


TENDER DOCUMENT GOODS AND SERVICES		 CITY OF CAPE TOWN ISIXEKO SASEKAPA STAD KAAPSTAD	
SUPPLY CHAIN MANAGEMENT			
SCM - 542	Approved by Branch Manager: 03/04/2020	Version: 8	Page 1 of 66

TENDER NO: 202G/2022/23

TENDER DESCRIPTION: SUPPLY AND DELIVERY OF TRAFFIC SIGNAL MATERIALS TO THE TRANSPORT NETWORK MANAGEMENT DEPARTMENT WITHIN THE CITY OF CAPE TOWN BOUNDARY

CONTRACT PERIOD: FROM DATE OF COMMENCEMENT TILL 30 JUNE 2026

VOLUME 1: TENDERING PROCEDURES

CLOSING DATE: 14 December 2022

CLOSING TIME: 10:00 a.m.

**TENDER BOX
NUMBER:** 117

TENDER FEE: R 200.00 Non-refundable tender fee payable to City of Cape Town (CCT) for a hard copy of the tender document. This fee is not applicable to website downloads of the tender document.

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

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

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

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VOLUME 1: THE TENDER

(1) GENERAL TENDER INFORMATION

TENDER ADVERTISED

: 11 November 2022

SITE VISIT/CLARIFICATION MEETING

: Non Compulsory but strongly recommended
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VENUE FOR SITE VISIT/CLARIFICATION
MEETING

: TMC (Goodwood)

TENDER BOX & ADDRESS

: **Tender Box as per front cover at the Tender & Quotation Boxes Office, 2nd Floor (Concourse Level), Civic Centre, 12 Hertzog Boulevard, Cape Town.**

: The Tender Document (which includes the Form of Offer and Acceptance) completed in all respects, plus any additional supporting documents required, must be submitted in a sealed envelope with the name and address of the tenderer, the endorsement

“TENDER NO: 202G/2022/23 TENDER DESCRIPTION: SUPPLY AND DELIVERY OF TRAFFIC SIGNAL MATERIALS TO THE TRANSPORT NETWORK MANAGEMENT DEPARTMENT WITHIN THE CITY OF CAPE TOWN BOUNDARY

the tender box No. and the closing date indicated on the envelope. The sealed envelope must be inserted into the appropriate official tender box before closing time.

If the tender offer is too large to fit into the abovementioned box or the box is full, please enquire at the public counter (Tender Distribution Office) for alternative instructions. It remains the tenderer's responsibility to ensure that the tender is placed in either the original box or as alternatively instructed.

CCT TENDER REPRESENTATIVE

[Name: Yonwaba Nkolonzi.....

Tel. No.: (+27) 21 444 1997

Email: yonwaba.nkolonzi@capetown.gov.za.....

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



City of Cape Town

Urban Mobility: Transport Network Management

Contract No. 202G/2022/23

Framework Agreement for Supply and Delivery of traffic Signals Materials to the Transport Network Management department within the City of Cape Town Boundary.

**Locality Plan-Site Visit/ Clarification Meeting Venue
Schedule for 18 November 2022 At 10H00**

(2) CONDITIONS OF TENDER

2.1 General

2.1.1 Actions

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

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

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

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

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

2.1.2 Interpretation

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

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

2.1.3 Communication during tender process

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

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

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

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

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

2.1.5 Procurement procedures

2.1.5.1 General

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

2.1.5.1.1 The tender will be awarded per category provided that the tenderer price for all items within a category Listed in the table below. All items and sub items per category to be priced in order to be considered.

CATEGORY	DESCRIPTION
1	Traffic Signal Lanterns
2	Traffic Signal Lanterns For ST Signs
3	Uninterruptable Power Supply (UPS) and Cabinets
4	Energy Storage Modules, Inverters and Solar Equipment
5	Traffic Signal Controllers, Routers and Spares
6	Non-intrusive Detection Equipment
7	Drilling Machine and Core-bit
8	Cables and Accessories
9	Connection Pillars
10	Flashing Light Equipment
11	Pole For Mounting Brackets &Traffic Signal Poles
12	Pedestrian Detection Equipment
13	Vinyl Numbers, Logos and Decals
14	Vandal Proof Cage For Controller & Peripheral Equipment
15	Civil Engineering Material

2.1.5.1.2 The CCT intends to appoint a main supplier and in addition a standby supplier per category for the delivery of goods.

2.1.5.3 Suppliers once appointed and subject to operational requirements, will be invited to deliver the goods, where by the order will always be offered and, if accepted, allocated to the highest ranked tenderer ("winner"), and only if he refuses will the order be offered to the next highest tenderer (standby supplier).

The contract period shall be from the date of commencement of contract until 30 June 2026.

2.1.5.2 Proposal procedure using the two stage-system

A two-stage system will not be followed.

2.1.5.3 Nomination of Alternative Bidder

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

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

2.1.6.1 Disputes, objections, complaints and queries

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

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

2.1.6.2 Appeals

- a) In terms of Section 62 of the Local Government: Municipal Systems Act, 32 of 2000 a person whose rights are affected by a decision taken by the City, may appeal against that decision by giving written notice of the appeal and reasons to the City Manager within 21 days of the date of the notification of the decision.
- b) An appeal must contain the following:
 - i. Must be in writing
 - ii. It must set out the reasons for the appeal
 - iii. It must state in which way the Appellant's rights were affected by the decision;
 - iv. It must state the remedy sought; and
 - v. It must be accompanied with a copy of the notification advising the person of the decision
- c) The relevant City appeal authority must consider the appeal and **may confirm, vary or revoke** the decision that has been appealed, but no such revocation of a decision may detract from any rights that may have accrued as a result of the decision.

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

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

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

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

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

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

Via fax at: 021 400 5963 or 021 400 5830

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

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

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

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

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

Via fax at: 086 202 9982

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

2.1.7 City of Cape Town Supplier Database Registration

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

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

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

2.1.8 National Treasury Web Based Central Supplier Database (CSD) Registration

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

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

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

The Employer's Information Officer who is responsible for overseeing questions in relation to data protection may be contacted at Popia@capetown.gov.za.

By submitting a tender to the City of Cape Town, (and by concluding any ensuing related agreement with the City of Cape Town, if applicable), the Tenderer thereby acknowledges and unconditionally agrees:

- 1.1. that the tenderer has been informed of the purpose of the collection and processing of its personal information as defined in the Protection of Personal Information Act of 2013 ("POPIA"), which, for the avoidance of doubt is for, and in relation to, the tender process and the negotiation, conclusion, performance and enforcement of the ensuing agreement, if applicable, as well as for the City of Cape Town's reporting purposes;
- 1.2. to the collection and processing of the tenderer's personal information by the City of Cape Town and agrees to make available to the City of Cape Town, all information reasonably required by the City of Cape Town for the above purposes;
- 1.3. that the personal information the City of Cape Town collects from the tenderer or about the tenderer may be further processed for other activities and/or purposes which are lawful, reasonable, relevant and not excessive in relation to the purposes set out above, for which it was originally collected;
- 1.4. that, the tenderer indemnifies the City of Cape Town and its officials, employees, and directors and undertakes to keep the City of Cape Town and its officials, employees, and directors indemnified in respect of any claim, loss, demands, liability, costs and expenses of whatsoever nature which may be made against the City of Cape Town (including the costs incurred in defending or contesting any such claim) in relation to the tenderer or the tenderer's employees', representatives' and/or sub-contractors' non-compliance with POPIA and/or the City of Cape Town's failure to obtain the tenderer's consent or

to notify the tenderer of the reason for the processing of the tenderer's personal information;

- 1.5 to the disclosure of the tenderer's personal information by the City of Cape Town to any third party, where the City of Cape Town has a legal or contractual obligation to disclose such personal information to the third party (or a legitimate interest exists therein);
- 1.6 that, under POPIA, the tenderer may request to access, confirm, request the correction, destruction, or deletion of, or request a description of, personal information held by the City of Cape Town in relation to you, subject to applicable law; and
- 1.7 that under POPIA, subject to applicable law, the tenderer also has the right to be notified of a personal information breach and the right to object to, or restrict, the City of Cape Town's processing of its personal information.

2.2 Tenderer's obligations

2.2.1 Eligibility Criteria

2.2.1.1 Tenderers are obligated to submit a tender offer that complies in all aspects to the conditions as detailed in this tender document. Only those tenders that comply in all aspects with the tender conditions, specifications, pricing instructions and contract conditions will be declared to be responsive.

2.2.1.1.1 Submit a tender offer

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

2.2.1.1.2 Compliance with requirements of CCT SCM Policy and procedures

Only those tenders that are compliant with the requirements below will be declared responsive:

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

2.2.1.1.3 Compulsory clarification meeting –Non compulsory but strongly recommended

2.2.1.1.4 Minimum score for functionality

Only those tenders submitted by tenderers who achieve the minimum score per category for functionality as stated below will be declared responsive

The minimum qualifying score is two (2) points out of a maximum of three (3) per category tendered for.

Where the entity tendering is a Joint Venture the tender must be accompanied by a statement describing exactly what aspects of the work will be undertaken by each party to the joint venture.

Tenderers shall ensure that all relevant information has been submitted with the tender offer in the prescribed format to ensure optimal scoring of functionality points for each Evaluation Criteria. Failure to provide all information **IN THIS TENDER SUBMISSION** could result in the tenderer not being able to achieve the specified minimum scoring in that specific category.

CATEGORY	DESCRIPTION	VALUE OF MATERIAL SUCCESSFULLY DELIVERED IN THE PAST FIVE (5) YEARS	POINTS APPLICABLE
1	Traffic Signal Lanterns	R0	0
		R1 - 500 000	2
		R500 001- and up	3
2	Traffic Signal Lanterns For ST Signs	R0	0
		R1 - 500 000	2
		R500 001- and up	3
3	Uninterruptable Power Supply (UPS) and Cabinets	R0	0
		R1 - 500 000	2
		R500 001- and up	3
4	Energy Storage Modules, Inverters and Solar Equipment	R0	0
		R1 - 500 000	2
		R500 001- and up	3
5	Traffic Signal Controllers, Routers and Spares	R0	0
		R1 - 500 000	2
		R500 001- and up	3
6	Non-intrusive Detection Equipment	R0	0
		R1 - 500 000	2
		R500 001- and up	3
7	Drilling Machine and Core-bit	R0	0
		R1 - 500 000	2
		R500 001- and up	3
8	Cables and Accessories	R0	0
		R1 - 1 000 000	2
		R 1 000 001- and up	3
9	Connection Pillars	R0	0
		R1 - 50 000	2
		R50 001- and up	3
10	Flashing Light Equipment	R0	0
		R1 - 1 000 000	2
		R 1 000 001- and up	3
11	Pole For Mounting Brackets & Traffic Signal Poles	R0	0
		R1 - 500 000	2
		R 500 001- and up	3
12	Pedestrian Detection Equipment	R0	0
		R1 - 500 000	2
		R500 001- and up	3
13	Vinyl Numbers, Logos and Decals	R0	0
		R1 - 50 000	2
		R50 001 – and up	3
14	Vandal Proof Cage For Controller & Peripheral Equipment	R0	0
		R1 - 500 000	2
		R 500 001- and up	3
15	Civil Engineering Material	R0	0
		R1 - 500 000	2
		R 500 001- and up	3

2.2.1.1.5 Local production and content

The City promotes the procurement of goods manufactured by local suppliers. The Department of Trade and Industry and National Treasury has identified specific designated sectors which require local content compliance. The current designated sectors are listed below:

Note: All to be listed including the date that the relevant Sector became effective.

Tenderers are required to ensure that they comply with these designated Sector requirements by ensuring that the products provided to the City are locally manufactured. Failure to meet the minimum stipulated threshold for local production and content will result in a bid being declared non-responsive.

Further details of designated sectors are available on http://www.thedti.gov.za/industrial_development/ip.jsp and http://ocpo.treasury.gov.za/Buyers_Area/Legislation/Pages/Practice-Notes.aspx

In addition to the above:

The supplier shall study the terms and conditions as stated in the **Local Content Declaration / Annexure C** returnable schedule.

The stipulated minimum threshold percentages for local production and content for the **Electrical and Telecoms Cable sector** ("the designated sector") is **90%**, will include all sub-sectors from the applicable National Treasury Instruction Note.

The stipulated minimum threshold percentages for local production and content for the **Steel Products and Component for Construction (Value-added steel products)** ("the designated sector") is **100%** will include all sub-sectors from the applicable National Treasury Instruction Note.

The stipulated minimum threshold percentages for local production and content for the **Inverters and Mounting Structures** ("the designated sector") is **40% and 90%** will include all sub-sectors from the applicable National Treasury Instruction Note.

The stipulated minimum threshold percentages for local production and content for the **Two Way Radio and Associated Equipment** ("the designated sector") is **60%** will include all sub-sectors from the applicable National Treasury Instruction Note.

The stipulated minimum threshold percentages for local production and content for the **Industrial Lead Acid Batteries** ("the designated sector") is **50%** will include all sub-sectors from the applicable National Treasury Instruction Note.

The stipulated minimum threshold percentages for local production and content for the **Plastic Pipes** ("the designated sector") is **100%** will include all sub-sectors from the applicable National Treasury Instruction Note.

If the raw material or input to be used for a specific item is not available locally, suppliers should obtain written authorisation from the Department of Trade and Industry (DTI) (Chief Director: Industrial Procurement, tel. 012 394 3927 and fax 012 394 4927) should there be a need to import such raw material or input.

A copy of the authorisation letter must be submitted together with the bid document at the closing date and time of the bid.

The CCT is obliged and must ensure that contracts for the **designated sectors** are awarded at prices that are market related taking into account, among others, benchmark prices designated by the DTI for the sector, value for money and economies of scale. Where appropriate, prices may be negotiated with preferred bidders in accordance with provisions for Negotiation with Preferred Bidders as set out in the CCT SCM Policy.

A bid will be declared non-responsive / disqualified if the Declaration Certificate for Local Production and Content and Annex C as well as the authorisation letter referred to above (if applicable) are not submitted as part of the bid documentation at the closing date and time of the bid.

For further information relating to the local production and content legislation, suppliers may refer to website http://www.thedti.gov.za/industrial_development/ip.jsp, or may contact the Chief Director: Industrial

Procurement at the DTI at telephone number (012) 394 3927 and fax (012) 394 4927, the Director: Fleet Procurement, Ms Cathrine Matidza, at telephone number (012) 394 3927 and e-mail CMatidza@thedti.gov.za, or the DTI Contact Centre no 0861 843384.

2.2.1.1.6 Pre-qualification criteria for preferential procurement

Not applicable

2.2.2 Cost of tendering

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

2.2.3 Check documents

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

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

2.2.4 Confidentiality and copyright of documents

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

2.2.5 Reference documents

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

2.2.6 Acknowledge and comply with notices

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

2.2.7 Clarification meeting

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

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

2.2.8 Seek clarification

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

2.2.9 Pricing the tender offer

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

2.2.10 Alterations to documents

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

shall initial all such alterations.

2.2.11 Alternative tender offers

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

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

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

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

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

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

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

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

2.2.12 submitting a tender offer

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

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

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

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

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

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

2.2.12.5 Where a two-envelope system is required in terms of the tender conditions, place and seal the returnable documents listed in the tender conditions in an envelope marked "financial proposal" and place the remaining returnable documents in an envelope marked "technical proposal". Each envelope shall state on the outside the CCT's address and identification details stated in the General Tender Information, as well as the tenderer's name and contact address.

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

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

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

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

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

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

2.2.13 Information and data to be completed in all respects

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

2.2.14 Closing time

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

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

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

2.2.15 Tender offer validity and withdrawal of tenders

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

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

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

- a) it shall be liable to the CCT for any additional expense incurred or losses suffered by the CCT in having either to accept another tender or, if new tenders have to be invited, the additional expenses incurred or losses suffered by the invitation of new tenders and the subsequent acceptance of any other tender;
- b) the CCT shall also have the right to recover such additional expenses or losses by set-off against monies which may be due or become due to the tenderer under this or any other tender or contract or against any guarantee or deposit that may have been furnished by the tenderer or on its behalf for the

due fulfilment of this or any other tender or contract. Pending the ascertainment of the amount of such additional expenses or losses, the CCT shall be entitled to retain such monies, guarantee or deposit as security for any such expenses or loss.

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

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

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

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

2.2.17 Provide other material

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

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

- a) Audited annual financial statement for the past 3 years, or for the period since establishment if established during the past 3 years, if required by law to prepare annual financial statements for auditing;
- b) a certificate signed by the tenderer certifying that the tenderer has no undisputed commitments for municipal services towards a municipality or other service provider in respect of which payment is overdue for more than 30 days;
- c) particulars of any contracts awarded to the tenderer by an organ of state during the past five years, including particulars of any material non-compliance or dispute concerning the execution of such contract;
- d) a statement indicating whether any portion of the goods or services are expected to be sourced from outside the Republic, and, if so, what portion and whether any portion of payment from the municipality or municipal entity is expected to be transferred out of the Republic.

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

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

2.2.18 Samples, inspections, tests and analysis

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

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

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

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

2.2.19 Certificates

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

2.2.19.1 Broad-Based Black Economic Empowerment Status Level Documentation

In order to qualify for preference points, it is the responsibility of the tenderer to submit documentary proof, either as certificates, sworn affidavits or any other requirement prescribed in terms of the B-BBEE Act, of its B-BBEE status level of contribution in accordance with the applicable Codes of good practise as issued by the Department of Trade and Industry, to the CCT at the Supplier Management Unit located within the Supplier Management / Registration Office, 2nd Floor (Concourse Level), Civic Centre, 12 Hertzog Boulevard, Cape Town (Tel 021 400 9242/3/4/5) or included with the tender submission.

Consortiums/Joint Ventures will qualify for preference points, provided that the **entity** submits the relevant certificate/scorecard in accordance with the applicable codes of good practise. Note that, in the case of unincorporated entities, a verified consolidated B-BBEE scorecard must be submitted in the form of a certificate with the tender.

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

The applicable code for this tender is the **Amended Codes of Good Practise (Generic Scorecard)** unless in possession of a valid sector certificate.

The tenderer shall indicate in Section 4 of the **Preference Schedule** the Level of Contribution in respect of the enterprise status or structure of the tendering entity (the supplier).

2.2.19.2 Evidence of tax compliance

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

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

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

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

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

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

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

2.2.21 Claims arising from submission of tender

The tenderer warrants that it has:

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

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

2.3 The CCT's undertakings

2.3.1 Respond to requests from the tenderer

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

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

2.3.2 Issue Notices

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

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

2.3.3 Opening of tender submissions

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

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

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

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

2.3.4 Two-envelope system

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

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

2.3.5 Non-disclosure

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

2.3.6 Grounds for rejection and disqualification

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

2.3.7 Test for responsiveness

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

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

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

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

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

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

2.3.8 Arithmetical errors, omissions and discrepancies

2.3.8.1 Check the responsive tenders for:

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

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

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

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

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

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

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

2.3.9 Clarification of a tender offer

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

2.3.10 Evaluation of tender offers

2.3.10.1 General

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

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

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

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

2.3.10.2 Decimal places

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

2.3.10.3 Scoring of tenders (price and preference)

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

- Based on the sum of the prices/rates in relation to historical volumes. |

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

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

2.3.10.3.4 Applicable formula:

The 90/10 price/preference points system will be applied to the evaluation of responsive tenders that exceed R50 000 000 (all applicable taxes included), whereby the order(s) will be placed with the tenderer(s) scoring the highest total number of adjudication points.

Price shall be scored as follows:

$$P_s = 90 \times \left(1 - \frac{(P_t - P_{min})}{P_{min}}\right)$$

Where: P_s is the number of points scored for price;
 P_t is the price of the tender under consideration;
 P_{min} is the price of the lowest responsive tender.

Preference points shall be scored as follows:

Points will be awarded to tenderers who are eligible for preferences in respect of the B-BBEE level of contributor attained in terms of **Preference Schedule**.

A maximum of 10 tender adjudication points will be awarded for preference to tenderers with responsive tenders who are eligible for such preference, in accordance with the criteria listed below.

Up to 10 adjudication points (N_P) will be awarded for the level of B-BBEE contribution, in accordance with the tables below:

B-BBEE Status Level of Contributor	Number of Points for Preference
1	10
2	9
3	6
4	5
5	4
6	3
7	2
8	1
Non-compliant contributor	0

**A non-compliant contributor is one who does not meet the minimum score for a level 8 contributor.*

Or, in respect of Exempted Micro Enterprises (EMEs):

Black Ownership of EME	Deemed Status Contributor	B-BBEE Level of Contributor	Number of Points for Preference
less than 51%	4		5
at least 51% but less than 100%	2		9
100%	1		10

Or, in respect of Qualifying Small Enterprises (QSEs):

Black Ownership of QSE	Deemed Status Contributor	B-BBEE Level of Contributor	Number of Points for Preference
at least 51% but less than 100%	2		9
100%	1		10

The total number of adjudication points (N_T) shall be calculated as follows:

$$N_T = P_s + N_P$$

Where: P_s is the number of points scored for price;
 N_P is the number of points scored for preference.

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

2.3.10.5 Risk Analysis

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

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

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

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

2.3.11 Negotiations with preferred tenderers

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

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

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

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

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

In terms of the PPPFA Regulations, 2017, tenders must be cancelled in the event that negotiations fail to achieve a market related price with any of the three highest scoring tenderers.

2.3.12 Acceptance of tender offer

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

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

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

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

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

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

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

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

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

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

2.3.13 Prepare contract documents

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

- a) Notices issued during the tender period,
- b) Inclusion of some of the returnable documents, and
- c) Other revisions agreed between the CCT and the successful tenderer.

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


2.3.14 Notice to successful and unsuccessful tenderers

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

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

2.3.15 Provide written reasons for actions taken

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

TENDER DOCUMENT GOODS AND SERVICES		 CITY OF CAPE TOWN ISIXEKO SASEKAPA STAD KAAPSTAD	
SUPPLY CHAIN MANAGEMENT			
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TENDER NO: 202G/2022/23
TENDER DESCRIPTION: SUPPLY AND DELIVERY OF TRAFFIC SIGNAL MATERIALS TO THE TRANSPORT NETWORK MANAGEMENT DEPARTMENT WITHIN THE CITY OF CAPE TOWN BOUNDARY

CONTRACT PERIOD: FROM DATE OF COMMENCEMENT TILL 30 JUNE 2026

VOLUME 2: RETURNABLE DOCUMENTS

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

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

VOLUME 2: RETURNABLE DOCUMENTS

(3) DETAILS OF TENDERER

1.1 Type of Entity (Please tick one box)

☐ Individual / Sole Proprietor

☐ Close Corporation

☐ Company

☐ Partnership or Joint Venture or Consortium

☐ Trust

☐ Other:

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

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

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

(4) FORM OF OFFER AND ACCEPTANCE

TENDER: 202G/2022/23 SUPPLY AND DELIVERY OF TRAFFIC SIGNAL MATERIALS TO THE TRANSPORT NETWORK MANAGEMENT DEPARTMENT WITHIN THE CITY OF CAPE TOWN BOUNDARY

OFFER: (TO BE FILLED IN BY TENDERER):

Required Details (Please provide applicable details in full):

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

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

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

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

1. confirms that it has examined the documents listed in the Index (including Schedules and Annexures) and has accepted all the Conditions of Tender;
2. confirms that it has received and incorporated any and all notices issued to tenderers issued by the CCT;
3. confirms that it has satisfied itself as to the correctness and validity of the tender offer; that the price(s) and rate(s) offered cover all the goods and/or services specified in the tender documents; that the price(s) and rate(s) cover all its obligations and accepts that any mistakes regarding price(s), rate(s) and calculations will be at its own risk;
4. offers to supply all or any of the goods and/or render all or any of the services described in the tender document to the CCT in accordance with the:
 - 4.1 terms and conditions stipulated in this tender document;
 - 4.2 specifications stipulated in this tender document; and
 - 4.3 at the prices as set out in the **Price Schedule**.
5. accepts full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on it in terms of the Contract.

Signature(s)

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

Date

INITIALS OF CITY OFFICIALS		
1	2	3

FORM OF OFFER AND ACCEPTANCE (continued)

TENDER: 202G/2022/23 SUPPLY AND DELIVERY OF MATERIALS TO THE TRANSPORT NETWORK MANAGEMENT DEPARTMENT WITHIN THE CITY OF CAPE TOWN BOUNDARY

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

By signing this part of this form of offer and acceptance, the employer identified below accepts the tenderer's offer. In consideration thereof, the employer shall pay the supplier the amount due in accordance with the conditions of contract. Acceptance of the tenderer's offer shall form an agreement between the employer and the tenderer upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

The terms of the contract are contained in:

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

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

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

The tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the employer to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documents to be provided in terms of the conditions of contract identified in the special contract conditions. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the parties have signed the table below and confirms receipt from the employer of one fully completed original copy of this agreement, including the schedule of deviations (if any). The tenderer (now supplier) shall within five working days of the agreement coming into effect notify the employer in writing of any reason why he cannot accept the contents of this agreement as a complete and accurate memorandum thereof, failing which the agreement presented to the contractor shall constitute the binding contract between the parties.

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

ONLY TO BE
COMPLETED AT
ACCEPTANCE STAGE

FORM OF OFFER AND ACCEPTANCE (continued)

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

Schedule of Deviations

Notes:

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

1 Subject

Details

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2 Subject

Details

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3 Subject

Details

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4 Subject

Details

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

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

(5) PRICE SCHEDULE

Bid specifications may not make any reference to any particular trade mark, name, patent, design, type, specific origin or producer, unless there is no other sufficiently precise or intelligible way of describing the characteristics of the work and tenderers must note that such reference shall be deemed to be accompanied by the words "or equivalent".

CATEGORY 1					
TRAFFIC SIGNAL LANTERNS					
Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
1.1	300MM TRAFFIC SIGNAL LANTERNS _ EMPTY				
1.1.1	5 - Aspect Right Turn Traffic Signal Lantern	Each	1.1.1		20
1.1.2	5 - Aspect Nylon Left Turn Traffic Signal Lantern	Each	1.1.2		20
1.1.3	3 - Aspect Nylon Traffic Signal Lantern	Each	1.1.3		20
1.1.4	2 - Aspect Nylon Traffic/Arrow/Pedestrian Traffic Signal Lantern	Each	1.1.4		20
1.1.5	3 – Aspect Nylon Combi-Head	Each	1.1.5		20
1.2	300MM TRAFFIC SIGNAL LANTERNS_COMPLETE				
1.2.1	5 - Aspect Right Turn Traffic Signal Lantern	Each	1.2.1		25
1.2.2	5 - Aspect Nylon Left Turn Traffic Signal Lantern	Each	1.2.2		25
1.2.3	3 - Aspect Nylon Traffic Signal Lantern	Each	1.2.3		25
1.2.4	2 – Aspect Nylon Bus Traffic Signal Lantern	Each	1.2.4		25
1.2.5	3 - Aspect Nylon Bus Traffic Signal Lantern	Each	1.2.5		25
1.2.6	3 - Aspect Nylon Combi-Head	Each	1.2.6		25
1.3	GLASS FIBRE BACKGROUND SCREENS FOR 300MM TRAFFIC SIGNAL LANTERNS				
1.3.1	Glass fibre screen for lantern tendered above 5 Aspect Right turn 300mm nylon lantern.	Each	1.3.1		20
1.3.2	Glass fibre screen for lantern tendered above 5 Aspect Left Turn 300mm nylon lantern.	Each	1.3.2		20

Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
1.3.3	Glass fibre screen for lantern tendered above 3 Aspect 300mm nylon traffic lantern	Each	1.3.3		20
1.3.4	Glass fibre screen for lantern tendered above 3 Aspect 300mm nylon traffic Combi-Head lantern.	Each	1.3.4		20
1.3.5	Glass fibre screen for lanterns tendered above 2 Aspect 300mm nylon lantern	Each	1.3.5		20
1.4	210MM TRAFFIC SIGNAL LANTERNS_EMPTY				
1.4.1.	5 - Aspect Nylon Right Turn Traffic Signal Lantern - EMPTY	Each	1.4.1		20
1.4.2	5 - Aspect Nylon Left Turn Traffic Signal Lantern - EMPTY	Each	1.4.1		20
1.4.3	3 - Aspect Nylon Traffic Signal Lantern - EMPTY	Each	1.4.2		20
1.4.4	2 - Aspect Nylon Traffic/Arrow/Pedestrian/Bicycle Lantern – EMPTY	Each	1.4.3		20
1.4.5	4 - Aspect Nylon Traffic Signal Lantern - EMPTY	Each	1.4.4		20
1.5	210MM TRAFFIC SIGNAL LANTERNS_COMPLETE				
1.5.1	5 - Aspect Nylon Right Turn Traffic Signal Lantern – COMPLETE	Each	1.5.1		25
1.5.2	5 - Aspect Nylon Left Turn Traffic Signal Lantern - COMPLETE	Each	1.5.2		25
1.5.3	3 - Aspect Nylon Traffic Signal Lantern - COMPLETE	Each	1.5.3		25
1.5.4	3 - Aspect IRT Bus Traffic Signal Lantern with special dot Symbol - COMPLETE	Each	1.5.4		25
1.5.5	2 - Aspect IRT Bus Traffic Signal Lantern with special dot Symbol - COMPLETE	Each	1.5.5		25
1.5.6	1- Aspect IRT Bus Traffic Signal Lantern with special dot Symbol - COMPLETE	Each	1.5.6		25
1.5.7	2 – Aspect Nylon Pedestrian Traffic Lantern – COMPLETE	Each	1.5.7		25
1.5.8	2 – Aspect Nylon Bicycle Lantern – COMPLETE	Each	1.5.8		25
1.5.9	2 – Aspect Nylon Arrow Lantern – COMPLETE	Each	1.5.9		25
1.5.10	4 - Aspect Nylon Lantern - Complete	Each	1.5.10		25

Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
1.6	Glass fibre background screens for 210mm lanterns:				
1.6.1	5 Aspect Right turn Glass fibre screen	Each	1.6.1		20
1.6.2	5 Aspect Left turn Glass fibre screen	Each	1.6.2		20
1.6.3	4 Aspect Glass fibre screen	Each	1.6.3		20
1.6.4	3 Aspect Glass fibre screen	Each	1.6.4		20
1.6.5	2 Aspect Glass fibre screen	Each	1.6.5		20
1.6.6	3 Aspect Glass fibre screen	Each	1.6.6		20
1.6.7	2 Aspect Glass fibre screen	Each	1.6.7		20
1.6.8	1 Aspect Glass fibre screen	Each	1.6.8		20
1.6.9	3 Aspect Glass fibre screen	Each	1.6.9		20
1.7	300MM LED TRAFFIC SIGNAL MODULES				
1.7.1	300mm Red Traffic	Each	1.7.1		20
1.7.2	300mm Yellow Traffic	Each	1.7.2		20
1.7.3	300mm Green Traffic	Each	1.7.3		20
1.7.4	300mm Yellow Arrow	Each	1.7.4		20
1.7.5	300mm Green Arrow	Each	1.7.5		20
1.7.6	300mm BUS Red Traffic	Each	1.7.6		20
1.7.7	300mm BUS Yellow Traffic	Each	1.7.7		20
1.7.8	300mm BUS Green Traffic	Each	1.7.8		20
1.7.9	300mm Red Countdown Timer	Each	1.7.9		20

Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
1.7.10	300mm Green Countdown Timer	Each	1.7.10		20
1.7.11	300mm Traffic Lantern Hood	Each	1.7.11		20
1.7.12	300mm Futurit or equivalent LED module bus mask	Each	1.7.12		20
1.8	210MM LED TRAFFIC SIGNAL MODULES				
1.8.1	210mm Red Traffic	Each	1.8.1		20
1.8.2	210mm Yellow Traffic	Each	1.8.2		20
1.8.3	210mm Green Traffic	Each	1.8.3		20
1.8.4	210mm Yellow Arrow	Each	1.8.4		20
1.8.5	210mm Green Arrow	Each	1.8.5		20
1.8.6	210mm BUS Red Traffic	Each	1.8.6		20
1.8.7	210mm BUS Yellow Traffic	Each	1.8.7		20
1.8.8	210mm BUS Green Traffic	Each	1.8.8		20
1.8.9	210mm Red Countdown Timer	Each	1.8.9		20
1.8.10	210mm Green Countdown Timer	Each	1.8.10		20
1.8.11	210mm LED Pedestrian Mask Futurit or equivalent	Each	1.8.11		20
1.8.12	210mm LED Arrow Mask Futurit or equivalent	Each	1.8.12		20
1.8.13	210mm LED Bicycle Mask Futurit or equivalent	Each	1.8.13		20
1.8.14	210mm Traffic Lantern Hood	Each	1.8.14		20
1.8.15	210mm Red Pedestrian	Each	1.8.15		20
1.8.16	210mm Green Pedestrian	Each	1.8.16		20
1.8.17	210mm Red Bicycle	Each	1.8.17		20

Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
1.8.18	210mm Green Bicycle	Each	1.8.18		20
1.8.19	210mm Traffic Amber Output: 12VDC, 4W for solar panel installations	Each	1.8.19		20
1.9	STOP LINE LANE LIGHTS				
1.9.1	Lane Light Upper RED	Each	1.9.1		20
1.9.2	Lane Light Lower RED	Each	1.9.2		20
CATEGORY 2					
TRAFFIC SIGNAL LANTERNS FOR ST SIGNS					
2.1	TRAFFIC SIGNAL LANTERNS WITH ST SIGNS				
2.1.1	3 - Aspect Nylon Traffic signal Housing with Incorporated ST-Sign	Each	2.1.1		20
2.1.2	Glass fibre background screens for Traffic signal lantern with Incorporated ST-Sign as in item 2.1.1	Each	2.1.2		20
CATEGORY 3					
UNINTERRUPTABLE POWER SUPPLYS (UPS) AND CABINETS					
3.1	UPS CABINETS				
3.1.1	100% Vandal proof Galvanised Steel Cabinet and Base – Magnetic lock	Each	3.1.1		20
3.1.2	100% Vandal proof Galvanised Steel Cabinet and Base - Electronic Lock	Each	3.1.2		20
3.1.3	UPS Cabinet door – Magnetic	Each	3.1.3		20
3.1.4	UPS Cabinet door – Electronic	Each	3.1.4		20
3.1.5	UPS Cabinet distribution board	Each	3.1.5		20
3.2	UPS MODULES AND SPARES				
3.2.1	Wiring Assembly to fit into the UPS Cabinet, capable of connecting 6x 105AHr Batteries to a 2KVA / 3KVA UPS Unit	Each	3.2		20

Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
3.2.2	1kW long run UPS system with 12 hour backup time, with 400V continuous mains input withstand, compatible with JSENT RMS	Each	3.2.2		20
3.2.3	1kW long run UPS electronic module, 400V continuous mains input withstand, compatible with JSENT RMS	Each	3.2.3		20
3.2.4	2kVA UPS Electronic Module	Each	3.2.4		20
3.2.5	3kVA UPS Electronic Module	Each	3.2.5		20
3.2.6	UPS Cable For Traffic Signal Controller; Assembly for RMS connectivity, monitoring and reporting via an Controller to CoCT ATC system, electrically isolated interface, cable must be 10m in length	Each	3.2.6		20
3.2.7	UPS wireless communication Transceiver module	Each	3.2.7		
3.3	UPS BATTERIES				
3.3.1	UPS Battery 105AH 12VDC Deep Cycle low maintenance -	Each	3.3.1		20
3.3.2	UPS Battery 100AH 12VDC Deep Cycle low maintenance - GEL battery	Each	3.3.2		20
3.3.3	UPS Battery 100AH 12VDC Deep Cycle low maintenance - AGM battery	Each	3.3.3		20
3.4	UPS SPARES				
3.4.1	20Amp Automatic Change over Switch, must be in Din Rail Mount	Each	3.4.1		20
3.4.2	40Amp Automatic Change over Switch, must be in Din Rail Mount	Each	3.4.2		20
3.4.3	20Amp Change over Switch, must be in Din Rail Mount	Each	3.4.3		20
3.4.4	40Amp Change over Switch, must be in Din Rail Mount	Each	3.4.4		20
3.4.5	16mm Stranded battery cable, insulation cable to be red	Meter	3.4.5		20
3.4.6	16mm Stranded battery cable, insulation cable to be black	Meter	3.4.6		20
3.4.7	25mm Stranded battery cable, insulation cable to be red	Meter	3.4.7		20
3.4.8	25mm Stranded battery cable, insulation cable to be black	Meter	3.4.8		20

Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
CATEGORY 4					
ENERGY STORAGE MODULES, INVERTERS & SOLAR EQUIPMENT (Include GPS tracking, automatic disable function for lithium and super capacitor;mounting plate for underground chamber)					
4.1	ENERGY STORAGE MODULES				
4.1.1	1000Wh Energy Storage Module (Super capacitor based battery)	Each	4.1.1		20
4.1.2	3000Wh 36VDC Energy Storage Module (Super capacitor based battery)	Each	4.1.2		20
4.1.3	3500Wh 36VDC Energy Storage Module (Super capacitor based battery)	Each	4.1.3		20
4.1.4	5000Wh 36VDC Energy Storage Module (Super capacitor based battery)	Each	4.1.4		20
4.1.5	1000Wh / 36V UPS	Each	4.1.5		20
4.1.6	3500Wh / 36V UPS	Each	4.1.6		20
4.1.7	2.75KWh / 24V Energy storage module (Lithium Ion based Battery)	Each	4.1.7		20
4.1.8	3.6KWh / 36V Energy storage module (Lithium Ion based Battery)	Each	4.1.8		20
4.1.9	3800Wh 36V Energy storage module (Lithium Ion based Battery)	Each	4.1.9		20
4.1.10	5.0 KWh / 48V Energy storage module (Lithium Ion based Battery)	Each	4.1.10		20
4.2	INVERTERS				
4.2.1	1.0 KVA Inverter (220VAC) 24 VDC	Each	4.2.1		20
4.2.2	1.5 KVA Inverter (220 VAC) 36 VDC	Each	4.2.2		20
4.2.3	3.0 KVA Inverter (220VAC) 36 VDC	Each	4.2.3		20
4.2.4	3.0 KVA Inverter (220VAC) 48 VDC	Each	4.2.4		20
4.2.5	5KVA Inverter	Each	4.2.5		20
4.3	SOLAR EQUIPMENT				

Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
4.3.1	MPPT Solar charge controller 36VDC	Each	4.3.1		20
4.3.2	MPPT Solar charge controller 48VDC	Each	4.3.2		20
4.3.3	Solar Panels poly-crystalline minimum 300w	Each	4.3.3		20
4.3.4	Solar wire silicon 4mm Red in colour	Meter	4.3.4		20
4.3.5	Solar wire silicon 4mm Black in colour	Meter	4.3.5		20
4.3.6	Solar wire silicon 6mm Red in colour	Meter	4.3.6		20
4.3.7	Solar wire silicon 6mm Black in colour	Meter	4.3.7		20
4.3.8	Solar structure to mount minimum 3 solar panels minimum height 5m	Each	4.3.8		20
4.3.9	MC 4 connector pair	Each	4.3.9		20
4.3.10	300W Solar panels	Each	4.3.10		20
4.3.11	500W Solar panels	Each	4.3.11		20
4.3.12	Male MC4 Connectors	Each	4.3.12		20
4.3.13	Female MC4 Connectors	Each	4.3.13		20

CATEGORY 5

TRAFFIC SIGNAL CONTROLLERS, ROUTERS AND SPARES

5.1	TRAFFIC SIGNAL CONTROLLER WITH STANDARD 3CR12 CABINETS:				
Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
5.1.1	4 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM,	Each	5.1.1		25
5.1.2	8 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM.	Each	5.1.2		25
5.1.3	10 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM	Each	5.1.3		25
5.1.4	12 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM,	Each	5.1.4		25
5.1.5	16 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM	Each	5.1.5		25
5.1.6	20 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM	Each	5.1.6		25
5.1.7	4 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Cuckoo kit back plate for Movac 4 cabinet mounting	Each	5.1.7		25
5.1.8	8 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Cuckoo kit back plate for Movac 4 cabinet mounting	Each	5.1.8		25
5.1.9	10 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Cuckoo kit back plate for Movac 4 cabinet mounting	Each	5.1.9		25
5.1.10	12 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Cuckoo kit back plate for Movac 4 cabinet mounting	Each	5.1.10		25
5.1.11	16 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Cuckoo kit back plate for Movac 4 cabinet mounting	Each	5.1.11		25
5.1.12	20 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Cuckoo kit back plate for Movac 4 cabinet mounting	Each	5.1.12		25
5.1.13	4 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Underground Chamber back plate	Each	5.1.13		25

Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
5.1.14	8 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Underground Chamber back plate	Each	5.1.14		25
5.1.15	10 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Underground Chamber back plate	Each	5.1.15		25
5.1.16	12 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Underground Chamber back plate	Each	5.1.16		25
5.1.17	16 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Underground Chamber back plate	Each	5.1.17		25
5.1.18	20 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Underground Chamber back plate	Each	5.1.18		25
5.1.19	4 Phase including Router Kit, 4 Channel Pedestrian Interface, 4TI Interface Units.	Each	5.1.19		25
5.1.20	8 Phase including Router Kit, 16 Channel Detector Interface, FLEX Control Kit, 4TI Interface & Pedestrian Interface Units with LCD SPM	Each	5.1.20		25
5.1.21	10 Phase including Router Kit, 4 Channel Pedestrian Interface, 4TI Interface Units.	Each	5.1.21		25
5.1.22	10 Phase including Router Kit, 16 Channel Detector Interface, FLEX Control Kit, 4TI Interface & Pedestrian Interface Units with LCD SPM	Each	5.1.22		25
5.1.23	12 Phase including Router Kit, 16 Channel Detector Interface, FLEX Control Kit, 4TI Interface & Pedestrian Interface Units with LCD SPM	Each	5.1.23		25
5.1.24	16 Phase including Router Kit, 16 Channel Detector Interface, FLEX Control Kit, 4TI Interface & Pedestrian Interface Units with LCD SPM	Each	5.1.24		25
5.1.25	20 Phase including Router Kit, 16 Channel Detector Interface, FLEX Control Kit, 4TI Interface & Pedestrian Interface Units with LCD SPM	Each	5.1.25		25
5.1.26	24 Phase including Router Kit, 16 Channel Detector Interface, FLEX Control Kit, 4TI Interface & Pedestrian Interface Units with LCD SPM	Each	5.1.26		25

Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
5.1.27	12 Phase including Router Kit, 32 Channel Detector Interface, FLEX Control Kit, 4TI Interface & Pedestrian Interface Units with LCD SPM	Each	5.1.27		25
5.1.28	16 Phase including Router Kit, 32 Channel Detector Interface, FLEX Control Kit, 4TI Interface & Pedestrian Interface Units with LCD SPM	Each	5.1.28		25
5.1.29	20 Phase including Router Kit, 32 Channel Detector Interface, FLEX Control Kit, 4TI Interface & Pedestrian Interface Units with LCD SPM	Each	5.1.29		25
5.1.30	24 Phase including Router Kit, 32 Channel Detector Interface, FLEX Control Kit, 4TI Interface & Pedestrian Interface Units with LCD SPM	Each	5.1.30		25
5.1.31	Software license (Direct UTMC Compliant)	Each	5.1.31		25
5.1.32	Software A	Each	5.1.32		25
5.1.33	Software B plus hardware	Each	5.1.33		25
5.2	ROUTERS, ANTENNAS AND TRANSCEIVERS				
5.2.1	LTE Dual SIM Industrial Router	Each	5.2.1		25
5.2.2	3G/4G Vandal Resistant Antenna	Each	5.2.2		25
5.2.3	GPS External Antenna: GPS/GSM dual antenna	Each	5.2.3		25
5.2.4	Wireless Modem: Assembly for connectivity, monitoring and reporting via a Controller to CoCT ATC system.	Each	5.2.4		25
5.2.5	Omni-Directional antenna	Each	5.2.5		25
5.2.6	GPS Upgrade Kit: For existing traffic signal controllers to include GPS Modem with external GPS/GSM Dual Antenna	Each	5.2.6		25
5.2.7	GPS Time Set Module for traffic signal controller	Each	5.2.7		25
5.2.8	Omni Directional Wi-Fi antenna	Each	5.2.8		25
5.2.9	WiFi Signal analyzer	Each	5.2.9		25
5.2.10	LPDA Directional Antenna	Each	5.2.10		25

Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
5.2.11	All-Band Cellular Medium Gain Omnidirectional Antenna	Each	5.2.11		25
5.2.12	Cellular Blade Antenna	Each	5.2.12		25
5.2.13	Wireless Transceiver Controller Unit	Each	5.2.13		25
5.2.14	Wireless Transceiver Pole Mount	Each	5.2.14		25
5.2.15	Bluetooth 4 Low Energy tag	Each	5.2.15		25
5.2.16	Bluetooth 4 Low Energy Beacon	Each	5.2.16		25
5.2.17	Vandal Proof IP66 Rated 433MHz Roof Mount Antenna	Each	5.2.17		25
5.2.18	ATC FEP for IP and GPRS comms (per CoCT ATC system)	Each	5.2.18		25
5.2.19	Unmanaged network switch	Each	5.2.19		25
5.2.20	5G Dual SIM Industrial Router including antenna	Each	5.2.20		25
5.2.21	LTE Omni Directional Antenna +GPS	Each	5.2.21		25
5.2.22	Router Battery Back-up	Each	5.2.22		25
5.2.23	Variac	Each	5.2.23		25
5.3	TRAFFIC SIGNAL CONTROLLER SPARES				
5.3.1	Cabinet to hold Traffic Signal Controller Components up to 12 Phases, Assembly including Power Distribution & Power Supply Units	Each	5.3.1		20
5.3.2	PLUS Display: Front panel with colour touchscreen display	Each	5.3.2		20
5.3.3	Plinth mounted Cabinet Including Root: To hold Plinth Cabinet for Traffic Signal Controller & Standard Cabinet.	Each	5.3.3		20
5.3.4	System Processor	Each	5.3.4		20
5.3.5	Mounting pole	Each	5.3.5		20
5.3.6	Detector wiring assembly	Each	5.3.6		20

Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
5.3.7	4 Channel Detector Card	Each	5.3.7		20
5.3.8	Pedestrian 4 Channel Detector Card	Each	5.3.8		20
5.3.9	Detector wiring assembly 16 channel	Each	5.3.9		20
5.3.10	Output lightning protector PCB assembly 8 phase	Each	5.3.10		20
5.3.11	Output lightning protector PCB assembly 12 phase	Each	5.3.11		20
5.3.12	System Processor Module	Each	5.3.12		20
5.3.13	System Processor Module with Display	Each	5.3.13		20
5.3.14	Pedestrian / Detector Interface Kit	Each	5.3.14		20
5.3.15	Services Module Standard	Each	5.3.15		20
5.3.16	Services Module Lite	Each	5.3.16		20
5.3.17	Output Module 2 Phase; capable of running 2 phases	Each	5.3.17		20
5.3.18	Output Module 2 Phase; capable of running 4 phases	Each	5.3.18		20
5.3.19	Lamp Dimming Kit	Each	5.3.19		20
5.3.20	Traffic signal controller Sensys Ethernet interface kit.	Each	5.3.20		20
5.3.21	Detector Expansion kit to increase detector Inputs from 24 to 32.	Each	5.3.21		20
5.3.22	Motherboard	Each	5.3.22		20
5.3.23	Lamp Drive Card	Each	5.3.23		20
5.3.24	GPIO Card	Each	5.3.24		20
5.3.25	DOT Module	Each	5.3.25		20
5.3.26	CPU Card	Each	5.3.26		20

Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
5.3.27	12 Phase System Control Module	Each	5.3.27		20
5.3.28	18 Phase System Control Module	Each	5.3.28		20
5.3.29	Cabinet assembly manufactured in aluminium with sunken door to reduce vandalism	Each	5.3.29		20
5.3.30	Top Hat Expansion Cabinet	Each	5.3.30		20
5.3.31	Diagnostic Display Assembly	Each	5.3.31		20
5.3.32	Power Distribution PCB	Each	5.3.32		20
5.3.33	Pedestrian 4 Channel Detector Card:	Each	5.3.33		20
5.3.35	Lamp Drive CPLD	Each	5.3.35		20
5.3.36	SVM Integrated Circuits	Each	5.3.36		20
5.3.37	Detector Back Plane and Loom	Each	5.3.37		20
5.3.38	Main Filter	Each	5.3.38		20
5.3.39	Surge Arrestor	Each	5.3.39		20
5.3.40	GPS Clock Module	Each	5.3.40		20
5.3.41	QPR LTE Router, including 4 Inputs and 2 Outputs	Each	5.3.41		20
5.3.42	Router Backup supply – Super-Cap	Each	5.3.42		20
5.3.43	LTE GSM GPS Combo Antenna	Each	5.3.43		20
5.3.44	UTMC Licence Card	Each	5.3.44		20
5.3.45	Linux Server on Physical or VM	Each	5.3.45		20

CATEGORY 6

NON – INTRUSIVE DETECTION EQUIPMENT

6.1	MAGNETOMETER DETECTION EQUIPMENT				
Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
6.1.1	Flush Mount Wireless Sensor	Each	6.1.1		25
6.1.2	Clear Plastic Shell For Flush Mount Sensor	Each	6.1.2		25
6.1.3	Epoxy Tube For Installation Of Vsn240–F Or T	Each	6.1.3		25
6.1.4	Dual Component Epoxy Applicator	Each	6.1.4		25
6.1.5	Wireless Micro Radar sensor	Each	6.1.5		25
6.2	ACCESS POINTS, REPEATERS, CONTACT CLOSURE & ACCESSORIES FOR MAGNETOMETERS				
6.2.1	Access Point	Each	6.2.1		20
6.2.2	Access Point Mounting Kit	Each	6.2.2		20
6.2.3	Standard Flex Antenna	Each	6.2.3		20
6.2.4	Long Range Flex Antenna	Each	6.2.4		20
6.2.5	Flex Solar repeater	Each	6.2.5		20
6.2.6	Flex Node Line power repeater	Each	6.2.6		20
6.2.7	FlexControl complete kit for traffic controller	Each	6.2.7		20
6.2.8	Flex Digital Radio	Each	6.2.8		20
6.2.9	FlexRadio cabinet module	Each	6.2.9		20
6.2.10	Flex external cabinet mount antenna	Each	6.2.10		20
6.2.11	Flex Isolator module	Each	6.2.11		20

Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
6.2.12	Flex Control standard module with generic protocol interface	Each	6.2.12		20
6.2.13	Flex Control Enhanced module with generic protocol interface and all traffic data	Each	6.2.13		20
6.2.14	Flex Control Bluetooth sensor kit	Each	6.2.14		20
6.2.15	Flex Control Bluetooth sensor	Each	6.2.15		20
6.2.16	Flex Control Bluetooth range extender module	Each	6.2.16		20
6.2.17	Flex Control Bluetooth range extender communications cable	Each	6.2.17		20
6.2.18	Standalone Bluetooth sensor	Each	6.2.18		20
6.2.19	Flex Control Industrial communications cable	Each	6.2.19		20
6.2.20	Flex Control enhanced upgrade licence	Each	6.2.20		20
6.2.21	Router mounting bracket	Each	6.2.21		20
6.2.22	1m Patch cable	Each	6.2.22		20
6.2.23	1.5m Patch cable	Each	6.2.23		20
6.2.24	Router power cable for traffic controller	Each	6.2.24		20
6.2.25	Replacement battery for RP-240-BH repeater	Each	6.2.25		20
6.2.26	Replacement battery for RP-240-BH-2 repeater	Each	6.2.26		20
6.2.27	FlexControl enhanced upgrade licence	Each	6.2.27		20
6.2.28	SensMetrics turning movement server licence	Each	6.2.28		20
6.2.29	SNAPS Remote management server licence	Each	6.2.29		20
6.2.30	Travel time and origin destination server licence	Each	6.2.30		20
6.2.31	SensMetrics turning movement server including hardware and software licence	Each	6.2.31		20

Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
6.2.32	SNAPS Remote management server including hardware and software licence	Each	6.2.32		20
6.2.33	Travel time server and licence	Each	6.2.33		20
6.2.34	Siemens software Licence or equivalent	Each	6.2.34		20
6.2.35	Contact closure cards, 2 slot rack kit	Each	6.2.35		20
6.2.36	Traffic camera monitoring server and licence	Each	6.2.36		20
6.2.37	4D Radar	Each	6.2.37		20
6.3	RADAR AND CAMERA				
6.3.1	Radar Kit with lane differentiation and Single Output:	Each	6.3.1		20
6.3.2	Radar Kit with lane differentiation and Dual Output:	Each	6.3.2		20
6.3.3	Radar Kit for stop line	Each	6.3.3		20
6.3.4	Radar unit: 3D tracking radar with 360m detection range.	Each	6.3.4		20
6.3.5	Radar unit: 3D tracking radar with 240m detection range.	Each	6.3.5		20
6.3.6	Pedestrian Radar Detector	Each	6.3.6		20
6.3.7	Mid-Block Radar Detector	Each	6.3.7		20
6.3.8	Stop line Radar Detector	Each	6.3.8		20
6.3.9	Radar unit: 3D tracking radar with 180m detection range.	Each	6.3.9		20
6.3.10	Thermi-Camera BPL Wide Angle: detection range of 0-20 meters	Each	6.3.10		20
6.3.11	Thermi-Camera BPL Medium Angle: power, detection range of 15-60 meters	Each	6.3.11		20
6.3.12	Thermal-Camera BPL 2 Wide Angle: detection range of 0 – 60meters	Each	6.3.12		20
6.3.13	Thermal-Camera BPL 2 Wide Angle: detection range of 10-80 meters	Each	6.3.13		20

Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
6.3.14	Thermal-Camera BPL 2 Narrow Angle: detection range of 20-100 meters	Each	6.3.14		20
6.3.15	Thermal-Camera BPL 2 Narrow Angle: detection range of 30-125 meters	Each	6.3.15		20
6.3.16	Thermi-Camera ETH Wide Angle: detection range of 5-20 meters	Each	6.3.16		20
6.3.17	Thermi-Camera ETH Medium Angle: detection range of 15-60 meters	Each	6.3.17		20
6.3.18	Thermi-Camera ETH Narrow Angle: detection range of 30-90 meters	Each	6.3.18		20
6.3.19	Trafi-Camera X-Stream ETH Wide: detection range of 0-20 meters	Each	6.3.19		20
6.3.20	Trafi-Camera X-Stream ETH Narrow: detection range of 15-70 meters	Each	6.3.20		20
6.3.21	X-CAM-i Congestion Detection Video Sensor	Each	6.3.21		20
6.3.22	X-CAM-td And Traffic Data Collection Camera Sensor	Each	6.3.22		20
6.3.23	Radio Synchronisation System	Each	6.3.23		20
6.3.24	TRAFICAM (Narrow Angle Camera):	Each	6.3.24		20
6.3.25	TRAFICAM (Wide Angle Camera):	Each	6.3.25		20
6.3.26	Trafi-Camera X-Stream BPL2 Wide: detection range of 0-20 meters	Each	6.3.26		20
6.3.27	Trafi-Camera X-Stream BPL Narrow: detection range of 15-70 meters	Each	6.3.27		20
6.3.28	TI x-stream BPL2	Each	6.3.28		20
6.3.29	TI x-stream BPL3	Each	6.3.29		20
6.3.30	PoE x-stream interface	Each	6.3.30		20
6.3.31	AI Trafi-Camera X-Stream BPL2 - Wide: detection range of 0-75 meters	Each	6.3.31		20
6.3.32	AI Trafi-Camera X-Stream BPL2 - Narrow: detection range of 75-150 meters	Each	6.3.32		20
6.3.33	Vehicle Counting logger: RAKTEL 4010 loop counter (8 Lane)	Each	6.3.33		20

Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
6.3.34	Compact 3G Industrial OpenWRT Router with I/O and OpenVPN complete with antennas and cables	Each	6.3.34		20
6.3.35	LTE Dual SIM Industrial OpenWRT Router with RS485, RS232, IO and GPS with antennas and cables	Each	6.3.35		20
6.3.36	Compact RS232, RS485 Modem with internal battery, IO and GPS	Each	6.3.36		20
6.4	POWER SUPPLY UNITS (PSU) FOR TRAFFIC SIGNAL CONTROLLER AND DETECTOR EQUIPMENT				
6.4.1	Pole mount Wireless TrafiCam PSU (Signal Head Powered)	Each	6.4.1		25
6.4.2	Pole mount 24V TrafiCam PSU (230V Powered)	Each	6.4.2		25
6.4.3	Pole mount TrafiCam PSU (Enclosure Only)	Each	6.4.3		25
6.4.4	TrafiCam solar power kit	Each	6.4.4		25
6.4.5	Amber Flasher Solar Power Kit	Each	6.4.5		25
6.4.6	Lane Light PSU	Each	6.4.6		25
6.5	INTERFACE FOR VEHICLE DETECTION EQUIPMENT				
6.5.1	Traffic Logger	Each	6.5.1		25
6.5.2	Signal Priority Transceiver	Each	6.5.2		25
6.5.3	ETH Interface	Each	6.5.3		25
6.5.4	Interface unit X-Stream Communication must be via BPL	Each	6.5.4		25
6.5.5	Interface unit X-Stream Communication must be via Ethernet	Each	6.5.5		25
6.5.6	TRAFICAM INTERFACE UNIT 1TI or equivalent	Each	6.5.6		25
6.5.7	TRAFICAM INTERFACE UNIT 4TI or equivalent	Each	6.5.7		25
6.5.8	TI X-Stream TrafiCamera Interface Unit	Each	6.5.8		25
6.5.9	GPIO Interface Module	Each	6.5.9		25

Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
6.5.10	X-COM-P Video Sensor Interface Board	Each	6.5.10		25
6.5.11	Controller Bluetooth interface	Each	6.5.11		25
6.5.12	Raktel Remote management server licence	Each	6.5.12		25
6.5.13	Raktel Remote management server including hardware and software licence	Each	6.5.13		25
6.5.14	Controller configuration and download device	Each	6.5.14		25
6.5.15	Hand Held Tablet Including software suite with 3G, Wi-Fi.	Each	6.5.15		25
6.5.16	Industrial communications cable,	Meter	6.5.16		25
6.5.17	FlexControl cable: Communications Cable for FlexControl - length 0.15m	Each	6.5.17		25
6.5.18	FlexControl cable: Communications Cable for FlexControl - length 0.3m	Each	6.5.18		25
6.5.19	FlexControl cable: Communications Cable for FlexControl - length 1m	Each	6.5.19		25
6.6	ANTENNA'S AND ACCESSORIES				
6.6.1	Cable 10m HDF195 cable SMA(f) to SMA(m)	Each	6.6.1		15
6.6.2	Cable HDF195 per m	Each	6.6.2		15
6.6.3	Cable coaxial RG58/U	Each	6.6.3		15
6.6.4	Connector SMA(female) for RG58 or HDF195	Each	6.6.4		15
6.6.5	Connector SMA(male) for RG58 or HDF195	Each	6.6.5		15
6.6.6	Connector Right angle SMA(male) for RG58 or HDF195	Each	6.6.6		15
6.6.7	Connector N-type (Male) for RG58 or HDF195	Each	6.6.7		15
6.6.8	Connector N-type (female) for RG58 or HDF196	Each	6.6.8		15
6.6.9	Crimping tool for SMA & N-Type Connectors	Each	6.6.9		15

CATEGORY 7

7.1	DRILLING MACHINE AND CORE BIT				
Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
7.1	Concrete and Asphalt 4-Inch Coring Bit	Each	7.1		15
7.2	Core Drilling Machine and Stand	Each	7.2		15

CATEGORY 8

CABLES AND ACCESSORIES

8.1	CABLES				
Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
8.1.1	37 Core Copper Cable	Meter	8.1.1		15
8.1.2	19 Core Copper Cable	Meter	8.1.2		15
8.1.3	8 Pair Copper Cable	Meter	8.1.3		15
8.1.4	2 Core Copper Cable	Meter	8.1.4		15
8.1.5	3 Core Copper Cable	Meter	8.1.5		15
8.1.6	Bare Copper Wire	Meter	8.1.6		15
8.1.7	Cabtyre 7 Core 1,5 mm	Meter	8.1.7		15
8.1.8	Ripcord 1,5 mm	Meter	8.1.8		15
8.1.9	CAT5	Each	8.1.9		15
8.2	ACCESSORIES				
8.2.1	K-Clamps 32 mm	Each	8.2.1		15

Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
8.2.2	K-Clamps 26 mm	Each	8.2.2		15
8.2.3	K-Clamps 20 mm	Each	8.2.3		15
8.2.4	Cable Ties Small – Black – Packets of 100 quantity T 18 R	Each	8.2.4		15
8.2.5	Cable Ties Medium – Black – Packets of 100 quantity T 50 R	Each	8.2.5		15
8.2.6	Cable Ties Large – Black – Packets of 50 quantity – T 120 R	Each	8.2.6		15
8.2.7	Cable Ties Marker – White – Packets of 100 quantity – iT 50 R9C Stock Code	Each	8.2.7		15
8.2.8	Cable Ties Marker – White – Packets of 100 quantity – iT 18 R9C	Each	8.2.8		15
8.2.9	Bolt and Nut	Each	8.2.9		15
8.2.10	Stainless steel screw: 5.5 x30 self-drilling teks screws hexagon head zinc yellow plated	Each	8.2.10		15
8.2.11	Stainless steel screw: 5.5 x50 self-drilling teks screws hexagon head zinc yellow plated	Each	8.2.11		15
8.2.12	Nylon lock 40mm	Each	8.2.12		15
8.2.13	Pole cap (Nylon UV resistant) complete with cradle and terminals to fit standard 4m,5m,6m Traffic Signal pole – Refer drawing NPC 1	Each	8.2.13		15
8.2.14	Earth Spike 1.8m	Each	8.2.14		15
8.2.15	Earth Spike Coupling	Each	8.2.15		15
8.2.16	Earth Spike Drive Bolt	Each	8.2.16		15
8.2.17	Earth Clamp for earth spike	Each	8.2.17		15
8.2.18	Insulation Tape	Each	8.2.18		15
8.2.19	Self-fusing tape	Each	8.2.19		15
8.2.20	Terminal Strips: Black 15 AMP Connector Blocks – packets of ten and must have brass screws	Each	8.2.20		15
8.2.21	Terminal Strips: Black 30 AMP Connector Blocks – packets of ten and must have brass screws	Each	8.2.21		15

Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
8.2.22	Through Terminal Block - 2 contact screw in OR push in connectors.	Each	8.2.22		15
8.2.23	Through Terminal Block (Quattro) - 4 contact screw in OR push in connectors:	Each	8.2.23		15
8.2.24	All Purpose electrical and mechanical lubrication spray	Each	8.2.24		15
CATEGORY 9					
CONNECTION PILLARS					
9.1	CONNECTION PILLAR				
Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
9.1.1	Connection Pillar (Stubby) complete with locking bar, Polycarbonate	Each	9.1.1		15
9.1.2	Connection Pillar Locking bar only (Polycarbonate)	Each	9.1.2		15
9.1.3	Connection Pillar Locking bar only (Solid metal round bar)	Each	9.1.3		15
9.1.4	Connection Pillar (Stubby) complete with locking bar, Polycarbonate with underground chamber rack/back plate	Each	9.1.4		20
CATEGORY 10					
10.1	FLASHING LIGHT EQUIPMENT				
Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
10.1.1	Flasher Unit Base:11 Pin 230V octal socket DIN rail mount relay base Eagle Electric or equivalent	Each	10.1.1		15
10.1.2	200W solid state dual flasher module	Each	10.1.2		15
10.1.3	Completed Dual Flasher	Each	10.1.3		15

CATEGORY 11					
POLE CLAMP FOR MOUNTING BRACKETS AND TRAFFIC SIGNAL POLES					
11.1	BRACKETS				
Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
11.1.1	Standard Mounting Bar	Each	11.1.1		15
11.1.2	Extended Mounting Bar	Each	11.1.2		15
11.1.3	Standard Clamp Mounting Bracket	Each	11.1.3		15
11.1.4	Over Sized Clamp Mounting Bracket	Each	11.1.4		15
TRAFFIC SIGNAL POLES					
11.2	CANTILEVER POLE:				
Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
11.2.1	Cantilever Pole Vertical only	Each	11.2.1		15
11.2.2	Cantilever Pole Horizontal only	Each	11.2.2		15
11.2.3	Cantilever Pole Swivel mechanism (Complete with flanges)	Each	11.2.3		15
11.2.4	Cantilever Pole Bolt group only	Each	11.2.4		15
11.2.5	Cantilever Pole Complete including Vertical , Horizontal , Swivel mechanism and Bolt group	Each	11.2.5		15
11.3	STANDARD POLES				
11.3.1	4m Pole without hatch	Each	11.3.1		15
11.3.2	4m Pole with hatch	Each	11.3.2		15
11.3.3	5m Pole with hatch	Each	11.3.3		15
11.3.4	6m Pole with hatch	Each	11.3.4		15

Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
11.3.5	8m Pole with hatch	Each	11.3.5		15
11.4	REMOVABLE POLES				
11.4.1	4m Pole with hatch	Each	11.4.1		15
11.4.2	5m Pole with hatch	Each	11.4.2		15
11.4.3	6m Pole with hatch	Each	11.4.3		15
11.5	BASE PLATE POLES				
11.5.1	4m Pole with hatch	Each	11.5.1		15
11.5.2	5m Pole with hatch	Each	11.5.2		15
11.5.3	6m Pole with hatch	Each	11.5.3		15
11.6	PEDESTRIAN POLES				
11.6.1	Pedestrian short pole (2m)	Each	11.6.1		15
11.6.2	Pole Cap	Each	11.6.2		15

CATEGORY 12

PEDESTRIAN DETECTION EQUIPMENT:

12.1	CONVENTIONAL PEDESTRIAN SYSTEMS				
Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
12.1.1	Capacitive Pedestrian Button	Each	12.1.1		15
12.1.2	Capacitive Pedestrian Button with LED Feedback	Each	12.1.2		15
12.1.3	Standard Pedestrian Button Assembly: Nylon	Each	12.1.3		15
12.1.4	Audible device with solid tone	Each	12.1.4		15
12.1.5	Audible device with intermittent tone	Each	12.1.5		15
12.2	ACCESSIBLE PEDESTRIAN SYSTEMS				
12.2.1	Capacitive Pedestrian Button:		12.2.1		20
12.2.2	APS Pedestrian Control unit for button in item 12.2.1. Must comply with spec in item 12.2	Each	12.2.2		20
12.2.3	APS Pedestrian Push button Must comply with spec in item 12.2	Each	12.2.3		20
12.2.4	APS Pedestrian Control unit for button Must comply with spec in item 12.2 & Button must vibrate when Pedestrian is green	Each	12.2.4		20
12.2.5	APS Tactile Touch Push button Must comply with spec in item 12.2 & Button must vibrate when Pedestrian is green	Each	12.2.5		20
12.2.6	Combi Pedestrian Signal Head with integral Tactile Controller	Each	12.2.6		20

CATEGORY 13					
VINYL NUMBERS AND LOGO's AND DECALS					
13.1	VINYL NUMBERS AND LOGO's				
Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
13.1.1	Pole numbers - 0 to 9	Each	13.1.1		10
13.1.2	Pole numbers - 10 to 22	Each	13.1.2		10
13.1.3	Traffic Signal Controller logo numbers 0 to 9	Each	13.1.3		10
13.2	TRAFFIC SIGNAL CONTROLLER DECALS				
13.2.1	Logo for Traffic Signal Controller	Each	13.2.1		10
13.2.2	Pedestrian pole sticker	Each	13.2.2		10
13.2.3	Reflective Tape – 150mm width	Each	13.2.3		10

CATEGORY 14					
VANDAL PROOF CAGE FOR CONTROLLER AND PERIPHERAL EQUIPMENT					
14.1	VANDALL PROOF CAGE FOR CONTROLLER AND PERIPHERAL EQUIPMENT				
Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
14.1.1	High Security Kiosk: 3m x 3m x 2,4m	Each	14.1.1		20
14.1.2	High Security Kiosk: 3m x 2.4m x 2.4m	Each	14.1.2		20
14.1.3	High Security Kiosk: 3m x 1.8m x 2.4m	Each	14.1.3		20
14.1.4	Earthing Copper wire and Rod	Each	14.1.4		20
14.2	UNDERGROUND CHAMBER CONTROLLER AND PERIPHERAL EQUIPMENT				
14.2.1	Underground Controller Chamber	Each	14.2.1		20
14.2.2	Underground UPS Chamber	Each	14.2.2		20
14.2.3	Underground Stubby Chamber	Each	14.2.3		20
14.2.4	ENTRY CAPS AND GLANDS FOR UNDERGROUND KIOSKS				
14.2.4.1	110mm Entry Cap	Each	14.2.4.1		20
14.2.4.2	32mm IP68 Gland	Each	14.2.4.2		20
14.2.4.2	25mm IP68 Gland	Each	14.2.4.2		20
14.2.4.3	20mm IP68 Gland	Each	14.2.4.3		20
14.2.4.4	32mm Compression Gland	Each	14.2.4.4		20
14.2.4.5	25mm compression Gland	Each	14.2.4.5		20
14.2.4.6	20mm compression Gland	Each	14.2.4.6		20
14.2.5	Locking System for Underground Kiosks	Each	14.2.5		20
14.2.6	Drill attachment	Each	14.2.6		20

Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
14.2.7	Bluetooth Key for chamber	Each	14.2.7		20
14.2.8	Electronic Dead Lock	Each	14.2.8		20
14.2.9	Mechanical key for chamber	Each	14.2.9		20

CATERGORY 15

CIVIL ENGINEERING MATERIAL

Item No	Description	Unit	Traffic Signal Equipment Specification Section	Firm Price from Date of Commencement of Contract for 12 Month Period	Prescribed delivery from date of official purchase order/s (Working days)
15.1	Sleeving Duct Pipe				
15.1.1	Sleeving Duct pipe solid	m	15.1.1		15
15.1.2	Sleeving Duct pipe flexible	m	15.1.2		15
15.2	Kerbs				
15.2.1	Normal kerbs	Each	15.2.1		15
15.2.2	Bubble paving	Each	15.2.2		15
15.3	Road Traffic Signs				
15.3.1	Road sign SS3	Each	15.3.1		15
15.3.2	Road sign W301	Each	15.3.2		15

Pricing Instructions:

- 5.1 State the rates and prices in Rand unless instructed otherwise in the tender conditions.
- 5.2 Include in the rates, prices, and the tendered total of the prices (if any) all duties, taxes (except Value Added Tax (VAT), and other levies payable by the successful tenderer, such duties, taxes and levies being those applicable 14 days before the closing time stated in the General Tender Information.
- 5.3 All prices tendered must include all expenses, disbursements and costs (e.g. transport, accommodation etc.) that may be required for the execution of the tenderer's obligations in terms of the Contract, and shall cover the cost of all general risks, liabilities and obligations set forth or implied in the Contract as well as overhead charges and profit (in the event that the tender is successful). All prices tendered will be final and binding.
- 5.4 All prices shall be tendered in accordance with the units specified in this schedule.
- 5.5 The successful tenderer is required to perform all tasks listed against each item. The tenderer must therefore tender prices/rates on all items as per the section in the Price Schedule. **An item against which no rate is/are entered, or if anything other than a rate or a nil rate (for example, a zero, a dash or the word "included" or abbreviations thereof) is entered against an item, it will also be regarded as a nil rate having been entered against that item, i.e. that there is no charge for that item. The Tenderer may be requested to clarify nil rates, or items regarded as having nil rates; and the Employer may also perform a risk analysis with regard to the reasonableness of such rates. .**
- 5.6 The tenderers need to provide prices that are fixed for the first 12 months from the date of commencement and thereafter the contract price adjustment method as reflected on schedule 8 should apply.
- 5.7 **All items and sub items per category to be priced in order to be considered.**
Net prices excluding VAT to be quoted per unit unless otherwise.
- 5.8 All descriptions or clauses where tradenames or proprietary products are specified, are deemed to include the phrase "or equivalent"

INITIALS OF CITY OFFICIALS		
1	2	3

(6) SUPPORTING SCHEDULES

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

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

1. We, the undersigned, are submitting this tender offer as a partnership/ joint venture/ consortium and hereby authorize Mr/Ms _____, of the authorised entity _____, acting in the capacity of Lead Partner, to sign all documents in connection with the tender offer and any contract resulting from it on the partnership/joint venture/ consortium's behalf.
2. By signing this schedule the partners to the partnership/joint venture/ consortium:
 - 2.1 warrant that the tender submitted is in accordance with the main business and objectives of the partnership/joint venture/ consortium;
 - 2.2 agree that the CCT shall make all payments in terms of this Contract into the following bank account of the Lead Partner:

Account Holder: _____

Financial Institution: _____

Branch Code: _____

Account No.: _____
 - 2.3 agree that in the event that there is a change in the partnership/ joint venture/ consortium and/or should a dispute arise between the partnership/joint venture/ consortium partners, that the CCT shall continue to make any/all payments due and payable in terms of the Contract into the aforesaid bank account until such time as the CCT is presented with a Court Order or an original agreement (signed by each and every partner of the partnership/joint venture/ consortium) notifying the CCT of the details of the new bank account into which it is required to make payment.
 - 2.4 agree that they shall be jointly and severally liable to the CCT for the due and proper fulfilment by the successful tenderer/supplier of its obligations in terms of the Contract as well as any damages suffered by the CCT as a result of breach by the successful tenderer/supplier. The partnership/joint venture/ consortium partners hereby renounce the benefits of excursion and division.

