaged if the vehicle is in gear or if the handbrake is not engaged.
- 7.6 The accelerator pedal cannot be used, while the PTO is engaged.
- 7.7 PTO calibration shall be performed after tracking device is installed on the vehicle by eThekwini City Fleet.

8. Metal Preparation and Painting Procedure

The following procedure must be adhered to:

- 8.1 Descale all metal surfaces
- 8.2 Grind down & smooth all rough edges
- 8.3 Thoroughly clean all surfaces
- 8.4 Prime the superstructure body and other components using a two component self-curing inorganic zinc ethyl silicate or two component zinc rich polyamide cured epoxy primer.

8.5 Thereafter paint using premium quality twin pack automotive paint

8.6 Paint film thickness must not be less than 80 microns each. Two primer coats and one colour coat shall be minimum.

9. Colors

Underside of Body	Black
Chassis Cab	White with Cleansing Solid Waste (CSW) branding with white, blue (RAL 5002/Pantone 280C) and green (RAL 6000/Pantone 3278c) stripes across the front of the driver's cab
Superstructure	CSW Blue RAL 5002/Pantone 280C

10. Electrical

All additional electrical circuits (including lighting) are to be suitably fused and must not interfere with or adversely affect the existing electrical system.

- 10.1 Taillight units shall be premium quality equal light unit incorporating 30 LEDs or more of not less than 100 mm in diameter that are screwed into position with a stainless-steel flange. Two sets shall be fitted; one set on/near rear underrun and one set at an elevated height on the hopper.
- 10.2 Rear facing camera shall be installed at the top of the driver's cab. The camera shall have a view of the rear of the vehicle where the skip is located. A separate reversing camera shall also be installed for reversing. Rear facing camera shall remain ON with 7" monitor installed in the driver's cab. Reverse camera shall engage only when reverse gear is engaged.
- 10.3 Battery isolator switch.
- 10.4 Uninterrupted power supply points shall be made available for the vehicle tracking and fuel master monitoring system.
- 10.5 Accommodation and fitment of a two-way communication device (details shall be supplied from eThekweni Municipality).
- 10.6 All exposed electrical wiring looms of the chassis cab and superstructure shall be full encased in a flexible protective metallic conduit and securely clamped with fasteners.

11. Signage and Markings

11.1 Data plates shall be fitted labelling the storage areas and capacity. Safe working loads should be labelled where necessary:

- a) The hydraulic system indicating tank capacity, system pressure, fluid type/grade, hydraulic cylinder specifications and test criteria.
- b) Safe working loads to be clearly labeled on the structure on both sides of the compaction body and hopper.

11.2 Safety, operation, technical data, dates of manufacture, manufacturer's details etc.

11.3 Chevron board to be fitted section above rear underrun bumper and plastic mudguards to the rear wheels both conforming with the appropriate SABS/SANS standard.

11.4 Durable, ultraviolet resistant and weather resistant warning signs shall be provided at all locations of the vehicle that impose a danger to persons.

11.5 Durable, ultraviolet resistant and weather resistant information signs shall be provided in specific locations to assist the driver/maintenance staff with the operation/maintenance of the vehicle.

11.6 Retro-reflective tape shall be fitted to both sides and the rear of the vehicle as well as the rear bumper.

11.7 Registration number to be clearly marked on roof (left to right, 80-90% size of the roof).

11.8 Striping: Green, Blue, Green & White – on L/H/S roof and across the front panel, Grille and bottom valance. Green (58 mm), Blue (72 mm), Green (118 mm), White spacing, 1st White (35 mm), 2nd White (45 mm).

Striping shall run continuously from the left of the cab roof, across the front of the cab and bonnet to end at the right headlight/bumper of the unit.

11.9 Driver's and passenger doors shall have the following 200 x 600 mm decal:



11.10 Hazardous chemical transporting signage to be placed at the sides and rear of the vehicle according to SANS 10232.

12. Miscellaneous items

12.1 Front mud flaps and full rear mudguards constructed from rubber or a durable polymer.

12.2 The batteries to have a well-insulated lockable weather proof cover to prevent debris and moisture ingress.

12.3 Fuel tank, batteries, pneumatic cylinders and hydraulic tank to have shell structures built around them for safety.

12.4 Bolt on covers for safety where parts are rotating, swinging or of high temperature.

12.5 A 4.5 kg fire extinguisher should be supplied and fitted in an accessible position close to the driver when exiting the cab.

12.6 One full spare wheel and one toolkit shall be supplied per vehicle.

12.7 Bolt on head and tail light guards.

12.8 Three sets of keys.

12.9 One pair of heavy duty wheel chocks.

Optional:

12.10 Electrical connector complying to SANS 1327: Electrical connectors for towing and towed vehicles.

12.11 40/50 mm Rockinger type trailer coupling to comply with DIN 74054, ECE R55-01 for on road use installed approx. 600 mm above road level.

12.12 Pneumatic connections complying to SANS 1477-3: Pneumatic braking system connections between drawing and drawn vehicles, Part 3: The arrangement of connections on vehicles, using contact type or palm type couplings.

Item 2.1 to 2.2: 6x4 Hook lift single cab chassis vehicle with a minimum lifting capacity of 20 000kg

1. Scope

The intent of this specification is to provide for a fully operational vehicle, which has the capability to load and offload refuse containers by means of a hook lift mechanism with a minimum lifting capacity of 20 000 kg. The containers are used for the collection of garden refuse and non-compactable commercial waste.

Pre-delivery inspection of the completed vehicle and superstructure will be only deemed complete after used once in field operations and conditions.

The vehicle with the customisation shall be supplied complete and fully assembled in all respects, including standard equipment supplied by the manufacturer and shall comply with the South African Occupational

Health and Safety Act, Act 85 of 1993/as amended and the applicable current Road Traffic Legislation. All work on the vehicle including the customisation is to be constructed by an SABS/SANS approved body/coach/vehicle manufacturer/ builder. The total operating mass of the vehicle and its customisation should not exceed the trucks legal V rating less 1000 kg. The layout should also ensure that the laden individual axle loads do not exceed the legal limits.

The bodywork should be designed to enhance the aesthetics of the vehicle. The vehicle and its customisation must be operationally friendly, easy to operate and maintain. All replaceable items including (but not limited to) critical components shall be designed for easy access, removal and replacement.

The vehicle and its customisation shall be to I.S.O. Metric Standards, and instrumentation gauges, dials, etc. shall be in Systeme International (S.I.) units.

2. Vehicle

- 2.1 The chassis cab/vehicle shall be an application specific (construction recommended) 6x4 cab truck, with a minimum Gross Vehicle Mass (GVM) of 26 000 kg.
- 2.2 Transmission shall be automatic manual transmission (AMT) and fully automatic. Bidder shall provide an option on one or all if offered.
- 2.3 Minimum diesel engine requirements shall be of Euro 3-5 emission level, 250 kW of power and 1 400 Nm of torque.
- 2.4 Minimum wheelbase of not less than 4 500 mm.
- 2.5 Steel suspension.
- 2.6 Fitment of a steel under belly plate to protect the radiator & engine.
- 2.7 Automated tire monitoring/warning system for all wheels only if offered by the OEM. System can be integrated into the media center of the vehicle.
- 2.8 Front shunting type tow hitch to be fitted with a bulbar that does not inhibit operation of it. Bulbar shall be for the full lateral width and follow the contour of the cab/front bumper profile.
- 2.9 ABS brakes is mandatory. Auxiliary breaking to be provided through an integrated retarder operated via the foot brake pedal or through an electronic management system (this will have to be demonstrated before approval).
- 2.10 A fully laden minimum grade ability of 30 % shall be expected. Maximum speed of 80 km/hr.
- 2.11 Rear axles with full hub reduction gearing and differential lock.
- 2.12 Forward tilt hydraulic actuated cab with safety holding mechanism.
- 2.13 To safely and comfortably accommodate driver using an equal levelling suspended type seat. To be fully adjustable.
- 2.14 Rear window of cab shall have a structural frame with 3 mm 3CR12 mesh across the surface area for protection. To be mounted with fasteners (not rivets).
- 2.15 Electric adjustable mirrors.
- 2.16 Driver assist mirrors for front and passenger side of vehicle.
- 2.17 Heater, windscreen demister and air-conditioning system should be adequate for the cab and its occupants.
- 2.18 Bluetooth hands free cellphone multimedia radio and speakers/microphone.
- 2.19 12v charger sockets.
- 2.20 Fuel tank shall be not less than 300 liters with a lockable fuel cap and an anti-siphoning device.
- 2.21 Automated truck fuel filtration management system to remove water and dirt before delivery to the engine. This system shall be in a lockable enclosure (lock to be provided).
- 2.22 Engine protection system/device to be installed monitoring engine temperature, low water level and low engine oil pressure. Monitoring device/system to safely shut down engine when any of these (if not all) are detected.
- 2.23 The vehicle and the customisation shall be designed according to these critical specifications (summary of evidence shall be provided):

- a) SANS 1518 Transport of dangerous goods — Design, construction, testing, approval and maintenance of road vehicles and portable tanks.
- b) SANS 20013 Surface vehicles. This specification covers the braking system of motor vehicles and trailers. Maximum design speed exceeding 35km/h intended for use on public roads.
- c) National Roads Traffic Act with attention to Regulation 240: The carrying capacity of the road.
- d) Lifting system including lifting tackle shall be supplied and certified according to SANS 10388: The Inspection, Testing and Examination of Lifting Trucks.
- a) Chapter 15 covers other specifications/standards that shall be adhered to.

3. Material specification

The load bearing items shall be made from structural steel with chromium content to withstand the payload and corrosive nature of the refuse application. Corten steel is recommended for the superstructure. Whilst Hardox for the wear pads and on the floor.

4. Construction requirements

4.1 Hook lift superstructure

- 4.1.1 A minimum of 6 mm thickness is recommended for the structural members.
- 4.1.2 Maximum container length to be accommodated shall be 6 500 mm.
- 4.1.3 Container shall have no overhang over the chassis.
- 4.1.4 Areas of the floor that shall be used as access walkways shall have a hard wearing, slip resistant material (Vastrap).
- 4.1.5 Access ladder and railings/grabs shall be installed in a suitable position behind the cab and rear/side.
- 4.1.6 The hydraulic cylinders shall be suitable for the application and lift the laden container at the applicable angle to the rear load bed. Maintenance free bushings/bearings shall be used.
- 4.1.7 The main hoist shall incorporate a hook mount system.
- 4.1.8 The jib shall have a safety locking system.
- 4.1.9 The load bearing frame/floor shall have locking systems for the container. There shall be two pairs of mechanical locking plate holders that will keep the container in place in the vertical, longitudinal and lateral direction. Automated locking systems shall be available for the circumference of the container. Bidder should familiarise themselves with CSW/DSW refuse containers.
- 4.1.10 Hooklift mechanism, geometry and safety systems designed and container/skip compliant with DIN 30722.
- 4.1.11 Adjustable lifting arm, main hoist and jib shall have independent hydraulic controls for adjustments to different containers if not standardised.
- 4.1.12 A minimum tipping angle of 40° shall be required.
- 4.1.13 Lateral guides shall be incrementally installed for loading and safety.
- 4.1.14 An optional hydraulically operated durable and robust roll up material which can be deployed and retracted automatically over a container shall be installed for open containers.

4.2 Tool Box

A waterproof toolbox 1 000 x 450 x 450 mm shall be positioned on near side of chassis. Anti-loose fasteners to be used to close lid.

All items in chapter 4 must be thoroughly sealed with an approved sealer to prevent rusting between mating surfaces and drain holes must be provided in areas where water can accumulate. Any floor that persons will use on the body should be coated with a hard wearing, slip resistant material (Vastrap).

5. Lighting

5.1 A waterproof slim line bar light approx. 1200mm in length and 200mm in width to be installed on bracket on the front of the cab without drilling into the roof. Generation 3 type LED consisting of 1 watt, 6x4 modules to the front with end cap modules consisting of 1x2 head modules with amber coloured polycarbonate lenses to be fitted to the bracket on the cab roof with on/off switch with random flash pattern positioned in the cab.

5.2 One pair of large LED flush mount modules shall be mounted on brackets at the rear chevron board.

5.3 A pair of LED waterproof rubber encased spotlights shall be installed to the headboard facing the rear container loading area.

5.4 Light switches shall be positioned in the driver's cab and clearly labelled.

6. Hydraulic system

6.1 In respect of the hydraulic tank the following shall be required:

- a. To be constructed of steel and mounted clear from all moving parts.
- b. To be fitted to an accessible side under the truck chassis, low enough that the body height does not impede the maintenance staff or driver of filling oil to tank.
- c. To be fitted with a bump guard from externalities.
- d. To be fitted with a front mounted sight glass for visual oil level inspection. Glass should be marked minimum and maximum accordingly with levels of fluid in the tank.
- e. Must have a filler cap strainer & filter into filler base and filler cap assembly.
- f. Oil capacity shall be sufficient and an oil cooler added if necessary.

6.2 Must have an inline filter with a blockage indicator fitted onto the pressure side of hydraulic pump, before the solenoid valve system.

6.3 The hydraulic valves shall be grouped together for ease of maintenance.

6.4 Test points for testing hydraulic pressures shall be fitted and grouped together.

6.5 Where possible steel tubing, which shall be treated with suitable corrosion protection, in lieu of rubber hosing shall be used for hydraulic lines.

6.6 All hydraulic fittings shall be wrapped with a petrolatum impregnated tape or sprayed with a petrolatum primer to prevent corrosion.

6.7 Safety hold valves for all cylinders in case of hydraulic failure.

6.8 Hydraulic controls for the operation of the loading/offloading shall be fitted in a user-friendly manner in the driver's cab and at the rear of the operation. The outside controls shall be protected by means of an enclosure.

6.9 The controls shall where possible be manual lever type. All actions will be fully adjustable at variable speeds for the operation of the hydraulics. A plug in, modular type, controls are preferred for ease of maintenance.

6.10 Load cell or load sensing hydraulics shall be incorporated to log and provide a read out of the payload of the refuse container.

7. Power Take Off (PTO)

7.1 The close coupled PTO drive assembly shall be approved by the OEM mechanically and electrically for use on the engine and the wiring systems of the vehicle for the engagement of the PTO drive. Any modifications to the vehicle to accommodate the P.T.O. must be approved by the truck manufacturer and not affect the trucks warranty in any way.

7.2 The engine and transmission must not be harmed by use of the PTO.

7.3 The fitment of the P.T.O. should not negatively impact on the vehicles ground clearance.

7.4 Electronic control module and wiring harness which incorporates the "Rev Up Limiter" must be integrated into the existing OEM vehicle using the OEM 24 Volt system.

- 7.5 The PTO must only run when the PTO switch is engaged. The system will not allow the PTO to be engaged if the vehicle is in gear or if the handbrake is not engaged.
- 7.6 The accelerator pedal cannot be used, while the PTO is engaged.
- 7.7 Hydraulic controls shall have automatic pneumatic/electronic trigger that will engage PTO when in use.
- 7.8 PTO calibration shall be performed after tracking device is installed on the vehicle by eThekweni City Fleet.

8. Metal Preparation and Painting Procedure

The following procedure must be adhered to:

- 5.1 Descale all metal surfaces
- 5.2 Grind down & smooth all rough edges
- 5.3 Thoroughly clean all surfaces
- 5.4 Prime the superstructure and other components using a two component self-curing inorganic zinc ethyl silicate or two component zinc rich polyamide cured epoxy primer.
- 5.5 Thereafter paint using two coats of premium quality twin pack automotive paint
- 8.7 Paint film thickness (color coat) must not be less than 80 microns each. Two primer coats and one colour coat shall be minimum.

9. Colors

Underside of Body	Black
Cab	White with Cleansing Solid Waste (CSW) branding with white, blue (RAL 5002/Pantone 280C) and green (RAL 6000/Pantone 3278c) stripes across the front of the driver's cab
Superstructure	CSW Blue RAL 5002/Pantone 280C

10. Electrical

All additional electrical circuits (including lighting) are to be suitably fused and must not interfere with or adversely affect the existing electrical system.

- 9.1 Taillight units shall be premium quality equal light unit incorporating 30 LEDs or more of not less than 100 mm in diameter that are screwed into position with a stainless-steel flange. Two sets shall be fitted; one set on/near rear underrun and one set at an elevated height on the hopper.
- 9.2 Rear facing camera shall be installed at the top of the driver's cab. The camera shall have a view of the rear of the vehicle where the skip is located. A separate reversing camera shall also be installed for reversing. Rear facing camera shall remain ON with 7" monitor installed in the driver's cab. Reverse camera shall engage only when reverse gear is engaged.
- 9.3 Battery isolator switch.
- 9.4 Uninterrupted power supply points shall be made available for the vehicle tracking and fuel master monitoring system.
- 9.5 Accommodation and fitment of a two-way communication device (details shall be supplied from eThekweni Municipality).
- 9.6 All exposed electrical wiring looms of the chassis cab and superstructure shall be full encased in a flexible protective metallic conduit and securely clamped with fasteners.

11. Signage and Markings

11.1 Data plates shall be fitted labelling the storage areas and capacity. Safe working loads should be labelled where necessary:

- a) The hydraulic system indicating tank capacity, system pressure, fluid type/grade, hydraulic cylinder specifications and test criteria.

b) Safe working loads to be clearly labeled on the structure on both sides of the compression body and hopper.

11.2 Safety, operation, technical data, dates of manufacture, manufacturer's details etc.

11.3 Chevron board to be fitted section above rear underrun bumper and plastic mudguards to the rear wheels both conforming with the appropriate SABS/SANS standard.

11.4 Durable, ultraviolet resistant and weather resistant warning signs shall be provided at all locations of the vehicle that impose a danger to persons.

11.5 Durable, ultraviolet resistant and weather resistant information signs shall be provided in specific locations to assist the driver/maintenance staff with the operation/maintenance of the vehicle.

11.6 Retro-reflective tape shall be fitted to both sides and the rear of the vehicle as well as the rear bumper.

11.7 Registration number to be clearly marked on roof (left to right, 80-90% size of the roof).

11.8 Striping: Green, Blue, Green & White – on L/H/S roof and across the front panel, Grille and bottom valance. Green (58 mm), Blue (72 mm), Green (118 mm), White spacing, 1st White (35 mm), 2nd White (45 mm).

Striping shall run continuously from the left of the cab roof, across the front of the cab and bonnet to end at the right headlight/bumper of the unit.

11.9 Driver's and passenger doors shall have the following 200 x 600 mm decal:



12. Miscellaneous items

12.1 Front mud flaps and full rear mudguards constructed from rubber or a durable polymer.

12.2 The batteries to have a well-insulated weather proof cover to prevent debris and moisture ingress.

12.3 Fuel tank, batteries, pneumatic cylinders and hydraulic tank to have shelled structures built around them for safety.

12.4 Bolt on covers for safety where parts are rotating, swinging or of high temperature.

12.5 A 4.5 kg fire extinguisher should be supplied and fitted in an accessible position close to the driver when exiting the cab.

12.6 One complete spare wheel and one set of emergency changing tools shall be supplied per vehicle.

12.7 Bolt on head and tail light guards.

12.8 Three sets of keys.

12.9 A pair of heavy duty wheel chocks.

Optional:

12.10 Electrical connector complying to SANS 1327: Electrical connectors for towing and towed vehicles.

12.11 40/50 mm Rockinger type trailer coupling to comply with DIN 74054, ECE R55-01 for on road use installed approx. 800 mm above road level.

12.12 Pneumatic connections complying to SANS 1477-3: Pneumatic braking system connections between drawing and drawn vehicles, Part 3: The arrangement of connections on vehicles, using contact type or palm type couplings.

Item 3.1 to 3.2: 8x4 Hook lift single cab chassis vehicle with a minimum lifting capacity of 25,000kg

1.Scope

The intent of this specification is to provide for a fully operational vehicle, which has the capability to load and offload refuse containers by means of a hook lift mechanism with a minimum lifting capacity of 25,000kg. The containers are used for the collection of garden refuse and non-compactable commercial waste.

Pre-delivery inspection of the completed vehicle and superstructure will be only deemed complete after used once in field operations and conditions.

The vehicle with the customisation shall be supplied complete and fully assembled in all respects, including standard equipment supplied by the manufacturer and shall comply with the South African Occupational Health and Safety Act, Act 85 of 1993/as amended and the applicable current Road Traffic Legislation. All work on the vehicle including the customisation is to be constructed by an SABS/SANS approved body/coach/vehicle manufacturer/ builder. The total operating mass of the vehicle and its customisation should not exceed the trucks legal V rating less 1000 kg. The layout should also ensure that the laden individual axle loads do not exceed the legal limits.

The bodywork should be designed to enhance the aesthetics of the vehicle. The vehicle and its customisation must be operationally friendly, easy to operate and maintain. All replaceable items including (but not limited to) critical components shall be designed for easy access, removal and replacement.

The vehicle and its customisation shall be to I.S.O. Metric Standards, and instrumentation gauges, dials, etc. shall be in Systeme International (S.I.) units.

2. Vehicle

- 2.1 The chassis cab/vehicle shall be an application specific (construction recommended) 8x4 cab truck, with a minimum Gross Vehicle Mass (GVM) of 28 000 kg and Gross Combination Mass (GCM) of 59 000 kg..
- 2.2 Transmission shall be automatic manual transmission (AMT) and fully automatic. Bidder shall provide an option on one or all if offered.
- 2.3 Minimum diesel engine requirements shall be of Euro 3-5 emission level, 370 kW of power and 1 700 Nm of torque.
- 2.4 Minimum wheelbase of not less than 6 000 mm.
- 2.5 Steel suspension.
- 2.6 Fitment of a steel under belly plate to protect the radiator & engine.
- 2.7 Automated tire monitoring/warning system for all wheels only if offered by the OEM. System can be integrated into the media center of the vehicle.
- 2.8 Front shunting type tow hitch to be fitted with a bulbar that does not inhibit operation of it. Bulbar shall be for the full lateral width and follow the contour of the cab/front bumper profile.
- 2.9 ABS brakes is mandatory. Auxiliary breaking to be provided through an integrated retarder operated via the foot brake pedal or through an electronic management system (this will have to be demonstrated before approval).
- 2.10 A fully laden minimum grade ability of 30 % shall be expected. Maximum speed of 80 km/hr.
- 2.11 Rear axles with full hub reduction gearing and differential lock.
- 2.12 Forward tilt hydraulic actuated cab with safety holding mechanism.
- 2.13 To safely and comfortably accommodate driver using an equal levelling suspended type seat. To be fully adjustable.
- 2.14 Rear window of cab shall have a structural frame with 3 mm 3CR12 mesh across the surface area for protection. To be mounted with fasteners (not rivets).
- 2.15 Electric adjustable mirrors.

- 2.16 Driver assist mirrors for front and passenger side of vehicle.
- 2.17 Heater, windscreen demister and air-conditioning system should be adequate for the cab and its occupants.
- 2.18 Bluetooth hands free cellphone multimedia radio and speakers/microphone.
- 2.19 12v charger sockets.
- 2.20 Fuel tank shall be not less than 500 liters with a lockable fuel cap and an anti-siphoning device.
- 2.21 Automated truck fuel filtration management system to remove water and dirt before delivery to the engine. This system shall be in a lockable enclosure (lock to be provided).
- 2.22 Engine protection system/device to be installed monitoring engine temperature, low water level and low engine oil pressure. Monitoring device/system to safely shut down engine when any of these (if not all) are detected.
- 2.23 The vehicle and the customisation shall be designed according to these critical specifications (summary of evidence shall be provided):
 - a) SANS 1518 Transport of dangerous goods — Design, construction, testing, approval and maintenance of road vehicles and portable tanks.
 - b) SANS 20013 Surface vehicles. This specification covers the braking system of motor vehicles and trailers. Maximum design speed exceeding 35km/h intended for use on public roads.
 - c) National Roads Traffic Act with attention to Regulation 240: The carrying capacity of the road.
 - d) Lifting system including lifting tackle shall be supplied and certified according to SANS 10388: The Inspection, Testing and Examination of Lifting Trucks.
 - e) Chapter 15 covers other specifications/standards that shall be adhered to.

3. Material specification

The load bearing items shall be made from structural steel with chromium content to withstand the payload and corrosive nature of the refuse application. Corten steel is recommended for the superstructure. Whilst Hardox for the wear pads and on the floor.

4. Construction requirements

4.1 Hook lift superstructure

- 4.1.1 A minimum of 6 mm thickness is recommended for the structural members.
- 4.1.2 Maximum container length to be accommodated shall be 6 500 mm.
- 4.1.3 Container shall have no overhang over the chassis.
- 4.1.4 Areas of the floor that shall be used as access walkways shall have a hard wearing, slip resistant material (Vastrap).
- 4.1.5 Floor of the hook lift system shall be a tilting frame type for maximum angle articulation when lifting from the ground.
- 4.1.6 Access ladder and railings/grabs shall be installed in a suitable position behind the cab and rear/side.
- 4.1.7 The hydraulic cylinders shall be suitable for the application and lift the laden container at the applicable angle to the rear load bed. Maintenance free bushings/bearings shall be used.
- 4.1.8 The main hoist shall incorporate a hook mount system.
- 4.1.9 The jib shall have a safety locking system.
- 4.1.10 The load bearing frame/floor shall have locking systems for the container. There shall be two pairs of mechanical locking plate holders that will keep the container in place in the vertical, longitudinal and lateral direction. Automated locking systems shall be available for the circumference of the container. Bidder should familiarise themselves with CSW/DSW refuse containers.
- 4.1.11 Hooklift mechanism, geometry and safety systems designed and container/skip compliant with DIN 30722.
- 4.1.12 Adjustable lifting arm, main hoist and jib shall have independent hydraulic controls for adjustments to different containers if not standardised.

- 4.1.13 A minimum tipping angle of 50° shall be required.
- 4.1.14 Lateral guides shall be incrementally installed for loading and safety.
- 4.1.15 An optional hydraulically operated durable and robust roll up material which can be deployed and retracted automatically over a container shall be installed for open containers.

4.2 Tool Box

A waterproof toolbox 1 000 x 450 x 450 mm shall be positioned on near side of chassis. Anti-loose fasteners to be used to close lid.

All items in chapter 4 must be thoroughly sealed with an approved sealer to prevent rusting between mating surfaces and drain holes must be provided in areas where water can accumulate. Any floor that persons will use on the body should be coated with a hard wearing, slip resistant material (Vastap).

5. Lighting

5.1 A waterproof slim line bar light approx. 1200mm in length and 200mm in width to be installed on bracket on the front of the cab without drilling into the roof. Generation 3 type LED consisting of 1 watt, 6x4 modules to the front with end cap modules consisting of 1x2 head modules with amber coloured polycarbonate lenses to be fitted to the bracket on the cab roof with on/off switch with random flash pattern positioned in the cab.

5.2 One pair of large LED flush mount modules shall be mounted on brackets at the rear chevron board.

5.3 A pair of LED waterproof rubber encased spotlights shall be installed to the headboard facing the rear container loading area.

5.4 Light switches shall be positioned in the driver's cab and clearly labelled.

6. Hydraulic system

6.1 In respect of the hydraulic tank the following shall be required:

- g. To be constructed of steel and mounted clear from all moving parts.
- h. To be fitted to an accessible side under the truck chassis, low enough that the body height does not impede the maintenance staff or driver of filling oil to tank.
- i. To be fitted with a bump guard from externalities.
- j. To be fitted with a front mounted sight glass for visual oil level inspection. Glass should be marked minimum and maximum accordingly with levels of fluid in the tank.
- k. Must have a filler cap strainer & filter into filler base and filler cap assembly.
- l. Oil capacity shall be sufficient and an oil cooler added if necessary.

6.2 Must have an inline filter with a blockage indicator fitted onto the pressure side of hydraulic pump, before the solenoid valve system.

6.3 The hydraulic valves shall be grouped together for ease of maintenance.

6.4 Test points for testing hydraulic pressures shall be fitted and grouped together.

6.5 Where possible steel tubing, which shall be treated with suitable corrosion protection, in lieu of rubber hosing shall be used for hydraulic lines.

6.6 All hydraulic fittings shall be wrapped with a petrolatum impregnated tape or sprayed with a petrolatum primer to prevent corrosion.

6.7 Safety hold valves for all cylinders in case of hydraulic failure.

6.8 Hydraulic controls for the operation of the loading/offloading shall be fitted in a user-friendly manner in the driver's cab and at the rear of the operation. The outside controls shall be protected by means of an enclosure.

6.9 The controls shall where possible be manual lever type. All actions will be fully adjustable at variable speeds for the operation of the hydraulics. A plug in, modular type, controls are preferred for ease of maintenance.

- 6.10 Load cell or load sensing hydraulics shall be incorporated to log and provide a read out of the payload of the refuse container.

7. Power Take Off (PTO)

- 7.1 The close coupled PTO drive assembly shall be approved by the OEM mechanically and electrically for use on the engine and the wiring systems of the vehicle for the engagement of the PTO drive. Any modifications to the vehicle to accommodate the P.T.O. must be approved by the truck manufacturer and not affect the trucks warranty in any way.
- 7.2 The engine and transmission must not be harmed by use of the PTO.
- 7.3 The fitment of the P.T.O. should not negatively impact on the vehicles ground clearance.
- 7.4 Electronic control module and wiring harness which incorporates the “Rev Up Limiter” must be integrated into the existing OEM vehicle using the OEM 24 Volt system.
- 7.5 The PTO must only run when the PTO switch is engaged. The system will not allow the PTO to be engaged if the vehicle is in gear or if the handbrake is not engaged.
- 7.6 The accelerator pedal cannot be used, while the PTO is engaged.
- 7.7 Hydraulic controls shall have automatic pneumatic/electronic trigger that will engage PTO when in use.
- 7.8 PTO calibration shall be performed after tracking device is installed on the vehicle by eThekweni City Fleet.

8. Metal Preparation and Painting Procedure

The following procedure must be adhered to:

- 8.1 Descale all metal surfaces
- 8.2 Grind down & smooth all rough edges
- 8.3 Thoroughly clean all surfaces
- 8.4 Prime the superstructure and other components using a two component self-curing inorganic zinc ethyl silicate or two component zinc rich polyamide cured epoxy primer.
- 8.5 Thereafter paint using two coats of premium quality twin pack automotive paint
- 8.8 Paint film thickness (color coat) must not be less than 80 microns each. Two primer coats and one colour coat shall be minimum.

9. Colors

10.	Underside of Body	Black
	Cab	White with Cleansing Solid Waste (CSW) branding with white, blue (RAL 5002/Pantone 280C) and green (RAL 6000/Pantone 3278c) stripes across the front of the driver's cab
	Superstructure	CSW Blue RAL 5002/Pantone 280C

Electrical

All additional electrical circuits (including lighting) are to be suitably fused and must not interfere with or adversely affect the existing electrical system.

- 9.1 Taillight units shall be premium quality equal light unit incorporating 30 LEDs or more of not less than 100 mm in diameter that are screwed into position with a stainless-steel flange. Two sets shall be fitted; one set on/near rear underrun and one set at an elevated height on the hopper.
- 9.2 Rear facing camera shall be installed at the top of the driver's cab. The camera shall have a view of the rear of the vehicle where the skip is located. A separate reversing camera shall also be installed for reversing. Rear facing camera shall remain ON with 7" monitor installed in the driver's cab. Reverse camera shall engage only when reverse gear is engaged.
- 9.3 Battery isolator switch.
- 9.4 Uninterrupted power supply points shall be made available for the vehicle tracking and fuel master monitoring system.

9.5 Accommodation and fitment of a two-way communication device (details shall be supplied from eThekweni Municipality).

9.6 All exposed electrical wiring looms of the chassis cab and superstructure shall be full encased in a flexible protective metallic conduit and securely clamped with fasteners.

11. Signage and Markings

11.1 Data plates shall be fitted labelling the storage areas and capacity. Safe working loads should be labelled where necessary:

a) The hydraulic system indicating tank capacity, system pressure, fluid type/grade, hydraulic cylinder specifications and test criteria.

b) Safe working loads to be clearly labeled on the structure on both sides of the compression body and hopper.

11.2 Safety, operation, technical data, dates of manufacture, manufacturer's details etc.

11.3 Chevron board to be fitted section above rear underrun bumper and plastic mudguards to the rear wheels both conforming with the appropriate SABS/SANS standard.

11.4 Durable, ultraviolet resistant and weather resistant warning signs shall be provided at all locations of the vehicle that impose a danger to persons.

11.5 Durable, ultraviolet resistant and weather resistant information signs shall be provided in specific locations to assist the driver/maintenance staff with the operation/maintenance of the vehicle.