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

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

Schedule 2: Declaration for Procurement above R10 million

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

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

YES		NO	
-----	--	----	--

1.1 If YES, submit audited annual financial statements:

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

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

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

YES		NO	
-----	--	----	--

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

2.2 If YES, provide particulars:

—

—

—

—

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

YES		NO	
-----	--	----	--

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

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

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

YES		NO	
-----	--	----	--

4.1 If YES, furnish particulars below

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

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

Date

Schedule 3: Preference Schedule

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017.

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to all bids:

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

1.2

- a) The value of this bid is estimated to exceed R50 000 000 (all applicable taxes included) and therefore the 90/10 preference point system shall be applicable; or

1.3

1.4 Points for this bid shall be awarded for:

- (a) Price; and
- (b) B-BBEE Status Level of Contributor.

1.5 The maximum points for this bid are allocated as follows:

	POINTS
PRICE	90
B-BBEE STATUS LEVEL OF CONTRIBUTOR	10
Total points for Price and B-BBEE must not exceed	100

1.6 Failure on the part of a bidder to submit proof of B-BBEE Status level of contributor together with the bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

1.7 The purchaser reserves the right to require of a bidder, 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 purchaser.

2. DEFINITIONS

- (a) **“B-BBEE”** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- (b) **“B-BBEE status level of contributor”** means the B-BBEE status of an entity in terms of a code of good practice on black economic empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;

- (c) **“bid”** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of goods or services, through price quotations, advertised competitive bidding processes or proposals;
- (d) **“Broad-Based Black Economic Empowerment Act”** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (e) **“EME”** means an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (f) **“functionality”** means the ability of a tenderer to provide goods or services in accordance with specifications as set out in the tender documents.
- (g) **“price”** includes all applicable taxes less all unconditional discounts;
- (h) **“proof of B-BBEE status level of contributor”** means:
 - 1) B-BBEE Status level certificate issued by an authorized body or person;
 - 2) A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice;
 - 3) Any other requirement prescribed in terms of the B-BBEE Act;
- (i) **“QSE”** means a qualifying small business enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (j) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

4. POINTS AWARDED FOR PRICE

4.1 THE 90/10 PREFERENCE POINT SYSTEMS

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

90/10

$$Ps = 90 \left(1 - \frac{Pt - Pmin}{Pmin} \right)$$

Where

Ps = Points scored for price of bid under consideration

Pt = Price of bid under consideration

Pmin = Price of lowest acceptable bid

5. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTOR

- 5.1 In terms of Regulation 6 (2) and 7 (2) of the Preferential Procurement Regulations, preference points must be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (90/10 system)	Number of points (80/20 system)
1	10	20
2	9	18
3	6	14
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

6. BID DECLARATION

6.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

7. B-BBEE STATUS LEVEL OF CONTRIBUTOR CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 4.1

7.1 B-BBEE Status Level of Contributor: . =(maximum of 10 or 20 points)

(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.

8. SUB-CONTRACTING

8.1 Will any portion of the contract be sub-contracted?

(**Tick applicable box**)

YES	NO
-----	----

8.1.1 If yes, indicate:

- i) What percentage of the contract will be subcontracted.....%
- ii) The name of the sub-contractor.....
- iii) The B-BBEE status level of the sub-contractor.....
- iv) Whether the sub-contractor is an EME or QSE

(**Tick applicable box**)

ES		NO	
----	--	----	--

- v) Specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Procurement Regulations,2017:

Designated Group: An EME or QSE which is at last 51% owned by:	EME	QSE
	√	√
Black people		
Black people who are youth		
Black people who are women		
Black people with disabilities		
Black people living in rural or underdeveloped areas or townships		
Cooperative owned by black people		
Black people who are military veterans		
OR		
Any EME		
Any QSE		

9. DECLARATION WITH REGARD TO COMPANY/FIRM

9.1 Name of
company/firm:.....

9.2 VAT registration
number:.....

9.3 Company registration
number:.....

9.4 TYPE OF COMPANY/ FIRM

- ☐ Partnership/Joint Venture / Consortium
- ☐ One person business/sole propriety
- ☐ Close corporation
- ☐ Company
- ☐ (Pty) Limited

[TICK APPLICABLE BOX]

9.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....

.....

.....

.....

.

9.6 COMPANY CLASSIFICATION

- ☐ Manufacturer
- ☐ Supplier
- ☐ Professional service provider
- ☐ Other service providers, e.g. transporter, etc.

[TICK APPLICABLE BOX]

9.7 MUNICIPAL INFORMATION

Municipality where business is situated:

Registered Account Number:

Stand Number:.....

9.8 Total number of years the company/firm has been in business:.....

9.9 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contributor indicated in paragraphs 1.4 and 6.1 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- iv) If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
 - (a) disqualify the person from the bidding 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 bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury 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.

WITNESSES

1.

2.

.....
SIGNATURE(S) OF BIDDERS(S)

DATE:

ADDRESS

.....

.....

official use.		
SIGNATURE OF CITY OFFICIALS AT TENDER OPENING		

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

1. No bid will be accepted from:
 - 1.1 persons in the service of the state¹, or
 - 1.2 if the person is not a natural person, of which any director, manager or principal shareholder or stakeholder is in the service of the state, or
 - 1.3 from persons, or entities of which any director, manager or principal shareholder or stakeholder, has been in the service of the City of Cape Town during the twelve months after the City employee has left the employ of the City, or
 - 1.4 from an entity who has employed a former City employee who was at a level of T14 of higher at the time of leaving the City's employ and involved in any of the City's bid committees for the bid submitted, if:
 - 1.4.1 the City employee left the City's employment voluntarily, during a period of 12 months after the City employee has left the employ of the City;
 - 1.4.2 the City employee left the City's employment whilst facing disciplinary action by the City, during a period of 24 months after the City employee has left the employ of the City, or any other period prescribed by applicable legislative provisions, after having left the City's employ.
2. Any person, having a kinship with persons in the service of the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid. In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons connected with or related to persons in service of the state, it is required that the tenderer or their authorised representative declare their position in relation to the evaluating/adjudicating authority.
3. In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.
 - 3.1 Full Name of tenderer or his or her representative:.....
 - 3.2 Identity
Number:.....
 - 3.3 Position occupied in the Company (director, trustee, shareholder²):.....
 - 3.4 Company or Close Corporation Registration Number:.....
 - 3.5 Tax
Number:.....
 - 3.6 VAT
Number:.....
 - 3.7 The names of all directors / trustees / shareholders members, their individual identity numbers and state employee numbers must be indicated in paragraph 4 below.
 - 3.8 Are you presently in the service of the state? **YES / NO**
 - 3.8.1 If yes, furnish particulars
 - 3.9 Have you been in the service of the state for the past twelve months? **YES / NO**
 - 3.9.1 If yes, furnish particulars
 - 3.10

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

3.10.1 If yes, furnish particulars

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

3.11.1 If yes, furnish particulars.....

3.12 Are any of the company's directors, trustees, managers, principle shareholders or stakeholders in service of the state? **YES / NO**

3.12.1 If yes, furnish particulars

3.13 Are any spouse, child or parent of the company's directors, trustees, managers, principle shareholders or stakeholders in service of the state? **YES / NO**

3.13.1 If yes, furnish particulars
.....

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

3.14.1 If yes, furnish particulars
.....

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

3.15.1 If yes, furnish particulars
.....

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

3.16.1 If yes, furnish particulars
.....

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

Full Name	Identity Number	State Employee Number

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

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

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

Date

'MSCM Regulations: "in the service of the state" means to be –

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

² Shareholder" means a person who owns shares in the company and is actively involved in the management of the company or business and exercises control over the company.

Schedule 5: Conflict of Interest Declaration

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

YES		NO	
-----	--	----	--

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

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

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

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

YES		NO	
-----	--	----	--

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

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

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

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

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

Date

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

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

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

- a) abused the municipality's / municipal entity's supply chain management system or committed any fraudulent conduct in relation to such system;
- b) been convicted for fraud or corruption during the past five years;
- c) willfully neglected, reneged on or failed to comply with any government, municipal or other public sector contract during the past five years; or
- d) been listed in the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004) or Database of Restricted Suppliers.

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

Item	Question	Yes	No
2.1	<p>Is the tenderer or any of its directors/members listed on the National Treasury's Database of Restricted Suppliers as companies or persons prohibited from doing business with the public sector?</p> <p>(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 <i>audi alteram partem</i> rule was applied).</p> <p>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.</p>	<p>Yes</p> <p><input type="checkbox"/></p>	<p>No</p> <p><input type="checkbox"/></p>
2.1.1	If so, furnish particulars:		
2.2	<p>Is the tenderer or any of its directors/members listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004) or Database of Restricted Suppliers?</p> <p>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.</p>	<p>Yes</p> <p><input type="checkbox"/></p>	<p>No</p> <p><input type="checkbox"/></p>
2.2.1	If so, furnish particulars:		

2.3	Was the tenderer or any of its directors/members convicted by a court of law (including a court of law outside the Republic of South Africa) for fraud or corruption during the past five years?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.3.1	If so, furnish particulars:		
Item	Question	Yes	No
2.4	Does the tenderer or any of its directors owe any municipal rates and taxes or municipal charges to the municipality / municipal entity, or to any other municipality / municipal entity, that is in arrears for more than three months?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.4.1	If so, furnish particulars:		
2.5	Was any contract between the tenderer and the municipality / municipal entity or any other organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes <input type="checkbox"/>	No <input type="checkbox"/>
2.7.1	If so, furnish particulars:		

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

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

Date

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

To: THE CITY MANAGER, CITY OF CAPE TOWN

From: _____
(Name of tenderer)

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

The tenderer:

- a) hereby acknowledges that according to SCM Regulation 38(1)(d)(i) the City Manager may reject the tender of the tenderer if any municipal rates and taxes or municipal service charges owed by the tenderer (or any of its directors/members/partners) to the CCT, or to any other municipality or municipal entity, are in arrears for more than 3 (three) months; and
- b) therefore hereby agrees and authorises the CCT to deduct the full amount outstanding by the Tenderer or any of its directors/members/partners from any payment due to the tenderer; and
- c) confirms the information as set out in the tables below for the purpose of giving effect to b) above;
- d) The tenderer hereby certifies that the information set out in this schedule and/or attached hereto is true and correct, and acknowledges that failure to properly and truthfully complete this schedule may result in steps being taken against the tenderer, the tender being disqualified, and/or (in the event that the tenderer is successful) the cancellation of the contract, restriction of the tenderer or the exercise by the employer of any other remedies available to it.

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

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

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

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

Date



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

8.1 PRICING INSTRUCTIONS

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

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

8.2 SUPPLIER / MANUFACTURER CONTRACT PRICE ADJUSTMENT

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

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

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

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

a) Increase using SEIFSA indices

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

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

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

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

b) Increase using Material Supplier Price Lists

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

Supplier: _____

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

Price Number	List/Quotation	Reference
_____	_____	_____

N.B.

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

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

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

Supplier: _____

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

Price Number	List/Quotation	Reference
_____	_____	_____

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

8.3 RATE OF EXCHANGE VARIATIONS

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

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

Name _____ of _____ Bank: _____

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

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

5.2.3: PRICE BASIS FOR IMPORTED RESOURCES

[illegible]

8.4 PRICE VARIATION CLAIM

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

- 8.4.1.1 This section is applicable to **Tenderers that ARE the manufacturer** of the tendered Goods.
- 8.4.1.2 Only Contractors that are the manufacturers of the Goods may claim SEIFSA Index based contract price adjustments.
- 8.4.1.3 For items that are subject to ROE, the SEIFSA index based CPA **shall apply only to the South African Content portion**, column (F) of the above table.
- 8.4.1.4 The contract price per item shall be adjusted **quarterly** in advance of placement of orders, and the adjusted contract price shall be applicable for purchase orders placed during the following three full calendar months.
- 8.4.1.5 Fluctuations in the prices of raw materials and labour will be acceptable for the Contract Price Adjustment calculations for the tendered Goods.
- 8.4.1.6 The base month for Contract Price Adjustment calculations shall be the calendar month prior to the month of the closing date for tenders, and published indices applicable to this month shall be used.
- 8.4.1.7 Adjusted contract prices per item shall be calculated based upon the SEIFSA indices published in the calendar month of application for the amended equipment contract prices.
- 8.4.1.8 Material and labour price variation shall be calculated based upon the SEIFSA base material and labour indices and the stipulated price proportions as detailed in Annexure A of Schedule 8.
- 8.4.1.9 A minimum of 10% of the **South African Content portion** of the tender price per item (column (F) of the above table) shall be fixed and free of variation for the duration of the contract.
- 8.4.1.10 The process to be followed by Contractors for claims for contract price adjustment in terms of SEIFSA shall be as follows:
 - a) The Contractor shall approach the Employer in writing prior to the third Friday of each of **February, May, August and November** month with an application for the amended unit prices of the Goods to be applicable to the contract during the following month.
 - b) The application shall be based upon the SEIFSA indices published during the calendar month of application (published before the end of the third week of the month and detailing the latest available indices) and shall detail the proposed adjusted unit prices for the Goods and include detailed calculations indicating how the adjusted unit prices per item have been established.
 - c) Calculations of the contract price adjustment shall use the original tendered unit rates, the base indices, the indices published in the calendar month of application and the SEIFSA formula and shall contain no other factors or adjustments.
 - d) The Employer will check and approve the proposed unit prices for the following month prior to the last Friday of the month of application. The Employer will notify the Contractor in writing of approval of the adjusted prices. Any communications regarding approval of the proposed adjusted prices shall be completed before the last Friday of the month of application for the amended unit prices for the Goods.
 - e) The Employer will update the SAP Contract records at the end of the month with the approved amended unit prices for the following three months.

- f) All purchase orders for the contracted Goods issued during a quarterly period shall be issued, invoiced and paid at the contract unit prices approved for that quarterly period and no further contract price adjustment claims will be considered, irrespective of the actual month of delivery and whether or not deliveries were subject to any manufacturing or delivery delays.
- g) The required delivery dates for orders for the contracted Goods placed by the Employer will be determined based upon the date of issue of the purchase order and the contract delivery period.
- h) Failure by the Contractor to submit claims for Contract Price Adjustment within the timeframes detailed above will result in the unit rates for the Goods concerned being determined by the Employer in accordance with the published SEIFSA indices. The Employer however reserves the right in such a case not to amend the unit rates for the Goods if it is not to the Employer's advantage.
- i) The successful Contractor shall immediately upon notification of the commencement date of contract submit written application for approval of adjusted unit prices for the Goods that shall be applicable during the first calendar month of the contract. This application will be assessed in accordance with the process laid out above in order to determine approved contract prices for the first calendar month of the contract.
- j) Failure to submit such application within one working week of commencement of contract shall result in the tendered unit prices being applied for orders placed during the first calendar month of the contract.
- k) Application for Contract Price Adjustment thereafter shall follow the process detailed above.

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

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

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

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

- 8.4.2.1 Contractors shall make the application for contract price adjustment prior to the date upon which the price adjustment would become effective.
- 8.4.2.2 The effective date of any price adjustment granted will be the first day of the month following the month during which the fully substantiated application for contract price adjustment is submitted and approved or, by agreement between the Contractor and the Employer, a subsequent date on which the price adjustment will become effective.
- 8.4.2.3 In instances where the Contractor's price adjustment claimed is less than entitled, the lesser price will be accepted.
- 8.4.2.4 Purchase orders placed prior to the effective date of any price increase shall be placed at the previously agreed price, not the claimed adjusted price.
- 8.4.2.5 Only the difference in cost may be adjusted and under no circumstances may the Contractor increase their profit margin.
- 8.4.2.6 The process to be followed by the Contractor for claims for contract price adjustment shall be as follows:

- a) The Contractor shall submit all of the documentation indicated below a minimum of two weeks prior to the effective date of the contract price adjustment.
 - b) The Employer will consider the proposed contract price adjustment and based on the documentary evidence, the Employer may approve the adjustment.
 - c) A letter authorising the price adjustment will be issued to the Contractor.
 - d) All purchase orders issued subsequent to the effective date of the contract price adjustment will be issued at the approved adjusted contract price.
- 8.4.2.7 The Contractor shall supply the following documentation when applying for a contract price adjustment:
- a) The price list that the tender was based upon clearly indicating the items numbered according to the tender pricing schedule.
 - b) The new price list from the same Supplier / Manufacturer as originally tendered and clearly indicating the items numbered according to the tender pricing schedule and the revised price applicable to each item.
 - c) Detailed calculations indicating how the new price has been established.
 - d) A covering letter on the Contractor's letterhead requesting the contract price adjustment.
 - e) All documentation is to be signed by the Supplier / Manufacturer and by the Contractor.
- 8.4.2.8 In the event of a Contractor changing their Supplier / Manufacturer during the tenure of the contract, no request for price variations will be considered unless the Contractor has obtained prior approval from the City for the change of Supplier / Manufacturer. Such approval shall include technical approval by the Engineer of the goods supplied by the replacement Supplier / Manufacturer. Technical approval by the Engineer shall be a prerequisite for any change of Supplier / Manufacturer.
- 8.4.3 Rate of Exchange Variations (Refer to 8.3 above)**
- 8.4.3.1 The Tenderer shall note The Department: Trade and Industry Local Production and Content requirements included with and forming a part of this specification, where applicable, and shall comply fully therewith.
- 8.4.3.2 If the Contract price is subject to variations in RATES OF EXCHANGE the Tenderer SHALL complete the appropriate section in Schedule 8 (Section 8.3), failing which no claim for contract price adjustment on the basis of rate of exchange variations will be considered.
- 8.4.3.3 Only Contractors that are directly importing the tendered Goods or component parts of the tendered Goods may claim rate of exchange variations.
- 8.4.3.4 The price adjustment for variations in the cost of plant and materials imported from outside of South Africa shall be based on the information contained on the schedule titled "**Price Basis for Imported Resources**" and as below. The Rand value of Plant and Materials comprising entirely or partly imported content that is inserted on the schedule titled "**Price Basis for Imported Resources**" (column (G)) shall be the rate tendered in the Pricing Schedule, and shall be the value in foreign currency (column (A)) converted to South African Rand (column (C)) by using the closing spot selling rate on the Base Date (seven calendar days before tender closing date) rounded to the second decimal place (column (B)), to which shall be added any Customs Surcharge and Customs Duty applicable at that date (columns (D) and (E)) and any South African manufactured or added content (column (F)). Any mark-up by the Tenderer or other costs not detailed above shall be entirely contained within the South African Content (Column (F)).

- 8.4.3.5 The Supplier shall within seven working days from the date of receipt of the purchase order arrange for cover or recovering forward by way of a contract with a bank which is an authorised foreign exchange dealer, the foreign exchange component of the cost of any imported Plant and Materials inserted by the Tenderer on the schedule titled **"Price Basis for Imported Resources"**, and submit such Forward Cover quotation to the City for approval. Following such approval the forward cover shall be contracted within a further two working days and a copy provided to the City.
- 8.4.3.6 Based on the evidence provided in Clause 8.4.3.5 above, the value in Rand inserted in column (C) of on the schedule titled **"Price Basis for Imported Resources"** shall be recalculated using the forward cover rate obtained, and any increase or decrease in the Rand value defined in this clause shall be adjusted accordingly, subject to Clause 8.4.3.7 below.
- 8.4.3.7 The adjustments shall be calculated upon the value in foreign currency in the Supplier's **forward cover contract**, provided that, should this value exceed the value in foreign currency inserted in column (A) of on the schedule titled **"Price Basis for Imported Resources"**, then the value in column (A) shall be used.
- 8.4.3.8 Any increase or decrease in the Rand value between the amounts of Customs Surcharge and Customs Duty inserted in on the schedule titled **"Price Basis for Imported Resources"** and those amounts actually paid to the Customs and Excise Authorities, which are due to changes in the percentage rates applicable or to the foreign exchange rate used by the authorities, shall be adjusted accordingly.
- 8.4.3.9 The Tenderer shall state the Customs Duty Tariff Reference applicable to each item and the Supplier shall advise the CCT's Agent of any changes which occur.
- 8.4.3.10 Contractors shall take out Forward Cover covering the foreign exchange component of the cost of any imported portion of the Goods ordered on each purchase order issued by the Employer.
- 8.4.3.11 The process to be followed by Contractors for claims for Rate of Exchange Variations shall be as follows:
- a) On receipt of a purchase order the Contractor shall arrange for a quotation for Forward Cover from their banking institution.
 - b) This Forward Cover quotation shall be submitted to the Employer for approval of the Forward Cover rate within seven working days from date of receipt of the purchase order.
 - c) Only once the Forward Cover rate is approved may the Contractor engage in a formalised contract with their banking institution and submit the Forward Cover contract to the Employer. This shall be done within two working days from the City's approval.
 - d) The Forward Cover Contract shall refer to the purchase order number, shall be signed by both parties (the Contractor and the Banking Institution) and shall be valid until such time as the goods are delivered to the Employer.
- 8.4.3.12 On delivery of the goods to the City the Contractor shall submit the following documentation:
- - a) The Bill of Lading/Waybill/Customs Invoice (clearly indicating the items as identified on the purchase order).
 - b) Calculations detailing the difference in the rate of exchange at the time of entry and the date of tender. These shall be submitted on a covering letter.

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

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

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

8.5

8.5.1 Price Adjustment Mechanism:

- 8.5.1.1 The Contract Price as per GCC shall remain **Firm** for the first 12 months from date of commencement of the contract and no claims for contract price adjustment will be considered for the first 12 months' subject to the provisions in the price schedule.

- 8.5.1.2 Subject to 8.11.1. Above, Contract Price Adjustment will be applicable as from commencement of the 13 month. Contractors shall be entitled to claim contract price adjustment as follows:

- 8.5.1.3 **10%** of the **tendered** rate will remain fixed for the duration of the contract.

- 8.5.1.4 **90%** of the year on year rate will be subject to adjustment **annually** based on the average percentage of 12 months as published by STATSSA: Consumer Price Index (P0141–Table B2 – CPI headline year-on-year rates) as follows:

From start of 13th month to the end of the 24th month: Subject to contract price adjustment in accordance with the **Consumer Price Index (P0141–Table B2 – CPI headline year-on-year rates)**. **Base month** for the price adjustment shall be three (3) calendar months prior to the date of commencement. The **end month** shall be three (3) calendar months prior to the 12th month.

From start of 25th month to end of the 36th month: Subject to the contract price adjustment in accordance with the **Consumer Price Index (P0141–Table B2 – CPI headline year-on-year rates)**. **Base month** for the price adjustment shall be three (3) calendar months prior to the 13th month. The **end month** shall be three (3) calendar months prior to 24th month.

From start of 37th month to end 48 month: Subject to the contract price adjustment in accordance with the **Consumer Price Index (P0141–Table B2 – CPI headline year-on-year rates)**. **Base month** for the price adjustment shall be three (3) calendar months prior to the 25th month. The **end month** shall be three (3) calendar months prior to 36th month.

From start of 49th month to end 60 month: Subject to the contract price adjustment in accordance with the **Consumer Price Index (P0141–Table B2 – CPI headline year-on-year rates)**. **Base month** for the price adjustment shall be three (3) calendar months prior to the 37th month. The **end month** shall be three (3) calendar months prior to 48th month.

The **average CPI** will be calculated, the base month to the end month (both included) divided by the number of months.

Example:

The claim will be based on the **average** between the “base month” and the “end month” **e.g.: 7+6+9+6**

= 28 (28/4) = 7 therefore the claim will be 7%.

8.5.1 Contract Price Adjustment – General

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

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

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

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

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

Annexure A: Contract Price Adjustment

BASE MATERIAL AND LABOUR PRICES (APPLICABLE TO MANUFACTURERS ONLY AND TO SOUTH AFRICAN CONTENT ONLY)

Where Tender prices are subject to adjustment the prices quoted shall be subject to price variation based upon the SEIFSA base prices per metric ton or indices for materials and labour detailed below. For the purposes of this tender the **base month shall be May 2023**.

	COPPER	OTHER: _____	OTHER: _____	OTHER: _____	OTHER: _____	LAB
Table No:						
ITEM DESCRIPTION:						

[illegible]

Schedule 9: Certificate of Independent Tender Determination

I, the undersigned, in submitting this tender [202G/2022/23 Supply and delivery of traffic Signals Materials to the Transport Network Management Department within the City of Cape Town Boundary] in response to the tender invitation made by THE CITY OF CAPE TOWN, do hereby make the following statements, which I certify to be true and complete in every respect:

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

That:

1. I have read and I understand the contents of this Certificate;
2. I understand that this tender will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorised by the tenderer to sign this Certificate, and to submit this tender, on behalf of the tenderer;
4. Each person whose signature appears on this tender has been authorised by the tenderer to determine the terms of, and to sign, the tender on behalf of the tenderer;
5. For the purposes of this Certificate and this tender, I understand that the word 'competitor' shall include any individual or organisation other than the tenderer, whether or not affiliated with the tenderer, who:
 - (a) has been requested to submit a tender in response to this tender invitation;
 - (b) could potentially submit a tender in response to this tender invitation, based on their qualifications, abilities or experience; and
 - (c) provides the same goods and services as the tenderer and/or is in the same line of business as the tenderer.
6. The tenderer has arrived at this tender independently from and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium¹ will not be construed as collusive price quoting.
7. In particular, without limiting the generality of paragraphs 5 and 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices;
 - (b) geographical area where product or service will be rendered (market allocation);
 - (c) methods, factors or formulas used to calculate prices;
 - (d) the intention or decision to submit or not to submit a tender;
 - (e) the submission of a tender which does not meet the specifications and conditions of the tender; or
 - (f) tendering with the intention not to win the contract.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this tender invitation relates.
9. The terms of this tender have not been and will not be disclosed by the tenderer, directly or indirectly, to any competitor, prior to the date and time of the official tender opening or of the awarding of the contract.
10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to tenders and contracts, tenders that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act, Act 89 of 1998, and/or may be reported to the National Prosecuting Authority (NPA) for criminal investigation, and/or may be restricted from conducting business with the public sector for a period not exceeding 10 (ten) years in terms of the Prevention and Combating of Corrupt Activities Act, Act 12 of 2004, or any other applicable legislation.

Signature

Date

Name (PRINT)

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

¹ Consortium: Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution

of a contract.)

Schedule 10A: Local Content Declaration / Annexure C

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS

Preamble

This declaration is based on and replaces Municipal Bid Document 6.2 (MBD 6.2).

The amendments made to the MBD 6.2 document have been necessary to clarify this standard document as it relates to local production and content in the Electrical and Telecom Cable sector.

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2017 and the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

Documents listed herein are downloadable from the dti's official website, <http://www.thedti.gov.za>.

This schedule must be completed by tenderers and returned with their tender at the closing date and time for this tender.

1. General Conditions

- 1.1 Preferential Procurement Regulations, 2017 (Regulation 8) makes provision for the promotion of local production and content.
- 1.2 Regulation 8(2) prescribes that in the case of designated sectors, organs of state must advertise such bids with the specific bidding condition that only locally produced goods with a stipulated minimum threshold for local production and content will be considered.
- 1.3 Where necessary, for tenders referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.4 A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.5 The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = [1 - x / y] * 100$$

Where

x is the imported content in Rand

y is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by Nedbank at close of business on the date of advertisement of the bid as required in paragraph 4.1 below.

The SABS approved technical specification number SATS 1286:2011 is accessible on http://www.thedti.gov.za/industrial_development/ip.jsp at no cost.

- 1.6 A bid may be disqualified/declared non-responsive if this Declaration Certificate and Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation.

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS (Cont'd)

2. The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:

Description of services, works or goods

Stipulated minimum threshold

Electrical and Telecoms Cable Sector

90% |

3. Does any portion of the services, works or goods offered for Items as detailed in Annexure C have any imported content?

(Tick applicable box)

YES		NO	
-----	--	----	--

3.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the above General Conditions must be the rate(s) published by Nedbank at close of business on the date of advertisement of the bid.

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

NB: Tenderers must submit proof of the Nedbank rate(s) of exchange used.

4. Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the CCT provide directives in this regard.

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS (Cont'd)
(AS PER ANNEX B OF SATS 1286:2011)

LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)

IN RESPECT OF BID NO.

ISSUED BY: (Procurement Authority / Name of Municipality / Municipal Entity):

NB

- 1 The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.
- 2 Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on http://www.thedti.gov.za/industrial_development/ip.jsp. Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, (full names),

do hereby declare, in my capacity as

of(name of bidder entity), the following:

- (a) The facts contained herein are within my own personal knowledge.
- (b) I have satisfied myself that:
 - (i) the goods to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011;
- (c) The local content percentages (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C;

Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 2 above)	
Local content %, as calculated in terms of SATS 1286:2011	

If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above. The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 3.1 above and the information contained in Declaration D and E.

- (d) I accept that the Procurement Authority / Municipality /Municipal Entity has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.
- (e) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Municipal / Municipal Entity imposing any or all of the remedies as provided for in Regulation 14 of the Preferential Procurement Regulations, 2017 promulgated under the Preferential Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

SIGNATURE:

DATE: _____

WITNESS No. 1

DATE: _____

WITNESS No. 2

DATE: _____

Annex C

Local Content Declaration - Summary Schedule

(C1)	Tender No.	202G/2022/23	
(C2)	Tender description:	SUPPLY AND DELIVERY OF MATERIALS TO THE TRANSPORT NETWORK MANAGEMENT DEPARTMENT WITHIN THE CITY OF CAPE TOWN BOUNDARY	
(C3)	Designated product(s)	Electrical Cable and Telecoms Sector	
(C4)	Tender Authority:		
(C5)	Tenderer Entity name:		
(C6)	Tender Exchange Rate:	Pula	EU
(C7)	Specified local content %	90%	

Note: VAT to be excluded from all calculations

Tender item no's	List of items	Tender price per UoM (excl VAT)	Exempted imported value	Tender value of net exempted imported content	Imported value	Local value	Local content % (per item)	Anticipated Annual Tender Qty (m)	Total Tender value	Total exempted imported content	Total Imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
6.5.16	Industrial communications cable,							100			
6.5.17	FlexControl cable: Communications Cable for FlexControl - length 0.15m							100			
6.5.18	FlexControl cable: Communications Cable for FlexControl - length 0.3m							100			

Calculation of local content								Tender summary			
Tender item no's	List of items	Tender price per UoM (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)	Anticipated Annual Tender Qty (m)	Total Tender value	Total exempted imported content	Total Imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
6.5.19	FlexControl cable: Communications Cable for FlexControl - length 1m							100			
6.6.1	Cable 10m HDF195 cable SMA(f) to SMA(m)							100			
6.6.2	Cable HDF195 per m							100			
6.6.3	Cable coaxial RG58/U							100			
8.1.1	37 Core Copper Cable							25000			
8.1.2	19 Core Copper Cable							40000			
8.1.3	8 Pair Copper Cable							30000			
8.1.4	2 Core Copper Cable							20000			
8.1.5	3 Core Copper Cable							20000			
8.1.6	Bare Copper Wire							70000			
8.1.7	Cabtyre 7 Core 1,5 mm							10000			
8.1.8	Ripcord 1,5 mm							7500			
8.1.9	CAT5							5000			
14.1.4	Earthing Copper wire and Rod							90			
(C20) Total tender value									R		

		Calculation of local content					
Tender item no's	List of items	Tender price per UoM (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)
6.5.19	FlexControl cable: Communications Cable for FlexControl - length 1m						
6.6.1	Cable 10m HDF195 cable SMA(f) to SMA(m)						
6.6.2	Cable HDF195 per m						
6.6.3	Cable coaxial RG58/U						

Signature of tenderer from Annex B

Date: _____

Tender summary			
Anticipated Annual Tender Qty (m)	Total Tender value	Total exempted imported content	Total Imported content
(C16)	(C17)	(C18)	(C19)
100			
100			
100			
100			
(C21) Total Exempt imported content		R	
(C22) Total tender value net of exempt imported content		R	
(C23) Total Imported content			R
(C24) Total local content			R
(C25) Average local content % of tender			

Schedule 10B: Local Content Declaration / Annexure C

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS

Preamble

This declaration is based on and replaces Municipal Bid Document 6.2 (MBD 6.2).

The amendments made to the MBD 6.2 document have been necessary to clarify this standard document as it relates to local production and content in the Electrical and Telecom Cable sector.

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2017 and the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

Documents listed herein are downloadable from the dti's official website, <http://www.thedti.gov.za>.

This schedule must be completed by tenderers and returned with their tender at the closing date and time for this tender.

2. General Conditions

- 1.7 Preferential Procurement Regulations, 2017 (Regulation 8) makes provision for the promotion of local production and content.
- 1.8 Regulation 8(2) prescribes that in the case of designated sectors, organs of state must advertise such bids with the specific bidding condition that only locally produced goods with a stipulated minimum threshold for local production and content will be considered.
- 1.9 Where necessary, for tenders referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.10A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.11The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = [1 - x / y] * 100$$

Where

x is the imported content in Rand

y is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by Nedbank at close of business on the date of advertisement of the bid as required in paragraph 4.1 below.

The SABS approved technical specification number SATS 1286:2011 is accessible on http://www.thedti.gov.za/industrial_development/ip.jsp at no cost.

- 1.12A bid may be disqualified/declared non-responsive if this Declaration Certificate and Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation.

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS (Cont'd)

5. The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:

Description of services, works or goods Stipulated minimum threshold

Steel Products and Components for Construction **100%**

6. Does any portion of the services, works or goods offered for Items as detailed in Annexure C have any imported content?

(Tick applicable box)

YES		NO	
-----	--	----	--

3.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the above General Conditions must be the rate(s) published by Nedbank at close of business on the date of advertisement of the bid.

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

NB: Tenderers must submit proof of the Nedbank rate(s) of exchange used.

7. Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the CCT provide directives in this regard.

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS (Cont'd) (AS PER ANNEX B OF SATS 1286:2011)

LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)

IN RESPECT OF BID NO.

ISSUED BY: (Procurement Authority / Name of Municipality / Municipal Entity):

NB

- 3 The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.
- 4 Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on http://www.thedti.gov.za/industrial_development/ip.jsp. Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, (full names),

do hereby declare, in my capacity as

of(name of bidder entity), the following:

- (f) The facts contained herein are within my own personal knowledge.
- (g) I have satisfied myself that:
 - (ii) the goods to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011;
- (h) The local content percentages (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C;

Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 2 above)	
Local content %, as calculated in terms of SATS 1286:2011	

If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above. The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 3.1 above and the information contained in Declaration D and E.

- (i) I accept that the Procurement Authority / Municipality /Municipal Entity has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.
- (j) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Municipal / Municipal Entity imposing any or all of the remedies as provided for in Regulation 14 of the Preferential Procurement Regulations, 2017 promulgated under the Preferential Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

SIGNATURE:

DATE: _____

WITNESS No. 1

DATE: _____

WITNESS No. 2

DATE: _____

Annex C

Local Content Declaration - Summary Schedule

(C1)	Tender No.	202G/2022/23		
(C2)	Tender description:	SUPPLY AND DELIVERY OF MATERIALS TO THE TRANSPORT NETWORK MANAGEMENT DEPARTMENT WITHIN THE CITY OF CAPE TOWN BOUNDARY		
(C3)	Designated product(s)	Steel Products and Components for Construction		
(C4)	Tender Authority:			
(C5)	Tenderer Entity name:			
(C6)	Tender Exchange Rate:	Pula		EU
(C7)	Specified local content %	100%		

GBP

Note: VAT to be excluded from all calculations

Calculation of local content

Tender item no's	List of items	Tender price per UoM (excl VAT)	Exempted imported value	Tender value of net exempted imported content	Imported value	Local value	Local content % (per item)
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)
3.1.1	100% Vandal proof Galvanised Steel Cabinet and Base – Magnetic lock						
3.1.2	100% Vandal proof Galvanised Steel Cabinet and Base - Electronic Lock						
3.1.3	UPS Cabinet door – Magnetic						
3.1.4	UPS Cabinet door – Electronic						

Tender summary

Anticipated Annual Tender Qty (m)	Total Tender value	Total exempted imported content	Total Imported content
(C16)	(C17)	(C18)	(C19)
300			
300			
300			
30			

Tender item no's	List of items	Tender price per UoM (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)		Anticipated Annual Tender Qty (m)	Total Tender value	Total exempted imported content	Total Imported content
6.2.21	Router mounting bracket								1000			
8.2.2	K-Clamps 32 mm								5000			
8.2.3	K-Clamps 26 mm								5000			
8.2.4	K-Clamps 20 mm								4000			
8.2.9	Bolt and Nut								3000			
8.2.10	Stainless steel screw: 5.5 x30 self-drilling teks screws hexagon head zinc yellow plated								2500			
8.2.11	Stainless steel screw: 5.5 x50 self-drilling teks screws hexagon head zinc yellow plated								3000			
8.2.14	Earth Spike 1.8m								2500			
8.2.15	Earth Spike Coupling								2500			
8.2.16	Earth Spike Drive Bolt								2500			
8.2.17	Earth Clamp for earth spike								2500			
9.1.3	Connection Pillar Locking bar only (Solid metal round bar)								300			
11.1.1	Standard Mounting Bar								30000			
11.1.2	Extended Mounting Bar								2000			
11.1.3	Standard Clamp Mounting Bracket								30000			
11.1.4	Over Sized Clamp Mounting Bracket								273			
11.2.1	Cantilever Pole Vertical only								50			

Tender item no's	List of items	Tender price per UoM (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)		Anticipated Annual Tender Qty (m)	Total Tender value	Total exempted imported content	Total Imported content
11.2.2	Cantilever Pole Horizontal only								50			
11.2.4	Cantilever Pole Bolt group only								50			
11.2.5	Cantilever Pole Complete including Vertical , Horizontal , Swivel mechanism and Bolt group								100			
11.3.1	4m Pole without hatch								2500			
11.3.2	4m Pole with hatch								5000			
4.3.3	5m Pole with hatch								2000			
4.3.4	6m Pole with hatch								2000			
4.4.1	4m Pole with hatch								2500			
11.3.3	5m Pole with hatch								200			
11.3.4	6m Pole with hatch								200			
11.3.5	8m Pole with hatch								300			
11.4.1	4m Pole with hatch								2500			
11.4.2	5m Pole with hatch								200			
11.4.3	6m Pole with hatch								200			
11.5.1	4m Pole with hatch								2500			
11.5.2	5m Pole with hatch								200			
11.5.3	6m Pole with hatch								200			
11.6.1	Pedestrian short pole								200			
11.6.2	Pole Cap								4000			
14.1.1	High Security Kiosk: 3m x 3m x 2,4m								30			

Tender item no's	List of items	Tender price per UoM (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)		Anticipated Annual Tender Qty (m)	Total Tender value	Total exempted imported content	Total Imported content
14.1.2	High Security Kiosk: 3m x 2.4m x 2.4m								30			
14.1.3	High Security Kiosk: 3m x 1.8m x 2.4m								30			
14.1.4	Earthing Copper wire and Rod								90			
15	Road signs have steel componentry (Bolts, washers and nuts to be galvanised steel)								90			
15.1.4	Road sign SS3								90			
15.1.5	Road sign W301								90			

Signature of tenderer from Annex B

Date: _____

(C20) Total tender value

R

(C21) Total Exempt imported content

R

(C22) Total tender value net of exempt imported content

R

(C23) Total Imported content

R

(C24) Total local content

R

(C25) Average local content % of tender

Schedule 10C: Local Content Declaration / Annexure C

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS

Preamble

This declaration is based on and replaces Municipal Bid Document 6.2 (MBD 6.2).

The amendments made to the MBD 6.2 document have been necessary to clarify this standard document as it relates to local production and content in the Electrical and Telecom Cable sector.

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2017 and the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

Documents listed herein are downloadable from the dti's official website, <http://www.thedti.gov.za>.

This schedule must be completed by tenderers and returned with their tender at the closing date and time for this tender.

3. General Conditions

- 1.13 Preferential Procurement Regulations, 2017 (Regulation 8) makes provision for the promotion of local production and content.
- 1.14 Regulation 8(2) prescribes that in the case of designated sectors, organs of state must advertise such bids with the specific bidding condition that only locally produced goods with a stipulated minimum threshold for local production and content will be considered.
- 1.15 Where necessary, for tenders referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.16 A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.17 The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = [1 - x / y] * 100$$

Where

x is the imported content in Rand

y is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by Nedbank at close of business on the date of advertisement of the bid as required in paragraph 4.1 below.

The SABS approved technical specification number SATS 1286:2011 is accessible on http://www.thedti.gov.za/industrial_development/ip.jsp at no cost.

- 1.18 A bid may be disqualified/declared non-responsive if this Declaration Certificate and Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation.

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS (Cont'd)

8. The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:

<u>Description of services, works or goods</u>	<u>Stipulated minimum threshold</u>
Inverter	40%
Mounting Structure	90%

9. Does any portion of the services, works or goods offered for Items as detailed in Annexure C have any imported content?

(Tick applicable box)

YES		NO	
-----	--	----	--

- 3.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the above General Conditions must be the rate(s) published by Nedbank at close of business on the date of advertisement of the bid.

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

NB: Tenderers must submit proof of the Nedbank rate(s) of exchange used.

10. Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the CCT provide directives in this regard.

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS (Cont'd) (AS PER ANNEX B OF SATS 1286:2011)

LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)

IN RESPECT OF BID NO.

ISSUED BY: (Procurement Authority / Name of Municipality / Municipal Entity):

NB

- 5 The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.
- 6 Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on http://www.thedti.gov.za/industrial_development/ip.jsp. Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, (full names),

do hereby declare, in my capacity as

of(name of bidder entity), the following:

- (k) The facts contained herein are within my own personal knowledge.
- (l) I have satisfied myself that:
 - (iii) the goods to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011;
- (m) The local content percentages (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C;

Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 2 above)	
Local content %, as calculated in terms of SATS 1286:2011	

If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above. The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 3.1 above and the information contained in Declaration D and E.

- (n) I accept that the Procurement Authority / Municipality /Municipal Entity has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.
- (o) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Municipal / Municipal Entity imposing any or all of the remedies as provided for in Regulation 14 of the Preferential Procurement Regulations, 2017 promulgated under the Preferential Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

SIGNATURE:

DATE: _____

WITNESS No. 1

DATE: _____

WITNESS No. 2

DATE: _____

Annex C

Local Content Declaration - Summary Schedule

(C1)	Tender No.	202G/2022/23					
(C2)	Tender description:	SUPPLY AND DELIVERY OF MATERIALS TO THE TRANSPORT NETWORK MANAGEMENT DEPARTMENT WITHIN THE CITY OF CAPE TOWN BOUNDARY					
(C3)	Designated product(s)	Inverter					
(C4)	Tender Authority:						
(C5)	Tenderer Entity name:						
(C6)	Tender Exchange Rate:	Pula		EU		GBP	
(C7)	Specified local content %	40%					

Note: VAT to be excluded from all calculations

Calculation of local content

Tender item no's	List of items	Tender price per UoM (excl VAT)	Exempted imported value	Tender value of net exempted imported content	Imported value	Local value	Local content % (per item)
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)
4.2.1	1.0 KVA Inverter (220VAC) 24 VDC						
4.2.2	1.5 KVA Inverter (220 VAC) 36 VDC						
4.2.3	3.0 KVA Inverter (220VAC) 36 VDC						
4.2.4	3.0 KVA Inverter (220VAC) 48 VDC						
4.2.5	5KVA Inverter						

Tender summary

Anticipated Annual Tender Qty (m)	Total Tender value	Total exempted imported content	Total Imported content
(C16)	(C17)	(C18)	(C19)
100			
100			
100			
100			
100			

Signature of tenderer from Annex B

Date:

(C20) Total tender value	R	
(C21) Total Exempt imported content	R	
(C22) Total tender value net of exempt imported content	R	
(C23) Total Imported content		R
(C24) Total local content		R
(C25) Average local content % of tender		

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS (Cont'd) (AS PER ANNEX B OF SATS 1286:2011)

LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)

IN RESPECT OF BID NO.

ISSUED BY: (Procurement Authority / Name of Municipality / Municipal Entity):

NB

- 7 The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.
- 8 Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on http://www.thedti.gov.za/industrial_development/ip.jsp. Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, (full names),

do hereby declare, in my capacity as

of(name of bidder entity), the following:

- (p) The facts contained herein are within my own personal knowledge.
- (q) I have satisfied myself that:
- (iv) the goods to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011;
- (r) The local content percentages (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C;

Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 2 above)	
Local content %, as calculated in terms of SATS 1286:2011	

If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above. The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 3.1 above and the information contained in Declaration D and E.

- (s) I accept that the Procurement Authority / Municipality /Municipal Entity has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.
- (t) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Municipal / Municipal Entity imposing any or all of the remedies as provided for in Regulation 14 of the Preferential Procurement Regulations, 2017 promulgated under the Preferential Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

SIGNATURE:

DATE: _____

WITNESS No. 1

DATE: _____

WITNESS No. 2

DATE: _____

Annex C

Local Content Declaration - Summary Schedule

(C1)	Tender No.	202G/2022/23					
(C2)	Tender description:	SUPPLY AND DELIVERY OF MATERIALS TO THE TRANSPORT NETWORK MANAGEMENT DEPARTMENT WITHIN THE CITY OF CAPE TOWN BOUNDARY					
(C3)	Designated product(s)	Mounting Structure					
(C4)	Tender Authority:						
(C5)	Tenderer Entity name:						
(C6)	Tender Exchange Rate:	Pula		EU		GBP	
(C7)	Specified local content %	90%					

Note: VAT to be excluded from all calculations

Calculation of local content

Tender item no's	List of items	Tender price per UoM (excl VAT)	Exempted imported value	Tender value of net exempted imported content	Imported value	Local value	Local content % (per item)
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)
4.3.1	MPPT Solar charge controller 36VDC						
4.3.2	MPPT Solar charge controller 48VDC						
4.3.3	Solar Panels poly-crystalline minimum 300w						
4.3.4	Solar wire silicon 4mm Red in colour						
4.3.5	Solar wire silicon 4mm Black in colour						

Tender summary

Anticipated Annual Tender Qty (m)	Total Tender value	Total exempted imported content	Total Imported content
(C16)	(C17)	(C18)	(C19)
40			
40			
40			
40			
40			

Calculation of local content								Tender summary			
Tender item no's	List of items	Tender price per UoM (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content (per item) %	Anticipated Annual Tender Qty (m)	Total Tender value	Total exempted imported content	Total Imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
4.3.5	Solar wire silicon 4mm Black in colour							60			
4.3.6	Solar wire silicon 6mm Red in colour							60			
4.3.7	Solar wire silicon 6mm Black in colour							60			
4.3.8	Solar structure to mount minimum 3 solar panels minimum height 5m							60			
4.3.10	300W Solar panels							40			
4.3.11	500W Solar panels							40			
4.3.5	Solar wire silicon 4mm Black in colour							40			
4.3.6	Solar wire silicon 6mm Red in colour							40			
4.3.7	Solar wire silicon 6mm Black in colour							40			
4.3.8	Solar structure to mount minimum 3 solar panels minimum height 5m							40			
4.3.10	300W Solar panels							60			
4.3.11	500W Solar panels							60			
6.2.5	Flex Solar repeater							50			
6.4.4	TrafiCam solar power kit							50			
6.4.5	Amber Flasher Solar Power Kit							50			

Signature of tenderer from Annex B

Date: _____

(C20) Total tender value	R	
(C21) Total Exempt imported content	R	
(C22) Total tender value net of exempt imported content	R	
(C23) Total Imported content		R
(C24) Total local content		R
(C25) Average local content % of tender		

Schedule 10D: Local Content Declaration / Annexure C

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS

Preamble

This declaration is based on and replaces Municipal Bid Document 6.2 (MBD 6.2).

The amendments made to the MBD 6.2 document have been necessary to clarify this standard document as it relates to local production and content in the Electrical and Telecom Cable sector.

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2017 and the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

Documents listed herein are downloadable from the dti's official website, <http://www.thedti.gov.za>.

This schedule must be completed by tenderers and returned with their tender at the closing date and time for this tender.

4. General Conditions

- 1.19 Preferential Procurement Regulations, 2017 (Regulation 8) makes provision for the promotion of local production and content.
- 1.20 Regulation 8(2) prescribes that in the case of designated sectors, organs of state must advertise such bids with the specific bidding condition that only locally produced goods with a stipulated minimum threshold for local production and content will be considered.
- 1.21 Where necessary, for tenders referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.22 A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.23 The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = [1 - x / y] * 100$$

Where

x is the imported content in Rand

y is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by Nedbank at close of business on the date of advertisement of the bid as required in paragraph 4.1 below.

The SABS approved technical specification number SATS 1286:2011 is accessible on http://www.thedti.gov.za/industrial_development/ip.jsp at no cost.

- 1.24 A bid may be disqualified/declared non-responsive if this Declaration Certificate and Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation.

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS (Cont'd)

- 11. The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:**

Description of services, works or goods Stipulated minimum threshold

Two Way Radio and Associated Equipment **60%**

- 12. Does any portion of the services, works or goods offered for Items as detailed in Annexure C have any imported content?**

(Tick applicable box)

YES		NO	
-----	--	----	--

3.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the above General Conditions must be the rate(s) published by Nedbank at close of business on the date of advertisement of the bid.

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

NB: Tenderers must submit proof of the Nedbank rate(s) of exchange used.

- 13. Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the CCT provide directives in this regard.**

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS (Cont'd) (AS PER ANNEX B OF SATS 1286:2011)

LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)

IN RESPECT OF BID NO.

ISSUED BY: (Procurement Authority / Name of Municipality / Municipal Entity):
.....

NB

- 9 The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.
- 10 Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on http://www.thedti.gov.za/industrial_development/ip.jsp. Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, (full names),

do hereby declare, in my capacity as

of(name of bidder entity), the following:

- (u) The facts contained herein are within my own personal knowledge.
- (v) I have satisfied myself that:
 - (v) the goods to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011;
- (w) The local content percentages (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C;

Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 2 above)	
Local content %, as calculated in terms of SATS 1286:2011	

If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above. The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 3.1 above and the information contained in Declaration D and E.

- (x) I accept that the Procurement Authority / Municipality /Municipal Entity has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.
- (y) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Municipal / Municipal Entity imposing any or all of the remedies as provided for in Regulation 14 of the Preferential Procurement Regulations, 2017 promulgated under the Preferential Policy Framework Act (PPFA), 2000 (Act No. 5 of 2000).

SIGNATURE:

DATE: _____

WITNESS No. 1

DATE: _____

WITNESS No. 2

DATE: _____

Annex C

Local Content Declaration - Summary Schedule

(C1)	Tender No.	202G/2022/23					
(C2)	Tender description:	SUPPLY AND DELIVERY OF MATERIALS TO THE TRANSPORT NETWORK MANAGEMENT DEPARTMENT WITHIN THE CITY OF CAPE TOWN BOUNDARY					
(C3)	Designated product(s)	Two Way Radio & Associated Equipment					
(C4)	Tender Authority:						
(C5)	Tenderer Entity name:						
(C6)	Tender Exchange Rate:	Pula		EU		GBP	
(C7)	Specified local content %	60%					

Note: VAT to be excluded from all calculations

Calculation of local content

Tender item no's	List of items	Tender price per UoM (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)
6.1.1	Flush Mount Wireless Sensor						
6.1.5	Wireless Micro Radar sensor						
6.2.1	Access Point						
6.2.2	Access Point Mounting Kit						
6.2.3	Standard Flex Antenna						
6.2.4	Long Range Flex Antenna						
6.2.5	Flex Solar repeater						

Tender summary

Anticipated Annual Tender Qty (m)	Total Tender value	Total exempted imported content	Total Imported content
(C16)	(C17)	(C18)	(C19)
300			
300			
300			
30			
50			
50			
50			

Tender item no's	List of items	Tender price per UoM (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content (per item) %	Anticipated Annual Tender Qty (m)	Total Tender value	Total exempted imported content	Total Imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
6.2.6	Flex Node Line power repeater										
6.2.8	Flex Digital Radio							300			
6.2.9	FlexRadio cabinet module							300			
6.2.14	Flex Control Bluetooth sensor kit							120			
6.2.15	Flex Control Bluetooth sensor							120			
6.2.16	Flex Control Bluetooth range extender module							120			
6.2.17	Flex Control Bluetooth range extender communications cable							120			
6.2.18	Standalone Bluetooth sensor							120			
6.2.25	Replacement battery for RP-240-BH repeater							120			
6.2.26	Replacement battery for RP-240-BH-2 repeater							120			
6.3.6	Pedestrian Radar Detector							120			
6.3.7	Mid-Block Radar Detector							120			
6.3.8	Stop line Radar Detector							120			

Tender item no's	List of items	Tender price per UoM (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)	Anticipated Annual Tender Qty (m)	Total Tender value	Total exempted imported content	Total Imported content
6.3.21	X-CAM-i Congestion Detection Video Sensor							120			
6.3.22	X-CAM-td And Traffic Data Collection Camera Sensor							120			
6.3.34	Compact 3G Industrial OpenWRT Router with I/O and OpenVPN complete with antennas and cables							120			
6.3.35	LTE Dual SIM Industrial OpenWRT Router with RS485, RS232, IO and GPS with antennas and cables							120			
6.3.36	Compact RS232, RS485 Modem with internal battery, IO and GPS							120			
6.3.34	Compact 3G Industrial OpenWRT Router with I/O and OpenVPN complete with antennas and cables							120			
6.3.35	LTE Dual SIM Industrial OpenWRT Router with RS485, RS232, IO and GPS with antennas and cables							120			

Tender item no's	List of items	Tender price per UoM (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)	Anticipated Annual Tender Qty (m)	Total Tender value	Total exempted imported content	Total Imported content
6.3.36	Compact RS232, RS485 Modem with internal battery, IO and GPS							120			
6.3.34	Compact 3G Industrial OpenWRT Router with I/O and OpenVPN complete with antennas and cables							120			
6.3.35	LTE Dual SIM Industrial OpenWRT Router with RS485, RS232, IO and GPS with antennas and cables							120			
6.3.36	Compact RS232, RS485 Modem with internal battery, IO and GPS							120			
6.3.34	Compact 3G Industrial OpenWRT Router with I/O and OpenVPN complete with antennas and cables							120			
6.3.35	LTE Dual SIM Industrial OpenWRT Router with RS485, RS232, IO and GPS with antennas and cables							120			
6.3.36	Compact RS232, RS485 Modem with internal battery, IO and GPS							120			
6.4.1	Pole mount Wireless TrafiCam PSU (Signal Head Powered)							120			
6.4.2	Pole mount 24V TrafiCam PSU (230V Powered)							120			
6.4.3	Pole mount TrafiCam PSU (Enclosure Only)							120			

Tender item no's	List of items	Tender price per UoM (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)		Anticipated Annual Tender Qty (m)	Total Tender value	Total exempted imported content	Total Imported content
6.4.6	Lane Light PSU								240			
6.5.1	Traffic Logger								240			
6.5.2	Signal Priority Transceiver								240			

Signature of tenderer from Annex B

(C20) Total tender value

R

(C21) Total Exempt imported content

R

(C22) Total tender value net of exempt imported content

R

(C23) Total Imported content

R

(C24) Total local content

R

(C25) Average local content % of tender

Date:

Schedule 10E: Local Content Declaration / Annexure C

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS

Preamble

This declaration is based on and replaces Municipal Bid Document 6.2 (MBD 6.2).

The amendments made to the MBD 6.2 document have been necessary to clarify this standard document as it relates to local production and content in the Electrical and Telecom Cable sector.

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2017 and the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

Documents listed herein are downloadable from the dti's official website, <http://www.thedti.gov.za>.

This schedule must be completed by tenderers and returned with their tender at the closing date and time for this tender.

5. General Conditions

- 1.25 Preferential Procurement Regulations, 2017 (Regulation 8) makes provision for the promotion of local production and content.
- 1.26 Regulation 8(2) prescribes that in the case of designated sectors, organs of state must advertise such bids with the specific bidding condition that only locally produced goods with a stipulated minimum threshold for local production and content will be considered.
- 1.27 Where necessary, for tenders referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.28 A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.29 The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = [1 - x / y] * 100$$

Where

x is the imported content in Rand

y is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by Nedbank at close of business on the date of advertisement of the bid as required in paragraph 4.1 below.

The SABS approved technical specification number SATS 1286:2011 is accessible on http://www.thedti.gov.za/industrial_development/ip.jsp at no cost.

- 1.30 A bid may be disqualified/declared non-responsive if this Declaration Certificate and Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation.

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS (Cont'd)

14. The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:

Description of services, works or goods	Stipulated minimum threshold
---	------------------------------

Industrial Lead Acid Batteries	50%
--------------------------------	-----

15. Does any portion of the services, works or goods offered for Items as detailed in Annexure C have any imported content?

(Tick applicable box)

YES		NO	
-----	--	----	--

3.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the above General Conditions must be the rate(s) published by Nedbank at close of business on the date of advertisement of the bid.

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

NB: Tenderers must submit proof of the Nedbank rate(s) of exchange used.

16. Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the CCT provide directives in this regard.

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS (Cont'd)
(AS PER ANNEX B OF SATS 1286:2011)

LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)

IN RESPECT OF BID NO.

ISSUED BY: (Procurement Authority / Name of Municipality / Municipal Entity):

NB

- 11 The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.
- 12 Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on http://www.thedti.gov.za/industrial_development/ip.jsp. Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, (full names),

do hereby declare, in my capacity as

of(name of bidder entity), the following:

(z) The facts contained herein are within my own personal knowledge.

(aa) I have satisfied myself that:

(vi) the goods to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011;

(bb) The local content percentages (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C;

Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 2 above)	
Local content %, as calculated in terms of SATS 1286:2011	

If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above. The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 3.1 above and the information contained in Declaration D and E.

(cc) I accept that the Procurement Authority / Municipality /Municipal Entity has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.

(dd) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Municipal / Municipal Entity imposing any or all of the remedies as provided for in Regulation 14 of the Preferential Procurement Regulations, 2017 promulgated under the Preferential Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

SIGNATURE:

DATE: _____

WITNESS No. 1

DATE: _____

WITNESS No. 2

DATE: _____

Annex C

Local Content Declaration - Summary Schedule

(C1)	Tender No.	202G/2022/23	
(C2)	Tender description:	SUPPLY AND DELIVERY OF MATERIALS TO THE TRANSPORT NETWORK MANAGEMENT DEPARTMENT WITHIN THE CITY OF CAPE TOWN BOUNDARY	
(C3)	Designated product(s)	Industrial Lead Acid Batteries	
(C4)	Tender Authority:		
(C5)	Tenderer Entity name:		
(C6)	Tender Exchange Rate:	Pula	EU
(C7)	Specified local content %	50%	

Note: VAT to be excluded from all calculations

Tender item no's	List of items	Tender price per UoM (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)	Anticipated Annual Tender Qty (m)	Total Tender value	Total exempted imported content	Total Imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
3.3.1	UPS Battery 105AH 12VDC Deep Cycle low maintenance							40			
3.3.2	UPS Battery 100AH 12VDC Deep Cycle low maintenance - GEL battery							120			

Tender item no's	List of items	Tender price per UoM (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)	Anticipated Annual Tender Qty (m)	Total Tender value	Total exempted imported content	Total Imported content
3.3.3	UPS Battery 100AH 12VDC Deep Cycle low maintenance - AGM battery							800			

Signature of tenderer from Annex B

Date:

(C20) Total tender value	R	
(C21) Total Exempt imported content	R	
(C22) Total tender value net of exempt imported content	R	
(C23) Total Imported content		R
(C24) Total local content		R
(C25) Average local content % of tender		

Schedule 10F: Local Content Declaration / Annexure C

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS

Preamble

This declaration is based on and replaces Municipal Bid Document 6.2 (MBD 6.2).

The amendments made to the MBD 6.2 document have been necessary to clarify this standard document as it relates to local production and content in the Electrical and Telecom Cable sector.

Before completing this declaration, bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2017 and the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

Documents listed herein are downloadable from the dti's official website, <http://www.thedti.gov.za>.

This schedule must be completed by tenderers and returned with their tender at the closing date and time for this tender.

6. General Conditions

- 1.31 Preferential Procurement Regulations, 2017 (Regulation 8) makes provision for the promotion of local production and content.
- 1.32 Regulation 8(2) prescribes that in the case of designated sectors, organs of state must advertise such bids with the specific bidding condition that only locally produced goods with a stipulated minimum threshold for local production and content will be considered.
- 1.33 Where necessary, for tenders referred to in paragraph 1.2 above, a two stage bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BBEE.
- 1.34 A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.35 The local content (LC) expressed as a percentage of the bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = [1 - x / y] * 100$$

Where

x is the imported content in Rand

y is the bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by Nedbank at close of business on the date of advertisement of the bid as required in paragraph 4.1 below.

The SABS approved technical specification number SATS 1286:2011 is accessible on http://www.thedti.gov.za/industrial_development/ip.jsp at no cost.

- 1.36 A bid may be disqualified/declared non-responsive if this Declaration Certificate and Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the bid documentation.

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS (Cont'd)

17. The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this bid is/are as follows:

<u>Description of services, works or goods</u>	<u>Stipulated minimum threshold</u>
Plastic Pipes	100%

18. Does any portion of the services, works or goods offered for Items as detailed in Annexure C have any imported content?

(Tick applicable box)

YES		NO	
-----	--	----	--

3.1 If yes, the rate(s) of exchange to be used in this bid to calculate the local content as prescribed in paragraph 1.5 of the above General Conditions must be the rate(s) published by Nedbank at close of business on the date of advertisement of the bid.

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

NB: Tenderers must submit proof of the Nedbank rate(s) of exchange used.

19. Where, after the award of a bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the CCT provide directives in this regard.

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS (Cont'd)
(AS PER ANNEX B OF SATS 1286:2011)

LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)

IN RESPECT OF BID NO.

ISSUED BY: (Procurement Authority / Name of Municipality / Municipal Entity):

NB

- 13 The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the bidder.
- 14 Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on http://www.thedti.gov.za/industrial_development/ip.jsp. Bidders should first complete Declaration D. After completing Declaration D, bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the bid documentation at the closing date and time of the bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the bidders for verification purposes for a period of at least 5 years. The successful bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, (full names),

do hereby declare, in my capacity as

of(name of bidder entity), the following:

(ee) The facts contained herein are within my own personal knowledge.

(ff) I have satisfied myself that:

(vii) the goods to be delivered in terms of the above-specified bid comply with the minimum local content requirements as specified in the bid, and as measured in terms of SATS 1286:2011;

(gg) The local content percentages (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C;

Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 2 above)	
Local content %, as calculated in terms of SATS 1286:2011	

If the bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above. The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 3.1 above and the information contained in Declaration D and E.

(hh) I accept that the Procurement Authority / Municipality /Municipal Entity has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.

(ii) I understand that the awarding of the bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Municipal / Municipal Entity imposing any or all of the remedies as provided for in Regulation 14 of the Preferential Procurement Regulations, 2017 promulgated under the Preferential Policy Framework Act (PPPFA), 2000 (Act No. 5 of 2000).

SIGNATURE:

DATE: _____

WITNESS No. 1

DATE: _____

WITNESS No. 2

DATE: _____

Annex C

Local Content Declaration - Summary Schedule

(C1)	Tender No.	202G/2022/23	
(C2)	Tender description:	SUPPLY AND DELIVERY OF MATERIALS TO THE TRANSPORT NETWORK MANAGEMENT DEPARTMENT WITHIN THE CITY OF CAPE TOWN BOUNDARY	
(C3)	Designated product(s)	Plastic Pipes	
(C4)	Tender Authority:		
(C5)	Tenderer Entity name:		
(C6)	Tender Exchange Rate:	Pula	EU
(C7)	Specified local content %	100%	

Note: VAT to be excluded from all calculations

Tender item no's	List of items	Tender price per UoM (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)	Anticipated Annual Tender Qty (m)	Total Tender value	Total exempted imported content	Total Imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
15.1.1	Sleeving Duct pipe solid							80			
15.1.2	Sleeving Duct pipe flexible							80			
15.1.3	Connection Pillar (Stubby) complete with locking bar, Polycarbonate,							3000			

Signature of tenderer from Annex B

Date:

(C20) Total tender value	R	
(C21) Total Exempt imported content	R	
(C22) Total tender value net of exempt imported content	R	
(C23) Total Imported content		R
(C24) Total local content		R
(C25) Average local content % of tender		

Schedule 12: Schedule of Pre-Qualification Criteria Sub-Contractors

Not Applicable

Schedule 13: List of other documents attached by tenderer

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

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

Attach additional pages if more space is required.

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

Date

Schedule 14: Record of Addenda to Tender Documents

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

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

Attach additional pages if more space is required.

SIGNED ON BEHALF OF TENDERER:

Schedule 15: Information to be provided with the tender

The following information shall be provided with the Tender:

- a. The various technical details and data required by the Technical Data Sheets and information required in the Returnable Schedules.
- b. The tenderers shall indicate the Categories of tender under the Preference column by an X. The tender will be awarded per category provided that the tenderer price for all items within a category.

CATEGORY	DESCRIPTION	PREFERENCE
1	Traffic Signal Lanterns	
2	Traffic Signal Lanterns For ST Signs	
3	Uninterruptable Power Supplys (UPS) and Cabinets	
4	Energy Storage Modules, Inverters and Solar Equipment	
5	Traffic Signal Controllers, Routers and Spares	
6	Non-intrusive Detection Equipment	
7	Drilling Machine and Core-bit	
8	Cables and Accessories	
9	Connection Pillars	
10	Flashing Light Equipment	
11	Pole For Mounting Brackets &Traffic Signal Poles	
12	Pedestrian Detection Equipment	
13	Vinyl Numbers, Logos and Decals	
14	Vandal Proof Cage For Controller & Peripheral Equipment	
15	Civil Engineering Material	

SIGNED ON BEHALF OF TENDERER:

Schedule 16: SCHEDULE OF SUPPLY EXPERIENCE OF TENDERER

The tenderer shall insert in the spaces provided below the value of material successfully delivered in the past five (5) years, as well as the details of the client/s supplied, in the categories of material described below: Tenderers shall note the functionality requirements stated in C.2.2.1.1.4.