11.6 Retro-reflective tape shall be fitted to both sides and the rear of the vehicle as well as the rear bumper.

11.7 Registration number to be clearly marked on roof (left to right, 80-90% size of the roof).

11.8 Striping: Green, Blue, Green & White – on L/H/S roof and across the front panel, Grille and bottom valance. Green (58 mm), Blue (72 mm), Green (118 mm), White spacing, 1st White (35 mm), 2nd White (45 mm).

Striping shall run continuously from the left of the cab roof, across the front of the cab and bonnet to end at the right headlight/bumper of the unit.

11.9 Driver's and passenger doors shall have the following 200 x 600 mm decal:



12. Miscellaneous items

12.1 Front mud flaps and full rear mudguards constructed from rubber or a durable polymer.

12.2 The batteries to have a well-insulated weather proof cover to prevent debris and moisture ingress.

12.3 Fuel tank, batteries, pneumatic cylinders and hydraulic tank to have shelled structures built around them for safety.

12.4 Bolt on covers for safety where parts are rotating, swinging or of high temperature.

12.5 A 4.5 kg fire extinguisher should be supplied and fitted in an accessible position close to the driver when exiting the cab.

12.6 One complete spare wheel and one set of emergency changing tools shall be supplied per vehicle.

12.7 Bolt on head and tail light guards.

12.8 Three sets of keys.

12.9 A pair of heavy duty wheel chocks.

12.10 Electrical connector complying to SANS 1327: Electrical connectors for towing and towed vehicles.

12.11 40 mm Rockinger type trailer coupling to comply with DIN 74054, ECE R55-01 for on road use installed approx. 800 mm above road level. Optional: 50 mm Rockinger type trailer coupling to comply with DIN 74054, ECE R55-01 for on road use installed approx. 800 mm above road level

12.12 Pneumatic connections complying to SANS 1477-3: Pneumatic braking system connections between drawing and drawn vehicles, Part 3: The arrangement of connections on vehicles, using contact type or palm type couplings.

Item 4.1 and 4.2: Technical specification for a 4X2 Single Cab mobile resource center vehicle

1. Scope

This specification is for a completely customized commercial vehicle that is a mobile resources center. The superstructure shall be fully enclosed with solid sides and an actuated passenger side opening platform stage. There shall also be a rear door entrance. It will primarily be used for community shows and corporate speeches for a period of up to 6-8 hours to an audience of approx. 2000 persons. Furthermore, multimedia equipment and systems including monitor screens, audio and video equipment and power systems shall be installed into the vehicle.

2. Vehicle

- 2.1 The chassis cab/vehicle shall be an application specific 4x2 single cab truck, with a minimum Gross Vehicle Mass (GVM) of 13 500 kg.
- 2.2 Transmission shall be automatic manual transmission (AMT) and/or fully automatic. Bidder shall provide an option on one or all if offered.
- 2.3 Minimum diesel engine requirements shall be of Euro 3-5 emission level, 150 kW of power and 650 Nm of torque.
- 2.4 Minimum wheelbase of not less than 6 000 mm.
- 2.5 Steel suspension.
- 2.6 Fitment of a steel under belly plate to protect the radiator & engine.
- 2.7 Automated tire monitoring/warning system for all wheels only if offered by the OEM. System can be integrated into the media center of the vehicle.
- 2.8 Front shunting type tow hitch to be fitted with a bulbar that does not inhibit operation of it. Bulbar shall be for the full lateral width and follow the contour of the cab/front bumper profile.
- 2.9 ABS brakes is mandatory. Auxiliary breaking to be provided through an integrated retarder operated via the foot brake pedal or through an electronic management system (this will have to be demonstrated before approval).
- 2.10 A fully laden minimum grade ability of 30 % shall be expected. Maximum speed of 80 km/hr.
- 2.11 Forward tilt hydraulic actuated cab with safety holding mechanism.
- 2.12 To safely and comfortably accommodate driver using an equal levelling suspended type seat. To be fully adjustable.
- 2.13 Rear window of cab shall have a structural frame with 3 mm 3CR12 mesh across the surface area for protection. To be mounted with fasteners (not rivets).
- 2.14 Electric adjustable mirrors.
- 2.15 Driver assist mirrors for front and passenger side of vehicle.
- 2.16 Heater, windscreen demister and air-conditioning system should be adequate for the cab and its occupants.
- 2.17 Bluetooth hands free cellphone multimedia radio and speakers/microphone.
- 2.18 12v charger sockets.
- 2.19 The vehicle and the customisation shall be designed according to these critical specifications (summary of evidence shall be provided):

- a. SANS 20013 Surface vehicles. This specification covers the braking system of motor vehicles and trailers. Maximum design speed exceeding 35km/h intended for use on public roads.
- b. The end of Section 7 covers other specifications/standards that shall be adhered to.

3. Major/Overall dimensions of body:

Description	Dimensions (mm)
Body length	Full length of subframe 6 500 to 7 500
Width	2 500
Sides	Solid enclosed body
Rear	Full length rear door 2 000
Total height to roof	4 000

4. Material specification

The superstructure frame shall be constructed of corrosion resistant structural steel (Corten, Domex, 3CR12 or similar/better is recommended). The body panels shall be insulated type have a metallic finish like aluminum or chromadek. All joins of the paneling shall have proprietary fasteners and/or tongue and groove fits. Minimum thickness shall be sufficient for the payload with safety factors for the design.

5. Construction requirements

5.1 Chassis mounting

All mounting to be in accordance with directives specified by the Original Equipment Manufacturer. The sub frame shall extend the full body length.

5.2 Superstructure

5.2.1 The rear superstructure shall encase the entire chassis and the vehicles subsystems like fuel tank, pneumatics, batteries etc. Access to these subsystems shall be made via lockable waterproof outside hinged doors with an EPDM seal. Mechanical hinged locking systems shall be installed to hold these doors in the fully opened position. Container door stainless steel locks shall be fit.

5.2.2 The rear entry door shall have a slide out stair case mounted and shall have safety railings at either side of the body. Galvanised full length container door lock with a heavy-duty case-hardened lock to be included.

5.2.3 On the driver's side of the body there shall be a low noise generator (75 dB or better) with an electronic ignition and minimum capacity of 7.5kVA. It shall be mounted such that the generator can be removed for maintenance and be easily refuellable. Enclosure shall be louvered allow heat dissipation and to deflect water ingress. Access to the generator shall be made via a lockable waterproof outside hinged door with an EPDM seal. Mechanical hinged locking systems shall be installed to hold these doors in the fully opened position. Container door stainless steel lock shall be fit.

5.2.4 The passenger side of the body shall be made of a single large opening. Two slimline lockers on either side shall house the speaker array and there shall be a protective removable panel mesh on the front.

5.2.5 drop-down stage shall be the entire longitudinal length as far as possible. There shall be sufficient legs underneath to hold the stage sturdily in place. Legs shall have rubber feet to cope with uneven terrain. The top of the stage shall be seamless and smooth. The retracting system for the stage shall have a minimal footprint and be space efficient.

5.2.6 Two staircases shall be manufactured for access to the stage from either side. Demountable hand railings for the stage and for the stage shall be included.

5.3 Interior of the superstructure

- 5.3.1 There shall be a custom manufactured workstation specific to the equipment being supplied. The top tier of this workstation shall have a cover that encloses the equipment. Other tiers shall have roller doors. The workstation shall be the full longitudinal length and shall be at a user-friendly height.
- 5.3.2 Storage lockers shall also be incorporated to store media and other AV equipment.
- 5.3.3 Four-fold out chairs and one table shall be included.
- 5.3.4 A 60 liter 12/24V operated fridge large enough for beverages to be installed.
- 5.3.5 The roof shall have a slide out panel on electrical telescopic actuators to act as an awning for the stage. It shall be full length and width of the roof.

5.4 Audio Video equipment

5.4.1 Supply and fitment of distribution board with surge arrest circuit breakers and line filter for all power points. Network set up for TV, computers and sound system. Supply and fit 220 volt plug points as required for the safe operation of the audio/visual equipment listed below and additional plug points as stipulated by Municipal representative.

5.4.2 Supply and fit two monitor/television screens that are compatible to the audio/visual equipment specified below. The service provider must ensure that the television sets are fitted in manner that renders the installation water proof and it can withstand the rigours of road transport.

- A) The 55 inch screens shall be fitted on the passenger side on either side of the stage above the speaker lockers.

5.4.3 There shall be two premium maintenance free 55Ah deep cycle batteries mounted in a compartment with suitable ventilation. A 12/24V DC input, 220-230 V AC output inverter with a capacity of 3 000 W with a surge double the capacity shall be supplied. South African plug receptacle 15-20A output. The inverter is expected to supply the workstation av equipment and screens. The generator shall be used for the main active speakers and lighting.

5.4.4 There shall be solar panels on the roof of the superstructure with a regulator to charge the batteries in 5.4.3. The generator should also be available to supply a charge to the batteries to charge them when in use.

5.4.5 Supply and fitment of Sound system that is suitable for live broadcast and Road shows that is normally attended by + - 2000 community members, as per specifications below:

Equipment Type	Equipment Specification	Equipment Quantity
Speakers	JBL PRX825 active Loudspeaker or equivalent full range system	2
Microphone Receiver	Beyerdynamic – Rack Mount Receiver or equivalent, Capable of handling 2 wireless handheld microphones and 5 x wireless microphones	1
Wireless Microphone	BeyerdynamicTG500 – Wireless Handheld Microphone or equivalent	2

Wireless Neck worn Microphone	Beyerdynamic neck worn wireless microphone or equivalent	5
Handheld Microphone	Beyerdynamic TGV50D – Handheld Microphone or equivalent	2
Microphone Stand	GST 500 5/8" Microphone stand or equivalent	2
Mixer	Allen & Heath ZED 16FX 10 mic/ 1 line Mixer or equivalent	1
Matrix Switcher	Alfatron MUH44A-N 4x4 HDMI Matrix or equivalent	1
Audio De-embedder	Alfatron CHAk2 Audio De-embedder or equivalent	1
Laptop (minimum 15" screen)	This will serve also as a multimedia player capable of playing DVD's, USB devices, SD Cards and compatible to components in the av system. Shall have an adequate solid-state drive with latest Microsoft windows and office and a secondary hard drive of minimum 1TB such that presentations, videos and pictures can be displayed through the screens. Videos and music shall also be able to play through the screens and main audio system simultaneously. Multi file playback including mkv, avi and other high-resolution formats. WIFI enabled and must be able to configure the JBL speaker settings and DSP with the software preloaded. DVD/Blu-ray drive can be external mounted. Minimum of four usb interfaces which can be external mounted as a hub. Mouse and charger to be included.	1
Network Cabinet	For the Secure Mounting and capsulation of components listed above	1
PTZ dome camera with DVR	Full High definition 1080p, minimum of 2MP and zoom of 12X. Low light compatible and should be water resistant. DVR capability via a standalone system or laptop above with a hard drive that can record and save multiple 6-8-hour video and audio streams. Camera to be mounted on the retractable roof.	1
Cables/ Wiring, Plugs & Adaptors	All power and av cables with fittings terminated shall be supplied for all components as per manufacturers requirements. All wiring shall be trunked throughout the interior of the superstructure.	As Required
Mounting Brackets	Where necessary the bidder shall be required to fabricate and install mounting brackets for the installation of components as per operational	As required

	requirement. Material shall be minimum galvanised if not corrosion resistant with chromium and shall be powder coated.	
Fasteners	All Nuts, Bolts, Screws and fasteners must be stainless steel.	As Required

All items in chapter 5 must be thoroughly sealed with an approved sealer to prevent rusting between mating surfaces and drain holes must be provided in areas where water can accumulate. Any floor including the stage that persons will use on the body should be coated with a hard wearing, slip resistant material (Vastap). All lockers, storage areas and work areas that may house or be used for equipment shall be lined with a non slip insertion rubber.

6. Colors

Underside of Body	Black
Chassis Cab	White with Cleansing Solid Waste (CSW) branding with white, blue (RAL 5002/Pantone 280C) and green (RAL 6000/Pantone 3278c) stripes across the front of the driver's cab
Superstructure	White with custom branding on the entire superstructure. User department will provide the theme for the vehicle at time of order.

7. Electrical

- 7.1 Existing taillight units to be replaced with premium quality equal light unit incorporating 30 LEDs or more approx. 100mm in diameter that are screwed into position with a stainless-steel flange.
- 7.2 Reverse buzzer and camera when reverse gear is engaged.
- 7.3 Four LED amber 3 watt cluster strobe lights with random flashing pattern shall be installed on top of the superstructure (one pair on rear end of the body and one pair on the front end). Each shall be placed in the extreme point of the corner.
- 7.4 Uninterrupted power supply points shall be made available for the vehicle tracking and fuel master monitoring system.
- 7.5 Scene lighting to be supplied all around the body. The lighting shall be hooded to focus and illuminate the stage and the surroundings of the vehicle. Minimum of six (6) LED lights shall be installed.
- 7.6 Interior of the superstructure shall have LED strip lights. One to be mounted directly over the workstation. One to illuminate the rear entrance. Lockers shall also be illuminated.
- 7.7 All exposed electrical wiring looms of the chassis cab and superstructure shall be fully encased in a flexible protective metallic conduit and securely clamped with fasteners.

8. Signage and Markings

8.1 Data plates shall be fitted for:

- a) The hydraulic/pneumatic/electrical system indicating tank capacity, system pressure, fluid type/grade, hydraulic cylinder specifications and test criteria.
- b) Safety, operation, technical data, dates of manufacture, manufacturer's details etc.
- c) Safe working load (SWL) of stage shall be clearly labelled on both sides of the body and on the stage itself.

8.2 Durable, ultraviolet resistant and weather resistant warning signs shall be provided at all locations of the vehicle that impose a danger to persons.

8.3 Chevron board and durable, ultraviolet resistant and weather resistant information signs shall be provided in specific locations to assist the driver/maintenance staff with the operation/maintenance of the superstructure/vehicle.

8.4 Retro-reflective tape shall be fitted to both sides and the rear of the tip- body as well as the rear bumper and the items in chapter 5 that make up the perimeter of the superstructure/vehicle.

8.5 Registration number to be clearly marked on roof (left to right, 80-90% size of the roof).

12. Maintenance

The vehicle and equipment must be supplied with detailed maintenance, operating, training and spares manuals (in English), including technical data for each spare, as well as general arrangement drawings and a bill of materials. There must be sufficient information to allow the capture of maintenance schedules in terms of inspections, servicing and replacement of parts. Three hardcopies and three electronic copies of the operating, maintenance, training and spare parts manuals shall be provided, as well as a training manual for each trainee (operator, driver and maintenance staff). The av equipment training shall be fully comprehensive and be given to five participants on site.

13. Miscellaneous items

13.1 Front mud flaps and full rear mudguards constructed from rubber or a durable polymer.

13.2 Bolt on covers for safety where parts are rotating, swinging or of high temperature.

13.3 Two 4.5 kg fire extinguishers should be supplied and fitted. One in an accessible position close to the driver when exiting the cab and the other inside the superstructure.

13.4 Bolt on head and tail light guards.

13.5 Rear underrun according to SANS 1055

13.6 Jerry can mounted in a safe position for refuelling of the generator.

13.7 Pair of heavy duty wheel chocks.

Item 5.1, 5.2, 5.3 and 5.4: Technical specification for a 4X2 Single/Crew Cab high pressure street cleaning vehicle

1.Scope

The intent of this specification is to provide for a fully operational combination dual water jetting vehicle to clean streets and other structures. The water supply to the pump will come from the vehicle's water tank.

2. Vehicle

- 2.1 The chassis/body shall be a 4x2 single/crew cab truck with a minimum Gross Vehicle Mass (GVM) of 13 500 kg. Bidder shall provide a bid on either/both if offered.

- 2.2 Transmission shall be either Automatic manual transmission or fully automatic. Bidder shall provide a bid on either/both if offered.
- 2.3 Minimum diesel engine requirements shall be Euro 3 to 5, 155 kW of power and 600 Nm of torque.
- 2.4 A fully laden minimum grade ability of 30 % shall be expected. Maximum speed of not less than 80 km/hr.
- 2.5 Minimum wheelbase of 4 000 mm.
- 2.6 ABS brakes are mandatory. Retarder option if offered.
- 2.7 Forward tilt cab with safety holding mechanism.
- 2.8 Access steps (non rigid design to still allow maximum ride height) and grab handles to all doors shall be low enough to cater for all employees.
- 2.9 To safely and comfortably accommodate a driver and at least five passengers.
- 2.10 Heater, windscreen demister and air-conditioning system should be adequate for the cab and its occupants.
- 2.11 Bluetooth Radio and speakers (with handsfree cellphone capability), 12v cigarette lighter/charger sockets.
- 2.12 Wireless/Bluetooth tyre pressure monitoring system.
- 2.13 Front nudge bar for the width of the vehicle and rear underrun shall be installed.

2.12 The vehicle and the customization shall be designed according to these critical specifications (summary of evidence shall be provided):

- a) SANS 1518 Transport of dangerous goods — Design, construction, testing, approval and maintenance of road vehicles and portable tanks.
- b) SANS 20013 Surface vehicles. This specification covers the braking system of motor vehicles and trailers. Maximum design speed exceeding 35km/h intended for use on public roads.
- c) At the end Section 7 other specifications/standards are covered that will be adhered to.

3. Material specification

The tank and tank ends shall be made out 3CR12 steel with a minimum thickness of 4.5 mm.

4. Construction requirements

4.1 Tank

- 4.1.1 A minimum 5000 litre baffled water tank for crew chassis cabs and 6000 litre baffled water tank for single chassis cabs designed to withstand the additional rigours of road transport is required.
- 4.1.2 The tank's mounting shall be so designed to eliminate any vehicle chassis flex being transmitted to the tank. Preferably rubber block type to allow for movement when negotiating rough road
- 4.1.3 The following should be incorporated;
 - a) A large manhole with a hinged cover approximately 450 mm diameter at the rear of the tank.
 - b) Access ladder with steps constructed from non-slip tread plate to be positioned adjacent to manhole from the rear platform.
 - a) Suitable ventilation to ensure that there is an uninterrupted supply to the pump.
 - b) Walk way mounted platform at rear to suit equipment.
 - c) Tank over flow, draining to the left hand side of the vehicle.
 - d) Sight glass to view tank contents.
 - e) Tank level indicator with increments marked from empty to full.
 - f) Provision to fill the tank on the left hand side from a hydrant. A two stage water level alarm system shall be installed to protect the pump. The first stage should initiate an audible alarm and the second stage should deactivate the pump.

- g) Option of warm water cleaning via exhaust heat transfer or powered heat exchanger to the water main water tank.

All tanks shall be expected to be nondestructive tested, 10x x-ray, water fill and pressure tested.

4.2 Cleaning System and Hose reels

4.2.1 Water from the high pressure pump must be fed to a pair of easily accessible hose reels mounted at the rear platform. The hose reel should be mounted on a rotating platform allowing at least a 30° rotation laterally. For a crew cab chassis cab there shall be four hose reels for the superstructure.

4.2.2 The hose reel must have a suitable method of locking it in position or in the left or right 30° position as well as the transport position.

4.2.3 The hose reel must be fitted with a suitable rotary joint to reel back up and operate freely in both directions.

4.2.4 The hose reel must be capable of holding 40 m of 25 mm high pressure hose and be supplied with 30 m of suitable urethane covered reinforced hose. A spray gun and pressure cleaning broom shall be supplied for each hose reel.

4.2.5 There shall be valves at the rear, to operate the water supply per hose reel and to supply all.

4.2.6 There shall be a concentration tank of approx. 100 litres that can allow cleaning agents to be fed into the hoses at 4.2.5 with a coupling valve. This shall be incorporated with no backward flow into the main water tank.

4.4 Tool Boxes

4.4.1 The unit shall have a suitable lockable toolbox mounted on the passenger side of the vehicle which can store the spray guns and pressure cleaning brooms for the superstructure with other miscellaneous items.

4.5 Road Cones and Portable Signs

Provision must be made to safely secure large road cones and typically used 900 mm road signage within the body. Eight road cones to be supplied per vehicle.

4.6 Controls

All controls for the operation of the machine shall be fitted to an illuminated, lockable, water resistant control panel on the left side of the engine. The design shall be such that the operator will be able to operate the unit whilst standing in front of the control panel.

The unit must have the following controls as a minimum:

- a) Water pressure gauge (Mounted externally)
- b) Light switches
- c) Water level gauge
- d) Engine start/stop, fuel level, oil level and pressure, coolant temperature and variable speed control with read out.
- e) Low level water alarm that sounds when the water reaches the 500 litres level with a relay to switch off the alarm after 30 seconds and automatically resets itself when tank is filled.
- f) A low level cut out device that disengages the high pressure pump when the water in the tank reaches 200 litres and automatically resets itself when the tank is filled.

All functions must be clearly marked. Control panel shall have a lock-out feature to protect against unwarranted use.

All items in chapter 4 must be thoroughly sealed with an approved sealer to prevent rusting between mating surfaces and drain holes must be provided in areas where water can accumulate. Any floor that persons will use on the body should be coated with a hard wearing, slip resistant material (Vastap).

5.High Pressure Pump

- 5.1 The high-pressure water pump must be capable of producing a flow of not less than 1000-2000 litres per hour at a constant pressure variable from 65 to 200 bar.
- 5.2 The pump shall be durable enough to handle recycled water.
- 5.3 High quality materials such as stainless steel on the inlet and outlet valves, ceramic coated internals of the pump, hardened materials for the internals and pump head, double bearing and seal system is recommended for the pump.
- 5.4 The pump's oil level shall be easily visible with an indicator.
- 5.5 Should be robust, high volume, high pressure, gear driven, three piston pump or better.
- 5.6 It must be fitted as per manufacturer's specifications in an easily accessible place with all relevant safety features i.e. regulator, secondary filtration, tank returns etc.
- 5.7 The fitment of the high pressure pump should not negatively impact on the vehicles ground clearance.
- 5.8 The pump should include an adjustable by-pass valve and pressure release valve. A three way change over valve should redirect the flow from the hose reel to a manual by-pass or to an auxiliary take off point.

6. Auxiliary Engine for driving the pump

- 6.1 The pump should be driven by an air cooled, diesel engine with a power output approximately 50 kW @ 2500 rpm and a torque exceeding 120 Nm @ 1500 rpm. The engine shall be an industry proven "popular" model with easily available service and spare parts support in the country and region by the bidder and other agents.
- 6.2 The engines exhaust should be directed down or up and out to the side of the vehicle.
- 6.3 Engine is to be fitted with efficient air, fuel and lubricating oil filters. A dry type air cleaner, with replaceable paper elements of South African manufacture, is required.
- 6.4 The engine should be direct coupled to the pump by a suitable flexible coupling.
- 6.5 All rotating drive systems and locations on the engine that dissipate excessive heat should be guarded in accordance with the Occupational Health and Safety Act Regulations (Act 85 of 1993).
- 6.6 The engine must produce the required speed and power to drive the pump and produce the required flow and pressure.
- 6.7 A suitable in-line disc filtration system should be incorporated to protect the pump from contaminated water.
- 6.8 The engine shall achieve its fuelling requirements from a standalone 50 litre supply mounted on the vehicle.
- 6.9 A locking fuel cap for the fuel tank and an anti-siphon device.
- 6.10 A roofed enclosure shall be built for the engine such that it is protected. The design shall allow maximum ventilation.

7. Lighting

- 7.1 A flood light should be installed in a suitable position illuminating the working area at the rear of the truck.
- 7.2 Suitable lighting should be installed within the body providing light for the toolbox area.
- 7.3 Two LED hazard lights should be mounted as follows;
 - a) A waterproof slim line bar light approx. 1200mm in length and 200mm in width to be installed on bracket on the front of the cab without drilling into the roof. Generation 3 type LED consisting of 1 watt, 6x4 modules to the front with end cap modules consisting of 1x2 head modules with amber coloured

polycarbonate lenses to be fitted to the bracket on the cab roof with on/off switch with random flash pattern positioned in the cab.

b) A pair of flashing LED hazard lights should be mounted above the tank at the rear of the truck. The hazard lights should be protected from damage.

c) There shall be rear and side scene lights to illuminate the vehicle and its surroundings. The controls shall be on the control panel in 4.6.

8. Metal Preparation and Painting Procedure

The following procedure must be adhered to:

- 8.1 Descale all metal surfaces
- 8.2 Grind down & smooth all rough edges
- 8.3 Thoroughly clean all surfaces
- 8.4 Prime all built parts and the superstructure using a two component self-curing inorganic zinc ethyl silicate or two component zinc rich polyamide cured epoxy primer.
- 8.5 Thereafter paint using two coats of premium quality twin pack automotive paint
- 8.6 Paint film thickness (color coat) must not be less than 80 microns each. Two primer paints and one color coat is required as minimum.

9. Colors

Underside of Body	Black
Cab	White with Cleansing Solid Waste (CSW) branding with white, blue (RAL 5002/Pantone 280C) and green (RAL 6000/Pantone 3278c) stripes across the front of the driver's cab
Superstructure	CSW Blue RAL 5002/Pantone 280C

10. Electrical requirements

All additional electrical circuits are to be suitably fused and must not interfere with or adversely affect the existing electrical system.

- 10.1 Existing taillight units to be replaced with premium quality equal light unit incorporating 30 LEDs or more approx. 100 mm in diameter that are screwed into position with a stainless steel flange.
- 10.2 Dual indicator, stop and taillight units to be fitted.
- 10.3 Reversing camera, buzzer and warning flashing light to be installed when reverse gear is engaged in an optimum position. Monitor to be part of the vehicles multimedia system with Bluetooth hands free cellphone connectivity.
- 10.4 An additional set of rear light units to be installed on top of the tank.
- 10.5 Uninterrupted power supply points shall be made available for the vehicle tracking and fuel master monitoring systems.
- 10.6 All exposed electrical wiring looms of the chassis cab and superstructure shall be full encased in a flexible protective metallic conduit and securely clamped with fasteners to the chassis or the structure.

11. Signage and Markings

11.1 Data plates shall be fitted for:

- a) The tank and jetting systems indicating tank capacity, system pressures, fluid type/grade, and other relevant data.
- b) The auxillary engine indicating engine make and model, capacity, serial number, oil type and grade etc.

c) Safety, operation, technical data, dates of manufacture, manufacturer's details etc.

11.2 Chevron board with rear lights to be fitted on a steel channel (3CR12) section above rear underrun bumper and plastic mudguards to the rear wheels both conforming with the appropriate SABS/SANS standard.

11.3 Durable, ultraviolet resistant and weather resistant warning signs shall be provided at all locations of the vehicle that impose a danger to persons.

11.4 Durable, ultraviolet resistant and weather resistant information signs shall be provided in specific locations to assist the driver/maintenance staff with the operation/maintenance of the vehicle.

11.5 Retro-reflective tape shall be fitted to both sides and the rear of the tank as well as the rear bumper.

11.6 Two pairs of red prismatic retroreflectors shall be fitted to the rear of the vehicle and two pairs of amber prismatic retroreflectors shall be fitted to either side of the vehicle.

12. Miscellaneous items

12.1 Full size spare wheel to be mounted in a suitable place.

12.2 A locking fuel cap and anti-siphon device for the fuel tank.

12.3 The battery box is to be lockable (lock to be provided).

12.4 A 4.5 kg fire extinguisher should be supplied and fitted in an accessible position in the cab.

12.5 A pair of heavy duty wheel chocks.

Item 6.1 to 6.2: Technical specification for a 6x4 vacuum tanker single cab chassis vehicle

1. Scope

The intent of this specification is to provide for a fully operational high air flow vacuum vehicle for the disposal of leachate from landfill sites. The leachate liquid is corrosive in nature and has solid particles as part of its composition. The suction system (hydraulics, pump, hoses and valves) shall be able to handle leachate, slurry and sludge primarily.

The vehicle with the customisation shall be supplied complete and fully assembled in all respects, including standard equipment supplied by the manufacturer and shall comply with the South African Occupational Health and Safety Act, Act 85 of 1993/as amended and the applicable current Road Traffic Legislation. All work on the vehicle including the customisation is to be constructed by an SABS/SANS approved body/coach/vehicle manufacturer/ builder. The total operating mass of the vehicle and the its customisation should not exceed the trucks legal V rating less 1000 kg. The layout should also ensure that the laden individual axle loads do not exceed the legal limits.

The bodywork should be designed to enhance the aesthetics of the vehicle. The vehicle and its customisation must be operationally friendly, easy to operate and maintain. All replaceable items including (but not limited to) critical components shall be designed for easy access, removal and replacement.

The vehicle and its customisation shall be to I.S.O. Metric Standards, and instrumentation gauges, dials, etc. shall be in Systeme International (S.I.) units.

2. Vehicle

2.1 The chassis/body shall be a 6x4 construction chassis cab truck, with a minimum Gross Vehicle Mass (GVM) of 26 000 kg.

2.2 Transmission shall be automatic manual transmission or fully automatic. Bidder to provide options on both or either if offered.

2.3 Minimum diesel engine requirements shall be a Euro 3 to 5, 250 kW of power and 1 400 Nm of torque. Minimum wheelbase (center of front wheel to center of rear bogie) of 3 500 mm.

- 2.4 Steel suspension.
- 2.5 Fitment of a steel under belly plate to protect the radiator, engine, transmission.
- 2.6 Exterior windscreen sun visor.
- 2.7 A tinted sunroof shall be fitted if offered by the OEM.
- 2.8 Nudge bar to be fitted the full length of the cab. Bolt on type and cylindrical construction.
- 2.9 ABS brakes is mandatory. Auxiliary braking to be provided through an integrated retarder (operated via the foot brake pedal).
- 2.10 A fully laden minimum grade ability of 30 % shall be expected. Maximum speed of not less than 80 km/hr.
- 2.11 Drivetrain shall have hub reduction and differential lock.
- 2.12 Forward tilt hydraulic actuated cab with safety holding mechanism.
- 2.13 To safely and comfortably accommodate driver using an equal levelling suspended type seat. To be fully adjustable.
- 2.14 Passenger seat.
- 2.15 Adjustable mirrors.
- 2.16 Driver assist mirrors for front and passenger side of vehicle.
- 2.17 Heater, windscreen demister and air-conditioning system should be adequate for the cab and its occupants.
- 2.18 Bluetooth Radio and speakers (with handsfree cellphone capability), 12v charger sockets.
- 2.19 Wireless/Bluetooth tyre pressure monitoring system.
- 2.20 Fuel tank shall be 500 liters with a lockable fuel cap and anti-siphon device.
- 2.21 Truck fuel management system to remove access water and dirt before delivery to the engine. This system shall be in a lockable enclosure (lock to be provided).
- 2.22 Heat sensing engine protection device, mechanical monitoring system to safely shut down engine if engine cylinder head increases to an unsafe temperature.
- 2.23 The customisation shall be designed according to these critical specifications (summary of evidence shall be provided):
 - a) SANS 1518 Transport of dangerous goods — Design, construction, testing, approval and maintenance of road vehicles and portable tanks.
 - b) SANS 20013 Surface vehicles. This specification covers the braking system of motor vehicles and trailers. Maximum design speed exceeding 35km/h intended for use on public roads.
 - c) The end of Section 7 details other specifications that are relevant.

3. Material specification

The tank and tank ends shall be made out 3CR12 steel with a minimum thickness of 4.5 mm.

4. Construction requirements

4.1 Tank

- 4.1.1 A 13-16 000 litre elliptical, baffled tank designed to withstand the additional rigours of road transport is required with a low centre of mass design.
- 4.1.2 The tank's mounting shall be so designed to eliminate any vehicle chassis flex being transmitted to the tank. Preferably rubber block type to allow for movement when negotiating rough road
- 4.1.3 The following should be incorporated;
 - a) A large manhole with a hinged cover approximately 450 mm diameter at the rear.
 - b) Access ladder with steps and railings constructed from non-slip tread plate to be positioned adjacent to manhole.
 - c) Suitable ventilation to ensure that there is an uninterrupted supply.
 - d) Mounted platform to suit equipment.
 - e) Tank over flow, draining to the left hand side of the vehicle.

- f) Sight glass to view tank contents.
- g) There shall be a protective sectioned guide at the discharge valve at the rear of the tank.

- 4.1.4 The waste tank must tip up hydraulically to a minimum of 40° to the rear to facilitate the dumping of the leachate and debris from the waste tank via the rear door. The design of the waste tank should enhance the total discharge of debris when the tank is tipped. The tank must incorporate a safety system that will hold the tank in its tipped position in case of hydraulic failure.
- 4.1.5 The rear door must be hinged at the top and the opening mechanism must be hydraulically operated to accommodate this configuration. The door shall be completely sealable and shall have a heavy duty replaceable EPDM seal that is corrosion resistant and resistant to high mechanical wear.
- 4.1.6 Tank rear shall have flared chutes to aid spillage when off-loading with no underflow.
- 4.1.7 A system must be incorporated that will prevent the rear door from slamming shut in the event of a hydraulic failure.
- 4.1.8 The tank must have a minimum of three locking devices for the sealing of the rear door which must completely seal the contents.
- 4.1.9 The vacuum tank must have a working vacuum up to 0.90 Bar or better.
- 4.1.10 The tank and cyclones or a similar separation system must have sight glasses fitted in strategic places that may be removed easily for cleaning.
- 4.1.11 There shall be a protective sectioned guide at the discharge valve at the rear of the tank.
- 4.1.12 All tanks shall be expected to be nondestructive tested, 10x x-ray, water fill and pressure tested.