CATEGORY	DESCRIPTION	VALUE OF MATERIAL SUCCESSFULLY DELIVERED IN THE PAST FIVE (5) YEARS	CLIENT/S	CLIENT CONTACT DETAILS
1	Traffic Signal Lanterns			
2	Traffic Signal Lanterns For ST Signs			
3	Uninterruptable Power Supply (UPS) and Cabinets			
4	Energy Storage Modules, Inverters and Solar Equipment			
5	Traffic Signal Controllers, Routers and Spares			
6	Non-intrusive Detection Equipment			
7	Drilling Machine and Core-bit			

CATEGORY	DESCRIPTION	VALUE OF MATERIAL SUCCESSFULLY DELIVERED IN THE PAST FIVE (5) YEARS	CLIENT/S	CLIENT CONTACT DETAILS
8	Cables and Accessories			
9	Connection Pillars			
10	Flashing Light Equipment			
11	Pole For Mounting Brackets &Traffic Signal Poles			
12	Pedestrian Detection Equipment			
13	Vinyl Numbers, Logos and Decals			
14	Vandal Proof Cage For Controller & Peripheral Equipment			
15	Civil Engineering Material			

SIGNED ON BEHALF OF TENDERER:

TENDER DOCUMENT GOODS AND SERVICES		 CITY OF CAPE TOWN ISIXEKO SASEKAPA STAD KAAPSTAD	
SUPPLY CHAIN MANAGEMENT			
SCM - 542	Approved by Branch Manager: 03/04/2020	Version: 8	Page 142 of 66

TENDER NO: 202G/2022/23

TENDER DESCRIPTION: SUPPLY AND DELIVERY OF TRAFFIC SIGNAL MATERIALS TO THE TRANSPORT NETWORK MANAGEMENT DEPARTMENT WITHIN THE CITY OF CAPE TOWN BOUNDARY

CONTRACT PERIOD: FROM DATE OF COMMENCEMENT TILL 30 JUNE 2026

VOLUME 3: DRAFT CONTRACT

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

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

VOLUME 3: DRAFT CONTRACT

(7) SPECIAL CONDITIONS OF CONTRACT

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

1. Definitions

Delete Clause 1.15 and substitute with the following

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

Delete Clause 1.19 and substitute with the following

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

Delete Clause 1.21 and substitute with the following:

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

Add the following after Clause 1.25:

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

3. General Obligations

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

- 3.2 The parties will be liable to each other arising out of or in connection with any breach of the obligations detailed or implied in this contract, subject to clause 28.
- 3.3 All parties in a joint venture or consortium shall be jointly and severally liable to the purchaser in terms of this contract and shall carry individually the minimum levels of insurance stated in the contract, if any.
- 3.4 The parties shall comply with all laws, regulations and bylaws of local or other authorities having jurisdiction regarding the delivery of the goods and give all notices and pay all charges required by such authorities.
- 3.4.1 The parties agree that this contract shall also be subject to the CCT's Supply Chain Management Policy ('SCM Policy') that was applicable on the date the bid was advertised, **save that if the Employer adopts a new SCM Policy which contemplates that any clause therein would apply to the contract emanating from this tender, such clause shall also be applicable to that contract.** Please refer to this document contained on the CCT's website.

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

3.5 The **supplier** shall:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

3.6 The **purchaser** shall:

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

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

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

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

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

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

- 3.6.7 Inspect the goods to determine if, in the opinion of the purchaser, it has been delivered in compliance with the contract, alternatively in such a state that it can be properly used for the purpose for which it was intended.
- 3.6.8 Brief the supplier and issue all documents, information, etc. in accordance with the contract.

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

Add the following after clause 5.4:

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

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

- 5.6 **Publicity and publication**
The supplier shall not release public or media statements or publish material related to the services or contract within two (2) years of completion of the services without the written approval of the purchaser, which approval shall not be unreasonably withheld.
- 5.7 **Confidentiality**
Both parties shall keep all information obtained by them in the context of the contract confidential and shall not divulge it without the written approval of the other party.
- 5.8 **Intellectual Property**
- 5.8.1 The supplier acknowledges that it shall not acquire any right, title or interest in or to the Intellectual Property of the Employer.
- 5.8.2 The supplier hereby assigns to the Employer, all Intellectual Property created, developed or otherwise brought into existence by it for the purposes of the contract, unless the Parties expressly agree otherwise in writing.
- 5.8.3 The supplier shall, and warrants that it shall:
- 5.8.3.1 not be entitled to use the Employer's Intellectual Property for any purpose other than as contemplated in this contract;
- 5.8.3.2 not modify, add to, change or alter the Employer's Intellectual Property, or any information or data related thereto, nor may the supplier produce any product as a result of, including and/or arising from any such information, data and Intellectual Property, and in the event that it does produce any such product, the product shall be, and be deemed in law to be, owned by the Employer;
- 5.8.3.3 not apply for or obtain registration of any domain name, trademark or design which is similar to any Intellectual Property of the Employer;
- 5.8.3.4 comply with all reasonable directions or instructions given to it by the Employer in relation to the form and manner of use of the Employer Intellectual Property, including without limitation, any brand guidelines which the Employer may provide to the supplier from time to time;
- 5.8.3.5 procure that its employees, directors, members and contractors comply strictly with the provisions of clauses 5.8.3.1 to 5.8.3.3 above;

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

- 5.8.4 The supplier represents and warrants to the Employer that, in providing goods, services or both, as the case may be, for the duration of the contract, it will not infringe or make unauthorised use of the Intellectual Property rights of any third party and hereby indemnifies the Employer from any claims, liability, loss, damages, costs, and expenses arising from the infringement or unauthorised use by the supplier of any third party's Intellectual Property rights.
- 5.8.5 In the event that the contract is cancelled, terminated, ended or is declared void, any and all of the Employer's Intellectual Property, and any and all information and data related thereto, shall be immediately handed over to the Employer by the supplier and no copies thereof shall be retained by the supplier unless the Employer expressly and in writing, after obtaining due internal authority, agrees otherwise.

7. Performance Security

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

8. Inspections, tests and analyses

Delete Clause 8.2 and substitute with the following:

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

10. Delivery and documents

Delete clauses 10.1 and 10.2 and replace with the following:

- 10.1 Delivery of the goods shall be made by the supplier in accordance with the terms specified in the contract. The time for delivery of the goods shall be the date as stated on the order. Orders for the supply and delivery of goods may be raised up until the expiry of a framework agreement bid, provided that the goods can be delivered within 30 days of expiry of the framework contract. All orders, other than for the supply and delivery of goods, must be completed prior to the expiry of the contract period.
- 10.2 The purchaser shall determine, in its sole discretion, whether the goods have been delivered in compliance with the contract, alternatively in such a state that it can be properly used for the purpose for which it was intended. When the purchaser determines that the goods have been satisfactorily delivered, the purchaser must issue an appropriate certification, or written approval, to that effect. Invoicing may only occur, and must be dated, on or after the date of acceptance of the goods.

11. Insurance

Add the following after clause 11.1:

- 11.2 Without limiting the obligations of the supplier in terms of this contract, the supplier shall effect and maintain the following additional insurances:
- a) Public liability insurances, in the name of the supplier, covering the supplier and the purchaser against liability for the death of or injury to any person, or loss of or damage to any property, arising out of or in the course of this Contract, in an amount not less than **R20 million** for any single claim;
 - b) Motor Vehicle Liability Insurance, in respect of all vehicles owned and / or leased by the supplier, comprising (as a minimum) "Balance of Third Party" Risks including Passenger Liability Indemnity;
 - c) Registration / insurance in terms of the Compensation for Occupational Injuries and Disease Act, Act 130 of 1993. This can either take the form of a certified copy of a valid Letter of Good Standing issued by the Compensation Commissioner, or proof of insurance with a licenced compensation insurer, from either the bidder's broker or the insurance company itself (see **Proof of Insurance / Insurance Broker's Warranty** section in document for a pro forma version).

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

15. Warranty

Add to Clause 15.2:

- 15.2 Tenderers are to refer to the Material Equipment Specification for the warranty applicable to each item after the goods have been delivered.

16. Payment

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

- 16.1 A monthly payment cycle will be the norm. All invoices which are dated on or before the 20th of a particular month will typically be paid between the 23rd and 26th of the following month. The supplier may submit a fully motivated application regarding more frequent payment to the Employer's Director: Expenditure for consideration. Requests for more frequent payments will be considered at the sole discretion of the Employer and is not a right in terms of this contract.

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

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

Add the following after clause 16.4

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

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

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

17. Prices

Add the following after clause 17.1

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

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

17.4 Shall be subject to CPA as per SCHEDULE 8

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- 17.5 If price adjustment for variations in the cost of plant and materials imported from outside of South Africa is provided for in the contract, such adjustment shall be based on the information contained on the schedule

titled “**Price Basis for Imported Resources**” and as below. For the purposes of this clause the Rand value of imported Plant and Materials inserted on the schedule titled “**Price Basis for Imported Resources**” (column (F)) shall be the value in foreign currency (column (A)) converted to South African Rand (column (C)) by using the closing spot selling rate quoted by **CCT’s** main banker, NEDBANK, on the Base Date (seven calendar days before tender closing date) rounded to the second decimal place (column(B)), to which shall be added any Customs Surcharge and Customs Duty applicable at that date (columns (D) and (E)).

17.5.1 Adjustment for variations in rates of exchange:

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

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

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

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

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

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

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

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

17.5.2 Adjustment for variations in customs surcharge and customs duty

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

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

17.5.3 Adjustment for variation in labour and material Costs

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

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

18. Contract Amendments and Variations

Add the following to clause 18.1:

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

20. Subcontracts

Add the following after clause 20.1:

- 20.2 The supplier shall be liable for the acts, defaults and negligence of any subcontractor, his agents or employees as fully as if they were the acts, defaults or negligence of the supplier.
- 20.3 Any appointment of a subcontractor shall not amount to a contract between the CCT and the subcontractor, or a responsibility or liability on the part of the CCT to the subcontractor and shall not relieve the supplier from any liability or obligation under the contract.

21. Delays in the supplier's performance

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

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

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

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

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

22. Penalties

Delete clause 22.1 and replace with the following:

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

In the event that the actual delivery for goods ordered in terms of this tender exceeds the contracted delivery period, a penalty of 0.5% per day of the value of the overdue goods will be imposed.

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

23. Termination for default

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

23. Termination

Add the following to the end of clause 23.1:

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

Add the following after clause 23.7:

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

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

23.8.2 The parties by mutual agreement terminate the contract.

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

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

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

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

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

26. Termination for insolvency

Delete clause 26.1 and replace with the following:

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

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

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

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

27. Settlement of Disputes

Amend clause 27.1 as follows:

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

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

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

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

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

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

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

28. Limitation of Liability

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

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

Add the following after clause 28.1:

- 28.2 Without detracting from, and in addition to, any of the other indemnities in this contract, the supplier shall be solely liable for and hereby indemnifies and holds harmless the purchaser against all claims, charges, damages, costs, actions, liability, demands and/or proceedings and expense in connection with:

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

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

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

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

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

31. Notices

Delete clauses 31.1 and 31.2 and replace with the following:

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

32. Taxes and Duties

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

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

Add the following after clause 32.3:

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

ADDITIONAL CONDITIONS OF CONTRACT

Add the following Clause after Clause 34:

35. Reporting Obligations.

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

(8) GENERAL CONDITIONS OF CONTRACT

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

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1. Definitions

1. The following terms shall be interpreted as indicated:

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

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

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

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

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

- 1.6 'Country of origin' means the place where the goods were mined, grown or produced or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembly of components, a commercially recognised new product results that is substantially different in basic characteristics or in purpose or utility from its components.
- 1.7 'Day' means calendar day.
- 1.8 'Delivery' means delivery in compliance with the conditions of the contract or order.
- 1.9 'Delivery ex stock' means immediate delivery directly from stock actually on hand.
- 1.10 'Delivery into consignee's store or to his site' means delivered and unloaded in the specified store or depot or on the specified site in compliance with the conditions of the contract or order, the supplier bearing all risks and charges involved until the supplies are so delivered and a valid receipt is obtained.
- 1.11 'Dumping' occurs when a private enterprise abroad markets its goods on its own initiative in the RSA at lower prices than that of the country of origin, and which action has the potential to harm the local industries in the RSA.
- 1.12 'Force majeure' means an event beyond the control of the supplier, not involving the supplier's fault or negligence, and not foreseeable. Such events may include, but are not restricted to, acts of the purchaser in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- 1.13 'Fraudulent practice' means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any bidder, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial, non-competitive levels and to deprive the bidder of the benefits of free and open competition.
- 1.14 'GCC' means the General Conditions of Contract.
- 1.15 'Goods' means all of the equipment, machinery, and/or other materials that the supplier is required to supply to the purchaser under the contract.
- 1.16 'Imported content' means that portion of the bidding price represented by the cost of components, parts or materials which have been or are still to be imported (whether by the supplier or his subcontractors) and which costs are inclusive of the costs abroad, plus freight and other direct importation costs such as landing costs, dock dues, import duty, sales duty or other similar tax or duty at the South African place of entry as well as transportation and handling charges to the factory in the Republic where the supplies covered by the bid will be manufactured.
- 1.17 'Local content' means that portion of the bidding price which is not included in the imported content, provided that local manufacture does take place.
- 1.18 'Manufacture' means the production of products in a factory using labour, materials, components and machinery, and includes other, related value-adding activities.
- 1.19 'Order' means an official written order issued for the supply of goods or works or the rendering of a service.
- 1.20 'Project site', where applicable, means the place indicated in bidding documents.
- 1.21 'Purchaser' means the organisation purchasing the goods.
- 1.22 'Republic' means the Republic of South Africa.
- 1.23 'SCC' means the Special Conditions of Contract.

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

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

2. Application

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

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

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

3. General

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

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

4. Standards

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

5. Use of contract documents and information; inspection.

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

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

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

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

6. Patent rights

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

7. Performance Security

- 7.1 Within 30 (thirty) days of receipt of the notification of contract award, the successful bidder shall furnish to the purchaser the performance security of the amount specified in the SCC.
- 7.2 The proceeds of the performance security shall be payable to the purchaser as compensation for any loss resulting from the supplier's failure to complete his obligations under the contract.
- 7.2 The performance security shall be denominated in the currency of the contract or in a freely convertible currency acceptable to the purchaser, and shall be in one of the following forms:
 - a) a bank guarantee or an irrevocable letter of credit issued by a reputable bank located in the purchaser's country or abroad, acceptable to the purchaser, in the form provided in the bidding documents or another form acceptable to the purchaser; or
 - b) a cashier's or certified cheque.
- 7.4 The performance security will be discharged by the purchaser and returned to the supplier not later than 30 (thirty) days following the date of completion of the supplier's performance obligations under the contract, including any warranty obligations, unless otherwise specified in the SCC.

8. Inspections, tests and analyses

- 8.1 All pre-bidding testing will be for the account of the bidder.
- 8.2 If it is a bid condition that supplies to be produced or services to be rendered should at any stage during production or execution or on completion be subject to inspection, the premises of the bidder or contractor shall be open, at all reasonable hours, for inspection by a representative of the Department or an organisation acting on behalf of the Department.
- 8.3 If there are no inspection requirements indicated in the bidding documents and no mention of such is made in the contract, but during the contract period it is decided that inspections shall be carried out, the purchaser shall itself make the necessary arrangements, including payment arrangements with the testing authority concerned.
- 8.4 If the inspections, tests and analyses referred to in clauses 8.2 and 8.3 show the supplies to be in accordance with the contract requirements, the cost of the inspections, tests and analyses shall be defrayed by the purchaser.
- 8.5 Where the supplies or services referred to in clauses 8.2 and 8.3 do not comply with the contract requirements, irrespective of whether such supplies or services are accepted or not, the cost in connection with these inspections, tests or analyses shall be defrayed by the supplier.
- 8.6 Supplies and services which are referred to in clauses 8.2 and 8.3 and which do not comply with the contract requirements may be rejected.
- 8.7 Any contract supplies may on or after delivery be inspected, tested or analysed and may be rejected if found not to comply with the requirements of the contract. Such rejected supplies shall be held at the cost and risk of the supplier, who shall, when called upon, remove them immediately at his own cost and forthwith substitute them with supplies which do comply with the requirements of the contract. Failing such removal, the rejected supplies shall be returned at the suppliers cost and risk. Should the supplier fail to provide the substitute supplies forthwith, the purchaser may, without giving the supplier further opportunity to substitute the rejected supplies, purchase such supplies as may be necessary at the expense of the supplier.
- 8.8 The provisions of clauses 8.4 to 8.7 shall not prejudice the right of the purchaser to cancel the contract on account of a breach of the conditions thereof, or to act in terms of Clause 23 of the GCC.

9. Packing

- 9.1 The supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packing, case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.
- 9.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the contract, including additional requirements, if any, specified in the SCC, and in any subsequent instructions ordered by the purchaser.

10. Delivery and documents

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

11. Insurance

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

12. Transportation

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

13. Incidental Services

- 13.1 The supplier may be required to provide any or all of the following services, including additional services (if any) specified in the SCC:
- (a) performance or supervision of on-site assembly, and/or commissioning of the supplied goods;
 - (b) furnishing of tools required for the assembly and/or maintenance of the supplied goods;
 - (c) furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied goods;
 - (d) performance or supervision or maintenance and/or repair of the supplied goods, for a period of time agreed by the parties, provided that this service shall not relieve the supplier of any warranty obligations under this contract; and
 - (e) training of the purchaser's personnel, at the supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied goods.
- 13.2 Prices charged by the supplier for incidental services, if not included in the contract price for the goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the supplier for similar services.

14. Spare parts

- 14.1 As specified in the SCC, the supplier may be required to provide any or all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the supplier:
- (a) such spare parts as the purchaser may elect to purchase from the supplier, provided that this election shall not relieve the supplier of any warranty obligations under the contract; and
 - (b) in the event of termination of production of the spare parts:
 - (i) Advance notification to the purchaser of the pending termination, in sufficient time to permit the purchaser to procure needed requirements; and
 - (ii) following such termination, furnishing at no cost to the purchaser, the blueprints, drawings, and specifications of the spare parts, if requested.

15. Warranty

- 15.1 The supplier warrants that the goods supplied under the contract are new, unused, of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided otherwise in the contract. The supplier further warrants that all goods supplied under this contract shall have no defect arising from design, materials, or workmanship (except when the design and/or material is required by the purchaser's specifications), or from any act or omission of the supplier, that may develop under normal use of the supplied goods in the conditions prevailing in the country of final destination.
- 15.2 This warranty shall remain valid for 12 (twelve) months after the goods, or any portion thereof, as the case may be, have been delivered to and accepted at the final destination indicated in the contract, or for 18 (eighteen) months after the date of shipment from the port or place of loading in the source country, whichever period concludes earlier, unless specified otherwise in the SCC.
- 15.3 The purchaser shall notify the supplier promptly, in writing, of any claims arising under this warranty.
- 15.4 Upon receipt of such notice, the supplier shall, within the period specified in the SCC and with all reasonable speed, repair or replace the defective goods or parts thereof, without costs to the purchaser.
- 15.5 If the supplier, having been notified, fails to remedy the defect(s) within the period specified in the SCC, the purchaser may proceed to take such remedial action as may be necessary, at the supplier's risk and expense and without prejudice to any other rights which the purchaser may have against the supplier under the contract.

16. Payment

- 16.1 The method and conditions of payment to be made to the supplier under this contract shall be specified in the SCC.
- 16.2 The supplier shall furnish the purchaser with an invoice accompanied by a copy of the delivery note and upon fulfilment of any other obligations stipulated in the contract.
- 16.3 Payments shall be made promptly by the purchaser, but in no case later than 30 (thirty) days after submission of an invoice or claim by the supplier.
- 16.4 Payment will be made in Rand unless otherwise stipulated in the SCC.

17. Prices

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

18. Contract Amendments

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

19. Assignment

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

20. Subcontracts

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

21. Delays in the supplier's performance

- 21.1 Delivery of the goods and performance of services shall be made by the supplier in accordance with the time schedule prescribed by the purchaser in the contract.
- 21.2 If at any time during the performance of the contract, the supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of services, the supplier shall promptly notify the purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the supplier's notice, the purchaser shall evaluate the situation and may at his or her discretion extend the supplier's time for performance, with or without the imposition of penalties, in which case the extension shall be ratified by the parties by amendment of contract.
- 21.3 No provision in a contract shall be deemed to prohibit the obtaining of supplies or services from a national department, provincial department, or a local authority.
- 21.4 The right is reserved to procure, outside of the contract, small quantities of supplies; or to have minor essential services executed if an emergency arises, or the supplier's point of supply is not situated at or near the place where the supplies are required, or the supplier's services are not readily available.
- 21.5 Except as provided under GCC Clause 25, a delay by the supplier in the performance of its delivery obligations shall render the supplier liable to the imposition of penalties, pursuant to GCC Clause 22, unless an extension of time is agreed upon pursuant to GCC Clause 21.2 without the application of penalties.
- 21.6 Upon any delay beyond the delivery period in the case of a supplies contract, the purchaser shall, without cancelling the contract, be entitled to purchase supplies of a similar quality and up to the same quantity in substitution of the goods not supplied in conformity with the contract and to return any goods delivered later at the supplier's expense and risk, or to cancel the contract and buy such goods as may be required to complete the contract and, without prejudice to his other rights, be entitled to claim damages from the supplier.

22. Penalties

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

23. Termination for default

- 23.1 The purchaser, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, may terminate this contract in whole or in part:
- (a) if the supplier fails to deliver any or all of the goods within the period(s) specified in the contract, or within any extension thereof granted by the purchaser pursuant to GCC Clause 21.2;
 - (b) if the supplier fails to perform any other obligation(s) under the contract; or
 - (c) if the supplier, in the judgment of the purchaser, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.
- 23.2 In the event the purchaser terminates the contract in whole or in part, the purchaser may procure, upon such terms and in such manner as it deems appropriate, goods, works or services similar to those undelivered, and the supplier shall be liable to the purchaser for any excess costs for such similar goods, works or services. However, the supplier shall continue performance of the contract to the extent not terminated.

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

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

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

23.6 If a restriction is imposed, the purchaser must, within 5 (five) working days of such imposition, furnish the National Treasury with the following information:

- (i) the name and address of the supplier and/or person restricted by the purchaser;
- (ii) the date of commencement of the restriction;
- (iii) the period of restriction; and
- (iv) the reasons for the restriction.

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

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

24. Anti-dumping and countervailing duties and rights

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

25. Force majeure

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

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

26. Termination for insolvency

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

27. Settlement of Disputes

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

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

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

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

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

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

28. Limitation of Liability

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

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

29. Governing language

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

30. Applicable Law

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

31. Notices

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

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

32. Taxes and Duties

- 32.1 A foreign supplier shall be entirely responsible for all taxes, stamp duties, licence fees, and other such levies imposed outside the purchaser's country.
- 32.2 A local supplier shall be entirely responsible for all taxes, duties, licence fees, etc., incurred until delivery of the contracted goods to the purchaser.
- 32.3 No contract shall be concluded with any bidder whose tax matters are not in order. Prior to the award of a bid the Department must be in possession of a tax clearance certificate submitted by the bidder. This certificate must be an original issued by the South African Revenue Services.

33. National Industrial Participation (NIP) Programme

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

34 Prohibition of Restrictive practices

- 34.1 In terms of section 4 (1) (b) (iii) of the Competition Act, Act 89 of 1998, as amended, an agreement between or concerted practice by firms, or a decision by an association of firms, is prohibited if it is between parties in a horizontal relationship and if a bidder(s) is/are or a contractor(s) was/were involved in collusive bidding (or bid rigging).
- 34.2 If a bidder(s) or contractor(s), based on reasonable grounds or evidence obtained by the purchaser, has/have engaged in the restrictive practice referred to above, the purchaser may refer the matter to the Competition Commission for investigation and possible imposition of administrative penalties as contemplated in the Competition Act, Act 89 of 1998.
- 34.3 If a bidder(s) or contractor(s) has/have been found guilty by the Competition Commission of the restrictive practice referred to above, the purchaser may, in addition and without prejudice to any other remedy provided for, invalidate the bid(s) for such item(s) offered, and/or terminate the contract in whole or part, and/or restrict the bidder(s) or contractor(s) from conducting business with the public sector for a period not exceeding 10 (ten) years and/or claim damages from the bidder(s) or contractor(s) concerned.

(9) FORM OF GUARANTEE / PERFORMANCE SECURITY

Not Applicable

(10) FORM OF ADVANCE PAYMENT GUARANTEE

Not Applicable

(10.1) ADVANCE PAYMENT SCHEDULE

Not Applicable

(11) OCCUPATIONAL HEALTH AND SAFETY AGREEMENT

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

..... ,
(Supplier/Mandatar y/Company/CC Name)

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

I, , representing

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

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

COID ACT Registration Number:

OR Compensation Insurer: Policy No.:

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

I hereby declare that I will comply with the provisions of the Occupational Health and Safety Act 85 OF 1993 As Amended

Signed aton the.....day of.....20....

Witness

Mandatar y

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

Witness

for and on behalf of
City of Cape Town

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

Logo

Letterhead of supplier's Insurance Broker

Date _____

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

Dear Sir

TENDER NO.: 202G/2022/23

**TENDER DESCRIPTION: SUPPLY AND DELIVERY OF TRAFFIC SIGNAL MATERIALS TO THE TRANSPORT
NETWORK MANAGEMENT DEPARTMENT WITHIN THE CITY OF CAPE TOWN BOUNDARY**

NAME OF SUPPLIER: _____

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

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

Yours faithfully

Signed: _____

For: _____ (Supplier's Insurance Broker)

(13) SPECIFICATION(S)

The Transport and Planning Network Management Department within the City of Cape Town seeks to upgrade, maintain and extend the traffic signal related projects across the City. The current focus is to upgrade technology at legacy sites at regular intervals in order to reduce the need and occurrence of reactive maintenance and to improve mobility along public transport corridors.

1 TYPE OF MATERIAL REQUIRED

The type of Traffic signal material required is described in the price schedule

2 MATERIAL PROCUREMENT PROCESS

The City's objective is to procure the material specified in the Pricing Schedule through the Supply Chain Management Policy in order to undertake Traffic Signal repairs, upgrades and installation within the City of Cape Town

3 DELIVERY

Delivery of requested material must be within the prescribed delivery period as shown on PRICE SCHEDULE and to the CoCT SCM Store in Ndabeni, address shown below:

Supply Chain Management Electrical Store
13 Melck Street
Ndabeni

Suppliers to note that deliveries to stores must be in the Original Equipment Manufacturers (OEM's) packaging, failing which the City reserves the right to reject/decline such deliveries.

4 METHOD OF APPOINTMENT

The City reserves the right to appoint a Main Supplier and a Standby Supplier per category.

The City also reserves the right to place orders with the Standby Supplier, should the Main Supplier not respond in acceptance of the Purchase Order within two (2) working days, or fail to deliver within the prescribed delivery period.

5 OCCUPATIONAL HEALTH AND SAFETY

Tenderers must include a detailed Occupational Health and Safety Plan which must specifically include method statement on the delivery and off-loading and any risks/ dangers associated in respect of the material procured. The OHS Plan must be in accordance with the Occupational Health and Safety Act, 85 of 1993 As Amended.

6 TRADE NAMES OR PROPRIETARY PRODUCTS

Bid specifications may not make any reference to any particular trade mark, name, patent, design, type, specific origin or producer, unless there is no other sufficiently precise or intelligible way of describing the characteristics of the work, in which case such reference must be accompanied by the words "or equivalent".

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

7 FORMS FOR CONTRACT ADMINISTRATION

The supplier shall complete, sign and submit with each invoice, the following:

- a) Monthly Project Labour Report (**Annex 3**).
- b) B-BBEE Sub-Contract Expenditure Report (**Annex 4**).
- c) Joint Venture Expenditure Report (**Annex 5**).

The Monthly Project Labour Report must include details of all labour (including that of sub-contractors) that are South African citizens earning less than R350.00 per day, as adjusted from time to time (excluding any benefits), who are employed on a temporary or contract basis on this contract in the month in question.

In addition to the Monthly Project Labour Report the Supplier shall simultaneously furnish the CCT's Agent with copies of the employment contracts entered into with such labour, together with certified copies of identification documents, proof of attendance in the form of attendance register or timesheets as well as evidence of payments to such labour in the form of copies of payslips or payroll runs. If the worker is paid in cash or by cheque, this information must be recorded on the envelope and the worker must acknowledge receipt of payment by signing for it and proof of such acknowledgement shall be furnished to the CCT's Agent.

The Monthly Project Labour Reports shall be completed and submitted in accordance with the instructions therein.

The **B-BBEE Sub-Contract Expenditure Report** is required for monitoring the supplier's compliance with the sub-contracting conditions of the **Preference Schedule**.

The Joint Venture Expenditure Report is required for monitoring the joint venture's/consortium/partnership compliance with the percentage contributions of the partners as tendered, where the joint venture/consortium/partnership has been awarded preference points in respect of its consolidated B-BBEE scorecard.

TRAFFIC SIGNAL EQUIPMENT SPECIFICATION

SECTION 1 – TRAFFIC SIGNAL LANTERNS		
ITEM NO:	DESCRIPTION	SPECIFICATION
1.1	300MM TRAFFIC SIGNAL LANTERNS_EMPTY Size (300mm+/- 10mm) Nylon lanterns.	TRAFFIC SIGNAL LANTERNS Must comply with SANS 1459:2004 2 Way 6.3mm Dual REL.LOC FEMALE SOC Molex (or equivalent) connector must be pre-installed for each aspect Must be corrosion resistant and ALL metal parts (Screws, nuts, bolts, connector blocks etc.) must be stainless steel grade A4.No visible light is allowed to pass anywhere between the lantern and background screen interface.
1.1.1	5 - Aspect Nylon Right Turn	Empty but Equipped to install LED aspects. Must be supplied fully assembled with joining plate and Z bracket. Backing board is excluded. Drawing TRL1
1.1.2	5 - Aspect Nylon Left Turn Traffic Signal Lantern	Empty but Equipped to install LED aspects. Must be supplied fully assembled with joining plate and Z bracket. Backing board is excluded. Drawing TRL1
1.1.3	3 - Aspect Nylon Traffic Lantern	Empty but Equipped to install LED aspects. Backing board is excluded. Drawing TRL1
1.1.4	2 - Aspect Nylon Traffic/Arrow/Pedestrian Lantern	Empty but Equipped to install LED aspects. Backing board is excluded. Drawing TRL1
1.1.5	3 - Aspect Nylon Combi-Head	Empty but Equipped to install LED aspects. Backing board is excluded. Drawing TRL1
1.2	300MM TRAFFIC SIGNAL LANTERNS_COMPLETE	Size (300mm+/- 10mm) Nylon lanterns. LED aspects to comply with CCT item spec as per item 1.7 All LED aspects must be or have;2 Way 6.3mm Dual REL.LOC MALE PLUG Molex (or equivalent) connector 220VAC;With clear lenses; Compatible with CCT Traffic Signal Controllers
1.2.1	5 - Aspect Nylon Right Turn Traffic Lantern	Complete with Red LED aspect, Yellow LED aspect, Green LED aspect, Yellow Arrow LED aspect and Green Arrow LED arrow aspect. Must be supplied fully assembled with joining plate and Z bracket. Backing board is excluded.
1.2.2	5 - Aspect Nylon Left Turn Traffic Lantern	Complete with Red LED aspect, Yellow LED aspect, Green LED aspect, Yellow Arrow LED aspect and Green Arrow LED arrow aspect. Must be supplied fully assembled with joining plate and Z bracket. Backing board is excluded.
1.2.3	3 - Aspect Nylon Traffic Lantern	Complete with Red LED aspect, Yellow LED aspect and Green LED aspect. Backing board is excluded.
1.2.4	2 – Aspect Nylon Bus Traffic Lantern	Complete with Yellow Bus LED aspect and Green Bus LED aspect. Backing board is excluded.
1.2.5	3 - Aspect Nylon Bus Traffic Lantern	Complete with Red Bus LED aspect, the Yellow Bus LED aspect and the Green Bus LED aspect. Backing board is excluded.
1.2.6	3 - Aspect Nylon Combi-Head Traffic Lantern	300mm Red LED aspect, 210mm Yellow LED aspect and 210mm Green LED aspect. Backing board is excluded.