4.2 Solids bin

A 70 liter refuse bin complete with lid shall be supplied, securely mounted in a tipping mechanism on the rear, right hand side platform. The drum must be replaceable and should be able to tip to the right hand side enabling the contents to be discharged. In the upright position the drum lid must be secured in the closed position.

4.3 Hoses

Eight 100mm x 3000mm and two 150mm x 3000mm suction hose each complete with a male and female Perrot type coupling should be supplied. The Perrot couplings should be adequately secured in the hose.

4.4 Tool Boxes

4.4.1 An externally mounted lockable toolbox with a volume of approximately 0.50 m³ and length 2200 mm shall be provided.

4.4.2 A steel storage box incorporating two hinged lids and running the length of the tank to be positioned on both sides of the tank. The depth of the boxes to be approx. 300 mm. Hasp and staple fittings to be fitted for locking purposes.

4.4.3 In between the lockable boxes and the tank, shall be a slimline storage compartment to hold solid bar material which range in length from 6 000-7 500 mm.

4.4.4 There shall be a suitable lockable holder system to accommodate an extension ladder.

4.5 Road Cones and Portable Signs

Provision must be made to safely secure large road cones and typically used 900 mm road signage within the body.

4.6 Control Panel

All controls for the operation of the machine shall be fitted to an illuminated, lockable, water resistant control panel on the left side of the hose reel. The design shall be such that the operator will be able to operate the unit whilst standing in front of the control panel.

The controls shall where possible be electronic, and activate the necessary servos (either pneumatic or hydraulic) that will activate the operation. All actions will be fully adjustable at variable speeds for the operation of the machine. A plug in, modular type, control panel is preferred for ease of maintenance.

All servos and valves to be mounted in a safe and easily accessible place for ease of maintenance.

All electrical devices must be splash resistant.

The unit must have the following controls as a minimum:

- a) Pressure gauge (Mounted externally)
 - b) Hose reel control lever
 - c) Reel speed controller
 - d) Three-way change valve control
 - e) Light switches
 - f) Level gauge
 - g) Engine speed control
 - h) Low level water alarm that sounds when the water reaches the 1000 litres level with a relay to switch off the alarm after 30 seconds and automatically resets itself when tank is filled.
 - i) A low level cut out device that disengages the high pressure pump when the water in the tank reaches 200 litres and automatically resets itself when the tank is filled.
- All functions must be clearly marked.

Access to the components should be through suitable doors with adequate weather proof ventilation (interlocking louver slats) and the layout should be designed to enhance maintenance of the unit. Steps should be installed to provide access to the tool box area from the left hand side of the vehicle. Provision should be made to remove the water tank using removable panels on the sides of the body.

All items in chapter 4 must be thoroughly sealed with an approved sealer to prevent rusting between mating surfaces and drain holes must be provided in areas where water can accumulate. Any floor that persons will use on the body should be coated with a hard wearing, slip resistant material (Vastrap).

5. Vacuum System

5.1 A suitable exhauster, hydraulically driven via the vehicles' P.T.O. shall be suitably mounted on the vehicle. The exhauster should be capable of raising a vacuum in the tank of- 60kPa in not more than 10 minutes and should have a capacity of not less than 3.5 cubic metres per minute. The exhauster control should be ergonomically positioned on the left hand side of the truck. A pre-set vacuum relief valve should be incorporated.

5.2 The blower must create and maintain a suitable vacuum with a free air flow of, not less than, 400 litres/second. This air flow shall have the necessary velocity to meet the design criteria and to ensure that the ancillary equipment (cyclones etc.) has the ability to remove the debris and water from the system before it reaches the blower.

5.3 The blower shall be fitted as per manufacturer's specifications and in an easily accessible location with all adequate relevant safety features i.e. vacuum breakers, primary and secondary filtration, exhaust/silencer etc. It must be driven from the PTO using the vehicle's transmission and will be capable of 100 % duty at 50 kPa. All exposed drives must be suitably guarded.

The system should incorporate a snifter valve with moisture separator and odour control, vacuum release and unloader ball valves. All non-return valves must be positioned for ease of maintenance. A 100mm diameter, glycerine fill vacuum gauge shall be mounted in a suitable position on the left hand side of the truck. A suitable vacuum breaker should be mounted on the left hand side in an accessible position.

5.4 The system must be protected as per the manufacturer's specification and for the specific application.

6. Power Take Off (PTO)

6.1 The vacuum pump must be driven from an inline P.T.O. capable of delivering at least 20 % more power than the maximum continuous power rating of the systems driven by it.

6.2 The PTO drive assembly shall be approved by the OEM mechanically and electrically for use on the engine and the wiring systems of the vehicle for the engagement of the PTO drive. Any modifications to the vehicle to accommodate the P.T.O. must be approved by the truck manufacturer and not affect the trucks warranty in any way.

6.3 The engine and transmission must not be harmed by use of the PTO.

6.4 The fitment of the P.T.O. should not negatively impact on the vehicles ground clearance.

6.5 Electronic control module and wiring harness which incorporates the "Rev Up Limiter" must be integrated into the existing OEM vehicle using the OEM 24 Volt system.

6.6 The PTO must only run when the PTO switch is engaged. The system will not allow the PTO to be engaged if the vehicle is in gear or if the handbrake is not engaged.

6.7 The accelerator pedal cannot be used, while the PTO is engaged.

6.8 PTO calibration shall be performed after tracking device is installed on the vehicle by eThekweni City Fleet.

7. Hydraulic system

7.1 In respect of the hydraulic tank the following shall be required:

7.1.1 To be constructed of steel.

7.1.2 To be fitted to an accessible side on the truck chassis, low enough that the body height does not impede the maintenance staff or driver of filling oil to tank.

7.1.3 To be fitted with a bump guard from externalities.

7.1.4 To be fitted with a front mounted sight glass for visual oil level inspection. Glass should be marked minimum and maximum accordingly with levels of fluid in the tank.

7.1.5 Must have a filler cap strainer & filter into filler base and filler cap assembly.

7.1.6 Oil capacity shall be sufficient such that the system does not overheat, a cooler shall be installed if required.

7.1.7 Spin off, pressure relief, safety holding and other necessary valves are required.

7.2 Must have an inline filter with a blockage indicator fitted onto the pressure side of hydraulic pump, before the tipper / solenoid valve system.

7.3 The system shall have a shut off valve at the outlet of the tank.

7.4 The hydraulic valves shall be grouped together for ease of maintenance.

7.5 Test points for testing hydraulic pressures shall be fitted and grouped together.

7.6 Where possible steel tubing, which shall be treated with suitable corrosion protection, in lieu of rubber hosing shall be used for hydraulic lines.

7.7 All hydraulic fittings shall be wrapped with a petrolatum impregnated tape or sprayed with a petrolatum primer to prevent corrosion.

7.8 Safety hold valve to be fitted to the cylinders in case of hydraulic failure.

8. Lighting

8.1 A LED flood light/work lamp should be installed in a suitable position illuminating the working area at the rear of the truck.

8.2 Suitable lighting should be installed within the body providing light for the toolbox area.

8.3 Two LED hazard lights should be mounted as follows;

- a) A waterproof slim line bar light approx. 1200mm in length and 200mm in width to be installed on bracket on the front of the cab without drilling into the roof. Generation 3 type LED consisting of 1 watt, 6x4 modules to the front with end cap modules consisting of 1x2 head modules with amber coloured polycarbonate lenses to be fitted to the bracket on the cab roof with on/off switch with random flash pattern positioned in the cab.
- b) A large flashing LED hazard light should be mounted above the hose reel and control box at the rear of the truck. The hazard light should be protected from damage.
- c) There shall be rear and side scene lights to illuminate the vehicle and its surroundings. The controls shall be on the control panel in 4.8.

9. Metal Preparation and Painting Procedure

The following procedure must be adhered to:

- 9.1 Descale all metal surfaces
- 9.2 Grind down & smooth all rough edges
- 9.3 Thoroughly clean all surfaces
- 9.4 Prime the tank and other components using a two component self-curing inorganic zinc ethyl silicate or two component zinc rich polyamide cured epoxy primer.
- 9.5 Thereafter paint using two coats of premium quality twin pack automotive paint
- 9.6 Paint film thickness (color coat) must not be less than 80 microns each.

10. Colors

Underside of Body	Black
Chassis Cab and Superstructure	White
Striping	Cleansing Solid Waste (CSW) branding with white, blue (RAL 5002/Pantone 280C) and green (RAL 6000/Pantone 3278c) stripes across the front of the driver's cab

11. Electrical

All additional electrical circuits are to be suitably fused and must not interfere with or adversely affect the existing electrical system.

- 11.1 Existing taillight units to be replaced with premium quality equal light unit incorporating 30 LEDs or more approx. 100 mm in diameter that are screwed into position with a stainless steel flange.
- 11.2 Dual indicator, stop and taillight units to be fitted.
- 11.3 Reversing camera, buzzer and warning flashing light to be installed when reverse gear is engaged in an optimum position. Monitor to be part of the vehicles multimedia system with Bluetooth hands free cellphone connectivity.
- 11.4 An additional set of rear light units to be installed on top of the tank.
- 11.5 Uninterrupted power supply points shall be made available for the vehicle tracking and fuel master monitoring system.
- 11.6 The manhole of the tank shall have an electronic warning sensor (audible and light) that will indicate the locking/unlocking status of the door in the driver's cab.
- 11.7 All exposed electrical wiring looms of the chassis cab and superstructure shall be full encased in a flexible protective metallic conduit and securely clamped with fasteners to the chassis or the structure.

12. Signage and Markings

12.1 Data plates shall be fitted for:

- a) The tank and jetting systems indicating tank capacity, system pressures, fluid type/grade, and other relevant data.

- b) The auxillary engine indicating engine make and model, capacity, serial number, oil type and grade etc.
- c) Safety, operation, technical data, dates of manufacture, manufacturer's details etc.
- 12.2 Chevron board with rear lights to be fitted on a steel channel (3CR12) section above rear underrun bumper and plastic mudguards to the rear wheels both conforming with the appropriate SABS/SANS standard.
- 12.3 Durable, ultraviolet resistant and weather resistant warning signs shall be provided at all locations of the vehicle that impose a danger to persons.
- 12.4 Durable, ultraviolet resistant and weather resistant information signs shall be provided in specific locations to assist the driver/maintenance staff with the operation/maintenance of the vehicle.
- 12.5 Retro-reflective tape shall be fitted to both sides and the rear of the tank as well as the rear bumper.
- 12.6 Two pairs of red prismatic retroreflectors shall be fitted to the rear of the vehicle and two pairs of amber prismatic retroreflectors shall be fitted to each side of the vehicle.

13. Miscellaneous items

- 13.1 Full size spare wheel to be supplied.
- 13.2 A locking fuel cap for the fuel tank
- 13.3 The battery box is to be lockable (lock to be provided).
- 13.4 A 4.5 kg fire extinguisher should be supplied and fitted in an accessible position in the cab.

Maintenance of chassis cab and superstructure

The following requested information shall be provided for eThekweni Municipality to consider the option of a maintenance plan.

The completed vehicle shall include scheduled preventive maintenance servicing requirements as recommended by the OEM/Body builder at the respective odometer (kilometer interval) milestone or time period lapse (hours/months). eThekweni Municipality requires the items listed below in Table 1 to be included as compulsory in the service schedule requirement for the chassis cab. This will form part of the compulsory assessment items.

Maintenance Component	Sub component	Individual component parts
Transmission	Transmission fluid/oil and health status check	
Engine	Injectors	
	Injector Pumps	
	Compressor	
	Front and Rear Main Seals	
	Engine Mountings	
	Belts	
	Turbo	
	Oil Pump	
	Intercooler	
Electrical / Computer	Batteries	
	Alternator	
	Starter	
	Diagnostics of sensors	
	Electronic control unit- Engine	
	Electronic control unit - Transmission	
	Retarder operation	
Air system	Compressor air charge system	
	Air Dryer unloading pressure	
	Carbon build up, blockages and oil in system	
	Air leaks	
Differential	Side Shafts	
	Centre Portions	
	Hub Reduction Servicing	
	Hub Seals	
Cooling Systems	Radiator	
	Radiator Fan	
	Water Pump	
	Header Tank	
	Thermostat	
	Top and Lower Hoses	
Suspension (Torqueing and greasing of all critical bolts if necessary)	Shocks	Bushings and bolts
	Parabolic System	
		Centre Bolts
		Leaf Blades

		Suspension Link Arms
		Torsion Bars
		Stabilizer Bars
	Steering	Steering Box
		Steering Pump
		Drag Links
		Ball Joints
Braking System	All components (pedal to disc/drum) including a conditional assessment report of brake life (actual compared to theoretical new).	
Air Conditioner	Compressor	
	Condenser	
	Evaporator	
	Pollen Filter	
Wheels and tyres (conditional assessment report of all tyres-actual compared to theoretical new).	Tyre rotation, balance, wheel nuts torqued and wheel alignment.	

Table 1: Compulsory assessment items for Chassis Cab

The superstructure requested for services shall undergo an initial inspection and evaluation to establish the full extent of the scope of work required with pricing prior to beginning the maintenance process.

The Pre-inspection process for all units shall include at no cost;

Visual inspection and testing of the hydraulic and electrical systems

Detailed inspection (including NDT in accident and failure circumstances) of the main structural load bearing items including;

All structural framework (under structure, cross members, hooks, sub chassis, body mounts etc.)

Steel surfaces (turntables, booms, floors, sides, tailgates, ejector plate, packer blades, sweep blades and roof, etc.) and welds

Mechanical and functional wearing items; kingpins, landing legs, towing couplers, slides, shoes, bearings, bushes, seals, twist locks, steel cables, hinges etc.

All hydraulics (power take off, pumps, cylinders, mountings, valves/valve banks and fasteners) and controls.

All electrical/electronics (lights, motor drives/PTO, controllers, wiring harnesses, controls, etc.) with diagnostics for superstructures where applicable (Rotopress, street sweepers, etc.)

2.1 Service procedure for units;

2.1.1 Minor steel repairs needed predominantly to the steel surfaces with a few structural frameworks. Water test to check if body and tailgate is leaking (weld and seal where required) for compactor superstructures.

2.1.2 Hydraulic power system; Inspection of operating system and load test, change hydraulic oil & filters, replacement of pipes and couplers where damaged or leaking including minor component replacements and repairs.

2.1.3 Hydraulic cylinders; inspection of cylinders for leaks and functionality, to check cylinders are operating dimensionally correct, shim and sleeve fittings where required.

- 2.1.4 Mechanical and functional wearing items; clean and grease wear items and replace as necessary if damaged.
- 2.1.5 Diagnostics and electrical inspection including continuity check. Replace/repair wiring where damaged and not functioning. Diagnostic report to accompany the superstructure.
- 2.1.6 Clean all controls, recalibrate and set to users' preference.
- 2.1.7 Prime and paint repaired areas, replace worn signage and worn stickers for controls, safety and warnings as per chapter 7.
- 2.1.8 Load testing for lifting devices (equipment and lifting tackle) according to SANS 10388.
- 2.1.9 Final inspection and testing by bidder with compiling of documents before customer inspection.

2.2 General maintenance procedure for units;

- 2.2.1 Major steel repairs needed to the steel surfaces, structural framework and chassis/sub chassis including mountings. Water test to check if body and tailgate is leaking (weld and seal where required) for compactor superstructures. Non-destructive testing to be done at critical points including; chassis, mounting points of sub chassis to superstructure, hinges of tailgate and hopper, hydraulic cylinder mounting points, stop points for the ejector plate, bin lifters, pulley system, dolly A-Frame, kingpin and landing legs etc. Wear pads to be installed on the floors (where possible).
- 2.2.2 Hydraulic power system; Inspection of operating system and load test, change hydraulic oil & filters, replacement of pipes and couplers where damaged or leaking including component replacements and repairs. All seals and gaskets to be replaced.
- 2.2.3 Hydraulic cylinders; inspection of cylinders for leaks and functionality, to check cylinders are operating dimensionally correct, replace hydraulic cylinder seals and gaskets, worn pins, mounting sleeves/bearing/bushings and fasteners to be replaced with new components.
- 2.2.4 Mechanical and functional wearing items; clean and grease wear items and replace as necessary if damaged.
- 2.2.5 Diagnostics and electrical inspection including continuity check. Replace/repair wiring where damaged and not functioning. Damaged components and lights including light guards to be replaced.
- 2.2.6 Clean all controls, recalibrate and set to users' preference.
- 2.2.7 Surface blast the entire superstructure, prime and paint as per specification, renew signage, branding and replace stickers for controls, safety and warnings as per chapter 7.
- 2.2.8 Load testing for lifting devices (equipment and lifting tackle) according to SANS 10388.
- 2.2.10 Final inspection and testing by bidder with compiling of documents before customer inspection.

2.3 Major maintenance procedure for units;

- 2.3.1 Major steel repairs needed to the steel surfaces, structural framework and sub chassis including mountings. Water test to check if body and tailgate is leaking (weld and seal where required). Non-destructive testing to be done at critical points including; chassis, mounting points of sub chassis to superstructure, hinges of tailgate and hopper, hydraulic cylinder mounting points, stop points for the ejector plate, bin lifters, pulley system, dolly A-Frame, kingpin and landing legs etc. Wear pads to be installed on the floors (where possible).
- 2.3.2 Hydraulic power system; Refurbish hydraulic oil tank, renew hydraulic oil & filters, replacement of pipes and couplers with new valves and controls including fasteners.

2.3.3 Hydraulic cylinders; to replace hydraulic cylinders, mounting sleeves/bearing/bushings and fasteners with new components.

2.3.4 Mechanical and functional wearing items to be renewed.

2.3.5 Diagnostics and electrical inspection including continuity check. Replace/repair wiring where damaged and not functioning. Electrical components, lights and light guards to be renewed.

2.3.6 Calibrate and set hydraulics.

2.3.7 Surface blast the entire superstructure, prime and paint as per specification, renew signage, branding and replace stickers for controls, safety and warnings.

2.3.8 Load testing for lifting devices (equipment and lifting tackle) according to SANS 10388.

2.3.9 Final inspection and testing by bidder with compiling of documents before customer inspection.

3. Material specification for 2.1, 2.2 and 2.3

The load bearing items including shall be made from structural steel to withstand the payload and application. Corten steel or a structural steel with similar/better chromium anti-corrosive properties for the structural rolled sections and flat plate is recommended. Whilst Hardox for the wear pads and the floor. Where wear pads are not installed bidder shall recommend the option to be installed in 2.2 and 2.3.

All hydraulic fittings shall be wrapped with a petrolatum impregnated tape or sprayed with a petrolatum primer to prevent corrosion.

All exposed electrical wiring looms of the chassis cab/trailer and superstructure shall be full encased in a flexible protective metallic conduit and securely clamped with fasteners.

4. Metal Preparation and Painting Procedure for 2.1, 2.2 and 2.3

The following procedure must be adhered to:

4.1 Descale all metal surfaces

4.2 Grind down & smooth all rough edges

4.3 Thoroughly clean all surfaces

4.4 Prime the superstructure body and other components using a two component self-curing inorganic zinc ethyl silicate or two component zinc rich polyamide cured epoxy primer.

4.5 Thereafter paint using two coats of premium quality twin pack automotive paint

4.6 Paint film thickness (color coat) must not be less than 80 microns each.

5. Colors for 2.1, 2.2 and 2.3

Sub chassis and underside of Black
superstructure

Superstructure

CSW Blue RAL 5002/Pantone 280C

6. Electrical for 2.1, 2.2 and 2.3

All additional electrical circuits (including lighting) are to be suitably fused and must not interfere with or adversely affect the existing electrical system.

6.1 Taillight units shall be premium quality equal light unit incorporating 30 LEDs or more of not less than 100 mm in diameter that are screwed into position with a stainless-steel flange. Two sets are fitted; one set on/near rear underrun and one set at an elevated height on the hopper. Trailers and other superstructures may also call for two sets of lights.

6.2 LED amber beacon strobe lights shall be installed on top of the superstructure. Each shall be placed in a corner seated on top of a holding bracket for elevated height with an enclosed caged fastened light guard. Two to four units are required depending on the specific superstructure/vehicle.

7. Signage and Markings for 2.1, 2.2 and 2.3

7.1 Data plates shall be fitted labelling the storage areas and capacity. Safe working loads should be labelled where necessary:

- a) The hydraulic system indicating tank capacity, system pressure, fluid type/grade, hydraulic cylinder specifications and test criteria.
- b) Safe working loads to be clearly labeled on the structure on both sides of the compaction body and hopper.

7.2 Safety, operation, technical data, dates of service/repair/refurbishment and details etc.

7.3 Chevron board to be fitted section above rear underrun bumper and plastic mudguards to the rear wheels both conforming with the appropriate SABS/SANS standard.

7.4 Durable, ultraviolet resistant and weather resistant warning signs shall be provided at all locations of the vehicle that impose a danger to persons.

7.5 Durable, ultraviolet resistant and weather resistant information signs shall be provided in specific locations to assist the driver/maintenance staff with the operation/maintenance of the vehicle.

7.6 Retro-reflective tape shall be fitted to both sides and the rear of the superstructure as well as the rear bumper.

7.7 CSW/DSW corporate branding to be fitted on bolt on chromadek sheeting and mounted on both sides of the compaction body using brackets. It shall have multiple brackets and fastening points (minimum of four longitudinal and lateral brackets and four mounting points on each). It shall be 90-100% the size of the actual body. Branding design will be supplied at the time of the order.

7.8 Supply and fitment of number plates to the front and rear of vehicle were damaged or unreadable.

8. Miscellaneous items for 2.2 and 2.3

8.1 Front mud flaps and full rear mudguards constructed from rubber or a durable polymer.

8.2 The batteries to have a well-insulated weather proof cover to prevent debris and moisture ingress.

8.3 Fuel tank, batteries, pneumatic cylinders and hydraulic tank to have shell structures built around them for safety.

8.4 Bolt on covers for safety where parts are rotating, swinging or of high temperature.

8.5 A 4.5 kg fire extinguisher should be supplied and fitted in an accessible position close to the driver when exiting the cab.

8.7 Bolt on head and tail light guards.

8.8 Electrical connector complying to SANS 1327: Electrical connectors for towing and towed vehicles.

8.9 Rockinger type trailer coupling to comply with DIN 74054, ECE R55-01 for on road use, and for trailers equivalent tow eyes. Either a 40/50 mm tow coupler and/or tow eye shall be available for fitment to the vehicle and/or trailer. Tow eyes shall be the bolt on type and the trailer shall be modified for a bolt on type if a welded type is existing. For tow couplers and tow eyes that require upgrade from 40 mm to 50 mm the bidder shall be able to provide the relevant modification to the existing vehicle/trailer.

8.10 Pneumatic connections complying to SANS 1477-3: Pneumatic braking system connections between drawing and drawn vehicles, Part 3: The arrangement of connections on vehicles, using contact type or palm type couplings.

9. Maintenance for 2.1, 2.2 and 2.3

The superstructure/vehicle must be supplied with technical data for each spare, as well as general arrangement drawings and a bill of materials for any modification performed.

There must be sufficient information to allow the capture of maintenance schedules in terms of inspections, servicing and replacement of parts.

Applicable standards and specifications

The following, not necessarily comprehensive, list of standard specifications are relevant (latest revisions to be adhered to):

ANSI/AWS D1.1 Structural Welding Code

Steel BS-EN 287 Part 1 Approval testing of welders/fusion welding

BS-EN 288 Part 3 Specification and approval of welding procedures for metallic materials

BS 5135 Metal arc welding of carbon and carbon manganese steels

BS 3923 Methods for ultrasonic examination of welds

BS 2600 Radiographic examination of fusion welded butt joints in steel

BS 5493 Code of practice for protective coating of iron and steel structures against corrosion

DIN 1026 Metric channels

ISO R657 Angles

SANS 135 ISO metric bolts, screws and nuts (hexagon and square) (coarse thread, free fit series)

SANS 136 ISO metric precision hexagon-head bolts and screws, and hexagon nuts (coarse thread medium fit series)

SANS 064 Preparation of steel surfaces for coating

SANS 763 Hot-dip (galvanized) zinc coatings

SANS 1091 National colour standards for paint

SANS 1431 Weldable structural steels

SABS 1046, SABS 1376 Lights and retro-reflective devices

SABS 1051, 1447, SANS 20013, SANS 6292 Brakes and braking equipment

SABS 1329 Rear warning sign (chevron)

SANS 1055 Rear underrun protection device

SANS 1496 Wheel flaps

SABS 1447 Pneumatic braking connections

SANS 3779 Vehicle identification number

Vehicle dimensions NRTA Act no.93 of 1996

Data plates Compulsory Vehicle Standards

COMPULSORY QUESTIONNAIRE

Questionnaire forms part of the tender documents and must be completed in its entirety. Where proof is provided the bidder shall clearly mark these as appendices and highlight in the submission the sections that are valid.

Can your company adhere to the following specifications when supplying various Refuse handling commercial vehicles?	Yes / No	If Yes, please provide proof. Appendix no. with submission.
<u>Compulsory items:</u> • Are you an OEM/Certified agent/SABS/SANS certified supplier of commercial vehicles? (MIB certificate included) • Can the relevant documents be provided for Section 6, SCC 10.1 and ACC1 with the vehicles? ○ Detailed maintenance manual ○ Operating manual ○ Training manual ○ Spares manual ○ Electrical wiring circuit/diagram ○ The vehicle complies to SANS 20013. ○ A CAD model in. STEP format for the customisation either on CD or USB (where applicable). ○ Certificate of vehicle and subcomponents fitted as from the OEM • Has Section 6, SCC 10.1.2 been submitted for the tender? ○ A chassis cab and superstructure product catalogue with technical specifications? ○ An assembly drawing indicating the general arrangement of the body and the subassemblies making up the customization. ○ Design calculations (where applicable) showing supplied systems are operating safely. ○ CANBUS user interface and readable vehicle items (list to be attached)? ○ CANBUS speed (kb/s)? • Can the warranty obligations be met in Section 6, 15.2? (Terms and conditions shall be submitted) • Have the returnable documents from Sections 3 and 4 being provided? • Are supplied products and system/s in accordance and recognized by the relevant SABS/SANS specification/standard?		

<u>Item 1.1 to 1.2: 6x4 Skip loader single cab chassis vehicle</u> <u>Chassis Cab details:</u> • What is the vehicle make and model? (technical catalogue to be supplied) • and can criteria in Section 7, chapter 2 be met without any exclusions? • What is the wheelbase? (specify amount) • Engine Euro rating? (3-5 recommended) • Power and torque? (250 kW and 1400 Nm recommended respectively) • Has the GVM being met (26 000 kg)? (specify amount) • What permissible payload is allowed? • ABS braking? • What transmission variants are available; ○ Automatic Manual transmission (AMT)? ○ Fully Automatic (AT)? • Rear axle type; ○ Full hub reduction? • Retarder? (Operated via foot brake pedal or please explain if other)		
<u>Superstructures, loading and operating system:</u> • Is Corten and Hardox steel or similar/better used? (provide details and where used) • Maintenance free bushings/bearings/slides or does your superstructure come with an automated greasing system? • Minimum lifting capacity of 20 000kg? (specify amount) • Tipping angle of 50°? • Rear roller stabilizing legs? • Double eye holder multi-length chain assemblies according to SANS 10388 with stowaway points? • Safety access ladders, walkways (lined with non-slip material) with safety railings? • Option of hydraulic/electric controlled retractable skip cover suitable for application? • Load monitoring system for skip payload (specify details)?		
<u>Sub systems and miscellaneous items</u> • Can items in section 7, chapter 4-12 in the technical specification be met without any exclusions? • Safety access ladders, walkways (lined with non-slip material) with safety railings? • Hydraulic controls clearly marked?		

• Lighting requirements can be met? • Option of 40/50 mm Rockinger tow hitch installation?		
<u>Item 2.1 to 2.2: 6x4 Hook lift single cab chassis vehicle</u> <u>Chassis Cab details:</u> • What is the vehicle make and model? (technical catalogue to be supplied) • and can criteria in Section 7, chapter 2 be met without any exclusions? • What is the wheelbase? (specify amount) • Engine Euro rating? (3-5 recommended) • Power and torque? (250 kW and 1400 Nm recommended respectively) • Has the GVM being met (26 000 kg)? (specify amount) • What permissible payload is allowed? • ABS braking? • What transmission variants are available; ○ Automatic Manual transmission (AMT)? ○ Fully Automatic (AT)? • Rear axle type; ○ Full hub reduction? • Retarder? (Operated via foot brake pedal or please explain if other)		
<u>Superstructures, loading and operating system:</u> • Is Corten and Hardox steel or similar/better used? (provide details and where used) • Maintenance free bushings/bearings/slides or does your superstructure come with an automated greasing system? • Minimum lifting capacity of 20 000kg? (specify amount) • Tipping angle of 40°? • Vertical, longitudinal and lateral mechanical and automated safety locking systems for the refuse container? (specify details) • Compliant to DIN 30722? • Safety locking systems for jib and floor? (specify details) • Safety access ladders, walkways (lined with non-slip material) with safety railings? • Option of hydraulic/electric controlled retractable container cover suitable for application? • Load monitoring system for container payload (specify details)?		
<u>Sub systems and miscellaneous items</u>		

• Can items in section 7, chapter 4-12 in the technical specification be met without any exclusions? • Safety access ladders, walkways (lined with non-slip material) with safety railings? • Hydraulic controls clearly marked? • Lighting requirements can be met? • Option of a 40/50 mm Rockinger tow hitch installation?		
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<u>Item 3.1 to 3.2: 8x4 Hook lift single cab chassis vehicle</u>		
<u>Chassis Cab details:</u> • What is the vehicle make and model? (technical catalogue to be supplied) • and can criteria in Section 7, chapter 2 be met without any exclusions? • What is the wheelbase? (specify amount) • Engine Euro rating? (3-5 recommended) • Power and torque? (370 kW and 1700 Nm recommended respectively) • Has the GVM being met (28 000 kg)? (specify amount) • What permissible payload is allowed? • ABS braking? • What transmission variants are available; ○ Automatic Manual transmission (AMT)? ○ Fully Automatic (AT)? • Rear axle type; ○ Full hub reduction? • Retarder? (Operated via foot brake pedal or please explain if other)		
<u>Superstructures, loading and operating system:</u> • Is Corten and Hardox steel or similar/better used? (provide details and where used) • Tilting frame hook lift superstructure? • Maintenance free bushings/bearings/slides or does your superstructure come with an automated greasing system? • Minimum lifting capacity of 20 000kg? (specify amount) • Tipping angle of 50°? • Vertical, longitudinal and lateral mechanical and automated safety locking systems for the refuse container? (specify details) • Compliant to DIN 30722? • Safety locking systems for jib and floor? (specify details) • Safety access ladders, walkways (lined with non-slip material) with safety railings?		

- Option of hydraulic/electric controlled retractable container cover suitable for application? - Load monitoring system for container payload (specify details)?		
<u>Sub systems and miscellaneous items</u> - Can items in section 7, chapter 4-12 in the technical specification be met without any exclusions? - Safety access ladders, walkways (lined with non-slip material) with safety railings? - Hydraulic controls clearly marked? - Lighting requirements can be met? 40mm Rockinger tow hitch as standard with the option of a 50 mm installation?		

<u>Item 4.1 and 4.2: 4X2 Single Cab mobile resource center vehicle</u> <u>Chassis Cab details:</u> - What is the vehicle make and model? (technical catalogue to be supplied) - and can criteria in Section 7, chapter 2 be met without any exclusions? - What is the wheelbase? (specify amount) - Engine Euro rating? (3-5 recommended) - Power and torque? (150 kW and 650 Nm recommended respectively) - Has the GVM being met (13 500 kg)? (specify amount) - What permissible payload is allowed? - ABS braking? - What transmission variants are available; - Automatic Manual transmission (AMT)? - Fully Automatic (AT)? - Retarder option? (Operated via foot brake pedal or please explain if other)		
<u>Superstructures, loading and operating system:</u> - What steel is being used for structural aspects of the superstructure? (provide details and where used) - What material is being used for superstructure panels? (provide details and where used) - What generator, batteries and inverter is being supplied? (provide catalogues and state how long the system will average operation) - Full length stage? - Retractable roof? - How would the stage be deployed? (specify details of mechanical and actuated option)		

- How would the retractable roof be deployed? (specify details of mechanical and actuated option) - Safety access walkways and staircases (lined with non-slip material) with safety railings?		
<u>Sub systems and miscellaneous items</u> - Can all AV equipment be supplied as per requirements? - What laptop, camera and screens are being provided? (provide catalogues or description sheet including make and model) - Can items in section 7, chapter 4-12 in the technical specification be met without any exclusions? - Safety access ladders, walkways (lined with non-slip material) with safety railings? - Lighting requirements can be met?		