1.2.7	3 - Aspect IRT Bus Traffic Lantern	Lantern with special dot Symbol – COMPLETE
1.2.8	2 - Aspect IRT Bus Traffic Lantern	Lantern with special dot Symbol
1.2.9	1- Aspect IRT Bus Traffic Lantern	Lantern with special dot Symbol – COMPLETE
1.3	GLASS FIBRE BACKGROUND SCREENS FOR 300MM TRAFFIC SIGNAL LANTERNS	Shall conform to SANS 1459:2004 or as amended in CCT Specification for Traffic Signals; All screens must be of the rounded type as used in the CCT. The raised (by minimum 7mm) 50mm white border to be retro-reflective and pigmented as integral part of background screen. The background of the screen to be pigmented; All material for screen to be glass fibre with at least 2 layers of 3000/M2 chopped strand saturated with SANS approved polyester resin with a ratio of 3:1 max and 2.5:1 min. The back of the backing board should be painted with black flow coat to cover all exposed fibres. The entire backboard shall be free of voids, blisters or cracks; No visible light is allowed to pass anywhere between the lantern and background screen interface.
1.3.1	5 Aspect Glass fibre screen	For lantern tendered item 1.1.1 - 5 Aspect Right turn 300mm nylon lantern
1.3.2	5 Aspect Left Turn Glass fibre screen	For lantern tendered item 1.1.2 - 5 Aspect Left Turn 300mm nylon lantern
1.3.3	3 Aspect Glass fibre screen	For lantern tendered item 1.1.3 - 3 Aspect 300mm nylon traffic lantern
1.3.4	3 Aspect Glass fibre screen for Combi head	For lantern tendered item 1.1.5 - 3 Aspect 300mm nylon traffic Combi-Head lantern.
1.3.5	2 Aspect Glass fibre screen	For lanterns tendered item 1.1.4 - 2 Aspect 300mm nylon lantern
1.4	210MM TRAFFIC SIGNAL LANTERNS_EMPTY Size (210mm+/- 10mm) Nylon lanterns	
1.4.1.	5 - Aspect Nylon Right Turn Traffic Signal Lantern	EMPTY, equipped to install LED aspects. Must be supplied fully assembled with joining plate and Z bracket Backing board is excluded. Drawing TRL1
1.4.2	5 - Aspect Nylon Left Turn Traffic Signal Lantern –	EMPTY, equipped to install LED aspects. Must be supplied fully assembled with joining plate and Z bracket. Backing board is excluded. Drawing TRL1
1.4.3	3 - Aspect Nylon Traffic Lantern -	EMPTY - Equipped to install LED aspects. Backing board is excluded. Drawing TRL1
1.4.4	2 - Aspect Nylon Traffic/Arrow/Pedestrian/ Bicycle Lantern	EMPTY - Equipped to install LED aspects. Backing board is excluded. Drawing TRL1
1.4.5	4 - Aspect Nylon Traffic Lantern	EMPTY - Equipped to install LED aspects. Backing board is excluded. Drawing TRL1
1.5	210MM TRAFFIC SIGNAL LANTERNS COMPLETE Size (210mm+/- 10mm) Nylon lanterns	All LED aspects must be or have; 2 Way 6.3mm Dual REL.LOC MALE PLUG Molex (or equivalent) connector 220VAC; With clear lenses. Must be able to house all CCT approved LED Inserts Compatible with CCT Traffic Signal Controllers. LED aspects to comply with CCT LED aspect specifications (See Item 1.7) Drawing TRL1

1.5.1	5 - Aspect Nylon Right Turn Traffic Signal Lantern	COMPLETE with Red LED aspect, Yellow LED aspect, Green LED aspect, Yellow Arrow LED aspect and Green Arrow LED arrow aspect. Must be supplied fully assembled with joining plate and Z bracket. Backing board is excluded. Drawing TRL1
1.5.2	5 - Aspect Nylon Left Turn Lantern	COMPLETE with Red LED aspect, Yellow LED aspect, Green LED aspect, Yellow Arrow LED aspect and Green Arrow LED arrow aspect Must be supplied fully assembled with joining plate and Z bracket. Backing board is excluded. Drawing TRL1
1.5.3	3 - Aspect Nylon Traffic Lantern	COMPLETE with Red LED aspect, Yellow LED aspect and Green LED aspect. Backing board is excluded. Drawing TRL1
1.5.4	3 - Aspect IRT Bus Traffic Lantern	With special dot Symbol – COMPLETE Drawing TRL1
1.5.5	2 - Aspect IRT Bus Traffic Lantern	With special dot Symbol – COMPLETE Drawing TRL1
1.5.6	1- Aspect IRT Bus Traffic Lantern	With special dot Symbol – COMPLETE and add Reinforced on all bus signals Drawing TRL1
1.5.7	2 – Aspect Nylon Pedestrian Lantern	COMPLETE - with Red Pedestrian LED aspect and Green Pedestrian LED aspect. Backing board is excluded. Drawing TRL1
1.5.8	2 – Aspect Nylon Bicycle Lantern	COMPLETE - with Red Bicycle LED aspect and Green Bicycle LED aspect. Backing board is excluded. Drawing TRL1
1.5.9	2 – Aspect Nylon Arrow Lantern	COMPLETE - with Amber Arrow LED aspect and Green Arrow LED aspect. Backing board is excluded. Drawing TRL1
1.5.10	4 - Aspect Nylon Traffic Lantern	Complete - with Red LED aspect, Yellow LED aspect, Green Arrow LED aspect and Green Arrow LED arrow aspect. Backing board is excluded. Drawing TRL1
1.6	Glass fibre background screens for 210mm and 300mm lanterns:	Shall conform to SANS 1459:2004 or as amended in CCT Specification for Traffic Signals; All screens must be of the rounded type as used in the CCT; Note that the raised (by minimum 7mm) 50mm white border to be retro-reflective and pigmented as integral part of background screen. The background of the screen to be pigmented; All material for screen to be glass fibre with at least 2 layers of 3000/M2 chopped strand saturated with SANS approved polyester resin with a ratio of 3:1 max and 2.5:1 min. The back of the backing board should be painted with black flow coat to cover all exposed fibres. The entire backboard shall be free of voids, blisters or cracks. No visible light is allowed to pass anywhere between the lantern and background screen interface.
1.6.1	5 Aspect Right turn Glass fibre screen	For 210mm 5 Aspect right turn nylon traffic signal lantern. Must comply with spec in Item 1.6 Drawing TSLBB
1.6.2	5 Aspect Left turn Glass fibre screen	For 210mm 5 aspect left turn nylon traffic signal lantern. Must comply with spec in Item 1.6 Drawing TSLBB
1.6.3	4 Aspect Glass fibre screen	For 210mm 4 aspect nylon lantern traffic signal lantern; Must comply with spec in Item 1.6 Drawing TSLBB
1.6.4	3 Aspect Glass fibre screen	For 210mm 3 aspect nylon traffic signal lantern; Must comply with spec in Item 1.6 Drawing TSLBB
1.6.5	2 Aspect Glass fibre screen	For 210mm 2 aspect nylon traffic signal lanterns; Must comply with spec in Item 1.6 Drawing TSLBB

1.6.6	3 Aspect Glass fibre screen	For 210mm 3 aspect nylon traffic signal IRT lantern with special dot symbol; Must comply with spec in Item 1.6 Drawing IRTD
1.6.7	2 Aspect Glass fibre screen	For 210mm 2 aspect nylon traffic signal IRT lantern with special dot symbol; Must comply with spec in Item 1.6 Drawing IRTD
1.6.8	1 Aspect Glass fibre screen	For 210mm 1 aspect nylon traffic signal IRT lantern with special dot symbol; Must comply with spec in Item 1.6 Drawing IRTD
1.6.9	3 Aspect Glass fibre screen	For 300 mm 3 aspect nylon traffic signal IRT lantern with special dot symbol. Must comply with spec in Item 1.6 Drawing IRTD
1.6.10	2 Aspect Glass fibre screen	For 300 mm 2 aspect lanterns tendered above 2 Aspect 300mm IRT lantern with special dot symbol. Must comply with spec in Item 1.6 Drawing IRTD
1.6.11	1 Aspect Glass fibre screen	For 300mm 1 aspect lanterns tendered above 1 Aspect 300mm IRT lantern with special dot symbol. Must comply with spec in Item 1.6 Drawing IRTD
1.7	LED TRAFFIC SIGNAL MODULES	All units shall conform to the following performance specification Vehicle Traffic Control Signal Heads (VTCSH) Light Emitting Diode (LED) Circular Signal, where 120 Volt is specified it shall be 240 VAC and where 60Hz is specified it shall be 50Hz; The units must also conform to SANS 1459:2004; Inters working with traffic signal controllers must be able to function correctly with only LED's connected. Units must be able to be fitted into a 300mm or 201mm nylon lantern housings without any modifications required. All units must have a 2 Way 6.3mm Dual REL.LOC MALE PLUG Molex (or equivalent) connector. Units must have a minimum of a 5-year replacement/exchange guarantee. All units must be date stamped on back of unit with date of manufacture. All units must be marked with a unique serial number. All units must have Clear lenses.
1.7.1	300mm Red Traffic	Must comply with spec in Item 1.7
1.7.2	300mm Yellow Traffic	Must comply with spec in Item 1.7
1.7.3	300mm Green Traffic	Must comply with spec in Item 1.7
1.7.4	300mm Yellow Arrow	Must comply with spec in Item 1.7
1.7.5	300mm Green Arrow	Must comply with spec in Item 1.7
1.7.6	300mm BUS Red Traffic	Must comply with spec in Item 1.7
1.7.7	300mm BUS Yellow Traffic	Must comply with spec in Item 1.7
1.7.8	300mm BUS Green Traffic	Must comply with spec in Item 1.7
1.7.9	300mm Red Countdown Timer	Must comply with spec in Item 1.7

1.7.10	300mm Green Countdown Timer	Must comply with spec in Item 1.7
1.7.11	300mm Traffic Lantern Hood	Must comply with spec in Item 1.7
1.7.12	300mm Futurit or equivalent LED module bus mask	Must comply with spec in Item 1.7
1.8	210MM LED TRAFFIC SIGNAL MODULES	
1.8.1	210mm Red Traffic	Must comply with spec in Item 1.7
1.8.2	210mm Yellow Traffic	Must comply with spec in Item 1.7
1.8.3	210mm Green Traffic	Must comply with spec in Item 1.7
1.8.4	210mm Yellow Arrow	Must comply with spec in Item 1.7
1.8.5	210mm Green Arrow	Must comply with spec in Item 1.7
1.8.6	210mm BUS Red Traffic	Must comply with spec in Item 1.7
1.8.7	210mm BUS Yellow Traffic	Must comply with spec in Item 1.7
1.8.8	210mm BUS Green Traffic	Must comply with spec in Item 1.7
1.8.9	210mm Red Countdown Timer	Must comply with spec in Item 1.7
1.8.10	210mm Green Countdown Timer	Must comply with spec in Item 1.7
1.8.11	210mm Red Pedestrian	Must comply with spec in Item 1.7
1.8.12	210mm Green Pedestrian	Must comply with spec in Item 1.7
1.8.13	210mm Red Bicycle	Must comply with spec in Item 1.7
1.8.14	210mm LED Pedestrian Mask Futurit or equivalent	Must comply with spec in Item 1.7
1.8.15	210mm LED Arrow Mask Futurit or equivalent	Must comply with spec in Item 1.7
1.8.16	210mm LED Bicycle Mask Futurit or equivalent	Must comply with spec in Item 1.7
1.8.17	210mm Traffic Lantern Hood	Must comply with spec in Item 1.7
1.9	LANE LIGHTS	
1.9.1	Lane Light Upper RED	Aluminium casing, Waterproof, Vandal proof, Solar powered

1.9.2	Lane Light Lower RED	Aluminium casing, Waterproof, Vandal proof, Solar powered
SECTION 2 – TRAFFIC SIGNAL LANTERNS FOR ST SIGNS		
2.1	TRAFFIC SIGNAL LANTERNS FOR ST SIGNS	Must comply with SANS 1459:2004 Size (210mm+/- 10mm) Nylon lanterns. 2 Way 6.3mm Dual REL.LOC FEMALE SOC Molex (or equivalent) connector must be pre-installed for each aspect. Must be corrosion resistant and ALL metal parts (Screws, nuts, bolts, connector blocks etc.) must be stainless steel grade A4. No visible light is allowed to pass anywhere between the lantern and background screen interface. COMPLETE 210MM TRAFFIC SIGNAL LANTERN WITH INCORPORATED ST SIGN: All LED aspects must be or have; 2 Way 6.3mm Dual REL.LOC MALE PLUG Molex (or equivalent) connector: 220VAC, With clear lenses, Compatible with Traffic Signal Controllers
2.1.1	3 - Aspect Nylon Traffic signal Housing with Incorporated ST-Sign	Complete with Red LED aspect, Yellow LED aspect and Green LED aspect. Backing board is excluded. Drawing TRL1
2.1.2	Glass fibre background screens for Traffic signal lantern with Incorporated ST-Sign as in item 2.1.1	The directional background screen is a standard background screen for an S1 signal with the ST traffic signal arrow sign incorporated into the screen. The background screens shall be 500 mm wide with a full radius on the bottom and 35 mm corner radii on top. All screens must be of the rounded type as used in the CCT. Note that the raised (by minimum 7mm) 50mm white Drawing TRL1
SECTION 3 – UNINTERRUPTED POWER SUPPLIES (UPS) AND CABINETS		
3.1	UPS CABINETS	UNINTERRUPTABLE POWER SUPPLYS (UPS) AND CABINETS
3.1.1	100% Vandal proof Galvanised Steel Cabinet and Base – Magnetic lock	Secure 3mm thickness Galvanised Steel Cabinet and Base - Outer dimensions +/- (L) 903 x (H) 652 x (W) 603. To house UPS and 6 x (100 AH) and 6 x (105 AH) batteries equivalent to current cabinets used. Must be 100% vandal proof and fitted with rubber protection at bottom of Cabinet(IP55). Must have extra inside cover plate secured with unique bolts. Locking mechanism must be unique and existing key must not fit new boxes. 2 additional Locking housings must be added to side of the Lid so that two Round type SS lock can be fitted in addition to original locking mechanism. Must include Single row din rail mount 6 breaker size DB box (pre-wired to connect 6 x batteries and inverter); 20A6KA 240Vac Single pole breaker Hager or equivalent; 16A6KA 240Vac Double pole C-curve Hager or equivalent; Mains Filter; Lightning protection; Din Rail mount 35mm Terminal block for neutral wiring; 2x 220VAC Fans plus peripherals with appropriate temperature sensor and wiring kit. Siren installed with an Alarm connected to a switch so siren goes off once lid is opened. Alarm must be switch off by Key switch on inside of box. Lid must be locked by Magnetic locks that can be switch off from the Traffic Controller. Drawing UPSVPB Alarm must report to traffic Control Remote management System(JSENT system). Must be powered from the UPS.

3.1.2	100% Vandal proof Galvanised Steel Cabinet and Base - Electronic Lock	Secure 3mm thickness Galvanised Steel Cabinet and Base - Outer dimensions +/- (L) 903 x (H) 652 x (W) 603. To house UPS and 6 x (100 AH) and 6 X (105 AH) batteries equivalent to current cabinets used. Must be 100% vandal proof and fitted with rubber protection at bottom of Cabinet(IP55). Must have extra inside cover plate secured with unique bolts. Locking mechanism must be unique and existing key must not fit new boxes. 2 additional Locking housings must be added to side of the Lid so that two Round type SS lock can be fitted in addition to original locking mechanism. Must include Single row din rail mount 6 breaker size DB box (pre-wired to connect 6 x batteries and inverter); 20A6KA 240Vac Single pole breaker Hager or equivalent; 16A6KA 240Vac Double pole C-curve Hager or equivalent; Mains Filter; Lightning protection; Din Rail mount 35mm Terminal block for neutral wiring; 2x 220VAC Fans plus peripherals with appropriate temperature sensor and wiring kit. Siren installed power factor with an Alarm connected to a switch so siren goes off once lid is opened. Alarm must be switch off by Key switch on inside of box. Lid must be locked by self powering Electronic door lock for that includes auditing trail including sensing. Drawing UPSVPB Alarm must report to traffic Control Remote management System(JSENT system). Must be powered from the UPS.
3.1.3	UPS Cabinet door – Magnetic	Door including hinges for item 3.1.1. Lid must be locked by Magnetic locks that can be switch off from the Traffic Controller. Drawing UPSVPB
3.1.4	UPS Cabinet door – Electronic	Door including hinges for item 3.1.1. Lid must be locked by Electronic door lock for that includes auditing trail including sensing. Drawing UPSVPB
3.1.5	UPS Cabinet distribution board	8 way surface mount distribution board with surge arrestors, 2x 160A DC circuit breakers

3.2 UPS MODULES AND SPARES

Must be microprocessor controlled. Must be able to communicate with CCT traffic controller.
 Must be solar compatible. Must have external battery socket for extended battery backup time.
 Must have a cold start function. Must have short circuit protection. Must have a LCD display.
 Must deliver pure sine wave output. Input power factor must be more than 95%.
 Must be able to withstand 400V continuous mains input.
 Must be able to withstand maximum temperature of 65°C. Line interactive –Transfer time setting
 of 5ms or less. Must Start-up Automatically

Prerequisites

The UPS shall connect either directly to the CCT RMS JSENT system or via the traffic controller.
 The UPS shall report the following: Input Voltage; Output Voltage; Battery Voltage; Load percent;
 temperature; UPS Mode(Shutdown Active; UPS on Standby; Boost/Buck; Test in progress);
 Battery status.

Electrical:

Peak Voltage Amperes (VA): 3000 with computer type load minimum continuous power Watts
 (W): 1000

Input:

AC input voltage : 230 V single phase
 AC input voltage window : 190 - 250 VAC, nominal mains (battery mode outside of
 nominal mains)
 Battery backup mode : below 190VAC
 Battery backup mode : above 250VAC
 Minimum start-up AC voltage : 184V (at any load)
 Input frequency : 50 Hz
 Input frequency range : nominal \pm 5 Hz
 Typical no-load power consumed : <10 W
 Max. AC input current (A) : 6.0
 AC input fuse / Breaker (A) : 10
 Solar panel input :
 Sockets : IEC type C14 socket

Output:

AC output voltage : 230 V nominal
 AC output voltage tolerance : 190 - 250 VAC V (230V \pm 2% when operating on battery)
 Output frequency : 50 Hz
 Output frequency stability : < \pm 0.1 Hz (battery operation)
 Output waveform : pure sine wave
 Crest factor handling : up to 6:1
 Power factor : > 0.9
 Transfer time : < 5 ms.
 Sockets : IEC type C13 socket
 Total harmonic distortion : < 3%
 UPS Efficiency: (with the battery fully charged)
 On mains : typical 98%
 On battery : typical 94%

Dimensions:

Length x Width x Height : 540mm x 180mm x 220mm

Environment:

Inverter operating temperature : -20 to 60°C
 Battery charging temperature : -20 to 60°C
 Temperature Compensation : 2.5 - 4.0 mV per °C per cell
 Audible noise at 1 meter: less than 35 dB(A) (virtually inaudible)

<p>Max. relative humidity : 95% (non-condensing)</p> <p>Backup Runtimes: (ratings given for 25°C) 10 Hours at 550W</p> <p>Batteries: Nominal voltage (V) : 36 Batteries (number x Ah) : 6 x 100 Type : AGM maintenance free or Deep Cycle Lead Acid Service life : up to 12 years(equipment must be date stamped) (depending on operating conditions) Average battery recharge current : 12 A (from 30% to full)</p> <p>Communications: 1 x RS232 isolated interface Open communications protocol</p> <p>Logging and Reporting: Mains Event Logging, recording and reporting Power, current and voltage recording facilities Mains failure logging and reporting Battery failure logging and reporting UPS Bypassed via remote switch</p> <p>Display: Parameters should be visible via display</p>		
3.2.1	Wiring Assembly	Must Fit into the UPS Cabinet, capable of connecting 3 x 105Ahr Batteries to a 2KVA / 3KVA UPS Unit must be minimum 16mm braided wire. 20A6KA 240Vac Single pole breaker Hager or equivalent; 16A6KA 240Vac Double pole C-curve Hager or equivalent; Mains Filter; Lightning protection; Din Rail mount 35mm Terminal block for neutral wiring; 2x 220VAC Fans plus peripherals with appropriate temperature sensor and wiring kit(There is a wiring diagram from the UPS unit manufacturer)
3.2.2	1kVA long run UPS electronic module	Must be compatible with JSENT RMS or equivalent monitoring system
3.2.3	2kVA UPS Electronic Module	Must be compatible with JSENT RMS or equivalent monitoring system
3.2.4	3kVA UPS Electronic Module	Must be compatible with JSENT RMS or equivalent monitoring system
3.2.5	UPS Cable For Traffic Signal Controller	Assembly for RMS connectivity, monitoring and reporting via an Controller to CCT ATC system, electrically isolated interface, cable must be 10m in length(must be pre fitted with connectors)
3.2.6	UPS wireless communication Transceiver module	RS232 wireless communication unit for communication between UPS and Traffic Controller

3.3	UPS MODULES, BATTERIES	Must have a cold start function. Must have an auto self-testing system while turning on the UPS. Must have a maintenance bypass switch. Must deliver pure sine wave output. Input power factor must be more than 95%.
3.3.1	UPS Battery	105AH 12VDC Deep Cycle low maintenance
3.3.2	UPS Battery	100AH 12VDC Deep Cycle low maintenance - GEL battery
3.3.3	UPS Battery	100AH 12VDC Deep Cycle low maintenance - AGM battery
3.4	UPS Spares	
3.4.1	20Amp Automatic Change over Switch	Item must be Din Rail Mount
3.4.2	40Amp Automatic Change over Switch	Item must be Din Rail Mount
3.4.3	20Amp Change over Switch	Item must be Din Rail Mount
3.4.4	40Amp Change over Switch	Item must be Din Rail Mount
3.4.5	16mm Stranded battery cable (Red)	Insulation of cable must be Red
3.4.6	16mm Stranded battery cable (Black)	Insulation of cable must be Black
3.4.7	25mm Stranded battery cable (Red)	Insulation of Cable must be Red
3.4.8	25mm Stranded battery cable (Black)	Insulation of cable must be Black

SECTION 4- ENERGY STORAGE MODULES, INVERTERS AND SOLAR EQUIPMENT

4.1	ENERGY STORAGE MODULES	
4.1.1	1000Wh Energy Storage Module (Super capacitor based battery)	<p>Nominal Voltage: 36VDC Capacity: 1000Wh Maximum Discharge Rate (100% - 0% SOC): 100A Maximum Charging Voltage: Adjustable 44VDC Operating Temperature: -30°C to 85°C Galvanic Isolation: 1500V Projected Cycle Life3: 1,000,000 Warranty: 10 years minimum Communication: Monitoring Server and/or Traffic Controller Monitoring Data: Temperature, Voltage, Current, Energy, Supercap Balancing Terminal Type: M8 Dimensions: Must fit into current CCT UPS enclosure Self-discharge4: 5% after 25 days maximum Monitoring Software: Individual Cell: Monitoring of voltage Monitoring of voltage</p>
4.1.2	3000Wh Energy Storage Module (Super capacitor based battery)	<p>Nominal Voltage: 36VDC Capacity: 3000Wh Maximum Discharge Rate (100% - 0% SOC): 100A Maximum Charging Voltage: Adjustable 44VDC Operating Temperature: -30°C to 85°C Galvanic Isolation: 1500V Projected Cycle Life3: 1,000,000 Warranty: 10 years minimum Communication: Monitoring Server and/or Traffic Controller Monitoring Data: Temperature, Voltage, Current, Energy, Supercap Balancing Terminal Type: M8 Dimensions: Must fit into current CCT UPS enclosure Self-discharge4: 5% after 25 days maximum Monitoring Software: Individual Cell: Monitoring of voltage Monitoring of voltage</p>
4.1.3	3500Wh Energy Storage Module (Super capacitor based battery)	<p>Nominal Voltage: 36VDC Capacity: 3500Wh Maximum Discharge Rate (100% - 0% SOC): 100A Maximum Charging Voltage: Adjustable 44VDC Operating Temperature: -30°C to 85°C Galvanic Isolation: 1500V Projected Cycle Life3: 1,000,000 Warranty: 10 years minimum Communication: Monitoring Server and/or Traffic Controller Monitoring Data: Temperature, Voltage, Current, Energy, Supercap Balancing Terminal Type: M8 Dimensions: Must fit into current CCT UPS enclosure Self-discharge4: 5% after 25 days maximum Monitoring Software: Individual Cell: Monitoring of voltage Monitoring of voltage</p>

4.1.4	5000Wh Energy Storage Module (Super capacitor based battery)	<p>Nominal Voltage: 36VDC Capacity: 5000Wh Maximum Discharge Rate (100% - 0% SOC): 100A Maximum Charging Voltage: Adjustable 44VDC Operating Temperature: -30°C to 85°C Galvanic Isolation: 1500V Projected Cycle Life: 1,000,000 Warranty: 10 years minimum Communication: Monitoring Server and/or Traffic Controller Monitoring Data: Temperature, Voltage, Current, Energy, Supercap Balancing Terminal Type: M8 Dimensions: Must fit into current CCT UPS enclosure Self-discharge: 5% after 25 days maximum Monitoring Software: Individual Cell: Monitoring of voltage Monitoring of voltage</p>
4.1.5	1000Wh / 36V UPS	<p>1 Year Warranty AC input voltage : 230 V single phase AC input voltage window : 220 - 250 VAC, nominal mains (battery mode outside of nominal mains) Must have surge protection Must be able to withstand constant 400Vac Must have battery protection reverse polarity Must be SANS approved Standby with transfer time of less than 5ms Minimum start-up AC voltage : +/- 184V (at any load) Input frequency : 50 Hz Input frequency range : nominal \pm 5 Hz AC input fuse / Breaker (A) Sockets : IEC type C14 socket AC output voltage: 230 V nominal AC output voltage tolerance : 220 - 250 VAC V (230V \pm 5% when operating on battery) Output frequency : 50 Hz Output frequency stability : $< \pm$ 0.1 Hz (battery operation) Output waveform : pure sine wave Power factor : 1 Sockets : IEC type C13 socket Inverter operating temperature : -20 to 60°C Battery charging temperature : -20 to 60°C Nominal voltage (V) : 36 Batteries (Ah) : 100 minimum Must be able to communicate with existing CCT Traffic Controllers Must be compatible with all battery types (eg. Lithium ion, Super Capacitor, Deep Cycle, AGM) Must have Display</p>

4.1.6	3500Wh / 36V UPS	<p>1 Year Warranty</p> <p>AC input voltage : 230 V single phase</p> <p>AC input voltage window : 220 - 250 VAC, nominal mains (battery mode outside of nominal mains)</p> <p>Must have surge protection</p> <p>Must be able to withstand constant 400Vac</p> <p>Must have battery protection reverse polarity</p> <p>Must be SANS approved</p> <p>Standby with transfer time of less than 5ms</p> <p>Minimum start-up AC voltage : +/- 184V (at any load)</p> <p>Input frequency : 50 Hz</p> <p>Input frequency range : nominal \pm 5 Hz</p> <p>AC input fuse / Breaker (A)</p> <p>Sockets : IEC type C14 socket</p> <p>AC output voltage: 230 V nominal</p> <p>AC output voltage tolerance : 220 - 250 VAC V (230V \pm 5% when operating on battery)</p> <p>Output frequency : 50 Hz</p> <p>Output frequency stability : $< \pm 0.1$ Hz (battery operation)</p> <p>Output waveform : pure sine wave</p> <p>Power factor : 1</p> <p>Sockets : IEC type C13 socket</p> <p>Inverter operating temperature : -20 to 60°C</p> <p>Battery charging temperature : -20 to 60°C</p> <p>Nominal voltage (V) : 36</p> <p>Batteries (Ah) : 100 minimum</p> <p>Must be able to communicate with existing CCT Traffic Controllers</p> <p>Must have a Display</p> <p>Must be compatible with all battery types (eg. Lithium ion, Super Capacitor, Deep Cycle, AGM)</p>
4.1.7	2.75KWh / 24V Energy storage module (Lithium Ion based Battery)	<p>Nominal Voltage 24VDC</p> <p>Nominal Capacity 100Ah</p> <p>Wattage +/- 2750 Wh</p> <p>Warranty 10 years</p> <p>Adjustable Charge volt 27.8V</p> <p>Constant Charge Current Adjustable</p> <p>Maximum Charge Current +/- 150A</p> <p>Max Continuous Current +/- 100A</p> <p>Charge Temperature 0°C to 45°C as a minimum</p> <p>Discharge Temperature -20°C to 60°C</p> <p>Cell Material LiFePo4</p> <p>Must fit into current CCT UPS enclosure</p> <p>Connection Terminals M8</p> <p>Disconnect Breaker</p> <p>LCD Display Optional</p> <p>Communication to Server and/or Traffic Controller and/or InverterTracker included</p>

4.1.8	3.6KWh / 36V Energy storage module (Lithium Ion based Battery)	<p>Nominal Voltage 36VDC Nominal Capacity 100Ah Wattage +/- 3840Wh Warranty 10 years Adjustable Charge volt 39.8V Constant Charge Current Adjustable Maximum Charge Current +/- 150A Max Continuous Current +/- 100A Charge Temperature 0°C to 45°C as a minimum Discharge Temperature -20°C to 60°C Cell Material LiFePo4 Must fit into current CCT UPS enclosure Connection Terminals M8 Disconnect Breaker LCD Display Optional Communication to Server and/or Traffic Controller and/or InverterTracker included</p>
4.1.9	3800Wh 36V Energy storage module (Lithium Ion based Battery)	<p>Nominal Voltage 36VDC Nominal Capacity 100Ah Wattage +/- 3840Wh Warranty 10 years Adjustable Charge volt 39.8V Constant Charge Current Adjustable Maximum Charge Current +/- 150A Max Continuous Current +/- 100A Charge Temperature 0°C to 45°C as a minimum Discharge Temperature -20°C to 60°C Cell Material LiFePo4 Must fit into current CCT UPS enclosure Connection Terminals M8 Disconnect Breaker LCD Display Optional Communication to Server and/or Traffic Controller and/or InverterTracker included</p>
4.1.10	5.0 KWh / 48V Energy storage module (Lithium Ion based Battery)	<p>Nominal Voltage 48VDC Nominal Capacity 100Ah Wattage +/- 5 000Wh Warranty 10 years Adjustable Charge volt 48.8V Constant Charge Current Adjustable Maximum Charge Current +/- 150A Max Continuous Current +/- 100A Charge Temperature 0°C to 45°C as a minimum Discharge Temperature -20°C to 60°C Cell Material LiFePo4 Must fit into current CCT UPS enclosure Connection Terminals M8 Disconnect Breaker LCD Display Optional Communication to Server and/or Traffic Controller and/or Inverter Tracker included</p>

4.2	INVERTERS	
4.2.1	1.0 KVA Inverter (220VAC) 24 VDC	<p>1.0KVA INVERTER MUST BE CAPABLE OF CHARGING 1000Wh 24Vdc ENERGY STORAGE MODULE (Must include communication to Traffic Signal Controller and/or remote Server)</p> <p>Withstand maximum temp of 65°C Withstand 400V continuous mains input Must Start-up Automatically Must have LCD Display Must have short circuit protection</p> <p>Rated Power: 1000VA Input Voltage: 220/230/240 VAC Selectable Voltage Range: 170-280 VAC Frequency Range: 50Hz Output AC Voltage: 220/230/240VAC +/- 5% Surge Power: 1500VA Efficiency: 90%~93% Transfer time: 10 to 20 ms Waveform: Pure Sinewave Battery voltage: 12 VDC Floating Voltage: 13.5VDC Overcharge Protection: 16VDC</p>
4.2.2	1.5 KVA Inverter (220VAC) 36 VDC	<p>1.5KVA INVERTER MUST BE CAPABLE OF CHARGING 1500Wh 36Vdc ENERGY STORAGE MODULE (Must include communication to Traffic Signal Controller and/or remote Server)</p> <p>Withstand maximum temp of 65°C Withstand 400V continuous mains input Must Start-up Automatically Must have LCD Display Must have short circuit protection</p> <p>Rated Power: 1500VA Input Voltage: 220/230/240 VAC Selectable Voltage Range: 170-280 VAC Frequency Range: 50Hz Output AC Voltage: 220/230/240VAC +/- 5% Surge Power: 3000VA Efficiency: 90%~93% Transfer time: 10 to 20 ms Waveform: Pure Sinewave Battery voltage: 12 VDC Floating Voltage: 13.5VDC Overcharge Protection: 16VDC</p>

4.2.3	3.0 KVA Inverter (220VAC) 36 VDC	<p>3.0 KVA INVERTER MUST BE CAPABLE OF CHARGING 3000Wh 36Vdc ENERGY STORAGE MODULE (Must include communication to Traffic Signal Controller and/or remote Server)</p> <p>Withstand maximum temp of 65°C withstand 400V continuous mains input Must Start-up Automatically Must have LCD Display Must have short circuit protection</p> <p>Rated Power: 3 000VA Input Voltage: 220/230/240 VAC Selectable Voltage Range: 170-280 VAC Frequency Range: 50Hz Output AC Voltage: 220/230/240VAC +/- 5% Surge Power: 3 500VA Efficiency: 90%~93% or better Transfer time: 10 to 20 ms or better Waveform: Pure Sinewave Battery voltage: 12 VDC Floating Voltage: 13.5VDC Overcharge Protection: 16VDC</p>
4.2.4	3.0 KVA Inverter (220VAC) 48 VDC	<p>3.0KVA INVERTER MUST BE CAPABLE OF CHARGING 3000Wh 48Vdc ENERGY STORAGE MODULE (Must include communication to Traffic Signal Controller and/or remote Server)</p> <p>Withstand minimum temp of 65°C Withstand 400V continuous mains input Must Start-up Automatically Must have LCD Display Must have short circuit protection</p> <p>Rated Power: 3000VA Input Voltage: 220/230/240 VAC Selectable Voltage Range: 170-280 VAC Frequency Range: 50Hz Output AC Voltage: 220/230/240VAC +/- 5% Surge Power: 3500VA Efficiency: 90%~93% Transfer time: 10 to 20 ms Waveform: Pure Sinewave Battery voltage: 12 VDC Floating Voltage: 13.5VDC Overcharge Protection: 16VDC</p>

4.2.5	5.0 KVA Inverter (220VAC) 48V	<p>5.0 KVA INVERTER MUST BE CAPABLE OF CHARGING 5000Wh 48Vdc ENERGY STORAGE MODULE (Must include communication to Traffic Signal Controller and/or remote Server)</p> <p>Withstand maximum temp of 65°C Withstand 400V continuous mains input Must Start-up Automatically Must have LCD Display Must have short circuit protection</p> <p>Rated Power: 5 000 VA Input Voltage: 220/230/240 VAC Selectable Voltage Range: 170-280 VAC Frequency Range: 50Hz Output AC Voltage: 220/230/240VAC +/- 5% Surge Power: 5 500VA Efficiency: 90%~93% Transfer time: 10 to 20 ms Waveform: Pure Sinewave Battery voltage: 12 VDC Floating Voltage: 13.5VDC Overcharge Protection: 16VDC</p>
4.3	SOLAR EQUIPMENT	
4.3.1	MPPT Solar charge controller 36VDC	<p>Solar Charger Type: PWM Maximum PV Array Power: 600W Maximum PV Array Open circuit voltage: 50VDC Maximum Solar Charge Current: 50A Maximum AC Charge Current: 60A Maximum Charge Current: 110A Operating Temperature: -20°C to 55°C</p>
4.3.2	MPPT Solar charge controller 48VDC	<p>Solar Charger Type: PWM Maximum PV Array Power: 600W Maximum PV Array Open circuit voltage: 50VDC Maximum Solar Charge Current: 50A Maximum AC Charge Current: 60A Maximum Charge Current: 110A Operating Temperature: -20°C to 55°C</p>

4.3.3	Solar Panels poly-crystalline minimum 300w	<p>The power provided by the system is 300W. Main purpose to power ITS equipment</p> <p>Solar Panel + Pole Mounting</p> <p>Electrical:</p> <p>Solar Panel : 80 W</p> <p>Output power : 300W</p> <p>DC output voltage : 12V nominal</p> <p>Floating charge voltage : 13.8 V</p> <p>Protection:</p> <p>Overcharge Protection : Yes</p> <p>Low Voltage Disconnect : 11.5V</p> <p>Short circuit protection on output: Yes</p> <p>Dimensions:</p> <p>Enclosure : 400mm x 300mm(W) x 220(D)</p> <p>Solar panel : 780mm(L) x 670mm(W) x 30mm(H)</p> <p>Environment:</p> <p>System operating temperature : -20 to 60°C</p> <p>Max. Relative humidity : 95% (non-condensing)</p> <p>Backup Runtimes: (ratings given for 25°C)</p> <p>60 Hours at 7W per Hour</p> <p>48 Hours at 10W per Hour</p> <p>Batteries:</p> <p>Nominal voltage (V) : 12</p> <p>Batteries (number x Ah) : 1 x 40</p> <p>Type : AGM maintenance free</p> <p>Service life : up to 5 years (depending on operating conditions)</p> <p>Average battery recharge current : 6 A</p> <p>Recharge time to 100% : 5 Hours</p>
4.3.4	Solar wire silicon 4mm Red in colour	High conductivity tinned stranded, flexible copper conductors to SANS 1411 Part 1. Insulated with Silicone Rubber Type Rd7 to SABS 1574 Part 4, H05SS-F & HIS-F
4.3.5	Solar wire silicon 4mm Black in colour	High conductivity tinned stranded, flexible copper conductors to SANS 1411 Part 1. Insulated with Silicone Rubber Type Rd7 to SABS 1574 Part 4, H05SS-F & HIS-F
4.3.6	Solar wire silicon 6mm Red in colour	High conductivity tinned stranded, flexible copper conductors to SANS 1411 Part 1. Insulated with Silicone Rubber Type Rd7 to SABS 1574 Part 4, H05SS-F & HIS-F
4.3.7	Solar wire silicon 6mm Black in colour	High conductivity tinned stranded, flexible copper conductors to SANS 1411 Part 1. Insulated with Silicone Rubber Type Rd7 to SABS 1574 Part 4, H05SS-F & HIS-F
4.3.8	Solar structure to mount minimum 3 solar panels minimum height 5m	Solar structure to mount minimum 3 solar panels minimum height 5m

4.3.9	MC 4 connector pair	Rated Voltage: TIV 1000DC / UL 600V DC Rated Current: 20A-40A Test Voltage: 6Kv (50Hz, 1 Min) Contact material copper, Tin plated
4.3.10	300W Solar panels	Must be SABS Approved
4.3.11	500W Solar panels	Must be SABS Approved
4.3.12	Male MC4 Connectors	For Use on Solar installations
4.3.13	Female MC4 Connectors	For use on Solar installations

SECTION 5 – TRAFFIC SIGNAL CONTROLLERS

5.1

TRAFFIC SIGNAL CONTROLLER WITH STANDARD 3CR12 CABINETS:

TRAFFIC SIGNAL CONTROLLERS

Shall conform to SANS 1547:2005

Shall not have police manual panel.

Price should include base for casting plinth.

GSM Antenna must be pre-installed and sealed.

Controller must be able to function with only LED aspects fitted as the load

Pre-requisites

The traffic controller shall comply or exceed the specifications outlined in SANS 1547:2013 Traffic Signal Controllers. The Traffic Controller shall be trialled and approved by the CCT **prior** to the procurement of any units. The Traffic Controllers configuration tool shall be Windows based. The configurations produced shall be stored in a recognised database. Where the contractor supplies a Traffic Controller that the CCT does not possess the configuration tool for, the Contractor will then provide the Configuration tool along with the necessary training free of charge.

The Traffic Controller shall connect to the CCT TMS SCOOT System. The Traffic Controller shall connect to the CCT RMS JSENT system and comply with the below mentioned:

Real time monitoring

Data to be returned by the traffic controller on change or as configured.

Current stage, plan, mode and offset.

Detector failures

Controller status (Normal, Flashing, Manual Control, Lamps Off etc.)

Controller PSU output voltages alarms

Controller internal Temperature

Lamp failures

HHU port access alarm (when controller is accessed via laptop by user)

Power failure detect (GPRS controllers only)

Time Deviations alarm on time sync

Controller software versions

GSM MODEM firmware version (GPRS controllers only)

Vehicle Count, Speed and Occupancy information

Monitoring of Compatible UPS units (Bat/Volt and UPS Status) Traffic Control Facilities

Force Plan Change

Force Mode Change

Change Offset

Set the Real Time Clock

Set the Real Time Clock Day (mon, tue, etc)

Part time Flash enable

Revert to time table

Force a common demand to a stage

Hurry Call to a stage

Emergency Call to a stage

Set a Switched sign

Enable / disable Manual panel

Declare a Public Holiday

Set and Get Special condition Variables

Upload Event and Fault lists for viewing

GSM/GPRS stats – Data transfer signal strength (GSM controllers only)

Send a controller real time clock a synchronizing message at a scheduled time.

Remote Controller Data Configuration Loading

It should be possible to program the controller from the central computer using the Download Facility. The Download Facility can be used in one of two ways; The download of the complete configuration data that will cause the controller to be completely reconfigured. When this facility is used, the controller will change to the Flash Mode until a maintenance technician on site has reset it. The Download facility can be used to send only that non-critical data which is to be changed. In this instance, the controller will accept the changes while continuing to function normally.

Non Critical Configuration Changes

Fixed Time plan data:

- Change waypoint i.e. Stage durations
- Add Stage to Plan
- Remove Stage from Plan

Vehicle Actuated plan data:

- Change stage min's and max's
- Add Stage to Plan
- Remove Stage from Plan

Event Time Table data:

- Change event time
- Add a new event
- Delete an event

Special Days:

- Edit existing special days
- Add special day
- Remove Special day

Adding a new Plan is not allowed without a full reset for security and safety reasons. The user is thus advised to add a few "unused" plans which can then be modified as required should the need arise for a plan which needs' are not catered for by any of the existing plans in the configuration. For example, add:

Plan 41 = Unpopulated VA Plan

Plan 42 = Unpopulated Semi VA Plan

Plan 43 = Unpopulated Fixe Time Plan

These Plans can then be populated as required, and either added to the Event Timetable or run by sending an RMS command to invoke it.

Modes of Operation

Fixed Time, Semi Vehicle Actuated, full Vehicle Actuated, Manual, Operation (optional), part Time Flashing, Hurry Call, Emergency, Vehicle Call, Manual Flash Mode, fault Flash Mode and UTC and SCOOT

Number of available Plans

Configurable up to a minimum 50, based on time of day, day of week, selected week days, public holiday, special days to a resolution of 1 minute

Number of Streams

Configurable up to a minimum of 4 Streams available with ability to operate independently

Number of Stages

Configurable up to a minimum of 32 Stages including All Red

Phases

Configurable up to a minimum of 24 phases in either 2, 4, 6 or 8 phase increments

Time Graduation

Plans : Cycle time : 0-255 sec resolution 1 sec

Phases : Min Green : 0-255 sec resolution 1 sec

Yellow : 0-25.5 sec resolution 0.1 sec standard

Red : 0-25.5 sec resolution 0.1 sec
 Vehicle Detector : Extension Timer : 0-25.5 sec resolution 0.1 sec
 Gap Timer : 0-25.5 sec resolution 0.1 sec
 Call Delay : 0-25.5 sec resolution
 Cancel Delay : 0-25.5 sec resolution 0.1 sec
 Emergency Call : 0-255 sec resolution 1 sec
 Hurry call : 0-255 sec resolution 1 sec
 Manual Time-out : 0-60 minutes resolution 1 min
 Start-up Flash : 0-25.5 sec resolution 0.1 sec

Safety Monitoring

Green/Green conflict: Continuous monitoring on multiple levels, cable and system faults
 Aspect monitoring: Continuous monitoring of aspect conformance for all colours including lost neutrals
 Lamp monitoring: Current monitoring <3 W to 750 W Including last Red out faulting
 System faults: Supply monitoring, module errors, software integrity, and Conflict data integrity.
 Errors result in fail to flashing.
 Error and conflict conditions clearly displayed for review.

Electrical

Nominal Voltage: 230Vac 80% to 115%
 Voltage withstand: 150Vac to 400Vac
 Frequency: 50 Hz, range 48 Hz to 52 Hz
 Interruptions: > 50 ms
 Transients : 6 kV 1,2/50 microsecond

Environmental

Description Test Conditions Specifications

Equipment housing IP 55S SANS 60529
 MTBF IEC 60050-191 & EC 60300-3-4
 Cold -100C, 16 Hrs IEC 60068-2-1 Ab
 Dry Heat 550C, 16 Hrs IEC 60068-2-2 Bb
 Bump 1000 Bumps IEC 60068-2-27 Ea
 Vibration 5 – 33 Hz IEC 60068-2-64 Fc
 Solar radiation 10 days at 400C IEC 60068-2-5 Sa
 Salt Fog 1000 hours SANS 7253
 Humidity 400C, 95% 24Hrs
 Protective Coatings SABS 1274

Mounting

Several cabinet types should be available i.e pole or Plinth mount Cabinets constructed from Stainless steel or Aluminium powder coated material and IP55s or better rating with secure recessed door with multi point locking

5.1.1	4 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM,	Must comply with all requirements as specified in item 5.1
5.1.2	8 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM.	Must comply with all requirements as specified in item 5.1

5.1.3	10 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM	Must comply with all requirements as specified in item 5.4
5.1.4	12 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM,	Must comply with all requirements as specified in item 5.1
5.1.5	16 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM	Must comply with all requirements as specified in item 5.1
5.1.6	20 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM	Must comply with all requirements as specified in item 5.1
5.1.7	4 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Cuckoo kit back plate for Movac 4 cabinet mounting	Must comply with all requirements as specified in item 5.1
5.1.8	8 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Cuckoo kit back plate for Movac 4 cabinet mounting	Must comply with all requirements as specified in item 5.1
5.1.9	10 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Cuckoo kit back plate for Movac 4 cabinet mounting	Must comply with all requirements as specified in item 5.1
5.1.10	12 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Cuckoo kit back plate for Movac 4 cabinet mounting	Must comply with all requirements as specified in item 5.1
5.1.11	16 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Cuckoo kit back plate for Movac 4 cabinet mounting	Must comply with all requirements as specified in item 5.1
5.1.12	20 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Cuckoo kit back plate for Movac 4 cabinet mounting	Must comply with all requirements as specified in item 5.1

5.1.13	4 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Underground Chamber back plate	Must comply with all requirements as specified in item 5.1
5.1.14	8 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Underground Chamber back plate	Must comply with all requirements as specified in item 5.1
5.1.15	10 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Underground Chamber back plate	Must comply with all requirements as specified in item 5.1
5.1.16	12 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Underground Chamber back plate	Must comply with all requirements as specified in item 5.1
5.1.17	16 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Underground Chamber back plate	Must comply with all requirements as specified in item 5.1
5.1.18	20 Phase including Router Kit, 16 Channel Detector Interface & Pedestrian Interface Units with LCD SPM with Underground Chamber back plate	Must comply with all requirements as specified in item 5.1
5.1.19	4 Phase including Router Kit, 4 Channel Pedestrian Interface, 4TI Interface Units.	Must comply with all requirements as specified in item 5.1 include 4 Trafficam Interface units
5.1.20	8 Phase including Router Kit, 16 Channel Detector Interface, FLEX Control Kit, 4TI Interface & Pedestrian Interface Units with LCD SPM	Must comply with all requirements as specified in item 5.1
5.1.21	10 Phase including Router Kit, 4 Channel Pedestrian Interface, 4TI Interface Units.	Must comply with all requirements as specified in item 5.1
5.1.22	10 Phase including Router Kit, 16 Channel Detector Interface, FLEX Control Kit, 4TI Interface & Pedestrian Interface Units with LCD SPM	Must comply with all requirements as specified in item 5.1
5.1.23	12 Phase including Router Kit, 16 Channel Detector Interface, FLEX Control Kit, 4TI Interface & Pedestrian Interface Units with LCD SPM	Must comply with all requirements as specified in item 5.1

5.1.24	16 Phase including Router Kit, 16 Channel Detector Interface, FLEX Control Kit, 4TI Interface & Pedestrian Interface Units with LCD SPM	Must comply with all requirements as specified in item 5.1
5.1.25	20 Phase including Router Kit, 16 Channel Detector Interface, FLEX Control Kit, 4TI Interface & Pedestrian Interface Units with LCD SPM	Must comply with all requirements as specified in item 5.1
5.1.26	24 Phase including Router Kit, 16 Channel Detector Interface, FLEX Control Kit, 4TI Interface & Pedestrian Interface Units with LCD SPM	Must comply with all requirements as specified in item 5.1
5.1.27	12 Phase including Router Kit, 32 Channel Detector Interface, FLEX Control Kit, 4TI Interface & Pedestrian Interface Units with LCD SPM	Must comply with all requirements as specified in item 5.1
5.1.28	16 Phase including Router Kit, 32 Channel Detector Interface, FLEX Control Kit, 4TI Interface & Pedestrian Interface Units with LCD SPM	Must comply with all requirements as specified in item 5.1
5.1.29	20 Phase including Router Kit, 32 Channel Detector Interface, FLEX Control Kit, 4TI Interface & Pedestrian Interface Units with LCD SPM	Must comply with all requirements as specified in item 5.1
5.1.30	24 Phase including Router Kit, 32 Channel Detector Interface, FLEX Control Kit, 4TI Interface & Pedestrian Interface Units with LCD SPM	Must comply with all requirements as specified in item 5.1
5.1.31	Software license (Direct UTMC Compliant)	Must comply with all requirements as specified in item 5.1
5.1.32	Software A	New Traffic engine software for MX Traffic Controllers
5.1.33	Software B plus hardware	New Traffic engine software for local adaptive traffic Engine for MX Traffic Controllers

5.2	ROUTERS, ANTENNAS AND TRANSCEIVERS	
5.2.1	LTE Dual SIM Industrial Router	Open WRT Router with RS485, RS232, IO and GPS. Wireless gateway with 4 LAN ports including 1 WAN port and with 2xSIM card slots, equipped with an SMA female connector for external antenna.
5.2.2	3G/4G Vandal proof Antenna:	Including mounting nut, Dimensions 29 diameter by 61mm Height or smaller, approximate gain 2.5dBi, VSWR<2, 2m cable with SMA(m) connector, temperature -30 to +75 degrees C, Polarization Vertical, Suitable for outdoor use IP65 or higher
5.2.3	GPS External Antenna: GPS/GSM dual antenna	RF Protocol: 2G; Form: Puck; Frequency Bands: 850MHz, 900MHz, 1800Mhz, 1900MHZ;Mounting: Through hole/bolted; Connector: Male SMA with 2m lead; Gain: 0dBi; Internal Construction: Dipole
5.2.4	Wireless Modem:	Assembly for connectivity, monitoring and reporting via a Controller to CCT ATC system.
5.2.5	Omni Directional Antenna	Must be Wi-Fi, GPS, LTE compatible
5.2.6	GPS Upgrade Kit:	For existing traffic signal controllers to include GPS Modem with external GPS/GSM Dual Antenna
5.2.7	GPS Time Set Module for traffic signal controller	Must be compatible with Controller specified in item 5.1
5.2.8	Omni Directional Wi-Fi antenna:	Processor Atheros MIPS 24KC, 400MHz Memory-32MB SDRAM, 8MB Flash Networking-1 x 10/100 BASE-TX (Cat 5, RJ-45) Ethernet. Frequency range- 5GHz Throughput - 100+Mbps. POE Adapter Wireless Approval - FCC Part 15.247, IC RS210 CE. RoHS Compliant RF Connector: Integrated N-type Male Jack (connects directly to antenna) Enclosure size approximately 15.2mm x 3.7mm x 3.1mm (Length, width, height) Weight: ±0.2 kg IP65 rating or higher, UV stabilized plastic enclosure Power: up to24 volts. Passive power over Ethernet Max power consumption 6 watts Operating temp--40 to 80°C Operating humidity-5 to 95% Condensing. Outdoor range: Above 50 km.
5.2.9	WiFi Signal analyzer	Portable – Outdoor use Signal analyser for checking of WiFi interference at Magnetometer sites
5.2.10	LPDA Directional Antenna:	High Gain All-Band Cellular Antenna Frequency band 700 - 1000MHz and 1500-3000MHz, Approximate Gain 11dBi, VSWR<2.0:1 Input Impedance 50ohm IP65 rating or higher suitable for outdoor use Polarization Linear Include7m HDF195 with SMA(m) connector, +/- 50mm pole mounting bracket Operating temperature -20 to 70 degrees C Approximate dimensions 1100x180x60

5.2.11	All-Band Cellular Medium Gain Omnidirectional Antenna:	GSM 860MHz-960MHz, 1710 MHz-2170MHz, Gain 4.6 dBi in 800MHz band and 6.3dBi in the 1.8MHz band, VSWR <2.5:1 IP65 rating or higher suitable for outdoor use N-type female connector 10m cable N-type to SMA suitable for outdoor use Impedance 50ohm or equivalent Including 50mm pole mount bracket
5.2.12	Cellular Blade Antenna:	Approximate Gain 1.5dBi 2m RG58 cable with SMA(m) Magnetic Base VSWR < 2.5:1 IP65 rating suitable for outdoor use Input impedance 50ohm Polarization Linear Impedance 50ohm
5.2.13	Wireless Transceiver Controller Unit:	Wireless video detector interface module, for wireless connection of TrafiCam video detection equipment, controller mount only
5.2.14	Wireless Transceiver Pole Mount:	Wireless video detector interface module, for wireless connection of TrafiCam video detection equipment, IP65 pole mountable housing
5.2.15	Bluetooth 4 Low Energy tag	Integrated antenna, lithium battery, voltage monitoring, 100m range, 128 bit AES encryption, 3 * 3 axis inertial acceleration magnetic sensors.
5.2.16	Bluetooth 4 Low Energy Beacon	8Ah Lithium Thionyl Chloride battery, programmable location and RS232 interface.
5.2.17	Vandal Proof IP66 Rated 433MHz Roof Mount Antenna:	With 5m cable and SMA-F connectors.
5.2.18	ATC FEP for IP and GPRS comms (per CCT ATC system)	Must be compatible with CCT ATC System and interface with Controllers specked in item 5.1
5.2.19	Unmanaged Network Switch	Comprising of 4-Port 10/100Mbps with POE plus 1-Port 10/100Mbps WAN. Indication LED for 'System', 'Port' and 'Activity' 5-Port RJ-45 for 10/100Base Auto Learning function Maximum Packet size greater than 1Kb Maximum throughput up to 0.74Mbps @ 64Bytes. Must conform to FCC Class A CE, IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.3af and IEEE 802.3at Operating Temperature" 0 - 50 Degrees C Non-condensing relative humidity: 0 – 95% Power adaptor/supply to operate on 220v 50Hz supply
5.2.20	5G Dual SIM Industrial Router	Open WRT Router with RS485, RS232, IO and GPS. Wireless gateway with 4 LAN ports including 1 WAN port and with 2xSIM card slots, equipped with an SMA female connector for external antenna.
5.2.21	Omni Directional Antenna	Must be Wi-Fi, GPS and 5G compatible
5.2.22	Battery back up	Router battery back up for item 5.2.1
5.2.23	Variac	Variac with range 0 to 300VAC for testing 220VACLED Modules, 4A min, Single phase

5.3	TRAFFIC SIGNAL CONTROLLER SPARES	
5.3.1	Cabinet	Must be able to fit existing current CCT Traffic Signal Controller Components up to 12 Phases, Assembly including Power Distribution & Power Supply Units
5.3.2	PLUS Display: Front panel with colour touchscreen display	Must comply with all requirements as specified in item 5.1
5.3.3	Plinth mounted Cabinet	Must comply with all requirements as specified in item 5.1
5.3.4	System Processor	Must comply with all requirements as specified in item 5.1
5.3.5	Mounting pole	Must comply with all requirements as specified in item 5.1
5.3.6	Detector wiring assembly	8 circuit; Detector wiring assembly capable to hold 2 off Detector Units for a maximum of 8 Detector Inputs
5.3.7	4 Channel Detector Card	VA and SCOOT 4 Channel Detector Card must be able to detect inductive loops via Traffic Signal Controller
5.3.8	Pedestrian 4 Channel Detector Card	Pedestrian 4 Channel Detector Card: To detect pedestrian demand via Traffic Signal Controller
5.3.9	Detector wiring assembly	Detector wiring assembly must be 16 channel
5.3.10	Output lightning protector	Output lightning protector PCB assembly 8 phase
5.3.11	Output lightning protector	PCB assembly 12 phase
5.3.12	System Processor Module	For a 4 Phase including Router Kit, 2+4 Detector & Pedestrian Interface Unit Traffic Signal Controller
5.3.13	System Processor Module	Must comply with all requirements as specified in item 5.1
5.3.14	Pedestrian / Detector Interface Kit	Must comply with all requirements as specified in item 5.1
5.3.15	Services Module Standard	Must comply with all requirements as specified in item 5.1
5.3.16	Services Module Lite	Must comply with all requirements as specified in item 5.1
5.3.17	Output Module 2 Phase; capable of running 2 phases	Must comply with all requirements as specified in item 5.1
5.3.18	Output Module 2 Phase; capable of running 4 phases	Must comply with all requirements as specified in item 5.1
5.3.19	Lamp Dimming Kit: 500VA controller lamp dimming kit, installed inside the cabinet of a traffic signal controller, and enables the controller, to switch into a lamp dimming mode at certain times of the day to reduce the intensity of the signals, and save power.	Must comply with all requirements as specified in item 5.1

5.3.20	Traffic signal controller Sensys Ethernet interface kit	Industrial 48VDC Power over Ethernet supply, 30W output power and Sensys Ethernet embedded software license
5.3.21	Detector Expansion kit to increase detector Inputs from 24 to 32.	Must comply with all requirements as specified in item 5.1
5.3.22	Motherboard	Must comply with all requirements as specified in item 5.1
5.3.23	Lamp Drive Card	Must comply with all requirements as specified in item 5.1
5.3.24	GPIO Card	Must comply with all requirements as specified in item 5.1
5.3.25	DOT Module	Must comply with all requirements as specified in item 5.1
5.3.26	CPU Card	Must comply with all requirements as specified in item 5.1
5.3.27	12 Phase System Control Module	Must comply with all requirements as specified in item 5.1
5.3.28	18 Phase System Control Module	Must comply with all requirements as specified in item 5.1
5.3.29	Cabinet assembly manufactured in aluminium with sunken door to reduce vandalism	Must comply with all requirements as specified in item 5.1
5.3.30	Top Hat Expansion Cabinet:	To house SCOOTEX or Fibre Upgrade Equipment.
5.3.31	Diagnostic Display Assembly	Must comply with all requirements as specified in item 5.1
5.3.32	Power Distribution PCB	Must comply with all requirements as specified in item 5.1
5.3.33	Pedestrian 4 Channel Detector Card:	To detect pedestrian demand via traffic signal controller
5.3.34	Lamp Drive CPLD	Must comply with all requirements as specified in item 5.1
5.3.35	SVM Integrated Circuits	Must comply with all requirements as specified in item 5.1
5.3.36	Detector Back Plane and Loom	Must comply with all requirements as specified in item 5.1
5.3.37	Main Filter	Must comply with all requirements as specified in item 5.1
5.3.38	Surge Arrestor	Must comply with all requirements as specified in item 5.1
5.3.39	ST950 Traffic Controller or Equivalent	Must include MDU, CPU, LSC and IOB and be compatible with the CCT Area Traffic Control system
5.3.40	GPS Clock Module	Must fit in Controller Quoted for in item 5.3.39 and be compatible with the CCT Area Traffic Control system.
5.3.41	QPR LTE Router, including 4 Inputs and 2 Outputs	Must fit in Controller Quoted for in item 5.3.39 and be compatible with the CCT Area Traffic Control system.

5.3.42	Router Backup supply – Super-Cap	Must fit in Controller Quoted for in item 5.3.39 and be compatible with the CCT Area Traffic Control system.
5.3.43	LTE GSM GPS Combo Antenna	Must fit in Controller Quoted for in item 5.3.39 and be compatible with the CCT Area Traffic Control system.
5.3.44	UTMC Licence Card	Must be compatible Controller Quoted for in item 5.3.39 and be compatible with the CCT Area Traffic Control system.
5.3.45	Linux Server on Physical or VM	Must be compatible Controller Quoted for in item 5.3.39 and be compatible with the CCT Area Traffic Control system.

SECTION 6 – NON – INTRUSIVE DETECTION EQUIPMENT		
6.1	MAGNETOMETER DETECTION EQUIPMENT Must interface with CCT Traffic Signal Controllers	
6.1.1	Flush Mount Wireless Sensor	(Freeways/Arterials/Traffic Signal Control) Battery life should be at least 5 Years
6.1.2	Clear Plastic Shell	Clear Plastic Shell For Flush Mount Sensor to house Magnetometer sensor
6.1.3	Epoxy Tube	For Installation Of Vsn240–F Or T
6.1.4	Dual Component Epoxy Applicator	Dual Component Epoxy Applicator
6.1.5	Wireless Micro Radar sensor	Must be able to pick up Bicycles
6.2	ACCESS POINTS, REPEATERS, CONTACT CLOSURE & ACCESSORIES FOR MAGNETOMETERS	
6.2.1	Access Point	With Contact Closure Interface And Wired IP Connectivity Contact closure (serial) interface for detection data
6.2.2	Access Point Mounting Kit	Access Point Mounting Kit for magnetometers
6.2.3	Standard Flex Antenna	Standard Flex Antenna for connecting to repeater, range +/- 110m, TNC Reverse polarity male connector
6.2.4	Long Range Flex Antenna	Long Range Flex Antenna for connecting to repeater, range +/- 600m, TNC Reverse polarity male connector
6.2.5	Flex Solar repeater	Version 3, 10 Year battery life, connects to flex radio antenna,range +/- 300m,2.4GHz, 802.15.14 protocol,solar powered
6.2.6	Flex Node Line power repeater	Flex Node Line power repeater, for connecting to flex radio, range +/- 300m,2.4GHz, 802.15.14 protocol,24Vdc powered
6.2.7	Flex Control	Complete kit for traffic controller,connects to SPP radio antenna and stores traffidot configuration
6.2.8	Radio	Flex Digital Radio,
6.2.9	Flex Radio cabinet module	Flex Radio cabinet module
6.2.10	Cabinet mount antenna	Flex external cabinet mount antenna
6.2.11	Flex Isolator module	Flex Isolator module
6.2.12	Flex Control standard module	With generic protocol interface
6.2.13	Flex Control Enhanced module	With generic protocol interface and all traffic data
6.2.14	Flex Control Bluetooth sensor kit	For traffic signal controller
6.2.15	Flex Control Bluetooth sensor	Flex Control Bluetooth sensor

6.2.16	Flex Control Bluetooth range extender module	Flex Control Bluetooth range extender module
6.2.17	Flex Control Bluetooth range extender communications cable	Flex Control Bluetooth range extender communications cable (m)
6.2.18	Standalone Bluetooth sensor	With integrated BLE, V2I and connected Bluetooth
6.2.19	Flex Control Industrial communications cable	Direct burial outdoor rated armoured cable
6.2.20	Flex licence	Flex Control enhanced upgrade licence
6.2.21	Router mounting bracket	For traffic signal controller as specified in item 5,1
6.2.22	1m Patch cable	1m CAT5 UTP Ethernet Patch cable with RJ45 Male Connectors
6.2.23	1.5m Patch cable	1.5m CAT5 UTP Ethernet Patch cable with RJ45 Male Connectors
6.2.24	Router power cable	Router power cable for traffic controller
6.2.25	Replacement battery	Replacement battery for RP-240-BH repeater
6.2.26	Replacement battery	Replacement battery for RP-240-BH-2 repeater
6.2.27	FlexControl enhanced upgrade licence	FlexControl enhanced upgrade licence
6.2.28	SensMetrics licence	SensMetrics turning movement server licence
6.2.29	SNAPS Remote licence	SNAPS Remote management server licence
6.2.30	Travel time licence	Travel time and origin destination server licence
6.2.31	SensMetrics turning movement licence	SensMetrics turning movement server including hardware and software licence
6.2.32	SNAPS server and licence	SNAPS Remote management server including hardware and software licence
6.2.33	Travel time server and licence	Travel time and origin destination server including hardware and software licence
6.2.34	Siemens software Licence	Siemens Controller Management System (RMS) software Licence plus extra items
6.2.35	Contact closure cards	Contact closure cards, 2 slot rack kit
6.2.36	Traffic camera monitoring server and licence	Traffic camera monitoring software to be used in conjunction with AI Thermal camera's and Trafti-camera's
6.2.37	4D Radar	24GHz 4D radar sensor designed for multiple-lane, Field of view Azimuth: 110 °

6.3	INTELLIGENT RADAR AND VIDEO DETECTION EQUIPMENT:	
	RADAR AND CAMERA Equipment must be compatible with CCT Intelligent Transport System	
6.3.1	Radar Kit with lane differentiation and Single Output:	Radar based advanced vehicle detection kit, Single output, with user selectable speed thresholds, traffic signal pole mountable, including cabling and interface module to connect directly to a traffic signal controller.
6.3.2	Radar Kit with lane differentiation and Dual Output:	Radar based advanced vehicle detection kit, Dual output, with user selectable speed thresholds, traffic signal pole mountable, including cabling and interface module to connect directly to a traffic signal controller.
6.3.3	Radar Kit for stop line:	Radar based Stop line vehicle detection kit, Single output, with user selectable speed thresholds, traffic signal pole mountable, including cabling and interface module to connect directly to a traffic signal controller
6.3.4	Radar unit:	3D tracking radar with 360m detection range. 50ms measurement cycle and speed measurement accuracy of 2 km/h or better. Detection up to 8 lanes and simultaneous tracking up to 64 targets. Supplied with 5m – 10m cable stump.
6.3.5	Radar unit:	3D tracking radar with 240m detection range. 50ms measurement cycle and speed measurement accuracy of 2 km/h or better. Detection up to 8 lanes and simultaneous tracking up to 64 targets. Supplied with 5m – 10m cable stump.
6.3.6	Pedestrian Radar Detector:.	Bi-directional detection for pedestrian and cyclists on the crossing area. User adjustable range of 8m or 16m crossing at 6m wide. 230VAC power input
6.3.7	Mid-Block Radar Detector:	24 GHz, 230VAC power supply. Supplied with inductive loop emulator. IP66 enclosure. Up to 150m range.
6.3.8	Stop line Radar Detector:	24 GHz, 24VDC power supply. Supplied with inductive loop emulator. IP66 enclosure. Up to 20m detection zone.
6.3.9	Radar unit:	3D tracking radar with 180m detection range. 50ms measurement cycle and speed measurement accuracy of 2 km/h or better. Detection up to 8 lanes and simultaneous tracking up to 64 targets. Supplied with 5m – 10m cable stump.
6.3.10	Thermi-Camera BPL Wide Angle:	Thermal video detector, with independent bicycle and vehicle detection zones, Streaming video, IP communications over 24V power, detection range of 0-20 meters
6.3.11	Thermi-Camera BPL Medium Angle: power, detection range of 15-60 meters	Thermal video detector, with independent bicycle and vehicle detection zones, Streaming video, IP communications over 24V
6.3.12	Thermal-Camera BPL 2 Wide Angle:	Thermal video detector, 24 Virtual loops for presence detection, 8 Traffic Data Zones for classification and Counting, 8 bicycle and pedestrian detection zones, Streaming video, IP communications over 24V power, detection range of 0 – 60meters
6.3.13	Thermal-Camera BPL 2 Wide Angle:	Thermal video detector 24 Virtual loops for presence detection, 8 Traffic Data Zones for classification and Counting, 8 bicycle and pedestrian detection zones Streaming video, IP communications over 24V power, detection range of 10-80 meters

6.3.14	Thermal-Camera BPL 2 Narrow Angle:	Thermal video detector, 24 Virtual loops for presence detection, 8 Traffic Data Zones for classification and Counting, 8 bicycle and pedestrian detection zones, Streaming video, IP communications over 24V power, detection range of 20-100 meters
6.3.15	Thermal-Camera BPL 2 Narrow Angle:	Thermal video detector, 24 Virtual loops for presence detection, 8 Traffic Data Zones for classification and Counting, 8 bicycle and pedestrian detection zones, Streaming video, IP communications over 24V power, detection range of 30-125 meters
6.3.16	Thermi-Camera ETH Wide Angle:	Thermal video detector, with independent bicycle and vehicle detection zones, Streaming video, IP Ethernet communications, 24V power, detection range of 5-20 meters
6.3.14	Thermi-Camera ETH Medium Angle	Thermal video detector, with independent bicycle and vehicle detection zones, Streaming video, IP Ethernet communications, 24V power, detection range of 15-60 meters
6.3.15	Thermi-Camera ETH Narrow Angle:	Thermal video detector, with independent bicycle and vehicle detection zones, Streaming video, IP Ethernet communications, 24V power, detection range of 30-90 meters
6.3.16	Trafi-Camera X-Stream ETH Wide:	Vehicle Video detector, with 16 detection zones, built in data collection and real time congestion detection, Colour Streaming video, IP Ethernet communications, 24V power, detection range of 0-20 meters
6.3.17	Trafi-Camera X-Stream ETH Narrow:	Vehicle Video detector, with 16 detection zones, built in data collection and real time congestion detection, Colour Streaming video, IP Ethernet communications, 24V power, detection range of 15-70 meters
6.3.18	X-CAM-i Congestion Detection Video Sensor:.	IP67 enclosure, Ethernet interface and internal buffer keeping congestion video in internal memory. Remote maintenance through IP socket connection
6.3.19	X-CAM-td And Traffic Data Collection Camera Sensor:	Logging volume, speed, occupancy, headway and classification covering 3 lanes
6.3.20	Radio Synchronisation System	Radio Synchronisation System (Transmitter and Receiver) for traffic signal controller
6.3.21	TRAFICAM (Narrow Angle Camera):	Vehicle video detector to detect vehicle presence.
6.3.22	TRAFICAM (Wide Angle Camera):	Vehicle video detector to detect vehicle presence.
6.3.23	Trafi-Camera X-Stream BPL2 Wide:	Vehicle Video detector, with 16 detection zones, built in data collection and real time congestion detection, Colour Streaming video, IP Ethernet communications, 24V power, detection range of 0-20 meters
6.3.24	Trafi-Camera X-Stream BPL2 Narrow:	Vehicle Video detector, with 16 detection zones, built in data collection and real time congestion detection, Colour Streaming video, IP Ethernet communications, 24V power, detection range of 15-70 meters
6.3.25	TI x-stream BPL2	IP Ethernet communications, 24V power, or equivalent
6.3.26	TI x-stream BPL3	IP Ethernet communications, 24V power, or equivalent
6.3.27	PoE x-stream interface	12-42V input, IP Ethernet communications, or equivalent

6.3.28	AI Trafi-Camera X-Stream BPL2 - Wide:	Vehicle Video detector, with 24 detection zones, 8 traffic data zones for classification and counting, built in data collection and real time congestion detection, Colour Streaming video, IP Ethernet communications, 24V power, detection range of 0-75 meters
6.3.29	AI Trafi-Camera X-Stream BPL2 - Narrow:	Vehicle Video detector, with 24 detection zones, 8 traffic data zones for classification and counting, built in data collection and real time congestion detection, Colour Streaming video, IP Ethernet communications, 24V power, detection range of 75-150 meters
6.3.30	Vehicle Counting logger	RAKTEL 4010 loop counter (8 Lane)
6.3.31	Compact 3G Industrial Open WRT Router	With I/O and Open VPN complete with antennas and cables
6.3.32	LTE Dual SIM Industrial Open WRT Router	With RS485, RS232, IO and GPS with antennas and cables
6.3.33	Compact RS232, RS485	Modem with internal battery, IO and GPS
6.3.34	Traffic Counting station monitoring software	Traffic Counting station monitoring software
6.4	POWER SUPPLY UNITS (PSU) FOR TRAFFIC SIGNAL CONTROLLER AND DETECTOR EQUIPMENT	
6.4.1	Pole mount Wireless TrafiCam PSU (Signal Head Powered):	IP65 pole mount 24V power supply with cabling, enclosure 200mm x 120mm x 75mm
6.4.2	Pole mount 24V TrafiCam PSU (230V Powered):	IP65 pole mount 24V power supply with cabling, enclosure 200mm x 120mm x 75mm
6.4.3	Pole mount TrafiCam PSU (Enclosure Only):	IP65 pole mount enclosure with cabling, enclosure 200mm x 120mm x 75mm
6.4.4	TrafiCam solar power kit:	20W pole mountable solar power kit, regulated solar battery output Voltage of 12VDC, Overcharge and short circuit protection, housing to IP65 specifications
6.4.5	Solar Power Kit:	80W pole mountable solar power kit, regulated solar battery output Voltage of 24VDC, Overcharge and short circuit protection, housing to IP65 specifications, excluding LED Signal Head
6.4.6	Lane Light PSU:	48V, 2.5A, with output short circuit protection, DIN rail mountable
6.5	INTERFACE FOR VEHICLE DETECTION EQUIPMENT	
6.5.1	Traffic Logger:	2 CAN 2.0B radar inter-face; Micro-SD card logging capability; Battery backed up real-time clock; DIN rail mountable; Chassis mountable; 16 Digital outputs; Menu driven backlit graphics LCD, 8-30VDC power with surge protection
6.5.2	Signal Priority Transceiver	
6.5.3	ETH Interface:	Video detector interface module, for connecting Ethernet based x-stream video detection equipment
6.5.4	Interface unit X-Stream	Controller interface unit to be mounted in Traffic Controller – Must interface with camera in item 6.3.17 Communication must be via BPL