<u>Item 5.1 to 5.4: 4x2 single/crew cab high pressure street cleaning vehicle</u> <u>Chassis Cab details:</u> <u>4x2 Single Chassis Cab:</u> - What is the vehicle make and model? (technical catalogue to be supplied) - and can criteria in Section 7, chapter 2 be met without any exclusions? - What is the wheelbase? (specify amount) - Engine Euro rating? (3-5 recommended) - Power and torque? (155 kW and 600 Nm recommended respectively) - Has the GVM being met (13 500 kg)? (specify amount) - What permissible payload is allowed? - ABS braking? - What transmission variants are available; - Automatic Manual transmission (AMT)? - Fully Automatic (AT)? - Retarder option? (Specify details and operated via foot brake pedal or please explain if other) <u>4x2 Crew Chassis Cab:</u> - What is the vehicle make and model? (technical catalogue to be supplied) - and can criteria in Section 7, chapter 2 be met without any exclusions? - What is the wheelbase? (specify amount) - Engine Euro rating? (3-5 recommended) - Power and torque? (155 kW and 600 Nm recommended respectively) - Has the GVM being met (13 500 kg)? (specify amount) - What permissible payload is allowed?		
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• ABS braking? • What transmission variants are available; ○ Automatic Manual transmission (AMT)? ○ Fully Automatic (AT)? • Retarder option? (Specify details and operated via foot brake pedal or please explain if other)		
<u>Superstructures, loading and operating system:</u> • Is Corten and Hardox steel or similar/better used? (provide details and where used) • Is the tank made of 3CR12 or an automotive grade stainless steel? (provide details and where used) • Main water tank capacity? (minimum 5000L for crew chassis cab and 6000L for single chassis cab required) • Please specify details of auxiliary engine? (product catalogue) • Noise rating (specify dBA ratings of system)? • For a single cab chassis two hose reels and accessories are required and for a crew cab chassis four hose reels and accessories are required, has this been included in your superstructure bid? • Noise rating (specify dBA ratings of system)? • Option of warm water cleaning system? (specify details) • Additive tank capacity?		
<u>Sub systems and miscellaneous items</u> • Can items in section 7, chapter 4-12 in the technical specification be met without any exclusions? • Safety access ladders, walkways (lined with non-slip material) with safety railings? • Controls clearly marked?		

<u>Item 6.1 to 2.2: 6x4 vacuum tanker single cab chassis vehicle</u> <u>Chassis Cab details:</u> • What is the vehicle make and model? (technical catalogue to be supplied) • and can criteria in Section 7, chapter 2 be met without any exclusions? • What is the wheelbase? (specify amount) • Engine Euro rating? (3-5 recommended) • Power and torque? (250 kW and 1400 Nm recommended respectively) • Has the GVM being met (26 000 kg)? (specify amount) • What permissible payload is allowed?		
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• ABS braking? • What transmission variants are available; ○ Automatic Manual transmission (AMT)? ○ Fully Automatic (AT)? • Rear axle type; ○ Full hub reduction? • Retarder? (Operated via foot brake pedal or please explain if other)		
<u>Superstructures, loading and operating system:</u> • What grade stainless steel is used? • Waste tank capacity (recommended 13-16 000 liters)? • Safety access ladders, walkways (lined with non-slip material) with safety railings? • High suction capacity of 400l/min (specify amount)? • Noise rating (specify dBA ratings of system)? • Pump type (make, model and specifications)? • Pump, pipes, hoses suitable for leachate (high corrosive and suspended solid particles)? (Briefly describe) • Can criteria in Section 7, chapter 4-7 be met without any exclusions?		
<u>Sub systems and miscellaneous items</u> • Can items in section 7, chapter 4-12 in the technical specification be met without any exclusions? • Safety access ladders, walkways (lined with non-slip material) with safety railings? • Hydraulic controls clearly marked? • Lighting requirements can be met?		

Can your company adhere to the following specifications when supplying maintenance services to specialized refuse chassis cabs and superstructures?	Yes / No	If Yes, please provide proof. Appendix no. with submission.
<u>Compulsory items:</u> • Are you an OEM/Certified agent/SABS/SANS certified manufacturer/importer of equipment/superstructures/vehicles? • Can the relevant documents be provided for Section 6, SCC 10.1 and ACC1 with the superstructures? ○ Pre-inspection and fault list of the chassis cab/superstructure. ○ Diagnostic report (where applicable). ○ Work being undertaken with pictures and parts supplied. ○ Post-inspection and faults addressed.		

○ Test certificate including readings of torque settings, pressure settings and flows, paint thickness and dimensional alignment. Test certificate must compare actual to theoretical. ○ Electrical wiring circuit/diagram for modifications performed. ○ Spares/Parts and operating manual for new hydraulics fitted. ○ Quality management plan and documents for material, primer and paint specifications including thickness testing. • Can the warranty obligations be met in Section 6, 15.2? (Terms and conditions shall be submitted)		
<u>Technical details and criteria:</u> • Is your workshop equipped with the relevant tools and equipment? (provide details including pictures of diagnostic machines, welding equipment, jigs and fixtures, testing rigs, cranes, mobile workshop etc.) • Are your staff qualified in their respective trade? (mechanics, auto-electricians, technicians, welders, boilermaker, auto-electrical, fitter etc.) • What quality system does your company follow when undertaking work of this nature? • Have you acknowledged the difference and scope of work such that the correct work, parts and finish that can be provided? • Can you provide accredited load testing services for all superstructures and their lifting equipment where applicable? (please submit proof)		
<u>Sub systems and miscellaneous items</u> • Can items in section 7, chapter 4-8 in the technical specification be met without any exclusions?		
<u>Specifications and standards</u> Are supplied products and system/s in accordance and recognised by the relevant SABS/SANS specification/standard?		

SECTION 8: BILL OF QUANTITIES / SCHEDULE OF RATES / ACTIVITIES

Bidders shall provide pricing exclusive and inclusive of Value Added Tax (VAT) in the various options as tabulated below.

The minimum acceptable Euro Standard for this bid is EURO 3 (will be used for purposes of evaluation), however bidders that have models with Euro 4 and 5 are encouraged to also include those offers as part of their bid. eThekweni Municipality reserves the right to award based on their discretion and evaluation which aligns with operational, environmental, and strategic requirements in conjunction with the adopted Durban Climate Strategy.

The pricing options are itemised as; commercial chassis cab, chassis cab accessories, options for the various superstructures and the completed vehicle including homologation, license, delivery and commissioning. All superstructure pricing shall include the sub chassis, superstructure, electrical, hydraulic and pneumatic items, painting (driver's cab and superstructure), branding, signage, markings, applicable miscellaneous items, consumables and complete homologation, license and delivery.

The maintenance option for each vehicle is noted for each chassis cab and superstructure derivative offered separately. There shall be a labour rate for workmanship and a parts mark up. Maximum mark-up on parts not to exceed 10%.

Please note the various options including extras such as the load sensing device and extended driver's cab.

Item 1.1: 6x4 Skip loader single cab chassis vehicle with Automatic Manual Transmission (AMT)	Make and Model	Price excl. VAT	Price incl. VAT
Chassis Cab			
Chassis Cab accessories			
Superstructure including body customization (structural work)			
Hydraulic system (pump, tank, cylinders, valves, filters, piping and accessories)			
Hydraulic controls			
Power take off (PTO) unit			
Lifting chains			
Electrical systems (lights, camera, monitor etc.)			
All relevant finishing, consumables and hydraulic oil.			
Delivery, homologation, licensing and commissioning.			
Item 1.1A: Complete vehicle (Euro 3) with superstructure and customisation			
Item 1.1B: Complete vehicle (Euro 4) with superstructure and customisation			
Item 1.1C: Complete vehicle (Euro 5) with superstructure and customisation			
Item 1.1D: Superstructure and customisation including homologation, licensing and commissioning.			
Item 1.1E: Chassis cab vehicle (Euro 3) with chassis cab accessories			
Item 1.1F: Chassis cab vehicle (Euro 4) with chassis cab accessories			
Item 1.1G: Chassis cab vehicle (Euro 5) with chassis cab accessories			
Item 1.1H: Extended Driver's cab option			
Item 1.1I: 40 mm Rockinger tow hitch (Low position install)			
Item 1.1J: 50 mm Rockinger tow hitch (Low position install)			
Item 1.1K: Skip covering system			
Item 1.1L: Load sensing system for skip payload			

Maintenance Schedule for Item 1.1	Parts mark up (%)	Price Rate for labour per hour excl. VAT	Price Rate for labour per hour incl. VAT
Item 1.1 Maintenance of Chassis Cab			
Item 1.1 Maintenance of Superstructure			

Item 1.2: 6x4 Skip loader single cab chassis vehicle with Fully Automatic Transmission (AT)	Make and Model	Price excl. VAT	Price incl. VAT
Vehicle (Chassis)			
Vehicle accessories			
Superstructure including body customization (structural work)			
Hydraulic system (pump, tank, cylinders, valves, filters, piping and accessories)			
Hydraulic controls			
Power take off (PTO) unit			
Lifting chains			
Electrical systems (lights, camera, monitor etc.)			
All relevant finishing, consumables and hydraulic oil.			
Delivery, homologation, licensing and commissioning.			
Item 1.2A: Complete vehicle (Euro 3) with superstructure and customisation			
Item 1.2B: Complete vehicle (Euro 4) with superstructure and customisation			
Item 1.2C: Complete vehicle (Euro 5) with superstructure and customisation			
Item 1.2D: Superstructure and customisation including homologation, licensing and commissioning.			
Item 1.2E: Chassis cab vehicle (Euro 3) with chassis cab accessories			
Item 1.2F: Chassis cab vehicle (Euro 4) with chassis cab accessories			
Item 1.2G: Chassis cab vehicle (Euro 5) with chassis cab accessories			
Item 1.2H: Extended Driver's cab option			

Item 1.2I: 40 mm Rockinger tow hitch (Low position install)			
Item 1.2J: 50 mm Rockinger tow hitch (Low position install)			
Item 1.2K: Skip covering system			
Item 1.2L: Load sensing system for skip payload			

Maintenance Schedule for Item 1.2	Parts mark up (%)	Price Rate for labour per hour excl. VAT	Price Rate for labour per hour incl. VAT
Item 1.2 Maintenance of Chassis Cab			
Item 1.2 Maintenance of Superstructure			

Item 2.1: 6x4 Hook lift single cab chassis vehicle with Automatic Manual Transmission (AMT)	Make and Model	Price excl. VAT	Price incl. VAT
Chassis Cab			
Chassis Cab accessories			
Superstructure including body customization (structural work)			
Hydraulic system (pump, tank, cylinders, valves, filters, piping and accessories)			
Hydraulic controls			
Power take off (PTO) unit			
Electrical systems (lights, camera, monitor etc.)			
All relevant finishing, consumables and hydraulic oil.			
Delivery, homologation, licensing and commissioning.			
Item 2.1A: Complete vehicle (Euro 3) with superstructure and customisation			
Item 2.1B: Complete vehicle (Euro 4) with superstructure and customisation			
Item 2.1C: Complete vehicle (Euro 5) with superstructure and customisation			
Item 2.1D: Superstructure and customisation including homologation, licensing and commissioning.			
Item 2.1E: Chassis cab vehicle (Euro 3) with chassis cab accessories			

Item 2.1F: Chassis cab vehicle (Euro 4) with chassis cab accessories			
Item 2.1G: Chassis cab vehicle (Euro 5) with chassis cab accessories			
Item 2.1H: Extended Driver's cab option			
Item 2.1I: 40 mm Rockinger tow hitch			
Item 2.1J: 50 mm Rockinger tow hitch			
Item 2.1K: Container covering system			
Item 2.1L: Load sensing system for container payload			

Maintenance Schedule for Item 2.1	Parts mark up (%)	Price Rate for labour per hour excl. VAT	Price Rate for labour per hour incl. VAT
Item 2.1 Maintenance of Chassis Cab			
Item 2.1 Maintenance of Superstructure			

Item 2.2: 6x4 Hook lift single cab chassis vehicle with Fully Automatic Transmission (AT)	Make and Model	Price excl. VAT	Price incl. VAT
Chassis Cab			
Chassis Cab accessories			
Superstructure including body customization (structural work)			
Hydraulic system (pump, tank, cylinders, valves, filters, piping and accessories)			
Hydraulic controls			
Power take off (PTO) unit			
Electrical systems (lights, camera, monitor etc.)			
All relevant finishing, consumables and hydraulic oil.			
Delivery, homologation, licensing and commissioning.			
Item 2.2A: Complete vehicle (Euro 3) with superstructure and customisation			
Item 2.2B: Complete vehicle (Euro 4) with superstructure and customisation			

Item 2.2C: Complete vehicle (Euro 5) with superstructure and customisation			
Item 2.2D: Superstructure and customisation including homologation, licensing and commissioning.			
Item 2.2E: Chassis cab vehicle (Euro 3) with chassis cab accessories			
Item 2.2F: Chassis cab vehicle (Euro 4) with chassis cab accessories			
Item 2.2G: Chassis cab vehicle (Euro 5) with chassis cab accessories			
Item 2.2H: Extended Driver's cab option			
Item 2.2I: 40 mm Rockinger tow hitch			
Item 2.2J: 50 mm Rockinger tow hitch			
Item 2.2K: Container covering system			
Item 2.2L: Load sensing system for container payload			

Maintenance Schedule for Item 2.2	Parts mark up (%)	Price Rate for labour per hour excl. VAT	Price Rate for labour per hour incl. VAT
Item 2.2 Maintenance of Chassis Cab			
Item 2.2 Maintenance of Superstructure			

Item 3.1: 8x4 Hook lift single cab chassis vehicle with Automatic Manual Transmission (AMT)	Make and Model	Price excl. VAT	Price incl. VAT
Chassis Cab			
Chassis Cab accessories			
Superstructure including body customization (structural work)			
Hydraulic system (pump, tank, cylinders, valves, filters, piping and accessories)			
Hydraulic controls			
Power take off (PTO) unit			
Electrical systems (lights, camera, monitor etc.)			
All relevant finishing, consumables and hydraulic oil.			

Delivery, homologation, licensing and commissioning.			
Item 3.1A: Complete vehicle (Euro 3) with superstructure and customisation			
Item 3.1B: Complete vehicle (Euro 4) with superstructure and customisation			
Item 3.1C: Complete vehicle (Euro 5) with superstructure and customisation			
Item 3.1D: Superstructure and customisation including homologation, licensing and commissioning.			
Item 3.1E: Chassis cab vehicle (Euro 3) with chassis cab accessories			
Item 3.1F: Chassis cab vehicle (Euro 4) with chassis cab accessories			
Item 3.1G: Chassis cab vehicle (Euro 5) with chassis cab accessories			
Item 3.1H: Extended Driver's cab option			
Item 3.1I: 50 mm Rockinger tow hitch			
Item 3.1J: Container covering system			
Item 3.1K: Load sensing system for container payload			

Maintenance Schedule for Item 3.1	Parts mark up (%)	Price Rate for labour per hour excl. VAT	Price Rate for labour per hour incl. VAT
Item 3.1 Maintenance of Chassis Cab			
Item 3.1 Maintenance of Superstructure			

Item 3.2: 8x4 Hook lift single cab chassis vehicle with Fully Automatic Transmission (AT)	Make and Model	Price excl. VAT	Price incl. VAT
Chassis Cab			
Chassis Cab accessories			
Superstructure including body customization (structural work)			
Hydraulic system (pump, tank, cylinders, valves, filters, piping and accessories)			
Hydraulic controls			
Power take off (PTO) unit			

Electrical systems (lights, camera, monitor etc.)			
All relevant finishing, consumables and hydraulic oil.			
Delivery, homologation, licensing and commissioning.			
Item 3.2A: Complete vehicle (Euro 3) with superstructure and customisation			
Item 3.2B: Complete vehicle (Euro 4) with superstructure and customisation			
Item 3.2C: Complete vehicle (Euro 5) with superstructure and customisation			
Item 3.2D: Superstructure and customisation including homologation, licensing and commissioning.			
Item 3.2E: Chassis cab vehicle (Euro 3) with chassis cab accessories			
Item 3.2F: Chassis cab vehicle (Euro 4) with chassis cab accessories			
Item 3.2G: Chassis cab vehicle (Euro 5) with chassis cab accessories			
Item 3.2H: Extended Driver's cab option			
Item 3.2I: 50 mm Rockinger tow hitch			
Item 3.2J: Container covering system			
Item 3.2K: Load sensing system for container payload			

Maintenance Schedule for Item 3.2	Parts mark up (%)	Price Rate for labour per hour excl. VAT	Price Rate for labour per hour incl. VAT
Item 3.2 Maintenance of Chassis Cab			
Item 3.2 Maintenance of Superstructure			

Item 4.1: 4X2 Single Cab mobile resource center vehicle with Automatic Manual Transmission (AMT)	Make and Model	Price excl. VAT	Price incl. VAT
Chassis Cab and chassis cab accessories			
Superstructure			
Stage actuation with controls; Mechanical system Automated system			

Retractable roof/awning with controls; Mechanical system Automated system			
Generator			
Batteries Inverter Solar recharge panels			
Monitor/screens Active loudspeakers Mixer Microphones Camera DVR Laptop			
Fridge			
Electrical systems (additional lights, control systems, cabling)			
Branding			
Prime and Paint; Chassis Cab Superstructure			
Finishing, relevant consumables			
Delivery, homologation, licensing, training and commissioning.			
Item 4.1A: Complete vehicle (Euro 3) with superstructure and customisation with manual operated stage and roof awning systems			
Item 4.1B: Complete vehicle (Euro 4) with superstructure and customisation with manual operated stage and roof awning systems			
Item 4.1C: Complete vehicle (Euro 5) with superstructure and customisation with manual operated stage and roof awning systems			
Item 4.1D: superstructure and customisation with manual operated stage and roof awning systems			
Item 4.1E: Complete vehicle (Euro 3) with superstructure and customisation with automated operated stage and roof awning systems			
Item 4.1F: Complete vehicle (Euro 4) with superstructure and customisation with automated operated stage and roof awning systems			

Item 4.1G: Complete vehicle (Euro 5) with superstructure and customisation with automated operated stage and roof awning systems			
Item 4.1H: superstructure and customisation with automated operated stage and roof awning systems			
Item 4.1I: Chassis cab vehicle (Euro 3) with chassis cab accessories			
Item 4.1J: Chassis cab vehicle (Euro 4) with chassis cab accessories			
Item 4.1K: Chassis cab vehicle (Euro 5) with chassis cab accessories			
Item 4.1L: Retarder option			

Maintenance Schedule for Item 4.1	Parts mark up (%)	Price Rate for labour per hour excl. VAT	Price Rate for labour per hour incl. VAT
Item 4.1 Maintenance of Chassis Cab			
Item 4.1 Maintenance of Superstructure			

Item 4.2: 4X2 Single Cab mobile resource center vehicle with Fully Automatic Transmission (AT)	Make and Model	Price excl. VAT	Price incl. VAT
Chassis Cab and chassis cab accessories			
Superstructure			
Stage actuation with controls; Mechanical system Automated system			
Retractable roof/awning with controls; Mechanical system Automated system			
Generator			
Batteries Inverter Solar recharge panels			
Monitor/screens Active loudspeakers Mixer Microphones Camera DVR Laptop			

Fridge			
Electrical systems (additional lights, control systems, cabling)			
Branding			
Prime and Paint; Chassis Cab Superstructure			
Finishing, relevant consumables			
Delivery, homologation, licensing, training and commissioning.			
Item 4.2A: Complete vehicle (Euro 3) with superstructure and customisation with manual operated stage and roof awning systems			
Item 4.2B: Complete vehicle (Euro 4) with superstructure and customisation with manual operated stage and roof awning systems			
Item 4.2C: Complete vehicle (Euro 5) with superstructure and customisation with manual operated stage and roof awning systems			
Item 4.2D: superstructure and customisation with manual operated stage and roof awning systems			
Item 4.2E: Complete vehicle (Euro 3) with superstructure and customisation with automated operated stage and roof awning systems			
Item 4.2F: Complete vehicle (Euro 4) with superstructure and customisation with automated operated stage and roof awning systems			
Item 4.2G: Complete vehicle (Euro 5) with superstructure and customisation with automated operated stage and roof awning systems			
Item 4.2H: superstructure and customisation with automated operated stage and roof awning systems			
Item 4.2I: Chassis cab vehicle (Euro 3) with chassis cab accessories			
Item 4.2J: Chassis cab vehicle (Euro 4) with chassis cab accessories			
Item 4.2K: Chassis cab vehicle (Euro 5) with chassis cab accessories			
Item 4.2L: Retarder option			

Maintenance Schedule for Item 4.2	Parts mark up (%)	Price Rate for labour per hour excl. VAT	Price Rate for labour per hour incl. VAT
Item 4.2 Maintenance of Chassis Cab			
Item 4.2 Maintenance of Superstructure			

Item 5.1: 4x2 high pressure street cleaning single cab chassis vehicle with Automatic Manual Transmission (AMT)	Make and Model	Price excl. VAT	Price incl. VAT
Chassis Cab			
Chassis Cab accessories			
Superstructure (Water tank, sub chassis etc.) including body customization (structural work)			
Auxiliary engine and high-pressure system (pump, fuel tank, valves, filters, piping and accessories)			
Hose reels, hosing and cleaning accessories			
Electrical systems (lights, camera, monitor etc.)			
All relevant finishing and consumables			
Delivery, homologation, licensing and commissioning.			
Item 5.1A: Complete vehicle (Euro 3) with superstructure and customisation			
Item 5.1B: Complete vehicle (Euro 4) with superstructure and customisation			
Item 5.1C: Complete vehicle (Euro 5) with superstructure and customisation			
Item 5.1D: Superstructure and customisation including homologation, licensing and commissioning.			
Item 5.1E: Chassis cab vehicle (Euro 3) with chassis cab accessories			
Item 5.1F: Chassis cab vehicle (Euro 4) with chassis cab accessories			
Item 5.1G: Chassis cab vehicle (Euro 5) with chassis cab accessories			
Item 5.1H: Retarder option			
Item 5.1I: Hot/Warm water tank option			

Maintenance Schedule for Item 5.1	Parts mark up (%)	Price Rate for labour per hour excl. VAT	Price Rate for labour per hour incl. VAT
Item 5.1 Maintenance of Chassis Cab			
Item 5.1 Maintenance of Superstructure			

Item 5.2: 4x2 high pressure street cleaning single cab chassis vehicle with Fully Automatic Transmission (AT)	Make and Model	Price excl. VAT	Price incl. VAT
Chassis Cab			
Chassis Cab accessories			
Superstructure (Water tank, sub chassis etc.) including body customization (structural work)			
Auxiliary engine and high-pressure system (pump, fuel tank, valves, filters, piping and accessories)			
Hose reels, hosing and cleaning accessories			
Electrical systems (lights, camera, monitor etc.)			
All relevant finishing and consumables			
Delivery, homologation, licensing and commissioning.			
Item 5.2A: Complete vehicle (Euro 3) with superstructure and customisation			
Item 5.2B: Complete vehicle (Euro 4) with superstructure and customisation			
Item 5.2C: Complete vehicle (Euro 5) with superstructure and customisation			
Item 5.2D: Superstructure and customisation including homologation, licensing and commissioning.			
Item 5.2E: Chassis cab vehicle (Euro 3) with chassis cab accessories			
Item 5.2F: Chassis cab vehicle (Euro 4) with chassis cab accessories			
Item 5.2G: Chassis cab vehicle (Euro 5) with chassis cab accessories			
Item 5.2H: Retarder option			
Item 5.2I: Hot/Warm water tank option			

Maintenance Schedule for Item 5.2	Parts mark up (%)	Price Rate for labour per hour excl. VAT	Price Rate for labour per hour incl. VAT
Item 5.2 Maintenance of Chassis Cab			
Item 5.2 Maintenance of Superstructure			

Item 5.3: 4x2 high pressure street cleaning crew cab chassis vehicle with Automatic Manual Transmission (AMT)	Make and Model	Price excl. VAT	Price incl. VAT
Chassis Cab			
Chassis Cab accessories			
Superstructure (Water tank, sub chassis etc.) including body customization (structural work)			
Auxiliary engine and high-pressure system (pump, fuel tank, valves, filters, piping and accessories)			
Hose reels, hosing and cleaning accessories			
Electrical systems (lights, camera, monitor etc.)			
All relevant finishing and consumables			
Delivery, homologation, licensing and commissioning.			
Item 5.3A: Complete vehicle (Euro 3) with superstructure and customisation			
Item 5.3B: Complete vehicle (Euro 4) with superstructure and customisation			
Item 5.3C: Complete vehicle (Euro 5) with superstructure and customisation			
Item 5.3D: Superstructure and customisation including homologation, licensing and commissioning.			
Item 5.3E: Chassis cab vehicle (Euro 3) with chassis cab accessories			
Item 5.3F: Chassis cab vehicle (Euro 4) with chassis cab accessories			
Item 5.3G: Chassis cab vehicle (Euro 5) with chassis cab accessories			
Item 5.3H: Retarder option			
Item 5.3I: Hot/Warm water tank option			

Maintenance Schedule for Item 5.3	Parts mark up (%)	Price Rate for labour per hour excl. VAT	Price Rate for labour per hour incl. VAT
Item 5.3 Maintenance of Chassis Cab			
Item 5.3 Maintenance of Superstructure			

Item 5.4: 4x2 high pressure street cleaning crew cab chassis vehicle with Fully Automatic Transmission (AT)	Make and Model	Price excl. VAT	Price incl. VAT
Chassis Cab			
Chassis Cab accessories			
Superstructure (Water tank, sub chassis etc.) including body customization (structural work)			
Auxiliary engine and high-pressure system (pump, fuel tank, valves, filters, piping and accessories)			
Hose reels, hosing and cleaning accessories			
Electrical systems (lights, camera, monitor etc.)			
All relevant finishing and consumables			
Delivery, homologation, licensing and commissioning.			
Item 5.4A: Complete vehicle (Euro 3) with superstructure and customisation			
Item 5.4B: Complete vehicle (Euro 4) with superstructure and customisation			
Item 5.4C: Complete vehicle (Euro 5) with superstructure and customisation			
Item 5.4D: Superstructure and customisation including homologation, licensing and commissioning.			
Item 5.4E: Chassis cab vehicle (Euro 3) with chassis cab accessories			
Item 5.4F: Chassis cab vehicle (Euro 4) with chassis cab accessories			
Item 5.4G: Chassis cab vehicle (Euro 5) with chassis cab accessories			
Item 5.4H: Retarder option			
Item 5.4I: Hot/Warm water tank option			

Maintenance Schedule for Item 5.4	Parts mark up (%)	Price Rate for labour per hour excl. VAT	Price Rate for labour per hour incl. VAT
Item 5.4 Maintenance of Chassis Cab			
Item 5.4 Maintenance of Superstructure			

Item 6.1: 6x4 Vacuum tanker single cab chassis vehicle with Automatic Manual Transmission (AMT)	Make and Model	Price excl. VAT	Price incl. VAT
Vehicle (Chassis)			
Vehicle accessories			
Superstructure (tank) including body customization (structural work)			
Vacuum system (pump, tank, cylinders, valves, filters, piping and accessories)			
Hydraulic controls			
Power take off (PTO) unit			
Electrical systems (lights, camera, monitor etc.)			
All relevant finishing, consumables and hydraulic oil.			
Delivery, homologation, licensing and commissioning.			
Item 6.1A: Complete vehicle (Euro 3) with superstructure and customisation			
Item 6.1B: Complete vehicle (Euro 4) with superstructure and customisation			
Item 6.1C: Complete vehicle (Euro 5) with superstructure and customisation			
Item 6.1D: Superstructure and customisation including homologation, licensing and commissioning.			
Item 6.1E: Chassis cab vehicle (Euro 3) with chassis cab accessories			
Item 6.1F: Chassis cab vehicle (Euro 4) with chassis cab accessories			
Item 6.1G: Chassis cab vehicle (Euro 5) with chassis cab accessories			
Item 6.1H: Extended Driver's cab option			
Item 6.1L: Load sensing system for skip payload			

Maintenance Schedule for Item 6.1	Parts mark up (%)	Price Rate for labour per hour excl. VAT	Price Rate for labour per hour incl. VAT
Item 6.1 Maintenance of Chassis Cab			
Item 6.1 Maintenance of Superstructure			

Item 6.2: 6x4 Vacuum tanker single cab chassis vehicle with Fully Automatic Transmission (AT)	Make and Model	Price excl. VAT	Price incl. VAT
Vehicle (Chassis)			
Vehicle accessories			
Superstructure (tank) including body customization (structural work)			
Vacuum system (pump, tank, cylinders, valves, filters, piping and accessories)			
Hydraulic controls			
Power take off (PTO) unit			
Electrical systems (lights, camera, monitor etc.)			
All relevant finishing, consumables and hydraulic oil.			
Delivery, homologation, licensing and commissioning.			
Item 6.2A: Complete vehicle (Euro 3) with superstructure and customisation			
Item 6.2B: Complete vehicle (Euro 4) with superstructure and customisation			
Item 6.2C: Complete vehicle (Euro 5) with superstructure and customisation			
Item 6.2D: Superstructure and customisation including homologation, licensing and commissioning.			
Item 6.2E: Chassis cab vehicle (Euro 3) with chassis cab accessories			
Item 6.2F: Chassis cab vehicle (Euro 4) with chassis cab accessories			
Item 6.2G: Chassis cab vehicle (Euro 5) with chassis cab accessories			
Item 6.2H: Extended Driver's cab option			
Item 6.2L: Load sensing system for skip payload			

Maintenance Schedule for Item 6.2	Parts mark up (%)	Price Rate for labour per hour excl. VAT	Price Rate for labour per hour incl. VAT
Item 6.2 Maintenance of Chassis Cab			
Item 6.2 Maintenance of Superstructure			

SECTION 9 : OFFICIAL TENDER FORM

Part A: OFFER BY TENDERER - In response to **Tender Number : 1J- 25960** I / we hereby offer to supply the goods / services detailed hereunder in accordance with the Technical Specification, and subject to the Standard and Special Conditions of Tender (Goods/Services), and General and Special Conditions of Contract, which accompanied your Tender (with which I / we acknowledge myself / ourselves to be fully acquainted) at the price stated below, or in the case of individual rates are indicated in Section 8 : Bill Of Quantities / Schedule of Rates / Activities.

I / We hereby agree that this tender will hold good and remain open for acceptance as specified in the Conditions of Tender or during such other period as may be specified in the Special Conditions of Tender.

eThekwini Vendor Portal Registration Number:

PR

C.S.D Registration Number:

MAAA

S.A.R.S Pin Number:

Completion of the following is compulsory. Failure to declare the following will invalidate your offer.

Declaration of Interest

Are any of the entity's directors, managers, principle shareholder or stakeholders currently in the service of the state or have been in the service of the state in the past twelve (12) months?				☐ Yes	☐ No
Is any spouse, child or parent of the entity's directors, managers, principle shareholder or stakeholder currently in the service of the state or have been in the service of the state in the past twelve (12) months?				☐ Yes	☐ No
Name of entity's member	Position in Entity	Name of Relative (if applicable)	Name of State Institution	Nature of Relationship	
Do you or any other directors, managers, principle shareholder or stakeholder of your entity have any relationship (spouse, family, friend, associate) with persons in the service of the state and/or who may be involved with the evaluation of this quotation? If yes please furnish particulars below				☐ Yes	☐ No
Name of entity's member	Position in Entity	Name of Relative (if applicable)	Name of State Institution	Nature of Relationship	

Refer to the Consolidated MBD Documents in Section 4(d) for the definition of "in service of the State"

*** Signature :***** Name (capitals):****Date:****Capacity:***** Name of Business:****Tel:****Address:****Fax:***** Denotes Mandatory Information**

Failure to complete the Mandatory Information and sign this Tender Form will invalidate the tender

Part B: ACCEPTANCE BY PURCHASER - The Purchaser, as represented by the following Official, hereby accepts the Tenderer's offer in terms of the Conditions of Tender, Specifications, and Conditions of Contract.

Signature:**Name (capitals):****Date:****Capacity:**

SECTION 10: ANNEXURES (if applicable)

Insert as required