6.5.5	Interface unit X-Stream	Controller interface unit to be mounted in Traffic Controller – Must interface with camera in item 6.3.17 Communication must be via Ethernet
6.5.6	Interface unit TRAFICAM unit 1 TI	Controller interface unit to be mounted in Traffic Controller – Must interface with camera in item 6.3.21 and 6.3.22
6.5.7	Interface unit TRAFICAM unit 4 TI	Controller interface unit to be mounted in Traffic Controller – Must interface with camera in item 6.3.21 and 6.3.22
6.5.8	TI X-Stream TrafiCamera Interface Unit:	Designed to interface equipment to the TrafiCam X-stream and other TrafiCam BPL products, IP communications and optically isolated outputs, the unit is 3U rack mountable.
6.5.9	GPIO Interface Module	GPIO Interface Module with Direct contact closure connection
6.5.10	X-COM-P Video Sensor Interface Board:	Supporting up to 6 video sensors with Ethernet, USB and RS232 connectors.
6.5.11	Controller interface	Controller Bluetooth interface for Traffic Signal Controller as specified in item 5.1
6.5.12	Raktel Licence	Remote management server licence
6.5.13	Raktel server	Raktel Remote management server including hardware and software licence
6.5.14	Controller configuration and download device.	Equivalent or better than: USB 2 Serial Driver, WSVGA, Processor 1.6GHz at 667MHz, RAM 1GB 800MHz DDR2, HDD 250GB (5400RPM), No Optical Drive, Wi-Fi adaptor 802.11 (b/g), Bluetooth 3, Integrated Webcam, 3G/ HSPDA, No Modem, 56 WHr+ Battery, USB to Serial Adaptor, Null modem SERIAL Cable 1 year parts only, The following software must be pre-installed: Latest Windows software Simulator 2.9 configurator traffic signal controller analyser, Traficon software
6.5.15	Hand held 10 inch tablet.	Including software suite with 3G, Wi-Fi. Preinstalled Software must include: Traffic signal controller designer, analyser and emulator, TraffiCam software; Sensys Traffic Dot2; OS – Latest Windows software
6.5.16	Industrial communications cable,	Outdoor rated UV Stabilised, 2Pair 1mm squared Stranded Cores, APL armouring
6.5.17	FlexControl cable	Communications Cable for FlexControl - length 0.15m
6.5.18	FlexControl cable	Communications Cable for FlexControl - length 0.3m

6.5.19	FlexControl cable	Communications Cable for FlexControl - length 1m
6.6	ANTENNA'S AND ACCESSORIES	
6.6.1	Cable 10m HDF195 cable SMA(f) to SMA(m)	Capacitance: 24.3 pF/m; Conductor: Bare copper wire; Shield coverage: 88%; Minimum bend radius: 12.7 mm; Input impedance: 50 Ohm (nominal); Cable loss: 0.25 dB/m at 450 MHz; 0.35 dB/m at 900 MHz; 0.53 dB/m at 2000 MHz; 0.6 dB/m at 2 500 MHz
6.6.2	Cable HDF195	Capacitance: 24.3 pF/m; Conductor: Bare copper wire; Shield coverage: 88%; Minimum bend radius: 12.7 mm; Input impedance: 50 Ohm (nominal); Cable loss: 0.25 dB/m at 450 MHz; 0.35 dB/m at 900 MHz; 0.53 dB/m at 2000 MHz; 0.6 dB/m at 2 500 MHz
6.6.3	Cable coaxial RG58/U	Solid core, Frequency Range DC 5 GHz Impedance 50 Ohms Velocity of Propagation 65.9 % Operating Voltage (AC) 1,900 Vrms Nominal Capacitance 30.8 [101.05] pF/ft [pF/m] . . Input Power (CW), Max 44 Watts
6.6.4	Connector SMA (Female)	For RG58 or HDF195
6.6.5	Connector SMA (Male)	For RG58 or HDF195
6.6.6	Connector (Right angle)	SMA (male) for RG58 or HDF195
6.6.7	Connector N-type (Male)	For RG58 or HDF195
6.6.8	RG 58 Connector	N-type (female) for RG58 or HDF196
6.6.9	Crimping tool for SMA & N-Type Connectors	Must be able to Crimp an SMA Cable to an RG58 Connector

SECTION 7 – DRILLING MACHINE AND CORE DRILLING		
7.1	DRILLING MACHINE AND CORE BIT	
7.1	Concrete and Asphalt	4-Inch Coring Bit: Durability in abrasive asphalt, concrete and reinforcement materials, Ø 102mm, segment dimension (L=24, W=3.5, H=7), tube length = 450mm
7.2	Core Drilling Machine and Stand:	Drilling into tar, reinforced concrete and other surfaces up to Ø 250mm. Must be able to drill at different angles and stitch drilling. Must have overload protection, supplied with wheels, two-speed carriage gear box, integrated vacuum base, drill stand must be able to tilt and the back support having a rigid locking system (reliable and stable angle drilling).
SECTION 8 – CABLES AND ACCESSORIES		
8.1	CABLES AND ACCESSORIES:	Equipment must have been previously submitted to the CCT for field and compatibility trials or have previously been evaluated and approved by the CCT, in order to be eligible for this tender. The item must be able to communicate to Traffic Signals controllers. Cable to be marked each linear metre for length of cable. Cable cores must be individually numbered. SANS Approved 1507 standard unless otherwise indicated
8.1.1	37 Core Copper Cable:	Conductor cross-al area 1.5mm ² ; SWA sleeve material, PVC black colour sleeve,
8.1.2	19 Core Copper Cable:	Conductor cross-al area 1.5mm ² ; SWA sleeve material, PVC black colour sleeve
8.1.3	8 Pair Copper Cable:.	Conductor cross-al area 1.5mm ² , Standard: 1/0 Screened APL; Sleeve Material PVC sleeve colour black
8.1.4	2 Core Copper Cable:	Conductor cross-al area 1.5mm ² ; SWA sleeve material, PVC black colour sleeve
8.1.5	3 Core Copper Cable:	Conductor cross-al area 16mm ² ; SWA sleeve material, PVC black colour sleeve
8.1.6	Bare Copper Wire:	Conductor cross-al area 10mm ² , hard drawn with 7 Strand, Standard: SANS Approved 182-1.
8.1.7	Cabletyre	7 Core 1,5 mm
8.1.8	Ripcord	2 Core, 1.5mm ² , thickness, flat, insulated, parallel configuration cable with flexible grade PVC (blue, black or white tracer for polarity indication). High conductivity annealed bunched plain copper conductors.
8.1.9	CAT5 Cable	0.5x 4 Pair individual and over all mylar APL solid unshielded black SWA Cable
8.2	ACCESSORIES	
8.2.1	K-Clamps 32 mm	Screw- Galvanic/electrolytic zinc plated; Protection clamp – Hot Dip Galvanised;
8.2.2	K-Clamps 26 mm	Screw- Galvanic/electrolytic zinc plated; Protection clamp – Hot Dip Galvanised;

8.2.3	K-Clamps 20 mm	Screw- Galvanic/electrolytic zinc plated; Protection clamp – Hot Dip Galvanised;
8.2.4	Cable Ties Small	Black – Packets of 100 quantity T 18 R
8.2.5	Cable Ties Medium	Black – Packets of 100 quantity T 50 R
8.2.6	Cable Ties Large	Black – Packets of 50 quantity – T 120 R
8.2.7	Cable Ties Marker	White – Packets of 100 quantity – iT 50 R9C
8.2.8	Cable Ties Marker	White – Packets of 100 quantity – iT 18 R9C
8.2.9	Bolt and Nut:	Stainless steel 40x8mm bolt complete with 8mm Nylock nut
8.2.10	Stainless steel screw:	5.5 x30 self-drilling teks screws hexagon head zinc yellow plated
8.2.11	Stainless steel screw:	5.5 x50 self-drilling teks screws hexagon head zinc yellow plated
8.2.12	Nylon lock 40mm,	Key alike, protected keyway to work on existing keys
8.2.13	Pole cap	(Nylon UV resistant) complete with cradle and terminals to fit standard 4m,5m,6m Traffic Signal pole – Refer drawing NPC
8.2.14	Earth Spike 1.8m	Copper clad earth spike with double nuts and washers. Double nuts and washers, Size16mm x 1.8m
8.2.15	Earth Spike Coupling	The coupling device shall be designed to ensure good permanent electrical conductivity is maintained between the joined earth rods The couplings shall be manufactured from material compatible with the rods
8.2.16	Earth Spike Drive Bolt	The driving bolt must reduce the driving effort on the earth rod. The driving bolt must prevent damage to the copper sheath during the installation process.
8.2.17	Earth Clamp for earth spike	The couplings shall be manufactured from material compatible with the rods
8.2.18	Insulation Tape:	Electrical Insulation Tape 3M or equivalent (Black
8.2.19	Self-fusing tape	Self-Fusing 3M or equivalent tape - 9m x 19mm
8.2.20	Terminal Strips:	Black 15 AMP Connector Blocks – packets of ten and must have brass screws
8.2.21	Terminal Strips:	Black 30 AMP Connector Blocks – packets of ten and must have brass screws

8.2.22	Through terminal block	2 contact screw in or push in connectors: KUT/ UT 2.5mm 600 – 800V 20 – 20A 0.6 – 0.6 NM Stranded conductor size 0.5 to 2.5mm ² Solid conductor size 0.5 to 4mm ² Accessories: end plate, end stopper, boot lace ferrules 1.5mm, blue insulated ferrules 18mm, marking labels & slotted din rail
8.2.23	Through terminal block (Quattro) –	4 contact screw in or push in connectors: KUT/ UT 2.5mm 600 – 800V 20 – 20A 0.6 – 0.6 NM Stranded conductor size 0.5 to 2.5mm ² Solid conductor size 0.5 to 4mm ² Accessories: end plate, end stopper, boot lace ferrules 1.5mm, blue insulated ferrules 18mm, marking labels & slotted din rail
8.2.24	All Purpose electrical and mechanical lubrication spray	High Quality, Must provide protection shields – multi functional and used on any surface

SECTION 9 – CONNECTION PILLARS		
9.1	CONNECTION PILLARS (Stubby):	<p>Danger sign to be laminated in top, yellow grafolite label on both sides. Top to fit on base secured with polycarb 19mm black locking rod. Internal Galvanised angle frame attached to base with stainless steel hardware, P4000 uni-strut for cable connection on front and back, 18mm shutter ply treated backing board.</p> <p>Clamp mounting hardware; All nuts, bolts and washers for clamp mounting hardware must be stainless steel. Must be the round shape as required by CCT Brackets must be galvanized and complete with Stainless Steel nuts, bolts and washers. Polyethylene with a UV stabilizer; COLOUR: Grey</p> <p>Drawing CP-1</p>
9.1.1	Connection Pillar (Stubby)	Connection Pillar (Stubby) complete with locking bar, Polycarbonate Drawing CP-1
9.1.2	Connection Pillar Locking bar	Connection Pillar Locking bar only (Polycarbonate) Drawing CP-1
9.1.3	Connection Pillar Locking bar only (Solid metal round bar) Refer to drawings “ST”	Connection Pillar Locking bar only (Solid metal round bar) for Connection pillar as specified in item 9.1.1 Drawing CP-1
SECTION 10 – FLASHING LIGHT EQUIPMENT		
10.1	FLASHING LIGHT EQUIPMENT	
10.1.1	Flasher Unit Base:	11 Pin 230V octal socket DIN rail mount relay base.
10.1.2	200W solid state dual flasher module	designed specifically to drive low power LED signals, with frequency of 1Hz with a 50% duty cycle.
10.1.3	Completed Dual Flasher:	11 Pin 230V octal socket DIN rail mount relay base with 200W solid state dual flasher module designed specifically to drive low power LED signals, with frequency of 1Hz with a 50% duty cycle.
SECTION 11 – POLE CLAMP FOR MOUNTING BRACKETS AND TRAFFIC SIGNAL POLES		
11.1	POLE CLAMP FOR MOUNTING BRACKETS & TRAFFIC SIGNAL POLES	<p>Refer to Annexure 8 drawings: TSP-1; TSP-2; TSP-3A; OHP-1; OHP-2 and OHP-3, Brackets must be mild, galvanized steel. Brackets must be complete, left and right s, nuts bolts, washers and locking plates. Brackets must be laser cut with no welding. (Except “ST” type brackets) All nuts, bolts and washers must be stainless steel. Brackets manufactured from Steel and Galvanised.</p>
11.1.1	Standard Mounting	Bar: Traffic signal mounting bar including nuts, bolts, locking plates and washers. Drawing PMB & PMB
11.1.2	Extended Mounting Bar:	Traffic Signal mounting bar including nuts, bolts, locking plates and washers Length extended to 300mm. Drawing PMB & PMB

11.1.3	Standard Clamp Mounting Bracket:	Traffic Signal clamp mounting bracket plus nuts, washers and bolts to fit 4m traffic Signal pole. Set must contain left and right brackets. Drawing PMB & PMB
11.1.4	Over Sized Clamp Mounting Bracket:	Traffic signal clamp mounting bracket plus nuts, washers and bolts to fit Cantilever overhead pole. Set must contain left and right brackets. Drawing PMB & PMB
11.2	TRAFFIC SIGNAL POLES	Refer to drawings for specifications; Holes for pedestrian buttons must NOT be pre-drilled. All poles must be hot dip galvanized. Poles must be one continuous length with no welds or joints. Drawing PMB & PMB
11.2.1	Cantilever Pole Vertical only	Must comply with spec in item 11.2 Drawing OHP1 ,OHP2, OHP3 & OHP4
11.2.2	Cantilever Pole Horizontal only	Must comply with spec in item 11.2 Drawing OHP1 ,OHP2, OHP3 & OHP4
11.2.3	Cantilever Pole Swivel mechanism (Complete with flanges)	Must comply with spec in item 11.2 Drawing OHP1 ,OHP2, OHP3 & OHP4
11.2.4	Cantilever Pole Bolt group only (Base)	Must comply with spec in item 11.2 Drawing OHPB
11.2.5	Cantilever Pole Complete including Vertical , Horizontal , Swivel mechanism and Bolt group	Must comply with spec in item 11.2 Drawing OHP1 ,OHP2, OHP3 & OHP4
11.3	STANDARD POLES:	
11.3.1	4m Pole without hatch	Must comply with spec in item 12.2 and must be 4m in length Drawing TSP1
11.3.2	4m Pole with hatch	Must comply with spec in item 12.2 and must be 4m in length Drawing TSPH
11.3.3	5m Pole with hatch	Must comply with spec in item 12.2 and must be 5m in length Drawing TSPH
11.3.4	6m Pole with hatch	Must comply with spec in item 12.2 and must be 5m in length Drawing TSPH
11.3.5	8m Pole with hatch	Must comply with spec in item 12.2 and must be 8m in length Drawing TSPH
11.4	REMOVABLE POLES	
11.4.1	4m Pole with hatch	Must comply with spec in item 12.2 Drawing TSPH
11.4.2	5m Pole with hatch	Must comply with spec in item 12.2 Drawing TSPH
11.4.3	6m Pole with hatch	Must comply with spec in item 12.2 Drawing TSPH
11.5	BASE PLATE POLES	
11.5.1	4m Pole with hatch	Must comply with spec in item 12.2 Length must be 4 m Drawing RMP

11.5.2	5m Pole with hatch	Must comply with spec in item 12.2 Length must be 5 m Drawing RMP
11.5.3	Must comply with spec in item 12.2 Length must be 4 m	Must comply with spec in item 12.2 Length must be 6 m Drawing RMP
11.6	PEDESTRIAN POLES	
11.6.1	Pedestrian short pole	Must comply with spec in item 12.2 Length must be 1.750 m Drawing RMP
11.6.2	Pole Cap	Nylon pole cap Drawing NPC
SECTION 12 – PEDESTRIAN DETECTION EQUIPMENT		
12.1	CONVENTIONAL PEDESTRIAN SYSTEMS	STANDARD PEDESTRIAN DETECTION EQUIPMENT: Must Interface with CCT Traffic Signals Controllers
12.1.1	Capacitive Pedestrian Button	Yellow UV stabilized polycarbonate vandal proof push button, with no moveable parts, easy to install pole mount housing Drawing APSBC
12.1.2	Capacitive Pedestrian Button with LED Feedback	Yellow UV stabilized polycarbonate vandal proof push button, with no moveable parts, easy to install pole mount housing, built in LED feedback for pedestrian users Drawing APSBC
12.1.3	Standard Pedestrian Button Assembly	The Button must be made from Nylon and must be vandal proof. Colour of assembly must be yellow and must be UV resistant and must not fade. Drawing APSBC
12.1.4	Audible device	220V Must be able to mount in a Pedestrian signal green head - Solid tone
12.1.5	Audible device	220V Must be able to mount in a Pedestrian signal green head - Intermittent tone
12.2	ACCESSIBLE PEDESTRIAN SYSTEMS	Must be pole mounted type. 230 VAC supply requirement. Must be compatible with Traffic Signal controllers. Must have the following: audible outputs to push button; 100Hz at 0.55Hz repetition rate; 3500 Hz decreasing exponentially to 700Hz; 500Hz at 8.5Hz repetition rate. Must have microphone and AGC. Push buttons; Must be compatible with DUAT811 or equivalent control unit, Must be stainless steel. Must be vibro-tactile. Transducer must be located within push button. Must contain directionally adjustable vibro-tactile arrow. Actuating button to be 50mm diameter Mounting
12.2.1	Capacitive Pedestrian Button:	(No Moving Parts) Yellow UV stabilized polycarbonate vandal proof push button, with no moveable parts, easy to install pole mount housing. Must include Vibration in button and sound in button or controller unit. Must comply with spec in item 12.2
12.2.2	Accessible Pedestrian Signal (APS) Pedestrian Control unit	Controller unit for button in item 12.2.1. Must comply with spec in item 12.2

12.2.3	Accessible Pedestrian Signal (APS) Pedestrian Push button	Must comply with spec in item 12.2 Button must vibrate when Pedestrian is green
12.2.4	Accessible Pedestrian Signal (APS) Tactile Touch Push button	Must comply with spec in item 12.2
12.2.5	Combi Pedestrian Signal Head with integral Tactile Controller:	The audible tactile control microprocessor based fully electronic control equipment is mounted in the pedestrian 2 aspect Lantern. 3 level Audible Tactile control. Must comply with spec in item 12.2
SECTION 13 – VINYL NUMBERS AND LOGO'S		
13	VINYL NUMBERS AND LOGO's	Vinyl must be heavy Duty, UV resistant and self-adhesive. Numbers must be black on a reflective white background.
13.1	VYNIL NUMBERS	
13.1.1	Traffic Signal Pole numbers: 0 to 9	White retro reflective background: H =125mm, W=85mm: Black number: H=80mm, W = 35mm Must comply with spec in item 13 Drawing NUM1
13.1.2	Traffic Signal Pole numbers: 10 to 22	White retro reflective background: H =125mm, W=95mm: Black number: H=80mm, W = 35mm Must comply with spec in item 13 Drawing NUM1
13.1.3	Traffic Signal Controller logo numbers 0 to 9	White retro reflective background: H =45mm, W=40mm: Black number: H=40mm, W = 35mm ust comply with spec in item 13 Drawing TSCL
13.2	Traffic Signal Controller DECALS	Vinyl must be heavy Duty, UV resistant and self-adhesive. Must be in colour.
13.2.1	Logo for Traffic Signal Controller	Logo must be in full colour on white background. Refer to drawing numbers: NUM-1 and LOGO-1 Approved electronic copy of the exact logo to be printed will be provided by the CCT. Printed retro reflective logo for Traffic Signal controller as per drawing: Height = 170mm Width = 200mm. blocks for numbers sizes: H=45, W=40mm Drawing TSCL
13.2.2	Pedestrian pole sticker	Vinyl retro reflective sticker. Must be able to be stuck on 4m traffic signal pole above the pedestrian push button Drawing PS

SECTION 14 – VANDAL PROOF CAGE FOR CONTROLLER AND PERIPHERAL EQUIPMENT		
14.1	VANDALL CAGE CONTROLLER PERIPHERAL EQUIPMENT PROOF FOR AND	<p>Cage frame manufactured from 76 x 3mm square tubing including 60 x 6mm flat welded to square tubing to take mesh panel Mesh panel to be bolted to flat with M8 x 40mm Cup square M8 shear off nuts and M8 Washers 80 x 6mm x 100mm long flat to be welded to Square tubing uprights (3 per upright) for fixing of 2 x corner uprights, on inside of cage, to each other using M12 Hexagonal bolts, nuts and washers 70 x 8mm angle welded to 4 bottom side of cage for installation to concrete plinth with M20 Sleeve anchors</p> <p>Pedestrian Gate 1.2m wide manufactured from 60 x 3mm square tubing.</p> <p>Cage Roof manufactured from 76 x 3mm square tubing including 60 x 6mm flat welded to tubing to take mesh panel Mesh panel to be bolted to flat with M8 x 40mm Cup square M8 shear off nuts and M8 Washers 80 x 6mm x 100mm flat to be welded to Square tubing horizontals (1 per horizontal) for fixing of cage frame to roof section, on inside of cage, to each other using M12 hexagonal bolts, nuts and washers 70 x 10mm Flat to be fixed to top of roof (For lifting purposes) 3 No per roof</p> <p>Steel Hot dipped galvanised to ISO 1461 Bolts, nuts, washers grade 304 stainless steel</p>
14.1.1	High Security Kiosk: 3m x 3m x 2,4m	<p>Covered with Double Skin Mesh one pedestrian gate) Kiosk: 3m(L) x 3m(W) x 2,4M(H) Double Skin Mesh (Removable roof).</p> <p>Must comply with spec in item 14.1</p>
14.1.2	High Security Kiosk: 3m x 2.4m x 2.4m	<p>Covered with Double Skin Mesh one pedestrian gate) Kiosk: 3m(L) x 2.4m(W) x 2,4M(H) Double Skin Mesh (Removable roof)</p> <p>Must comply with spec in item 14.1</p>
14.1.3	High Security Kiosk: 3m x 1.8m x 2.4m	<p>Covered with Double Skin Mesh one pedestrian gate) Kiosk: 3m(L) x 1.8m(W) x 2,4M(H) Double Skin Mesh (Removable roof)</p> <p>Must comply with spec in item 14.1</p>
14.1.4	Earthing Copper wire and Rod	70mm square bare copper cable (0.672kg/m) connected to 1.8m Earth Rod including lugs, clamps, bolts, nuts and washers and earth resistance must be 20Ω
14.1.5	Concrete Beam Anti-Burrow	Concrete Plinth: 450mm wide x 650mm deep (15MPA) under entire cage

14.2	Underground chamber CONTROLLER AND PERIPHERAL EQUIPMENT	
14.2.1	Underground Chamber Controller	<ol style="list-style-type: none"> 1. The manhole shall be constructed of a moulded non-metallic cabinet housing with no salvage value. 2. The exterior of the housing shall be ribbed for strength and to assist with the securing of the housing installation. 3. Physical external dimension of prefabricated housing ideally not to exceed 1 meter diameter. 4. The housing and access covers shall have an IP68 rating or better. 5. Suppliers to provide evidence of structural integrity testing. 6. Manhole covers are to comply with SANS 50124:1994, EN 124:1994 (i.e. may be placed in vehicle trafficked area) <ol style="list-style-type: none"> a. Class B125 – Permanent Set, and b. Class B125 – Load test 7. Multiple sealed cable entries (minimum of 12) are to be provided. Any cable penetration must be capable of being sealed to prevent moisture and dust ingress e.g. a Gland and/or heat shrunk seal capable of achieving equivalent rating of IP68, or other. 8. Access to the housing is to be via double entry manhole covers and accessible to authorised technicians through secure electronic and/or coded mechanical locking systems. 9. Alarm monitoring and reporting equipment to be installed in the manhole with interface to clients electronic system to report <ol style="list-style-type: none"> i. Alarm on unauthorised access ii. Alarm on Temperature exceeding 65°C iii. Alarm on Moisture content exceeding 45% iv. Report on authorised access 10. Current and future Traffic Controller and associated Telecommunication equipment (or a UPS and associated Batteries) shall be housed in a suitably manufactured internal cradle/rack, installed in the prefabricated manhole, which shall be fitted with a mechanical mechanism to lift and lower the electronic equipment and associated cables, for ease of access. 11. The mechanical lift/lowering system must be manufactured from Grade 304 (or better) Stainless Steel. 12. The mechanical lift/lowering system must be fitted with adaptors to allow suitable space and mountings for the current range of traffic controller electronics and associated equipment

			<p>including electrical cabling, trays/cradles etc., currently in service with the City of Cape Town</p> <p>13. The bidder shall include suitable IP68 rated cable glands (compression) and end caps with every kiosk type as follows:</p> <ul style="list-style-type: none"> i. 4 x 110mm Entry Caps ii. 1 x 32mm IP68 Gland iii. 7 x 25mm IP68 Gland iv. 2 x 20mm IP68 Gland v. 1 x 32mm Compression Gland vi. 7 x 25mm compression Gland vii. 2 x 20mm compression Glands
14.2.2	Underground Chamber	UPS	<ol style="list-style-type: none"> 1. The manhole shall be constructed of a moulded non-metallic cabinet housing with no salvage value. 2. The exterior of the housing shall be ribbed for strength and to assist with the securing of the housing installation. 3. Physical external dimension of prefabricated housing ideally not to exceed 1 meter diameter. 4. The housing and access covers shall have an IP68 rating or better. 5. Suppliers to provide evidence of structural integrity testing. 6. Manhole covers are to comply with SANS 50124:1994, EN 124:1994 (i.e. may be placed in vehicle trafficked area) <ol style="list-style-type: none"> a. Class B125 – Permanent Set, and b. Class B125 – Load test 7. Multiple sealed cable entries are to be provided. Any cable penetration must be capable of being sealed to prevent moisture and dust ingress e.g. a Gland and/or heat shrunk seal capable of achieving equivalent rating of IP68, or other. 8. Access to the housing is to be via double entry manhole covers and accessible to authorised technicians through secure electronic and/or coded mechanical locking systems.

		<p>9. Alarm monitoring and reporting equipment to be installed in the manhole with interface to clients electronic system to report</p> <ol style="list-style-type: none"> Alarm on unauthorised access Alarm on Temperature exceeding 65°C Alarm on Moisture content exceeding 45% Report on authorised access <p>10. Current and future UPS (with associated Batteries) shall be housed in a suitably manufactured internal cradle/rack, installed in the prefabricated manhole, which shall be fitted with a mechanical mechanism to lift and lower the equipment and associated cables, for ease of access.</p> <p>11. The mechanical lift/lowering system must be manufactured from Grade 304 (or better) Stainless Steel.</p> <p>12. The mechanical lift/lowering system must be fitted with adaptors to allow suitable space and mountings for the current range of UPS, batteries and associated equipment including electrical cabling, trays/cradles etc., currently in service with the City of Cape Town</p> <p>13. The bidder shall include suitable IP68 rated cable glands (compression) and end caps with every kiosk type as follows:</p> <ol style="list-style-type: none"> 3 x 110mm Entry Caps 2 x 25mm IP68 Gland 1 x 20mm IP68 Gland 2 x 25mm compression Gland 4 x 20mm compression Glands
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14.2.3	Underground Chamber	Stubby	<ol style="list-style-type: none"> 1. The unit shall be constructed of a moulded non-metallic cabinet housing with no salvage value. 2. The exterior of the housing shall be ribbed for strength and to assist with the securing of the housing installation. 3. Physical external dimension of prefabricated housing ideally not to exceed 1 meter diameter. 4. The housing and access covers shall have an IP68 rating or better. 5. Suppliers to provide evidence of structural integrity testing. 6. Manhole covers are to comply with SANS 50124:1994, EN 124:1994 (i.e. may be placed in vehicle trafficked area) <ol style="list-style-type: none"> a. Class B125 – Permanent Set, and b. Class B125 – Load test 7. Multiple sealed cable entries are to be provided. Any cable penetration must be capable of being sealed to prevent moisture and dust ingress e.g. a Gland and/or heat shrunk seal capable of achieving equivalent rating of IP68, or other. 8. Access to the housing is to be via double entry manhole covers and accessible to authorised technicians through secure electronic and/or coded mechanical locking systems. 9. Current and future electrical connections shall be internally housed using a suitably manufactured IP68 rated prefabricated cable management system and shall be fitted with a mechanical mechanism to lift and lower the equipment and associated cables, for ease of access. 10. The mechanical lift/lowering system must be manufactured from Grade 304 (or better) Stainless Steel. 11. The bidder shall include suitable IP68 rated cable glands (compression) and end caps with every kiosk type as follows: <ol style="list-style-type: none"> i. 6x110mm Entry Caps ii. 3x32mm IP68 Gland iii. 6 25mm IP68 Gland iv. 7x20mm IP68 Gland v. 3x2mm compression Gland vi. 6x25mm compression Gland vii. 7 x 20mm compression Gland
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14.2.4	Entry Caps and Glands for underground Kiosks	
14.2.4.1	110mm Entry Cap	To be compatible with items 14.2.1, 14.2.2, 14.2.3
14.2.4.2	32mm IP68 Gland	To be compatible with items 14.2.1, 14.2.2, 14.2.3
14.2.4.2	25mm IP68 Gland	To be compatible with items 14.2.1, 14.2.2, 14.2.3
14.2.4.3	20mm IP68 Gland	To be compatible with items 14.2.1, 14.2.2, 14.2.3
14.2.4.4	32mm Compression Gland	To be compatible with items 14.2.1, 14.2.2, 14.2.3
14.2.4.5	25mm compression Gland	To be compatible with items 14.2.1, 14.2.2, 14.2.3
14.2.4.6	20mm compression Gland	To be compatible with items 14.2.1, 14.2.2, 14.2.3
14.2.5	Locking System for Underground Kiosks	Complete secure electronic and/or coded mechanical locking system for access to the underground Kiosk housings for Traffic Controllers, UPS and stubby.
14.2.6	Drill attachment	Drill attachment for lifting and lowering of underground chamber
14.2.7	Bluetooth Key	Handheld Bluetooth Management key for opening Electronic lock.
14.2.8	Electronic Dead Lock	Electronic dead lock with no power connection rated IP67 operated by Blue tooth key in item 14.2.7
14.2.9	Mechanical key	Manhole spindle key to open lid of underground chambers.

SECTION 15 – CIVIL ENGINEERING MATERIAL		
15.1	Sleeving Duct pipe	
15.1.1	Sleeving Duct pipe solid	110mm UPVC sleeving 6 m length
15.1.2	Sleeving Duct pipe flexible	110mm UPVC sleeving 6 m length
15.2	Kerbs	
15.2.1	Normal Kerbs	Refer to Standards and Guidelines for Roads & Stormwater(RD1.1)
15.2.2	Bubble Blocks	Refer to Standards and Guidelines for Roads & Stormwater(RD4.1)
15.3	ROAD TRAFFIC SIGNS	<p>Road signs shall comply with SANS 1519-1 Road Signs, Part 1: Retro-reflective sheeting material and SANS 519-2 Road Signs, part 2: Performance requirements for road signs</p> <p>Ground mounted signs shall be designed for normal climatic conditions (Type A back plates as described in Clause 15.7.9 of SARTSM-Volume 2 Chapter 15). Bolts, washers and nuts to be galvanized steel. All road traffic signs shall be manufactured with retro-reflective background material. The two predominantly used retroreflective material classes are as follows:</p> <ul style="list-style-type: none"> • Class 3 Prismatic Retro-reflective material (10-year warranty): • Class 4 Retro-reflective material (material must conform to Class 4A and 4B SANS 1519 standards, 12-year warranty/ grade).
15.3.1	Road sign SS3	To comply with 15.3
15.3.2	Road sign W301	To comply with 15.3

[illegible]

MONTHLY PROJECT LABOUR REPORT

BENEFICIARY DETAILS AND WORK INFORMATION



CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD

CONTRACT OR WORKS PROJECT NUMBER:				Year Month		Sheet 1 of		
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No.	(8) First name	(8) Surname	(8) ID number	(9) New Beneficiary (Y/N)	Gender (M/F)	Disabled (Y/N)	(10) Job seeker database (Y/N)	Contract start date (DDMMYY)	Contract end date (DDMMYY)	(12) No. days worked this month (excl. training)	(13) Training days	(14) Rate of pay per day (R – c)
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Declared by Contractor or Vendor to be true and correct:	Name		Signature	
	Date			

Received by Employer's Agent / Representative:	Name		Signature	
	Date			

(14.2) BBBEE SUB-CONTRACT EXPENDITURE REPORT (PRO FORMA)

TENDER NO. AND DESCRIPTION:

SUPPLIER:

B-BBEE SUB-CONTRACT EXPENDITURE REPORT

Rand Value of the contract (as defined in Schedule 4: Preference Schedule) (P*)	R	B-BBEE Status Level of Prime Supplier	
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Name of Sub-contractor (list all)	B-BBEE Status Level of supplier ¹	Total value of Sub-contract (excl. VAT) ¹	Value of Sub-contract work to date (excl. VAT) ¹	Value of Sub-contract work to Sub-contractors with a lower B-BBEE Status Level than supplier
Sub-contractor A		R	R	R
Sub-contractor B		R	R	R
Sub-contractor C		R	R	R

¹Documentary evidence to be provided

Total:	R
Expressed as a percentage of P*	%

Signatures

Declared by supplier
to be true and correct:

Date:

Verified by CCT
Project Manager:

Date:

(14.3) PARTNERSHIP/ JOINT VENTURE (JV) / CONSORTIUM/ EXPENDITURE REPORT (PRO FORMA)

TENDER NO. AND DESCRIPTION:

SUPPLIER:

PARTNERSHIP/ JOINT VENTURE (JV)/ CONSORTIUM EXPENDITURE REPORT

Rand value of the contract (as defined in Schedule 4: Preference Schedule) (P*)	R	B-BBEE Status Level of Partnership/ Joint Venture (JV)/ Consortium	
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Name of partners to the Partnership/ JV / Consortium (list all)	B-BBEE Status Level of each partner at contract award	Percentage contribution of each partner as per the Partnership/ JV/ Consortium Agreement ¹	Total value of partner's contribution (excl. VAT) ¹	Value of partner's contribution to date (excl. VAT) ¹	Value of partner's contribution as a percentage of the work executed to date
		A	$B = A\% \times P^*$	C	$D = C/P^* \times 100$
Partner A		%	R	R	%
Partner B		%	R	R	%
Partner C		%	R	R	%

¹Documentary evidence to be provided

Signatures

Declared by supplier
to be true and correct:

Date:

Verified by CCT
Project Manager:

Date:

