



GAUTENG PROVINCE
ROADS AND TRANSPORT
REPUBLIC OF SOUTH AFRICA

GAUTENG PROVINCE
DEPARTMENT OF ROADS AND TRANSPORT

TENDER FOR CONTRACT No. DRT04/02/2026

FOR

**PAVEMENT SURVEILLANCE MEASUREMENTS OF
THE GAUTENG PROVINCIAL ROAD NETWORK FOR
THE PERIOD OF 36 MONTHS**

**TENDER DOCUMENT FOR CONTRACT NO.
DRT04/02/2026**

The Tender (Tendering Procedures, Returnable Documents),
The Contract (Agreements and Contract Data, Pricing Data, Scope of
Work)

FEBRUARY 2026

Issued by:

**The Head of Department
Department of Roads and Transport
Gauteng Province
Private Bag X83
MARSHALLTOWN
2107**

NAME OF TENDERING

ENTITY:.....

ADDRESS:

.....

TEL NO. FAX NO.

Email.....

TOTAL OF PRICES INCLUSIVE OF VALUE ADDED TAX:

R.....

TENDER for CONTRACT No.: DRT04/02/2026
FOR
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TENDER

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PART T1: TENDERING PROCEDURES

T1.1 TENDER NOTICE AND INVITATION TO TENDER

THE GAUTENG PROVINCE, DEPARTMENT OF ROADS AND TRANSPORT REQUESTS INTERESTED TENDERERS TO SUBMIT TENDERS FOR PAVEMENT SURVEILLANCE MEASUREMENTS OF THE GAUTENG PROVINCIAL ROAD NETWORK FOR THE PERIOD OF 36 MONTHS:

TENDER NUMBER	SERVICE	COMPULSORY SITE BRIEFING	CLOSING DATE
DRT04/02/2026	Pavement Surveillance Measurements of the Gauteng Provincial Road Network for the period of 36 months	Venue: Department of Roads and Transport, 1215 Nico Smith Street, Koedoespoort, Pretoria Room 69 Date: 09 March 2026 Time: 11:00 Failure to attend the compulsory briefing session will render a tenderer as disqualified	30 March 2026 at 11:00 Tender Box: Gauteng Roads and Transport, Ground floor, Life Centre Building, 45 Commissioner Street, Johannesburg.

The Gauteng Department of Roads and Transport adheres to all relevant Acts including but not limited to, the Constitution of the Republic of South Africa of 1996, the Black Economic Empowerment Act No.53 of 2003, Preferential Procurement Policy Framework Act No.5 of 2000, Employment Equity Act No. 55 of 1998 and the Public Finance Management Act No 1 of 1999.

In terms of Preferential Procurement Regulations of 2022, the Department will be applying the 80/20 preference point system.

COMPULSORY/MANDATORY TENDER REQUIREMENTS:

Failure to submit the following required documents will render the bidders tender disqualified:

- Service Providers must be in possession of the required equipment for the paved roads surveillance measurements, namely a Class 2 High Speed Profiler and a Falling Weight Deflectometer. The equipment shall comply with the minimum technical requirements stated in the tender document and a certificate or declaration stating the date and outcome of the most recent equipment component calibration shall be submitted, also stating the name of the accredited body that issued the calibration certificates. Proof of possession (Ownership) of sales or lease agreement with attached valid licence disc.
- Fully Complete, sign, and submit SBD forms SBD1, SBD 4 and SBD 6.1, which form part of the tender document.

- Bidders must attend the compulsory site briefing as indicated above:
 - The attendance register must be completed and will be used as proof of your attendance.
 - The representative attending the compulsory site briefing may only attend on behalf of one bidding enterprise and/or Joint Venture/Consortium/Trust
- In the case of joint ventures and consortia, a detailed signed agreement must be attached as part of the submitted tender document, which must be signed by all parties to the agreement detailing the percentage (%) split between the parties.

OTHER KEY RETURNABLES:

- Tax compliance status pin (A consortium or joint ventures (Including unincorporated consortia) must submit a tax status pin of each partner in the consortium or joint ventures (Including unincorporated consortia).
- Registration Documents of the business with the Companies and Intellectual Property Commission (CIPC).
- Certified ID copies of company members and shareholders.
- CSD summary report or MAAA number.
- Fully Completed, signed, and submit the Integrity Pact for Businesses Fighting Corruption, Promoting Integrity.

FUNCTIONALITY EVALUATION:

Functionality will be scored out of 100 points and the minimum threshold to qualify is 80 points. Bidders who fail to meet the minimum threshold will not be considered for further evaluation. The functionality evaluation criteria are outlined in the table below:

Designation	Qualification	Required Experience	Required Years of Experience	Maximum Points
Project Manager	ECSA Registered as Professional Civil Engineer	Managing network surveillance projects	Minimum 10 years in Pavement Surveillance	40
Quality Control Manager	ECSA registered as Professional Civil Engineer	Quality control on network surveillance projects	Minimum 5 years in Pavement Surveillance	20
Profile Equipment Operator		Operating profile measuring equipment	Minimum 5 years in Pavement Surveillance	20
Deflection Equipment Operator		Operating deflection measuring equipment	Minimum 5 years in Pavement Surveillance	20
TOTAL SCORE				100
MINIMUM THRESHOLD				80

PRICE AND PREFERENCE POINT SYSTEM EVALUATION:

In terms of Preferential Procurement Regulations of 2022, the Department will be applying the 80/20 preference point system, which is applicable to bids with a Rand value equal to or below R50 million, inclusive of all applicable taxes, shall be applied, where a maximum of 80 points will be allocated for price and maximum of 20 will be allocated for the Specific Goals specified in this tender.

AREA POINTS	POINTS (80/20)
Price	80
Preference Point – Specific Goals	20
Total points for Price and Preference Points	100

Specific Goals Requirements:

To qualify for Specific Goal points, Bidders must provide evidence of ownership of 51% or more per the specified Historically Disadvantaged Individuals (HDI) categories. Bidders must submit verifiable documentation as proof to claim the Preference Points.

Bidders who fail to submit valid B-BBEE credentials will forfeit their preference points.

SPECIFIC GOALS	PROOF OF EVIDENCE	POINTS (20)
HDI	The bidder must submit a valid B-BBEE Certificate or Sworn Affidavit with at least 51% black ownership to claim points.	3
Woman	The bidder must submit a valid B-BBEE Certificate or Sworn Affidavit with at least 51% owned by women to claim points.	6
Youth	The bidder must submit a valid B-BBEE Certificate or Sworn Affidavit with at least 51% owned by youth and copies of Identity Documents for Directors to claim points.	5
Disability	The bidder must submit a valid B-BBEE Certificate or Sworn Affidavit with at least 51% owned by people with disability and copies of Identity Documents for Directors to claim points.	4
Locality	The bidder must submit a copy of a municipal rates & taxes invoice or statement not older than three (3) months in the name of the Bidder or proof of lease agreement in the name of the Lessee signed by both parties.	2

Guidance on valid B-BBEE Certificates and/or valid Sworn Affidavits to substantiate preference points claims

- Valid B-BBEE Certificate issued by a SANAS accredited agency
- Any Consortium or JV must submit a valid consolidated B-BBEE Certificate issued by a SANAS accredited agency. No sworn affidavit will be accepted for a Consortium or JV.

- The Department is requesting the B-BBEE credentials in order to validate and evaluate the points claimed by the Bidder based on the Specific Goals outlined in this tender document and the SBD 6.1.

NB: The submission of a fraudulent B-BBEE certificate will result in the bidder being disqualified and criminal proceedings being instituted against the bidder. The bidder, the shareholders and / or directors will further be restricted from doing business with any organ of the state for a maximum period of 10 years

NB: Bidders who are listed on the National Treasury's register of defaulters and restricted suppliers will be automatically disqualified.

Bidders should note the following:

- Functionality will be scored out of 100 points.
- The Department will conduct a detail risk assessment on the recommended bidder/bidders.
- Where the proposed prices of critical materials to be supplied to the Department are considerably less than the expected market price or rates, the Department reserves the right to verify the proposed prices by requesting quotations from the supplier(s) cited in the compilation of the bid.
- Potential suppliers must note that in terms of Departmental policy, the Department reserves the right to cancel a contract and blacklist any supplier for a period of at least 12 months if the supplier fails to adequately perform in terms of the awarded contract.
- The bid validity period is 90 days. However, the Department reserves the right to request all bidders to extend such validity period should the need arise. "Failure to respond to such a request shall be deemed to be an approval to extend the bid validity period on the same terms and conditions as per your original bid submission".
- The successful bidder will be required to enter into a formal contract with the Department. Such contract will be governed in terms of the General Conditions of Contract dated 2015.
- The Department will not compensate the bidder for any costs incurred in the preparation and submission of a bid offer, including the costs of any testing necessary to demonstrate that aspect of the offer complies with requirements.
- Tenderers who are listed in the National Treasury's register of defaulters and restricted suppliers will be disqualified.

NB: Potential suppliers must note that in terms of Departmental policy, the Department reserves the right to cancel and blacklist any supplier for a period of at least 12 months if the supplier fails to adequately perform in terms of the awarded contract.

Correspondence

- Closing date for enquires: 16 March 2026
- Bidders to expect responses within 7 days of this closing date.
- Bidders must regularly check, eTenders Portal and Departmental Websites for publication of responses and other communication.

OBTAINING TENDER DOCUMENTS

Prospective tenderers can download and print their own version of the tender document (free of charge) by accessing the E-Tender Publication Portal website (www.etenders.gov.za). Tenderers are advised to

ensure that all tender documents are properly bound upon submission on the closing date and time. Documents will be available on the E-tenders publication portal from 27 March 2026.

Bid Submission

Electronic submissions of Tenders will **NOT** be accepted.

Telegraphic, telephone, telex, facsimile, emails of tenders and late tenders will **NOT** be accepted.

Requirements for sealing, addressing, delivery, opening and assessment of bids are stated in the bid documents.

The Department reserves the right to cancel **OR** not award this tender to any party.

Clearly numbered Bid Documents together with all applicable attachments must be deposited in the tender box at the foyer at ground floor, Life Centre Building, at 45 Commissioner Street, Johannesburg, by no later than 11:00 on the closing date indicated above

**All Queries relating to this tender may be addressed to the email below
SCMBIDADMIN.SCMBIDADMIN@gauteng.gov.za**



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T1.2 TENDER DATA

The conditions of tender are the Standard Conditions of Tender as contained in Annexure F of the CIDB Standard for Uniformity in Construction Procurement, July 2015. The Conditions of Tender are included in Section T1.3 for the convenience of tenderers.

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

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

Clause Number	Description / Comment
F.1.1	The Employer is The Head of Department, Gauteng Province, Department of Roads and Transport
F.1.2	<p>The Procurement Document issued by the Employer comprises the following:</p> <p>PART T1 TENDERING PROCEDURES T1.1 Tender Notice and Invitation to Tender T1.2 Tender Data T1.3 Standard Conditions of Tender</p> <p>PART T2 RETURNABLE DOCUMENTS T2.1 List of Returnable Documents T2.2 Returnable Schedules and Certificates T2.3 Returnable Schedules Required for Evaluation of Tender Offers</p> <p>PART C1 AGREEMENT AND CONTRACT DATA C1.1 Form of Offer and Acceptance C1.2 Contract Data</p> <p>PART C2 PRICING DATA C2.1 Pricing Assumptions C2.2 Pricing Schedule</p> <p>PART C3 SCOPE OF WORK</p>
F.2.1	Only those tenderers who satisfy the Criteria as specified in the Tender Notice and Invitation to Tender are eligible to submit tenders and will be considered responsive.
F.2.7	A compulsory clarification meeting will take place at the time and venue as advertised. (see T1.1 TENDER NOTICE AND INVITATION TO TENDER)
F.2.10.3	Rates and prices are fixed for the first year of the contract and subjected to annual adjustment thereafter. Rates and prices shall be provided in the current (first) year.
F.2.13.3	Only the original tender document shall be submitted - Refer to F.3.18
F.2.13.5	<p>The Employer's address and identification details to be shown on each tender offer package are:</p> <p><u>Address:</u> Department of Roads and Transport, Life Centre Building, 45 Commissioner Street, Johannesburg.</p> <p><u>Identification Details:</u> TENDER for CONTRACT No.: DRT04/02/2026 FOR PAVEMENT SURVEILLANCE MEASUREMENTS OF THE GAUTENG PROVINCIAL ROAD NETWORK FOR THE PERIOD OF 36 MONTHS</p>
F.2.15.1	The closing time for submission of tender offers is as advertised. (See T1.1 TENDER NOTICE AND INVITATION TO TENDER)
F.2.16.1	The tender offer validity period is 90 days (after closing date for tender).
F.2.23	The tenderer is required to submit with their tender all the forms, schedules and certificates listed in T2.1.
F.3.4	The time and location for opening of the tender offers is as advertised. (See T1.1 TENDER NOTICE AND INVITATION TO TENDER)
F.3.5	A two-envelope system will not be followed.
F.3.11	Responsive tenders will be evaluated using Method 2: Functionality, Price and Preference as described in Clause F.3.11.3
F.3.11.3	i. The minimum number of points for Functionality that must be achieved to be regarded as an acceptable tender is 80 .

T1.7

Clause Number	Description / Comment
	ii. Functionality will be evaluated in terms of the evaluation and scoring criteria included in the Tender Advertisement. iii. Tenders that have achieved the minimum qualification score for functionality of 80 will be evaluated further in terms of the 80/20 Preference Point System. iv. The final score or final points will be calculated by adding up the points for price and the points for preference, i.e.: $F_S = P_s + P_P$ Where: F_S = Final Points P_s = Points for Price P_P = Preference Points
F.3.11.3 (4)(b)	Points will be awarded to a tenderer based on its Specific Goal in accordance <i>with Preferential Procurement Regulations of 2022: See T1.1 TENDER NOTICE AND INVITATION TO TENDER</i>)
F.3.13	Add the following requirements to the list: g) The tenderer or any of its directors is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector; h) The tenderer has not abused the Employer's Supply Chain Management System; and i) The tenderer has not failed to perform any previous contract and has been given a written notice to this effect.
F.3.18	The number of copies of the signed document shall be one.

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T1.3 STANDARD CONDITIONS OF TENDER

(These Standard Conditions of Tender have been reproduced from Annexure F of the CIDB Standard for Uniformity in Construction Procurement, Board Notice 136 in Government Gazette No 38960 of 10 July 2015)

F.1 General

F.1.1 Actions

F.1.1.1 The employer 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 F.2 and F.3, timeously and with integrity, and behave equitably, honestly and transparently, comply with all legal obligations and not engage in anticompetitive practices.

F.1.1.2 The employer and the tenderer and all 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 employer shall declare any conflict of interest to whoever is responsible for overseeing the procurement process 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.

- Note:*
- 1) *A conflict of interest may arise due to a conflict of roles which might provide an incentive for improper acts in some circumstances. A conflict of interest can create an appearance of impropriety that can undermine confidence in the ability of that person to act properly in his or her position even if no improper acts result.*
 - 2) *Conflicts of interest in respect of those engaged in the procurement process include direct, indirect or family interests in the tender or outcome of the procurement process and any personal bias, inclination, obligation, allegiance or loyalty which would in any way affect any decisions taken.*

F.1.1.3 The employer shall not seek and a tenderer shall not submit a tender without having a firm intention and the capacity to proceed with the contract.

F.1.2 Tender Documents

The documents issued by the employer for the purpose of a tender offer are listed in the tender data.

F.1.3 Interpretation

F.1.3.1 The tender data and additional requirements contained in the tender schedules that are included in the returnable documents are deemed to be part of these conditions of tender.

F.1.3.2 These conditions of tender, the tender data and tender schedules which are only required for tender evaluation purposes, shall not form part of any contract arising from the invitation to tender.

F.1.3.3 For the purposes of these conditions of tender, the following definitions apply:

- a) **conflict of interest** means any situation in which:
 - i) someone in a position of trust has competing professional or personal interests which make it difficult to fulfill his or her duties impartially;
 - ii) an individual or organisation is in a position to exploit a professional or official capacity in some way for their personal or corporate benefit; or
 - iii) incompatibility or contradictory interests exist between an employee and the organisation which employs that employee.
- b) **comparative offer** means the price after the factors of a non-firm price and all unconditional discounts it can be utilised to have been taken into consideration;
- c) **corrupt practice** means the offering, giving, receiving or soliciting of anything of value to influence the action of the employer or his staff or agents in the tender process;
- d) **fraudulent practice** means the misrepresentation of the facts in order to influence the tender process or the award of a contract arising from a tender offer to the detriment of the employer, including collusive practices intended to establish prices at artificial levels;
- e) **organization** means a company, firm, enterprise, association or other legal entity, whether incorporated or not, or a public body;
- f) **functionality** means the measurement according to the predetermined norms of a service or commodity designed to be practical and useful, working or operating, taking into account quality, reliability, viability and durability of a service and technical capacity and ability of a tenderer.

F.1.4 Communication and employer's agent

Each communication between the employer and a tenderer shall be to or from the employer's agent only, and in a form that can be readily read, copied and recorded. Communications shall be in the English language. The employer shall not take any responsibility for non-receipt of communications from or by a tenderer. The name and contact details of the employer's agent are stated in the tender data.

F.1.5 Cancellation and Re-Invitation of Tenders

F1.5.1 An organ of state 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.

F1.5.2 The decision to cancel a tender must be published in the CIDB website and in the government Tender Bulletin for the media in which the original tender invitation was advertised.

F.1.6 Procurement procedures

F.1.6.1 General

Unless otherwise stated in the tender data, a contract will, subject to F.3.13, be concluded with the tenderer who in terms of F.3.11 is the highest ranked or the tenderer scoring the highest number of tender evaluation points, as relevant, based on the tender submissions that are received at the closing time for tenders.

F.2 Tenderer's obligations

F.2.1 Eligibility

F.2.1.1 Submit a tender offer only if the tenderer satisfies the criteria stated in the tender data and the tenderer, or any of his principals, is not under any restriction to do business with employer.

F.2.1.2 Notify the employer of any proposed material change in the capabilities or formation of the tendering entity (or both) or any other criteria which formed part of the qualifying requirements used by the employer as the basis in a prior process to invite the tenderer to submit a tender offer and obtain the employer's written approval to do so prior to the closing time for tenders.

F.2.2 Cost of tendering

F.2.2.1 Accept that, unless otherwise stated in the tender data, the employer will not compensate the tenderer 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.

F.2.2.2 The cost of the tender documents charged by the employer shall be limited to the actual cost incurred by the employer for printing the documents. Employers must attempt to make available the tender documents on its website so as not to incur any costs pertaining to the printing of the tender documents.

F.2.3 Check documents

Check the tender documents on receipt for completeness and notify the employer of any discrepancy or omission.

F.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 employer only for the purpose of preparing and submitting a tender offer in response to the invitation.

F.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.

F.2.6 Acknowledge addenda

Acknowledge receipt of addenda to the tender documents, which the employer may issue, and if necessary apply for an extension to the closing time stated in the tender data, in order to take the addenda into account.

F.2.7 Clarification meeting

Attend, where required, a clarification meeting at which tenderers may familiarize themselves with aspects of the proposed work, services or supply and raise questions. Details of the meeting(s) are stated in the tender data.

F.2.8 Seek clarification

Request clarification of the tender documents, if necessary, by notifying the employer at least five working days before the closing time stated in the tender data.

F.2.9 Insurance

Be aware that the extent of insurance to be provided by the employer (if any) might not be for the full cover required in terms of the conditions of contract identified in the contract data. The tenderer is advised to seek qualified advice regarding insurance.

F.2.10 Pricing the tender offer

F.2.10.1 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 tender data.

F.2.10.2 Show VAT payable by the employer separately as an addition to the tendered total of the prices.

F.2.10.3 Provide rates and prices that are fixed for the duration of the contract and not subject to adjustment except as provided for in the conditions of contract identified in the contract data.

F.2.10.4 State the rates and prices in Rand unless instructed otherwise in the tender data. The conditions of contract identified in the contract data may provide for part payment in other currencies.

F.2.11 Alterations to documents

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

F.2.13 Submitting a tender offer

F.2.13.1 Submit one tender offer only, 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 data and described in the scope of works, unless stated otherwise in the tender data.

F.2.13.2 Return all returnable documents to the employer after completing them in their entirety, either electronically (if they were issued in electronic format) or by writing legibly in non-erasable ink.

F.2.13.3 Submit the parts of the tender offer communicated on paper as an original stated in the tender data, with an English translation of any documentation in a language other than English, and the parts communicated electronically in the same format as they were issued by the employer.

F.2.13.4 Sign the original of the tender offer where required in terms of the tender data. The employer will hold all authorized signatories liable on behalf of the tenderer. Signatories for tenderers proposing to contract as joint ventures shall state which of the signatories is the lead partner whom the employer shall hold liable for the purpose of the tender offer.

F.2.13.5 Seal the original of the tender offer as separate packages marking the packages as "ORIGINAL" Each package shall state on the outside the employer's address and identification details stated in the tender data, as well as the tenderer's name and contact address.

F.2.13.7 Seal the original tender offer together in an outer package that states on the outside only the employer's address and identification details as stated in the tender data.

F.2.13.8 Accept that the employer will 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.

F.2.13.9 Accept that tender offers submitted by facsimile or e-mail will be rejected by the employer, unless stated otherwise in the tender data.

F.2.14 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 employer as non-responsive.

F.2.15 Closing time

F.2.15.1 Ensure that the employer receives the tender offer at the address specified in the tender data not later than the closing time stated in the tender data. Accept that proof of posting shall not be accepted as proof of delivery.

F.2.15.2 Accept that, if the employer extends the closing time stated in the tender data for any reason, the requirements of these conditions of tender apply equally to the extended deadline.

F.2.16 Tender offer validity

F.2.16.1 Hold the tender offer(s) valid for acceptance by the employer at any time during the validity period stated in the tender data after the closing time stated in the tender data.

F.2.16.2 If requested by the employer, consider extending the validity period stated in the tender data for an agreed additional period with or without any conditions attached to such extension.

F.2.16.3 Accept that a tender submission that has been submitted to the employer may only be withdrawn or substituted by giving the employer's agent written notice before the closing time for tenders that a tender is to be withdrawn or substituted.

F.2.16.4 Where a tender submission is to be substituted, submit a substitute tender in accordance with the requirements of F.2.13 with the packages clearly marked as "SUBSTITUTE".

F.2.17 Clarification of tender offer after submission

Provide clarification of a tender offer in response to a request to do so from the employer during the evaluation of tender offers. This may include providing a breakdown of rates or prices and correction of arithmetical errors by the adjustment of certain rates or item prices (or both). No change in the competitive position of tenderers or substance of the tender offer is sought, offered, or permitted.

Note: *Sub-clause F.2.17 does not preclude the negotiation of the final terms of the contract with a preferred tenderer following a competitive selection process, should the Employer elect to do so.*

F.2.18 Provide other material

F.2.18.1 Provide, on request by the employer, any other material that has a bearing on the tender offer, the tenderer's commercial position (including notarized joint venture agreements), preferencing arrangements, or samples of materials, considered necessary by the employer for the purpose of a full and fair risk assessment. 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 employer's request, the employer may regard the tender offer as non-responsive.

F.2.18.2 Dispose of samples of materials provided for evaluation by the employer, where required.

F.2.19 Inspections, tests and analysis

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

F.2.20 Submit securities, bonds and policies

If requested, submit for the employer's acceptance before formation of the contract, all securities, bonds, guarantees, policies and certificates of insurance required in terms of the conditions of contract identified in the contract data.

F.2.21 Check final draft

Check the final draft of the contract provided by the employer within the time available for the employer to issue the contract.

F.2.22 Return of other tender documents

If so instructed by the employer, return all retained tender documents within 28 days after the expiry of the validity period stated in the tender data.

F.2.23 Certificates

Include in the tender submission or provide the employer with any certificates as stated in the tender data.

F.3 The employer's undertakings

F.3.1 Respond to requests from the tenderer

F.3.1.1 Unless otherwise stated in the tender Data, respond to a request for clarification received up to five working days before the tender closing time stated in the Tender Data and notify all tenderers who drew procurement documents.

F.3.1.2 Consider any request to make a material change in the capabilities or formation of the tendering entity (or both) or any other criteria which formed part of the qualifying requirements used to prequalify a tenderer to submit a tender offer in terms of a previous procurement process and deny any such request if as a consequence:

- a) an individual firm, or a joint venture as a whole, or any individual member of the joint venture fails to meet any of the collective or individual qualifying requirements;
- b) the new partners to a joint venture were not prequalified in the first instance, either as individual firms or as another joint venture; or
- c) in the opinion of the Employer, acceptance of the material change would compromise the outcome of the prequalification process.

F.3.2 Issue Addenda

If necessary, issue addenda that may amend or amplify the tender documents to each tenderer during the period from the date that tender documents are available until three days before the tender closing time stated in the Tender Data. If, as a result a tenderer applies for an extension to the closing time

stated in the Tender Data, the Employer may grant such extension and, shall then notify all tenderers who drew documents.

F.3.6 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, the final evaluation price and recommendations for the award of a contract, until after the award of the contract to the successful tenderer.

F.3.7 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.

F.3.8 Test for responsiveness

F.3.8.1 Determine, after opening and before detailed evaluation, 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.

F.3.8.2 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 Employer's opinion, would:

- a) detrimentally affect the scope, quality, or performance of the works, services or supply identified in the Scope of Work,
- b) significantly change the Employer'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 the non-conforming deviation or reservation.

F.3.9 Arithmetical errors, omissions and discrepancies

F.3.9.1 Check the highest ranked tender or tenderer with the highest number of tender evaluation points after the evaluation of tender offers in accordance with F.3.11 for:

- a) the gross misplacement of the decimal point in any unit rate;
- b) omissions made in completing the pricing schedule or bills of quantities; or
- c) arithmetic errors in:
 - i) line item totals resulting from the product of a unit rate and a quantity in bills of quantities or schedules of prices; or
 - ii) the summation of the prices.

F3.9.2 The employer 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 bills of quantities or 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 quoted 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 bills of quantities 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.

F.3.10 Clarification of a tender offer

Obtain clarification from a tenderer on any matter that could give rise to ambiguity in a contract arising from the tender offer.

F.3.11 Evaluation of tender offers

F.3.11.3 Method 2: Functionality, Price and Preference

In the case of a functionality, price and preference:

- 1) Score functionality, rejecting all tender offers that fail to achieve the minimum number of points for functionality as stated in the Tender Data.
 - 2) No tender must be regarded as an acceptable tender if it fails to achieve the minimum qualifying score for functionality as indicated in the tender invitation.
 - 3) Tenders that have achieved the minimum qualification score for functionality must be evaluated further in terms of the preference points system prescribed in paragraphs 4.
 - 4) In terms of Preferential Procurement Regulation 2022, the Department will be applying the 80/20 preference point system, which is applicable to bids with a Rand value equal to, or above R30 000 and up to a Rand value of R50 million (all applicable taxes included), shall be applied, where a maximum of 80 points will be allocated for price and maximum of 20 will be allocated for the Specific Goals specified in this tender.
- 4(a) The following formula must be used to calculate the points for price in respect of tenders (including price quotation) with a rand value equal to, or above R30 000 and up to a Rand value of R50 million (all applicable taxes included):

$$P_s = 80 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

Where

P_s = Points scored for comparative price of tender or offer under consideration;

P_t = Comparative price of tender or offer under consideration; and

P_{min} = Comparative price of lowest acceptable tender or offer.

F.3.11.6 Decimal places

Score price, preference and functionality, as relevant, to two decimal places.

F.3.11.8 Scoring preferences

Confirm that tenderers are eligible for the preferences claimed in accordance with the provisions of the tender data and reject all claims for preferences where tenderers are not eligible for such preferences. Calculate the total number of tender evaluation points for preferences claimed in accordance with the provisions of the tender data.

F.3.11.9 Scoring functionality

Score each of the criteria and sub criteria for quality in accordance with the provisions of the Tender Data.

F.3.12 Insurance provided by the employer

If requested by the proposed successful tenderer, submit for the tenderer's information the policies and/or certificates of insurance which the conditions of contract identified in the contract data, require the employer to provide.

F.3.13 Acceptance of tender offer

Accept the tender offer, if in the opinion of the employer, it does not present any risk and only if the tenderer:

- a) is not under restrictions, or has principals who are under restrictions, preventing participating in the employer's procurement,
- b) can, as necessary and in relation to the proposed contract, demonstrate that he or she possesses the professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, experience and reputation, expertise and the personnel, to perform the contract,
- c) has the legal capacity to enter into the contract,
- d) is not insolvent, in receivership, under Business Rescue as provided for in chapter 6 of the Companies Act, 2008, bankrupt or being wound up, has his affairs administered by a court or a judicial officer, has suspended his business activities, or is subject to legal proceedings in respect of any of the foregoing,
- e) complies with the legal requirements, if any, stated in the tender data, and
- f) is able, in the opinion of the employer, to perform the contract free of conflicts of interest.

F.3.14 Prepare contract documents

F.3.14.1 If necessary, revise documents that shall form part of the contract and that were issued by the employer as part of the tender documents to take account of:

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

F.3.14.2 Complete the schedule of deviations attached to the form of offer and acceptance, if any.

F.3.15 Complete adjudicator's contract

Unless alternative arrangements have been agreed or otherwise provided for in the contract, arrange for both parties to complete formalities for appointing the selected adjudicator at the same time as the main contract is signed.

F.3.16 Notice to unsuccessful tenderers

F.3.16.1 Notify the successful tenderer of the employer's acceptance of his tender offer by completing and returning one copy of the form of offer and acceptance before the expiry of the validity period stated in the tender data, or agreed additional period.

F.3.16.2 After the successful tenderer has been notified of the employer's acceptance of the tender, notify other tenderers that their tender offers have not been accepted.

F.3.17 Provide copies of the contracts

Provide to the successful tenderer the number of copies stated in the Tender Data of the signed copy of the contract as soon as possible after completion and signing of the form of offer and acceptance.

F.3.18 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.

F3.19 Transparency in the procurement process

F3.19.1 The cidb prescripts require that tenders must be advertised and be registered on the cidb i.Tender system.



TENDER for CONTRACT No.: DRT04/02/2026
FOR
PAVEMENT SURVEILLANCE MEASUREMENTS OF THE GAUTENG PROVINCIAL
ROAD NETWORK FOR THE PERIOD OF 36 MONTHS

PART T2: RETURNABLE DOCUMENTS

T.2.1 LIST OF RETURNABLE DOCUMENTS

This form has been included as an aid to ensure a tenderer's compliance with the completion of the returnable schedules and the inclusion of the required certificates.

DOCUMENT NO	SCHEDULE/CERTIFICATE DESCRIPTION	REQUIRED ACTION	TICK IF DONE
T2.2	RETURNABLE SCHEDULES AND CERTIFICATES		
T2.2-A	Certificate of Authority for Signature	Complete	
T2.2-B	Certificate of Good Standing from Compensation Commissioner	Attach	
T2.2-C	Bank Details	Complete / Attach	
T2.2-D	Tax Compliance Requirements	Attach	
T2.2-E	SBD 1 Invitation To Bid	Complete	
T2.2-F	SBD 4: Bidder's Disclosure	Complete	
T2.2-G	Tenderer's B-BBEE Verification Certificate SBD 6.1: Preference Points Claim Form In Terms Of The Preferential Procurement Regulations 2022	Complete	
T2.2-H	B-BBEE Status Level Certificate or Sworn Affidavit	Attach	
T2.2-I	Company Registration Documents	Attach	
T2.2-J	ID documents of the principals of the business	Attach	
T2.2-K	Proof of Registration on the National Centralised Supplier Database (CSD)	Attach	
T2.2-L	Record of Addenda to Tender Documents	Complete	
T2.2-M	Compulsory Enterprise questionnaire	Complete	
T2.3	RETURNABLE SCHEDULES REQUIRED FOR EVALUATION OF TENDER OFFERS		
T2.3-A	Organisation and Staffing	Complete	
T2.3-B1	Qualifications and Relevant Experience of the Profile & Deflection Measurements Project Manager / Quality Control Manager (One Person)	Complete/ Attach	
T2.3-C1	Profile Measurement Equipment Operator: CV and Network Level Experience Summary Form T2.3-C1: Profile Operator Network Level Experience Summary Form	Complete/ Attach	
T2.3-C2	FWD Equipment Operator: CV and Network Level Experience Summary	Complete/ Attach	

T2.2

DOCUMENT NO	SCHEDULE/CERTIFICATE DESCRIPTION	REQUIRED ACTION	TICK IF DONE
	Form T2.3-C2: Fwd Operator Network Level Experience Summary Form		
T2.3-D1	Data Processor for Network Level Profile and FWD Data: CV and Network Level Experience Summary Form T2.3-D1: Data Processor Network Level Experience Summary Form	Complete/ Attach	
T2.3-E1	Equipment Specifications	Complete/ Attach	
T2.3-E2	Equipment Calibration, Validation and Certification	Complete/ Attach	
T2.3-E3	Proof of Possession Form T2.3-E3a: Proof of Possession of Profile Measurement and FWD Equipment	Complete/ Attach	
T2.3-F	Draft Health and Safety Plans	Attach	
T2.3-G	Draft Quality Control Plan	Attach	



**TENDER for CONTRACT No.: DRT04/02/2026
FOR
PAVEMENT SURVEILLANCE MEASUREMENTS OF THE GAUTENG PROVINCIAL
ROAD NETWORK FOR THE PERIOD OF 36 MONTHS**

T2.2 RETURNABLE SCHEDULES AND CERTIFICATES

T2.2-A FORM A: CERTIFICATE OF AUTHORITY FOR SIGNATURE

FIRM

1.1 A "Certificate of Authority" to sign all documents in connection with this Tender and any contract or agreement which may arise there from, duly signed and dated, shall be provided by the Principals of the firm and shall be attached to this page. An example is given below.

JOINT VENTURE

2.1 The document of formation of the Joint Venture shall be attached to this page.

2.2 A "Certificate of Authority" to sign all documents in connection with this Tender and any contract or agreement which may arise there from, duly signed and dated, shall be provided by the Principals of each member of the Joint Venture and shall be attached to this page.

EXAMPLES OF A CERTIFICATE OF AUTHORITY FOR SIGNATORY

"By resolution of the Board of Directors passed at a meeting held on

Mr/Ms....., whose signature appears below, has been duly authorised to sign all documents in connection with the Tender for Contract No.: DRT..... and any contract which may arise there from on behalf of:

.....
(Name of company or JV - block capitals)

SIGNED ON BEHALF OF THE COMPANY/JOINT VENTURE BY:

IN HIS/HER CAPACITY AS:

DATE:

SIGNATURE OF SIGNATORY:

WITNESSES: 1.

2.

T2.2-B: CERTIFICATE OF GOOD STANDING FROM COMPENSATION COMMISSIONER

The Tenderer shall attach to this page an original non-expired Certificate of Good Standing from the Compensation Commissioner.

In the case of a joint venture or consortium, each party shall provide its Certificate of Good Standing.

Similarly, each party shall provide its Compensation Fund Number below.

If the required information is not provided, then the Tender may be deemed to be non-responsive and therefore rejected.

Firm: Compensation Fund No:

Firm: Compensation Fund No:

Firm: Compensation Fund No:

SIGNED ON BEHALF OF THE TENDERER:

T2.2-C: BANK DETAILS

The Tenderer shall provide details of its banker and auditing accountant below.

Bank Details –

Bank Name:

Address:

Account Number:

Contact Person:

Tel No.:

Fax No.:

Auditor Details –

Firm Name:

Address:

Contact Person:

Tel No.:

Fax No.:

TENDERERS SHALL SUBMIT A BANK RATING CERTIFICATE/LETTER FOR THE BANK ACCOUNT LISTED ABOVE.

SIGNED ON BEHALF OF THE TENDERER:

T2.2-D: TAX COMPLIANCE REQUIREMENTS

1. Tenderers must ensure compliance with their tax obligations.
2. Tenderers are required to submit their unique personal identification number (PIN) issued by SARS to enable the Gauteng Department of Roads and Transport to view the taxpayer's profile and tax status.
3. Application for tax compliance status (TCS) or PIN may also be made via e-Filing. In order to use this provision, taxpayers will need to register with SARS as e-Fileers through the website www.sars.gov.za.
4. Tenderers may also submit a printed Tax Compliance Status certificate together with the tender.
5. Where no TCS is available, but the tenderer is registered on the Central Supplier Database (CSD), a CSD number must be provided.
6. In tenders where consortia/joint ventures/sub-contractors are involved, each party must submit a separate proof of TCS/PIN/CSD number.

If the Tenderer wants to provide a Tax Compliance Status certificate, it must be attached to this page. Where consortia/joint ventures/sub-contractors are involved, the Tax Compliance Status certificate for each of the other parties involved that wants to submit a TCS certificate, must also be attached to this page.

Where the Tenderer does not provide a TCS certificate, the Tenderer must provide its Tax Compliance Status personal identification number (PIN) and where consortia/joint ventures/sub-contractors are involved, the Tax Compliance Status PIN for each of the other parties involved:

Firm: TCS PIN:

Firm: TCS PIN:

Firm: TCS PIN:

PART A
INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE (NAME OF DEPARTMENT/ PUBLIC ENTITY)					
BID NUMBER:	DRT04/02/2026	CLOSING DATE:	27 March 2026	CLOSING TIME:	11:00 AM
DESCRIPTION	PAVEMENT SURVEILLANCE MEASUREMENTS OF THE GAUTENG PROVINCIAL ROAD NETWORK FOR THE PERIOD OF 36 MONTHS				
BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED AT (STREET ADDRESS)					
Gauteng Department of Roads and Transport.					
45 Commissioner Street, Johannesburg. Life Centre Building, Ground floor.					
BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO			TECHNICAL ENQUIRIES MAY BE DIRECTED TO:		
CONTACT PERSON	SCM Admin		CONTACT PERSON	SCM Admin	
TELEPHONE NUMBER			TELEPHONE NUMBER		
FACSIMILE NUMBER			FACSIMILE NUMBER		
E-MAIL ADDRESS	SCMBIDADMIN.SCMBIDADMIN@gauteng.gov.za		E-MAIL ADDRESS	SCMBIDADMIN.SCMBIDADMIN@gauteng.gov.za	
SUPPLIER INFORMATION					
NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
FACSIMILE NUMBER	CODE		NUMBER		
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No:	MAAA
ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]		ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]	
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS					
IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?				<input type="checkbox"/> YES <input type="checkbox"/> NO	
DOES THE ENTITY HAVE A BRANCH IN THE RSA?				<input type="checkbox"/> YES <input type="checkbox"/> NO	

- DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA? YES NO
- DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA? YES NO
- IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION? YES NO

IF THE ANSWER IS “NO” TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.

**PART B
TERMS AND CONDITIONS FOR BIDDING**

1. BID SUBMISSION:

- 1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
- 1.2. **ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED (NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.**
- 1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
- 1.4. **THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).**

2. TAX COMPLIANCE REQUIREMENTS

- 2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
- 2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER’S PROFILE AND TAX STATUS.
- 2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
- 2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
- 2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
- 2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
- 2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE.”

NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.

SIGNATURE OF BIDDER:

.....

CAPACITY UNDER WHICH THIS BID IS SIGNED:

.....

(Proof of authority must be submitted e.g. company resolution)

DATE:

T2.2-F

SBD 4
BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. BIDDER'S DECLARATION

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest¹ in the enterprise, employed by the state? **YES/NO**

2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of State institution

¹ the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

2.2.1 If so, furnish particulars:

.....
.....

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract?

YES/NO

2.3.1 If so, furnish particulars:

.....
.....

3 DECLARATION

I, the undersigned, (name)..... in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

3.1 I have read and I understand the contents of this disclosure;

3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;

- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium² will not be construed as collusive bidding.

- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

- 3.5 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.

- 3.6 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature	Date
.....
Position	Name of bidder

² 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.

T2.2-G

Tenderer's B-BBEE Verification Certificate

Notes to tenderer:

1. The tenderer shall attach to this form a B-BBEE verification certificate in accordance with the Construction Sector Codes of Practice promulgated in Gazette 32305 on 5 June 2009 (see F.3.11.8 of the tender data).
2. In the event of a joint venture (JV), a consolidated B-BBEE verification certificate in the name of the JV shall be attached.
3. The attached verification certificate and the associated assessment report shall identify:
 - (a) The name and domicilium citandi et executandi of the tenderer.
 - (b) The registration and VAT number of the tenderer.
 - (c) The dates of granting of the B-BBEE score and the period of validity.
 - (d) The expiry date of the verification certificate.
 - (e) A unique identification number.
 - (f) The standard and/or normative document, including the issue and/or revision used to evaluate the tenderer.
 - (g) The name and/or mark/logo of the B-BBEE verification agency or registered auditor.
 - (h) The category (Generic, QSE, Exempt) in which the tenderer has been measured.
 - (i) The B-BBEE status level.
 - (j) The South African National Accreditation System (SANAS) logo on the verification certificate once verification agencies have been accredited.
 - (k) The B-BBEE procurement recognition level.
 - (l) The score achieved per B-BBEE element.
 - (m) The % black shareholding.
 - (n) The % black women shareholding.
 - (o) The % black persons with disabilities
 - (p) The value added status of the tenderer.
4. The Employer will not be responsible to acquire data that it needs for its own reporting systems and which may not form part of a verification agency's standard certificate format. The tenderer, at its own cost, must acquire any missing specified data listed in 3 above from its selected verification agency or registered auditor and have it recorded on the certificate. Alternatively, such missing data must be supplied separately, but certified as correct by the same verification agency or registered auditor and also attached to this form. Failure to abide by this requirement will result in such tenderer scoring zero preference.

**SBD 6.1**

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

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

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

1. GENERAL CONDITIONS

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

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 To be completed by the organ of state

(Delete whichever is not applicable for this tender).

- a) The applicable preference point system for this tender is the 90/10 preference point system.
- b) The applicable preference point system for this tender is the 80/20 preference point system.
- c) Either the 90/10 or 80/20 preference point system will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- (a) Price; and
- (b) Specific Goals.

1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

AREA POINTS	POINTS (80/20)	POINTS (90/10)
Price	80	90
Preference Point – Specific Goals	20	10
Total points for Price and Preference Points	100	100

1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this

tender to claim points for specific goals with the tender, will be interpreted to mean that preference points for specific goals are not claimed.

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

2. DEFINITIONS

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

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

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

$$\begin{array}{ccc}
 \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\
 P_s = 80 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right) & \mathbf{or} & P_s = 90 \left(1 - \frac{P_t - P_{min}}{P_{min}} \right)
 \end{array}$$

Where

P_s = Points scored for price of tender under consideration

P_t = Price of tender under consideration

P_{min} = Price of lowest acceptable tender

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

3.2.1. POINTS AWARDED FOR PRICE

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

$$\begin{array}{ccc}
 \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\
 P_s = 80 \left(1 + \frac{P_t - P_{max}}{P_{max}} \right) & \mathbf{or} & P_s = 90 \left(1 + \frac{P_t - P_{max}}{P_{max}} \right)
 \end{array}$$

Where

- Ps = Points scored for price of tender under consideration
 Pt = Price of tender under consideration
 Pmax = Price of highest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
- (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
 - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,
- then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

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

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

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

The specific goals allocated points in terms of this tender	Number of points allocated (80/20 system) (To be completed by the organ of state)	Number of points claimed (80/20 system) (To be completed by the tenderer)
HDI	3	
WOMEN	6	
YOUTH	5	
DISABILITY	4	
LOCALITY	2	

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm.....

4.4. Company registration number:

4.5. TYPE OF COMPANY/ FIRM

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

[TICK APPLICABLE BOX]

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

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
 - (a) disqualify the person from the tendering process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution, if deemed necessary.

.....
SIGNATURE(S) OF TENDERER(S)

SURNAME AND NAME:

DATE:

ADDRESS:



INTEGRITY PACT FOR BUSINESSES

FIGHTING CORRUPTION, PROMOTING INTEGRITY

1. INTRODUCTION

This agreement is part of the tender document, which shall be signed and submitted along with the tender document. The Chief Executive Officer of the bidding company or his/her authorised representative shall sign the integrity pact. If the winning bidder has not signed this integrity pact during the submission of the bid, the tender/proposal shall be disqualified.

2. OBJECTIVES

Now, therefore, the Gauteng Provincial Government and the Bidder agree to enter into this pre-contract agreement, hereinafter referred to as an integrity pact, to avoid all forms of corruption by following a system that is fair, transparent, and free from any influence/unprejudiced dealings before, during and after the currency of the contract to be entered, with a view to:

- 2.1 Enable the Gauteng Provincial Government to obtain the desired contract at a reasonable and competitive price in conformity to the defined specifications of the works, goods and services; and
- 2.2 Enable bidders to abstain from bribing or any corrupt practice to secure the contract by assuring them that their competitors will refrain from bribing and other corrupt practices and the Gauteng Provincial Government will commit to preventing corruption, in any form by their officials by following transparent procedures.

3. GOVERNANCE

- 3.1 The integrity pact seeks to ensure that both parties comply with all applicable provincial, national, continental, and international laws and regulations regarding fair competition and anti-corruption.

4. ENVIRONMENT

- 4.1 The integrity pact requires that both parties comply with all applicable environmental, health, and safety regulations.

5. PROTECTION OF INFORMATION

- 5.1 The integrity pact seeks to ensure that both parties undertake to protect the confidentiality of information. Each party, when given access to confidential information as part of the business relationship, should not share this information with anyone unless authorised.

6. REPUTATION

- 6.1 The Gauteng Provincial Government wants to work with bidders who are proud of their reputation for fair dealing and quality delivery.
- 6.2 The Gauteng Provincial Government wants to ensure that working with government is reputation enhancing for the supplier.
- 6.3 The Gauteng Provincial Government expects bidders/suppliers to be protective of government's reputation, and ensure that neither they, nor any of their partners or subcontractors, bring government to disrepute by engaging in any act or omission which is reasonably likely to diminish the trust that the public places in government.
- 6.4 The Gauteng Provincial Government further requires its bidders/suppliers to always adhere to ethical conduct even outside their contractual obligation with the Gauteng Provincial Government.

7. VALUES OF THE GAUTENG PROVINCIAL GOVERNMENT

- 7.1 The value system of the Gauteng City Region is shown below:

GAUTENG CITY REGION VALUES SYSTEM	
CORE VALUES	ETHICAL VALUES
Patriotism	Integrity
Purposefulness	Accountability
Team focused	Dignity
Integrity	Transparency
Accountability	Respect
Passionate	Honesty
Activism	

- 7.2 The Gauteng Provincial Government commits to ensure that the values system is embedded into the day-to-day operations of its institutions.

8. COMMITMENTS OF THE GAUTENG PROVINCIAL GOVERNMENT

The Gauteng Provincial Government commits itself to the following:

- 8.1 The GPG commits that its officials will at all times conduct themselves in accordance with Treasury Regulations 16A.81, copy of which is attached marked Annexure A, and that:
- 8.1.1 The GPG is committed to doing business with integrity and proper regard for ethical business practices.
- 8.1.2 The GPG hereby undertakes that no official of the GPG, connected directly or indirectly with the contract will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour, or any material or immaterial benefit or any other advantage from the bidder, either for themselves or for any person, organisation or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.
- 8.1.3 The GPG further confirms that its officials have not favoured any prospective bidder in any form that could afford an undue advantage to that bidder during the tendering stage and will further treat all bidders alike.

8.1.4 The GPG will during the tender process treat all Bidder(s) with equity.

8.1.5 All officials of the GPG shall report any attempted or completed violation of clauses to the following details:

	Gauteng Ethics Hotline	National Anti-Corruption Hotline
Toll-free number	080 1111 633	0800 701 701
SMS call-back	49017	N/A
E-mail	gpethics@behonest.co.za	nach@psc.gov.za
Fax	086 726 1681	0800 204 965
Website	www.thehotline.co.za	www.publicservicecorruptionhotline.org.za
Post	Chief Directorate: Integrity Management Private Bag X61 Marshalltown 2001	Public Service Commission Private X121 Pretoria 0001
Walk-in	Office of the Premier 55 Marshall Street Marshalltown Johannesburg 2001	Gauteng Provincial Office Public Service Commission Schreiner Chambers 6 th Floor 94 Pritchard Street Johannesburg

8.1.6 Following the report on the violation of the above clauses by the official(s), through any source, the GPG shall investigate allegations of such violations against the official or other role players and when justified:

- a) Take steps against such official and other role players (necessary disciplinary proceedings, and/or any other action as deemed fit, bar such officials from further dealings related to the contract process). In such a case, while an enquiry is being conducted by the Gauteng Provincial Government, the proceedings under the contract would not be stalled.
- b) Inform the relevant Treasury of steps taken in 8.1.5(a) against such officials; and
- c) Report any conduct by such official and other role players that may constitute an offence to the South African Police Service.

9. COMMITMENTS OF THE BIDDERS

The bidder commits himself/herself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of his/her bid or during any pre-contract or post contract stage to secure the contract or in furtherance to secure it and commits himself/herself to the following:

- 9.1 The bidder is committed to doing business with integrity and proper regard for ethical business practices.
- 9.2 The bidder will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducements to any official of the Gauteng Provincial Government, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.

- 9.3 The bidder further undertakes that he/she has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducements to an official of the Gauteng Provincial Government or otherwise in procuring the contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the Gauteng Provincial Government for showing or forbearing to show favour or disfavor to any person in relation to the contract or any other contract with the Gauteng Provincial Government.
- 9.4 The bidder will not collude with other parties interested in the contract to preclude the competitive bid price, impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 9.5 The Bidder(s)/Contractor(s) will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- 9.6 The Bidder(s)/Contractor(s) will, when presenting his / her bid, disclose any and all payments he /she has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
- 9.7 In case of sub–contracting, the Principal Contractor shall take the responsibility of adoption of Integrity Pact by the Sub-Contractor.
- 9.8 The bidder shall report any attempted or completed violation of clauses 9.1 to 9.7 including any alleged unethical conduct to the Gauteng Ethics Hotline (details are provided at clause 8.1.4).
- 9.9 The bidder (or anyone acting on its behalf) warrants that:
- 9.9.1 It has not been convicted by a court of law for fraud and/or corruption with respect to the procurement/tendering processes; and/or
- 9.9.2 It has not been convicted by a court of law for theft or extortion; and/or
- 9.9.3 It is not listed on the National Treasury’s database of Restricted Suppliers or Register of Tender Defaulters.

10. SANCTIONS FOR VIOLATION

- 10.1 The breach of any aforesaid provisions or providing false information by employers, including manipulation of information by evaluators, shall face administrative charges and penal actions as per the existing relevant rules and laws.
- 10.2 The breach of the Pact or providing false information by the Bidder, or anyone employed by him, or acting on his behalf (whether without the knowledge of the (Bidder), or acting on his/her behalf, shall be dealt with as per the provisions of the Prevention and Combating of Corrupt Activities Act (12 of 2004).
- 10.3 The Gauteng Provincial Government shall also take all or any one of the following actions, wherever required:
- To immediately call off the pre-contract negotiations without giving any compensation to the bidder. However, the proceedings with the other bidder(s) would continue.
 - To immediately cancel the contract, if already awarded/signed, without giving any compensation to the bidder.
 - To recover all sums already paid by the Gauteng Provincial Government.

- To cancel all or any other contracts with the bidders and GPG shall be entitled to demand and recover from the Contractor liquidated damages of the Contract value.
- To submit the details of the bidder to the National Treasury to register on the database for tender defaulters.

11. CONFLICT OF INTEREST

- 11.1 A conflict of interest involves a conflict between the public duty and private interest (for favor or vengeance) of a public official, in which the public official has private interest which could improperly influence the performance of their official duties and responsibilities. Conflicts of interest would arise in a situation when any concerned members of both parties are related either directly or indirectly or has any association or had any confrontation. Thus, conflict of interest of any tender committee must be declared in a prescribed form.
- 11.2 The bidder shall not lend or borrow any money from or enter any monetary dealings or transactions, directly or indirectly, with any member of the tender committee or officials of the Gauteng Provincial Government, and if he/she does so, the Gauteng Provincial Government shall be entitled forthwith to rescind the contract and all other contracts with the bidder.

12. LEGAL ACTIONS

- 12.1 The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

13. VALIDITY

- 13.1 The validity of this Integrity Pact shall cover the tender process and extend until the completion of the contract to the satisfaction of both the Gauteng Provincial Government and the bidder (service provider).
- 13.2 Should one or several provisions of the Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

GPG INTEGRITY PACT FOR BUSINESSES

BIDDER/SUPPLIER/SERVICE PROVIDER	
Signature of the CEO	
Full name of the CEO	
Tender number	
Date	

T2.2-H B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE OR SWORN AFFIDAVIT

An original or certified copy of a valid B-BBEE Status Level Verification or Sworn Affidavit to substantiate the Tenderer's Specific Goals claim must be attached to this page.

T2.2-I COMPANY REGISTRATION DOCUMENTS

Company Registration Documents from the Company Intellectual Property Commission (CIPC) must be attached to this page.

T2.2-J ID DOCUMENTS OF THE PRINCIPALS OF THE BUSINESS

Certified copies of the ID documents of the principals of the business must be attached to this page.
The Principles of the business are as follows:

Form of Business	Principals
Company	The Directors of the company
Close Corporation	The key Members upon whom rests the direction of the affairs of the Close Corporation as a whole
Partnership	The key Partners upon whom rests the direction of the affairs of the Partnership as a whole
Joint Venture	The key Partners upon whom rests the direction of the affairs of the Joint Venture as a whole
Sole Proprietor	The Sole Owner of the business

Note: The date of certification must be less than 3 months from the date of the tender closure.

**T2.2-K PROOF OF REGISTRATION ON THE NATIONAL CENTRALISED
SUPPLIER DATABASE (CSD)**

Only suppliers who are registered on the national Centralised Supplier Database (CSD) will be considered for appointment. Proof of registration on the national CSD must be attached to this page.

T2.2-L 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:

No.	Date	Title or Details
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

.....
Signature

.....
Date

.....
Position

.....
Name of Tenderer

T2.2-M COMPULSORY ENTERPRISE QUESTIONNAIRE

The following particulars must be furnished. In the case of a joint venture, separate enterprise questionnaires in respect of each partner must be completed and submitted.		
Section 1: Name of enterprise:		
Section 2: VAT registration number, if any:		
Section 3: CIDB registration number, if any:		
Section 4: Particulars of sole proprietors and partners in partnerships		
Name*	Identity number*	Personal income tax number*
* Complete only if sole proprietor or partnership and attach separate page if more than 3 partners		
Section 5: Particulars of companies and close corporations		
Company registration number		
Close corporation number		
Tax reference number		
Section 6: The attached SBD1 must be completed for each tender and be attached as a tender requirement.		
Section 7: The attached SBD 4 must be completed for each tender and be attached as a requirement.		
Section 8: The attached SBD6.1 must be completed for each tender and be attached as a requirement.		
The undersigned, who warrants that he / she is duly authorised to do so on behalf of the enterprise:		
i) authorizes the Employer to obtain a tax clearance certificate from the South African Revenue Services that my / our tax matters are in order;		
ii) confirms that the neither the name of the enterprise or the name of any partner, manager, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act of 2004;		
iii) confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears, has within the last five years been convicted of fraud or corruption;		
iv) confirms that I / we are not associated, linked or involved with any other tendering entities submitting tender offers and have no other relationship with any of the tenderers or those responsible for compiling the scope of work that could cause or be interpreted as a conflict of interest; and		
iv) confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.		

Signed Date

 Name Position

*Enterprise
name*



**TENDER for CONTRACT No.: DRT04/02/2026
FOR
PAVEMENT SURVEILLANCE MEASUREMENTS OF THE GAUTENG PROVINCIAL
ROAD NETWORK FOR THE PERIOD OF 36 MONTHS**

T2.3 RETURNABLE SCHEDULES REQUIRED FOR EVALUATION OF TENDER OFFERS

T2.3-A: ORGANIZATION AND STAFFING

Tenderers shall provide a project organization chart and staffing plan, showing the technical level and composition of the project staff. The organization chart must indicate the key personnel that will be engaged on the project and the support staff.

The required key personnel are at least the following:

Paved Roads Profile Measurements and Falling Weight Deflection Measurements:

- *Project / Quality Control Manager*
- Equipment Operator: Profile measurement equipment
- Equipment Operator: FWD measurement equipment
- Data Processor of Profile and FWD data

Details of staff in *Italics* shall be provided in T2.3-B1. Details of other staff shall be provided in T2.3-C1 and T2.3-C2 (CVs and Experience Summaries of Equipment Operators) and T2.3-D1 (CV and Experience Summary of Data Processor).

**T2.3-B1: QUALIFICATIONS AND RELEVANT EXPERIENCE OF THE PROFILE & DEFLECTION MEASUREMENTS
PROJECT MANAGER / QUALITY CONTROL MANAGER (ONE PERSON)**

Name	Date of Birth	Position in team (Note 1)

PROFESSIONAL REGISTRATION AND QUALIFICATIONS

- *Certified copies of professional registration and qualifications must be attached to the tender.*

Registration with professional bodies		Qualifications	
Professional registration body		Description of qualification	
Level of registration		Institution	
Registration number		Date obtained	
Date of registration		NQF Level	

RELEVANT EXPERIENCE

- *List only the projects completed in the last years that the tenderer considers relevant to the specified scope of works.*
- *Form to be completed by the candidate for the designated position in team.*
- *Tenderers to add additional copies of this form as necessary to their tender submissions.*

Client & Project No	Project Description	Relevant Experience started	Relevant Experience ended	Value	Position Held	Contact Person and position	Contact No.

Client & Project No	Project Description	Relevant Experience started	Relevant Experience ended	Value	Position Held	Contact Person and position	Contact No.

Comments: _____

I confirm by my signature hereto that the information provided herein is true, that the positions occupied, the projects reported and the corresponding responsibilities are truly my own experiences.

DATE AND SIGNATURE BY PROFILE AND DEFLECTIONS PROJECT AND QUALITY CONTROL MANAGER:

SIGNED BY TENDERER:

T2.3-C1 PROFILE MEASUREMENT EQUIPMENT OPERATOR: CV AND NETWORK LEVEL EXPERIENCE SUMMARY

Tenderers must provide proof of experience of the Profile Equipment Operator in the last 10 years in the form "Profile Operator Network Level Experience Summary" which is included hereafter for this purpose. The name of the previous roads authorities for whom Profile Measurements were done, contact details (names and telephone numbers), the length of road measured by the specific Operator for every previous assignment and dates of each assignment must be provided as part of the tender.

Should the Contractor use a different operator for the Profile Measurement without informing the Employer in writing, the Contract will be terminated forthwith and the Contractor will forfeit all further rights in terms of the Contract as from the date of such termination. The Contractor will only be entitled to payment based on the tendered rates for work done up to the date on which he started using unapproved personnel, and will thereafter not be considered for any future work. Establishing the date on which the Contractor started using the unapproved staff will be up to the Employer only, with no recourse for the Contractor to object or raise any legal concerns.

In the CV that is required in respect of the Equipment Operator, the following points are of particular importance and the CV shall be structured under the following headings:

- Person's date of birth;
- Person's qualifications (educational);
- Name of current employer and position in enterprise;
- List of previous employers, stating periods of service and telephone numbers;
- Previous Profile Operator experience in terms of network level measurements. Such experience shall be expressed in terms of the length of road measured per assignment by the specific person.

The attached form: "Profile Operator Network Level Experience Summary" shall be a summary of the experience of the proposed Equipment Operator for the last five years only preceding the tender. It should correspond to the Equipment Operator's CV.

FORM T2.3-C1: PROFILE OPERATOR NETWORK LEVEL EXPERIENCE SUMMARY FORM

Name of Company:

Name of Project and Quality Control Manager:

Contact Tel no:

Name of Profile Equipment Operator:

Previous network level profile measurement experience for the past ten years is listed below (grouped per Employer)

<i>Name of Roads Authority worked for</i>	<i>Contact Name</i>	<i>Contact Telephone number</i>	<i>Lengths measured by Equipment Operator</i>	<i>Dates of assignments</i>
	Total length			
	Total length			
	Total length			
	Total length			
	Total length			
TOTAL LENGTH OF EXPERIENCE OF EQUIPMENT OPERATOR FOR PAST FIVE YEARS				

This form shall be attached to a CV of the staff member with above experience highlighted.

Signed on behalf of the Tenderer:

T2.3-C2 FWD EQUIPMENT OPERATOR: CV AND NETWORK LEVEL EXPERIENCE SUMMARY

Tenderers must provide proof of experience of the FWD Operator in the last 10 years in the form “FWD Network Level Experience Summary” which is included hereafter for this purpose. The name of the previous roads authorities for whom FWD Measurements were done, contact details (names and telephone numbers), the length of road measured by the specific Operator for every previous assignment and dates of each assignment must be provided as part of the tender.

Should the Contractor use a different operator for the FWD Measurement without informing the Employer in writing, the Contract will be terminated forthwith and the Contractor will forfeit all further rights in terms of the Contract as from the date of such termination. The Contractor will only be entitled to payment based on the tendered rates for work done up to the date on which he started using unapproved personnel, and will thereafter not be considered for any future work. Establishing the date on which the Contractor started using the unapproved staff will be up to the Employer only, with no recourse for the Contractor to object or raise any legal concerns.

In the CV that is required in respect of the Equipment Operator, the following points are of particular importance and the CV shall be structured under the following headings:

- Person's date of birth;
- Person's qualifications (educational);
- Name of current employer and position in enterprise;
- List of previous employers, stating periods of service and telephone numbers;
- Previous FWD Operator experience in terms of network level measurements. Such experience shall be expressed in terms of the length of road measured per assignment by the specific person.

The attached form: “FWD Network Level Experience Summary” shall be a summary of the experience of the proposed Equipment Operator for the last ten years only preceding the tender. It should correspond to the Equipment Operator's CV.

FORM T2.3-C2: FWD OPERATOR NETWORK LEVEL EXPERIENCE SUMMARY FORM

Name of Company:

Name of Project and Quality Control Manager:

Contact Tel no:

Name of FWD Equipment Operator:

Previous network level FWD measurement experience for the past ten years is listed below (grouped per Employer)

<i>Name of Roads Authority worked for</i>	<i>Contact Name</i>	<i>Contact Telephone number</i>	<i>Lengths measured by Equipment Operator</i>	<i>Dates of assignments</i>
	Total length			
	Total length			
	Total length			
	Total length			
	Total length			
TOTAL LENGTH OF EXPERIENCE OF EQUIPMENT OPERATOR FOR PAST FIVE YEARS				

This form shall be attached to a CV of the staff member with above experience highlighted.

Signed on behalf of the Tenderer:

T2.3-D1 DATA PROCESSOR FOR NETWORK LEVEL PROFILE AND FWD DATA: CV AND NETWORK LEVEL EXPERIENCE SUMMARY

Tenderers must provide proof of experience of the Data Processor in the last 10 years in the form “Data Processor Network Level Experience Summary” which is included hereafter for this purpose. The name of the previous roads authorities for whom data processing was done, contact details (names and telephone numbers), the length of road processed by the specific Data Processor for every previous assignment and dates of each assignment must be provided as part of the tender.

In the CV that is required in respect of the Data Processor, the following points are of particular importance and the CV shall be structured under the following headings:

- Person’s date of birth;
- Person’s qualifications (educational);
- Name of current employer and position in enterprise;
- List of previous employers, stating periods of service and telephone numbers;
- Previous Data Processing experience in terms of network level measurements. Such experience shall be expressed in terms of the length of road processed per assignment by the specific person.

The attached form: “Data Processor Network Level Experience Summary” shall be a summary of the experience of the Data Processor for the last ten years only preceding the tender. It should correspond to the Data Processor’s CV.

FORM T2.3-D1: DATA PROCESSOR NETWORK LEVEL EXPERIENCE SUMMARY FORM

Name of Company:

Name of Project and Quality Control Manager:

Contact Tel no:

Name of Data Processor:

Previous network level data processing experience for the past ten years is listed below (grouped per Employer)

<i>Name of Roads Authority worked for</i>	<i>Contact Name</i>	<i>Contact Telephone number</i>	<i>Lengths processed by Data Processor</i>	<i>Dates of assignments</i>
	Total length			
	Total length			
	Total length			
	Total length			
	Total length			
TOTAL LENGTH OF EXPERIENCE OF DATA PROCESSOR FOR PAST FIVE YEARS				

This form shall be attached to a CV of the staff member with above experience highlighted.

Signed on behalf of the Tenderer:

T2.3-E1 EQUIPMENT SPECIFICATIONS

Tenderers shall provide information for both their profilers and deflectometers.

PROFILE MEASUREMENTS

The required device for the survey is a Class 2 high speed profiler, capable of measuring a precision profile of both wheel paths, a transverse profile of the road, and the surface (macro) texture in the left wheel path while moving at speeds of 80 to 100 km/h. At the same time, a right-of-way video shall be taken, while the position of the vehicle is recorded by GPS and the data collected is referenced to a kilometre position on the road by a distance measuring system.

Tenderers shall record details of their profiler equipment specifications in this section.

Tenderers are referred to the Committee of Transport Officials (COTO) publication, TMH13 Automated Road Condition Assessments May 2016 or later, for clarification of terminology or procedures regarding road roughness measurements.

A copy of the above document can be found on the Department of Transport website.

Global Positioning System (GPS)

A GPS shall be used to:

- Verify that the correct road was tested.
- Verify that the correct direction was tested.
- Act as roadmap to identify the correct start and end positions of a road link.
- Act as a validation system to resolve data discrepancies due to the passing of vehicles and in general to verify the wheel path followed.

GPS coordinates shall be collected in addition to location referencing as discussed above. The GPS system shall be validated by plotting the GPS coordinates obtained from each 'Verification Section' on which roughness validation is performed. The location details of these Verification Sections will be agreed with the Tenderers. GPS coordinates shall be submitted together with verification data as well as network profile data.

A summary of the required GPS equipment specifications is provided in Table 1. A column is provided for the Tenderer to supply technical specifications of the GPS he intends to use.

Table 1: GPS Equipment Specification

Description	Minimum specification	Tenderer's specification (to be completed by the Tenderer)
Equipment Type	Differentially corrected GPS	
Resolution (Static)	1 m (horizontal and vertical)	
Sample interval / frequency	10 Hz	
Repeatability (Static)	5 m (horizontal and vertical)	
Operating Temperature Range	0°C to 50°C	

The Tenderer shall describe the method of applying differential correction on the GPS system as part of the Total Contract Quality Plan.

In the case of real time differential correction, the Tenderer shall describe the method used for applying correction when no signal is received.

The Tenderer shall also describe the inertial system for use when no GPS signal is available, and shall indicate what satellite network will be used for GPS data collection.

Longitudinal profiler

A summary of the required minimum equipment specifications is provided in Table 2. A column is provided for the Tenderer to supply technical specifications of the profiler he intends to use. The Survey Vehicle's Registration Number shall also be entered.

Table 2: Equipment Specifications: Longitudinal Profiler

Description	Minimum specification	Tenderer's specification (to be completed by the Tenderer)
<u>Survey vehicle registration number:</u>		
Equipment Type	Class 2 inertial profilometer	
Method of Measurement	Laser – IMS combination	
Number of Sensors	2 (1 in each wheel path)	
Measurement Speed	80 km/h	
Vertical Resolution	0.05 mm	
Longitudinal Sample Interval	50 mm	
Measuring Range	200 mm	
Repeatability	0.1 mm	
Operating Temperature Range	0°C to 50°C	
Lateral Spacing Between Sensors	1700 to 1800 mm	

The longitudinal profile shall be recorded in both wheel paths of the measured lane. An individual and mean IRI value of both wheel paths of the measured lane shall be reported for every 100 metres.

The profile operator shall aim to drive 600 mm to the left of the centre line of the road. This is required to ensure that the data is collected in the same longitudinal path year after year, irrespective of the position of the rut.

The profiler shall have the capacity to calculate profiles and IRI values during the course of measurement in order for the operator to detect equipment failure during the survey.

The computer screen shall show a graphical display of the measurement of the height sensor and the accelerometer to enable the operator to assess the correct working of these components during the course of the survey.

The Tenderer shall supply a detailed description of the device used for recording longitudinal profiles and shall describe the data collection method and algorithms for the computation of the IRI.

Transverse profiler

The Tenderer shall stipulate the specifications of the transverse profiler in Table 3. A column is provided for the Tenderer to supply technical specifications of the profiler he intends to use.

Table 3: Equipment Specifications: Transverse Profiler

Description	Minimum specification	Tenderer's specification (to be completed by the Tenderer)
Method of Measurement	Laser	
Resolution	0.05 mm	
Longitudinal sample interval	50 mm	
Measuring range	200 mm	
Repeatability	0.1 mm	
Frequency Response	DC to 16 kHz	
Operating Temperature	0°C to 50°C	
Long Term Drift	< 0.3 %	
Number of sensors	≥ 13	
Measurement width	≥ 3.4 m	
Stand-off Distance	≥ 30 mm	
Straight edge length used for rut depth calculation	2 metres	

The individual and mean rut depth of both wheel paths of the measured lane shall be reported per 100 m.

The Tenderer shall supply a detailed description of the device used for recording transverse profiles. The Tenderer shall also describe the data collection method and algorithms for the computation of rutting. The Tenderer shall also describe the procedures used to correct transverse profile data when narrow roads, kerbs or narrow bridges result in the outer sensors measuring artificially high values.

Texture profiler

The Tenderer shall stipulate the specifications of the texture profiler in Table 4 below.

Table 4: Equipment Specifications: Texture Profiler

Description	Minimum specification	Tenderer's specification (to be completed by the Tenderer)
Sensor type	Laser	
Number of Sensors	1 (in left wheel path)	
Sensor Measuring Range	0 to 200 mm	
Sensor Accuracy	0.1 mm	
Sensor Repeatability	0.02 mm	
Frequency Response	DC to 32 kHz	
Resolution	0.05 mm	
Operating Temperature	0°C to 50°C	

The Mean Profile Texture Depth (MPD) of the left wheel path shall be reported in intervals of every 100 m.

Distance measuring device

The Tenderer shall stipulate the specifications of the distance measuring device in Table 5 below.

Table 5: Equipment Specifications: Distance Measurement Device

Description	Minimum specification	Tenderer's specification (to be completed by the Tenderer)
Equipment type	Transducer	
Number	1	

Description	Minimum specification	Tenderer's specification (to be completed by the Tenderer)
Accuracy	Better than 0.2%	
Resolution	>1800 pulses per wheel revolution	

Video imaging device

The Tenderer shall stipulate the specifications of the video imaging device in Table 6 below. The purpose of the imaging is to view the full pavement width in front of the vehicle (Right of Way format) and the imaging set-up should correspond with this requirement.

Table 6: Equipment Specifications: Imaging Device

Description	Minimum specification	Tenderer's specification (to be completed by the Tenderer)
Camera type	Progressive scan	
Number of cameras	1	
Image size	Minimum VGA (640 x 480)	
View	RoW	
Field of view	50° to 60°	
Imaging interval	10m	
Compression	Jpeg (90%)	
File size per image	Approx. 50Kb	

DEFLECTION MEASUREMENTS

The required device for the survey is a Falling Weight Deflectometer, with a split or segmented loading plate, with a patterned rubber membrane footing (≥ 5 mm) and 300 mm in diameter. In addition, the system shall be equipped with a thermometer (typical accuracy: $\pm 0.5^\circ\text{C}$), and Distance Measuring Instrument (typical accuracy: $\leq 0.1\%$ of true distance).

Tenderers shall record details of their equipment specifications in this section. Tenderers are referred to the COTO publication, TMH13 Automated Road Condition Assessments, Part F (May 2016) .

A summary of the FWD displacement sensors specification requirements is provided in Table 7. A column is provided for the Tenderer to supply technical specifications of the FWD displacement sensors he intends to use.

Table 7: Displacement Sensors

Parameter	Displacement Sensors	Tenderer's specification (to be completed by the Tenderer)
Component Type	Geophone, accelerometer or equivalent	
Number and positions	9 at off-sets (mm): 0, 200, 300, 450, 600, 900, 1200, 1500, 1800	
Resolution	0.1 μm	
Measuring Range	0 to 2000 μm	
Repeatability	5 μm	

Recorded Resolution	1 μ m	
Frequency Response	DC to 1 kHz	
Temperature Stability	50 ppm/ $^{\circ}$ C	
Operating Temperature	0 $^{\circ}$ C to 50 $^{\circ}$ C	
Long Term Drift	< 0.25%	
Legend: ppm = parts per million		

A summary of the FWD load cell specification requirements is provided in Table 8. A column is provided for the Tenderer to supply technical specifications of the FWD load cell he intends to use.

Table 8: Load Cell

Parameter	Load Cell	Tenderer's specification (to be completed by the Tenderer)
Component Type	Strain Gauged Bridge	
Number and positions	At 0 mm offset	
Resolution	50 N	
Measuring Range	0 to 120 kN	
Repeatability	0.5%	
Recorded Resolution	100 N	
Frequency Response	DC to 1 kHz	
Temperature Stability	50 ppm/ $^{\circ}$ C	
Operating Temperature	0 $^{\circ}$ C to 50 $^{\circ}$ C	
Long Term Drift	<0.25%	
Legend: ppm = parts per million		

A summary of the FWD data acquisition system specification requirements is provided in Table 9. A column is provided for the Tenderer to supply technical specifications of the FWD data acquisition system he intends to use.

Table 9: Data Acquisition System

Parameter	Data Acquisition System	Tenderer's specification (to be completed by the Tenderer)
Component Type	Supply information in required format	
Number and positions	Not applicable	
Resolution	16 Bit	
Measuring Range	> Sensor Output	
Repeatability	\pm 1 LSB	
Recorded Resolution	Not Applicable	
Frequency Response	Sample Rate \geq 100 kHz	
Temperature Stability	25 ppm/ $^{\circ}$ C	
Operating Temperature	0 $^{\circ}$ C to 50 $^{\circ}$ C	
Long Term Drift	<0.02% \pm LSB	
Legend: LSB = Least Significant Bit; ppm = parts per million		

Global Positioning System (GPS)

GPS coordinates should be linked directly to the data. Tenders are to fill in their equipment specifications, in Table 10, against those recommended in THM13.

A GPS shall be used to:

- Verify that the correct road was tested.
- Assist to identify the correct start and end positions of a road link.
- Act as a validation system to resolve data discrepancies due to various factors and in general to verify the wheel path followed.

GPS coordinates shall be collected in addition to location referencing. The GPS system shall be validated by plotting the GPS coordinates obtained from each 'Verification Section' on which FWD measurement accuracy validation is performed. The location details of these Verification Sections will be agreed with the Tenderers. GPS coordinates shall be submitted together with verification data as well as network FWD data.

A summary of the required GPS equipment specifications is provided in Table 10. A column is provided for the Tenderer to supply technical specifications of the GPS he intends to use.

Table 10: Global positioning System

Description	Minimum specification	Tenderer's specification (to be completed by the Tenderer)
Instrument Type	Differential GPS (Inertial Navigation System for areas with no or lost GPS coverage)	
Resolution	Data to be provided with a minimum of 12 significant digits in decimal degrees	
Accuracy	98% of readings within 1m	
Minimum Sampling Interval/Frequency	10 Hz	
Repeatability	5m	

The Tenderer shall describe the method of applying differential correction on the GPS system as part of the Total Contract Quality Plan.

In the case of real time differential correction, the Tenderer shall describe the method used for applying correction when no signal is received.

The Tenderer shall also describe the inertial system for use when no GPS signal is available, and shall indicate what satellite network will be used for GPS data collection.

Signed on behalf of the Tenderer:

T2.3-E2 EQUIPMENT CALIBRATION, VALIDATION AND CERTIFICATION

Individual equipment component calibration

Calibration deals with conformance of individual equipment components with international standards. Tenderers shall record details of their equipment component calibration in Tables 1 and 2 below for all critical components. Any calibration documentation mentioned in the table shall be referenced and copies supplied in the Total Contract Quality Plan. A certificate or declaration stating the date and outcome of the most recent equipment component calibration shall be submitted, also stating the name of the accredited body that issued the calibration certificates. The Survey Vehicle's Registration Number (for profiler equipment) and Trailer's Registration Number (for deflection equipment) shall also be entered in the relevant tables.

PROFILER EQUIPMENT

Equipment component	Description of calibration / executed by / date?	Calibration document reference (to Total Contract Quality Plan)
<u>Survey vehicle registration number:</u>		
<i>Longitudinal profiler</i>		
2 height sensors		
2 accelerometers		
<i>Transverse profiler</i>		
13 height sensors		
<i>Texture profiler</i>		
1 height sensor		
<i>GPS</i>		
GPS device		
<i>Distance measuring device</i>		
Distance measuring transducers		
<i>Imaging equipment</i>		

System validation of profiling device

Equipment validation deals with the checks to ensure the accuracy of the measurement system as a whole. They are detailed below.

- a) Pre-validation report: The 'Individual equipment component calibration' section above requires details regarding the calibration of components. It states that the Tenderer shall provide the details and attach the calibration certificates to the Total Contract Quality Plan. The Employer shall be satisfied that the device calibration is up to date and that the device is capable of the required accuracy. The Employer therefore reserves the right to request outstanding or more recent calibration certificates before commencement of the survey of the appointed Contractor.

- b) Evidence of previous validations: Tenderers are typically used extensively for similar surveys and may have had validations done the last year or two. If these validations comply with the requirements of validation as stated in TMH13 for roughness and rut measurements, (Table 9: Validation requirements for Longitudinal Profilers; Table 4-1: Validation requirements for Transverse Profilers) Tenderers are requested to submit the relevant validation reports. If no validations as documented in TMH13 have been done the past two years, Tenderers shall specifically state so in the table below. Validation Reports shall be attached to the Total Contract Quality Plan.

Note that validations are typically done against reference equipment of Class 1.

Have any validations been done the past two years? Yes / No:

If Yes, complete the table below.

Table 1: Profiler Equipment Validation Record

Validation date	Validation details (roughness, rut depth, DMD, GPS etc.)	Validation report reference (to Total Contract Quality Plan)
<i>Survey vehicle registration number:</i>		

- c) Equipment validations in terms of TMH13: Should no validations have been done the past two years, or the submitted validation reports are not acceptable to the Employer, the Employer may request that validation be executed prior to the start of the contract. The Guidelines for Validation Acceptance Criteria of Table 10 and Table 4-2 of TMH13 will be used for this validation.

DEFLECTION EQUIPMENT

Individual equipment component calibration

Equipment component	Description of calibration / executed by / date?	Calibration document reference (to Total Contract Quality Plan)
<i>Survey vehicle / trailer registration number:</i>		
<i>FWD component</i>		
Displacement sensors		
Load cell		
Data acquisition system		
<i>GPS</i>		
GPS device		

System validation of FWD device

Equipment validation deals with the checks to ensure the accuracy of the measurement system as a whole. They are detailed below.

- a) Pre-validation report: The 'Individual equipment component calibration' section above requires details regarding the calibration of components. It states that the Tenderer shall provide the details and attach the calibration certificates to the Total Contract Quality Plan. The Employer shall be satisfied that the device calibration is up to date and that the device is capable of the required accuracy. The Employer therefore reserves the right to request outstanding or more recent calibration certificates before commencement of the survey of the appointed Contractor.
- b) Evidence of previous validations: Tenderers are typically used extensively for similar surveys and may have had validations done the last year or two. Validation essentially comprises a referencing exercise conducted on predetermined validation (or reference) sites. If these validations comply with the requirements of validation as stated in TMH13 for FWD measurements, Tenderers are requested to submit the relevant validation reports. If no validations as documented in TMH13 have been done the past two years, Tenderers shall specifically state so in the table below. Validation Reports shall be attached to the Total Contract Quality Plan.

Have any validations been done the past two years? Yes / No: If Yes, complete the table below.

Table 2: FWD Equipment Validation Record

Validation date	Validation details	Validation report reference (to Total Contract Quality Plan)
<i>Survey vehicle / trailer registration number:</i>		

- c) Equipment validations in terms of TMH13: Should no validations have been done the past two years, or the submitted validation reports are not acceptable to the Employer, the Employer may request that validation be executed prior to the start of the contract. The Guidelines for Validation Chapter 4-2 and 4-3 of TMH13 will be used for this validation.

Signed on behalf of the Tenderer:

T2.3-E3 PROOF OF POSSESSION

As stated in the Compulsory / Mandatory Tender Requirements it is a specific requirement that Tenderers must be in possession of the required equipment for the paved roads surveillance measurements, namely a Class 2 High Speed Profiler and a Falling Weight Deflectometer. Possession shall be proved by way of a sales or lease agreement, alternatively a sworn affidavit of possession.

Complete the table below and indicate what the proof of possession entails. If it is a sales or lease agreement, indicate as such and attach a copy thereof. If it is a Sworn Affidavit, indicate as such, complete Form T2.3-E3a and have it confirmed by a Commissioner of Oath.

Equipment Item	VIN Number of Vehicle	Vehicle Registration Number	Proof of Possession
Profile Measurement Equipment			
FWD Equipment			

FORM T2.3-E3a: PROOF OF POSSESSION OF PROFILE MEASUREMENT AND FWD EQUIPMENT**SWORN AFFIDAVIT**

Name of Company:

Position of Official in Company:

Contact Tel no:

I, [Name/Surname],
the undersigned, duly authorised to make this affidavit, hereby swear that the Company above is in possession of the following equipment for the performance of the pavement surveillance measurements of the Gauteng provincial road network as will be required in terms of Contract No. DRT04/02/2026

Equipment Item	VIN Number of Vehicle	Vehicle Registration Number
Profile Measurement Equipment		
FWD Equipment (Trailer mounted)		
FWD Equipment (in-vehicle mounted)		

Signature of Official: Date:

T2.3-F DRAFT HEALTH AND SAFETY PLANS

Tenderers must submit a draft Health and Safety Plan for the execution of the work together with their tenders. The draft Health and Safety Plan shall provide evidence of the Tenderer's planning regarding the following aspects of safety and include at least the following headings:

1. Safety precautions for surveys
2. Safety procedures during execution of the surveys / safe work method statements
3. Emergency procedures in cases of incidents
4. Compliance with OHSA as relevant

As necessary, for example due to totally different work methods, the draft Health and Safety Plan shall distinguish between relevant surveys:

- The profiler surveys
- The deflection surveys

The Employer and/or Employer's agent will assess the draft Health and Safety Plan and comment to the successful tenderers on the acceptability of the plan and any shortcomings. The draft plan must then be updated to the satisfaction of the Employer before the Contractor commences any surveys.

The draft Health and Safety Plan shall be submitted as a separate document.

Signed on behalf of the Tenderer:

T2.3-G DRAFT QUALITY CONTROL PLAN

Equipment surveillance measurements

Tenderers shall submit a draft Total Contract Quality Plan, consisting of the following for each of the profiler and deflection surveillance measurements:

- a) Equipment calibration and validation information
Refer T2.3-E2 for information to be provided.
- b) Operational procedures
Description of daily, weekly, monthly checklists.
- c) Draft Quality Control Plan
Tenderers must submit a draft Quality Control Plan for the execution of the work together with their tenders. The draft Quality Control Plan shall provide evidence of the Tenderer's planning regarding the following aspects of quality control and include at least the following headings:
 - Quality control planning for surveys
 - Quality control procedures during execution of the surveys
 - Quality control compliance record keeping, during and after execution of the surveys

The Employer and/or Employer's agent will assess the draft Quality Control Plan and comment to the successful tenderers on the acceptability of the plan and any shortcomings. The draft plan must then be updated to the satisfaction of the Employer before the Contractor commences any surveys.

- d) For more details regarding the contents of the quality plan, refer to the Scope of Works.

Signed on behalf of the Tenderer:

TENDER for CONTRACT No.: DRT04/02/2026
FOR
PAVEMENT SURVEILLANCE MEASUREMENTS OF THE GAUTENG PROVINCIAL
ROAD NETWORK FOR THE PERIOD OF 36 MONTHS

CONTRACT

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GAUTENG PROVINCE

DEPARTMENT OF ROADS AND TRANSPORT

**TENDER for CONTRACT No.: DRT04/02/2026
FOR
PAVEMENT SURVEILLANCE MEASUREMENTS OF THE GAUTENG PROVINCIAL
ROAD NETWORK FOR THE PERIOD OF 36 MONTHS**

PART C1: AGREEMENT AND CONTRACT DATA

C1.1 FORM OF OFFER AND ACCEPTANCE

OFFER

The Employer, identified in the acceptance signature block, has solicited offers to enter into a contract for the procurement of PAVEMENT SURVEILLANCE MEASUREMENTS OF THE GAUTENG PROVINCIAL ROAD NETWORK.

The Tenderer, identified in the offer signature block, has examined the documents listed in the tender data and addenda thereto as listed in the returnable schedules, and by submitting this offer has accepted the conditions of tender.

By the representative of the Tenderer, deemed to be duly authorized, signing this part of this form of offer and acceptance, the Tenderer offers to perform all of the obligations and liabilities of the Contractor under the contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the conditions of contract identified in the contract data.

The offered total of the price inclusive of value added tax is:

.....
.....

..... **(In words);**

R **(In figures)**

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

For the Tenderer:

Signature

Name

Capacity

Name of Organisation:

Address of Organisation

.....

Name of witness:

Signature of witness: Date:

ACCEPTANCE

By signing this part of this form of offer and acceptance, subject to the specific schedule or schedules accepted, the Employer identified below accepts the Tenderer's offer. In consideration thereof, the Employer shall pay the Contractor the amount due in accordance with the conditions of contract identified in the contract data. Acceptance of the Tenderer's offer shall form an agreement between the Employer and the Tenderer upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

The terms of the contract, are contained in:

- Part C1: Agreements and contract data, (which includes this agreement);
- Part C2: Pricing data;
- Part C3: Scope of work;
- Documents or parts thereof, which may be incorporated by reference into Parts C1 to C3 above.

Deviations from and amendments to the documents listed in the tender data and any addenda thereto as listed in the tender schedules as well as any changes to the terms of the offer agreed by the Tenderer and the Employer during this process of offer and acceptance, are contained in the schedule of deviations attached to and forming part of this agreement. No amendments to or deviations from said documents are valid unless contained in this schedule, which must be signed by the authorised representative(s) of both parties.

The Tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the Employer's agent (whose details are given in the contract data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the conditions of contract identified in the contract data at, or just after, the date this agreement comes into effect. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the Tenderer receives one fully completed original copy of this document including the schedule of deviations (if any). Unless the Tenderer (now Contractor) within five working days of the date of such receipt notifies the employer in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.

For the Employer:

Signature

Name

Capacity:

Name of Organisation:

Address of Organisation:

.....

Name of witness:

Date and Signature of witness: Date: Signature:

SCHEDULE OF DEVIATIONS

Item	Deviation Details

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

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

For the Tenderer:

Signature:

Name:

Capacity:

Name of Organisation:

Address of Organisation:

.....

Name of witness:

Date and Signature of witness: Date: Signature:

For the Employer:

Signature:.....

Name:

Capacity:

Name of Organisation:

Address of Organisation:

.....

Name of witness:

Date and Signature of witness: Date: Signature:

C1.2 CONTRACT DATA

The Conditions of Contract are the Standard Professional Services Contract (July 2009) published by the Construction Industry Development Board.

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

Part 1: Data Provided by the Employer

Clause	Data Item
1	The Employer is The Head of Department, Gauteng Province, Department of Roads and Transport
3.4 and 4.3.2	All Queries relating to this tender may be addressed to the email below SCMBIDADMIN.SCMBIDADMIN@gauteng.gov.za
1	The Project is PAVEMENT SURVEILLANCE MEASUREMENTS OF THE GAUTENG PROVINCIAL ROAD NETWORK FOR THE PERIOD OF 36 MONTHS.
1	The Period of Performance is three years with the option to extend it by a further two years.
3.5	The location for performance of the Project is the provincial paved road network under control of the Department in the Gauteng Province.
3.12	The penalty payable is R 5 000.00 per day subject to a maximum amount of R 500 000.00.
3.15.1	The Programme (for each of the survey types) shall be submitted within 7 calendar days.
3.16.1	There are no time based fees included in the Pricing Data (only rates).
5.4.1	The Contractor is required to have professional indemnity insurance in an amount of not less than R 3 million in respect of each claim, without limit to the number of claims.
7.2	The Contractor is required to provide key personnel in accordance with Schedule T2.3A and to complete Schedules T2.3-B1 to T2.3-B7.
8.1	The Contractor is to commence the performance of the Services within 14 days of the date that the Contract becomes effective.
8.2.1	The Contract shall be considered to be concluded at the end of the three-year contract period or any extension of this period.
8.4.3 (c)	The maximum period of suspension is 12 months.
9.1	Copyright of documents prepared for the Project shall be vested with the Contractor.
12.1.2	Interim settlement of disputes is to be by mediation.
12.2.4	Final settlement is by litigation.
14	Remuneration will be based on progress as supported by deliverables.
C14 A	<p>The Additional Conditions of Contract are:</p> <p>Escalation:</p> <p>Given the multi-year nature of components of the Contract, escalation is applicable to the contract.</p> <p>The value of the invoice shall be increased or decreased by the contract price adjustment factor, rounded off to the fourth decimal place, determined according to the formula:</p> $CPAf = (1 - x) \left[\frac{Ct}{Co} - 1 \right]$ <p>And CPA = CPAf x Value of work claimed</p> <p>In which the symbols have the following meaning:</p> <p>CPAf = Contract Price Adjustment factor CPA = Contract Price Adjustment</p>

Clause	Data Item
	<p>“x” is the proportion of the value of work which is not subject to adjustment, and unless stated in an Appendix shall be 0.1</p> <p>“C” is the Consumer Price Index, applicable to the Gauteng area and as published in the Statistical News Release (P0 141.1, Table 4.1) of Statistics South Africa.</p> <p>The suffix “o” denotes the Consumer Price Index applicable to the base month, which shall be the month prior to the month in which the closing date for the tender falls.</p> <p>The suffix “t” denotes the current Consumer Price Index applicable to the month in which the last day of the period falls to which the relevant Contractor’s invoice relates. For this contract a Contractor’s invoice will cover more than one month, for example February and March. The CPI applicable shall be taken as the arithmetic mean, rounded off to the second decimal place, of the relevant indices applicable to the two months.</p> <p>If the CPI relevant to any particular invoice is not known at the time when the invoice is prepared, the Contractor shall estimate the value of such index. Any correction which may be necessary when the correct index becomes known shall be made by the Contractor in a subsequent invoice.</p>
15	The interest rate will be prime interest rate of the Employers bank at the time that the amount is due.

Part 2: Data provided by the Contractor

Clause	
1	<p>The Contractor is: Address: Telephone: Cell phone: E-mail:</p>
5.3	<p>The authorised and designated representative of the Contractor is: Name: The address for receipt of communications is: Telephone: Cell phone: E-mail: Address: </p>

C1.3 AGREEMENT IN TERMS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT NO 85 OF 1993) (SECTION 37(2))

THIS AGREEMENT made at

On this the day of in the year between THE DEPARTMENT OF ROADS AND TRANSPORT

(Hereinafter called "the Employer") of the one part, herein represented by

in his capacity asand delegate of the Employer in terms of the Employer's standard powers of delegation pursuant to the provisions of Act No 7 of 1998,

And

(Hereinafter called "the Mandatory") of the other part, herein represented by

in his capacity as and being duly authorised by virtue of a resolution appended hereto as Annexure C1.3-A;

WHEREAS the Employer is desirous that certain works be done, viz

.....
and has accepted a Tender by the Mandatory for the execution of such works and whereas the Employer and the Mandatory have agreed to certain arrangements and procedures to be followed in order to ensure compliance by the Mandatory with the provisions of the Occupational Health and Safety Act, 1993 (Act 85 of 1993);

NOW THEREFORE THIS AGREEMENT WITNESSED AS FOLLOWS:

1. The Mandatory shall execute the work in accordance with the Contract Documents pertaining to this contract.
2. This Agreement shall hold good from its Commencement Date, which shall be the date of a written notice from the Employer or Engineer requiring him to commence the execution of the Works, to either -
 - (a) The date of the Final Certificate issued in terms of Clause 14 of the CIDB General Conditions of Contract (as contained in the "Standard Professional Services Contract", September 2015) (hereinafter referred to as "the GCC"), as contained in C1.2 of the Contract Documents pertaining to this Contract, or
 - (b) The date of termination of the Contract in terms of Clauses 8.4 of the GCC.
3. The Mandatory declares himself to be conversant with the following:
 - (a) All the requirements, regulations and standards of the Occupational Health and Safety Act (Act 85 of 1993) as amended by the OHS Amendment Act No 181 of 1993, hereinafter referred to as "The Act", with special reference to the following Sections of The Act:

- (i) Section 8: General duties of Employers to their employees
- (ii) Section 9: General duties of Employers and self-employed persons to persons other than employees
- (iii) Section 37: Acts or omissions by employees or mandatories
- (iv) Sub-section 37(2) relating to the purpose and meaning of this Agreement
- (v) Other safety regulations, as applicable.
- (b) The procedures and safety rules of the Employer as pertaining to the Mandatory and to all his subcontractors.

4. The Mandatory is responsible for the compliance with the Act by all his subcontractors, whether or not selected and/or approved by the Employer.

5. The Mandatory warrants that all his and his sub-contractors' employees are covered in terms of the Compensation for Occupational Injuries and Diseases Act 1993 which cover shall remain in force whilst any such employees are present on site. A letter of good standing from the Compensation Commissioner to this effect must be produced to the Employer upon signature of the agreement.

6. The Mandatory undertakes to ensure that he and/or subcontractors and/or their respective employees will at all times comply with the following conditions:

- a) The Mandatory shall assume the responsibility in terms of Section 16.1 of the Occupational Health and Safety Act. The Mandatory shall not delegate any duty in terms of Section 16.2 of this Act without the prior written approval of the Employer. If the Mandatory obtains such approval and delegates any duty in terms of section 16.2 a copy of such written delegation shall immediately be forwarded to the Employer.
- b) All incidents referred to in the Occupational Health and Safety Act shall be reported by the Mandatory to the Department of Labour as well as to the Employer. The Employer will further be provided with copies of all written documentation relating to any incident.
- c) The Employer hereby obtains an interest in the issue of any formal enquiry conducted in terms of section 32 of the Occupational Health and Safety Act into any incident involving the Mandatory and/or his employees and/or his sub-contractors.

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

SIGNED FOR AND ON BEHALF OF THE EMPLOYER:.....

Witnesses: 1. 2.

Names (in capitals): 1..... 2.

SIGNED FOR AND ON BEHALF OF THE MANDATORY:

Witnesses: 1. 2.

Names (in capitals): 1. 2.

ANNEXURE C1.3-A

CERTIFICATE OF AUTHORITY FOR SIGNATORY TO AGREEMENT IN TERMS OF OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT NO 85 OF 1993) (SECTION 37 (2))

The signatory for the company that is the Contractor in terms of the above-mentioned Contract and the Mandatory in terms of the above-mentioned Act shall confirm his or her authority thereto by attaching to this page a duly signed and dated copy of the relevant resolution of the board of directors.

An example is given below:

"By resolution of the board of directors passed at a meeting held on 20.....,

Mr/Ms whose signature appears below, has been duly authorised to sign the AGREEMENT IN TERMS OF THE

OCCUPATIONAL HEALTH AND SAFETY ACT, 1993 (ACT 85 OF 1993) on behalf of

.....

SIGNED ON BEHALF OF THE COMPANY:

IN HIS/HER CAPACITY AS:

DATE:

SIGNATURE OF SIGNATORY:

WITNESS 1 : WITNESS 2:

NAME (in capitals): NAME (in capitals):



TENDER for CONTRACT No.: DRT04/02/2026
FOR
PAVEMENT SURVEILLANCE MEASUREMENTS OF THE GAUTENG PROVINCIAL
ROAD NETWORK FOR THE PERIOD OF 36 MONTHS

PART C2: PRICING DATA

C2.1 PRICING INSTRUCTIONS

- 1 The following words shall have the meanings hereby assigned to them:
 - Unit: The unit of measurement for each item of work for the activities as defined in the Scope of Work
 - Quantity: The number of units of work for each item of the activities
 - Rate: The payment per unit of work at which the Tenderer tenders to do the work for the activities
 - Amount: The product of the quantity and the rate tendered for an item
- 2 The quantities set out in the Pricing Schedule are approximate quantities. The quantities of work accepted and certified for payment of the services, and **not** the quantities given in the Schedule of Activities, will be used to determine payments to the Contractor.
- 3 The validity of the Contract shall in no way be affected by differences between the quantities in the Schedule of Activities and the quantities finally certified for payment. Work for the activities will be valued at the rates tendered, subject to the provisions of paragraphs 7 and 8 of this section.
- 4 If the Tenderer has tendered a rate but omitted the amount, or vice versa, the missing amount or rate will, if possible, be determined in conjunction with the Tenderer from the available data and the Tenderer must confirm his acceptance of these amounts and rates.
- 5 If the Tenderer groups a number of items together and tenders one lump sum for such group of items, this single tendered lump sum shall apply to that group of items and not to each individual item, or, should the Tenderer indicate against any item that full compensation for such item has been included in another item, the rate for the item included in another item shall be deemed nil.
- 6 The tendered lump sums and rates shall be valid irrespective of any change in the quantities during execution of the Contract.
- 7 The works executed are being measured for payment in accordance with the methods described in the Contract Documents under the various payment items, notwithstanding any custom to the contrary.
- 8 The short descriptions of the payment items in the Schedule of Activities are given to identify the items and to provide specific details. Reference shall inter alia be made to the Scope of Work, Conditions of Contract and Special Conditions of Contract (if any) for more detailed information regarding the extent of the work entailed under each item.
- 9 Subject to the conditions stated in paragraph 8, the rates and lump sums filled in by the Tenderer in the Schedule of Activities shall be final and binding with regard to submitting the Tender, and may not be adjusted should there be any mistakes in the extensions thereof and in the total sums appearing in the Tender. Should there be discrepancies between the Tender Sum and the correctly extended and totalled Schedule of Activities, the Tender Sum will be deemed correct, and the Employer will have the right to make such adjustments to the Tender Rates as he deems necessary to reconcile the total of the Schedule of Activities with the Tender Sum.

C2.2

- 10 In such an event the Tenderer will be consulted but, failing agreement between the parties, the decision of the Employer will be final and binding. Adjustment of the Tender Sum will take place only after acceptance of the Tender, but prior to the signing of the Contract. In their own interests Tenderers should make doubly sure of the correctness of their tendered rates, the extensions and the Tender Sum.
- 11 A Tender may be rejected if the unit rates or lump sums for some of the items in the Schedule of Quantities are in the opinion of the Employer, unreasonable or out of proportion and if the Tenderer fails, within a period of seven (7) days of having been notified in writing by the Employer to adjust the unit rates or lump sums for such items, to make such adjustments.
- 12 All rates and sums of money quoted in the Schedule of Activities shall be in Rand and whole cents. Fractions of a cent shall be discarded.

C2.2 SCHEDULE OF QUANTITIES

NB: TENDERERS MUST COMPLETE THE SCHEDULE OF ACTIVITIES IN BLACK INK. ALL RATES AND PRICES SHALL EXCLUDE VALUE-ADDED TAX AND SHALL BE PROVIDED IN 2019 RAND VALUES.

SCHEDULE A: SURVEILLANCE MEASUREMENTS OF PAVED PROVINCIAL ROADS

ITEM	DESCRIPTION	UNIT	APPROX- IMATE QUANTITY	RATE (excl. VAT)	AMOUNT	
					R	c
A1	Profile measurement of provincial paved roads in Gauteng Province (RCAM Classes 1, 2, 3, 4 and 5)	Carriage way km	4 359			
A2	Profiler Verification Section measurements (2 times minimum)	No of sections	3			
A3	Deflection measurement of provincial paved roads in Gauteng Province (RCAM Classes 1, 2 and 3)	Carriage way km	3 650			
A4	FWD Verification Section measurements (2 times minimum)	No of sections	3			
TOTAL OF A1 + A2 + A3 + A4					R	
CONTINGENCIES (10% OF (A1 + A2 + A3 + A4))					R	
SUBTOTAL A5 ((A1 + A2 + A3 + A4) + CONTINGENCIES)					R	
VALUE ADDED TAX (15% OF SUBTOTAL A5)					R	
TOTAL A (SUBTOTAL A5 + VAT): TENDER AMOUNT CARRIED FORWARD TO THE SUMMARY BELOW					R	

SCHEDULE B: RATES ONLY FOR DEPARTMENTAL SUPPORT AND STAFF DEVELOPMENT PROGRAMME (SDP)

ITEM	DESCRIPTION	RATE ONLY (PER HOUR) (excl. VAT)	
		R	c
B1	Senior Engineer		
B2	Engineer		
B3	Technician		

SUMMARY OF SCHEDULE A

SCHEDULE	SCHEDULE DESCRIPTION	SCHEDULE AMOUNT	
A	SURVEILLANCE MEASUREMENTS OF PAVED PROVINCIAL ROADS	R	
TOTAL OF SCHEDULE A: TENDER AMOUNT CARRIED FORWARD TO THE FORM OF OFFER AND ACCEPTANCE (FORM C1.1, PAGE C1.2)		R	

THE TOTAL OF THE SUMMARY OF THE SCHEDULE MUST BE TRANSFERRED TO THE FORM OF OFFER AND ACCEPTANCE, FORM C1.1 ON PAGE C1.2.

TENDER for CONTRACT No.: DRT04/02/2026
FOR
PAVEMENT SURVEILLANCE MEASUREMENTS OF THE GAUTENG PROVINCIAL
ROAD NETWORK FOR THE PERIOD OF 36 MONTHS

PART C3: SCOPE OF WORK

C3.1 BACKGROUND

C3.1.1 Overview of Required Services

Gauteng Department of Roads and Transport (GDRT) operates a Road Asset Management System (RAMS), referred to as the Gauteng Road Network Management System (RNMS). The Gauteng RNMS is a comprehensive RAMS, consisting of a Road Network Information (RNI) module; Geographic Information System (GIS), Traffic Information System (TIS); a Pavement Management System (PMS); Gravel Roads Management System (GRMS); and Bridge Management System (BMS).

GDRT requires the services of professional service providers (PSP) to assist with the data collection for the RNMS over a period of three years. The data to be collected are the following:

- As required road profile measurements, GPS coordinate gathering and road right-of-way image collection on rural, semi-urban and urban paved roads within the Gauteng Province and under the jurisdiction of the GDRT;
- As required Falling Weight Deflectometer (FWD) measurements and GPS coordinate gathering for test positions on paved rural, peri-urban and urban roads within the Gauteng Province and under the jurisdiction of the GDRT;
- Provide technical and engineering support on asset management activities; and
- Assist with Departmental Staff Development Programme (SDP) to improve department skills, competency and performance.

C3.1.2 Gauteng Provincial Road Network

A summary of the Gauteng provincial network length in road-km per road class is presented in **Table 1**.

Table 1: Gauteng Provincial Network Length in Road-km per Road Class

Road Class	Surfaced	Gravel	Total
	Length in road-km		
Rural			
R1	139.83		139.83
R2	572.57	132.57	705.14
R3	471.51	368.14	839.65
R4	321.80	587.60	909.41
R5	5.22	5.66	10.89
Rural Total	1 510.94	1 093.98	2 604.92

C3.2

Urban			
U1	333.88		333.88
U2	1 362.71	17.38	1 380.09
U3	449.30	38.83	488.13
U4a	38.77	51.15	89.92
U4b	143.80	32.18	175.99
Urban Total	2 328.46	139.55	2 468.01
Total: All Roads	3 839.40	1 233.53	5 072.92

The ramps at interchanges (estimated 131.8 km); slipways at intersections (estimated 26.1 km); and the sections of municipal roads at interchanges and intersections within the provincial road reserve (estimated 20 km), have been included in the provincial road network as additional carriageway-km.

A summary of the Gauteng provincial network by RCAM Class per carriageway-km is presented in **Table 2**.

Table 2: Gauteng Provincial Network Length in Carriageway-km per Road Class

Road Class	Surfaced	Gravel	Total
	Length in carriageway-km		
Rural			
R1	161.14		161.14
R2	575.64	132.57	708.21
R3	480.16	368.14	848.30
R4	322.04	587.60	909.65
R5	7.00	5.66	12.66
Rural Total	1 545.97	1 093.98	2 639.95
Urban			
U1	423.82		423.82
U2	1 695.94	17.38	1 713.32
U3	501.05	38.83	539.89
U4a	39.84	51.15	90.99
U4b	152.69	32.18	184.88
Urban Total	2 813.34	139.55	2 952.89
Total: All Roads	4 359.31	1 233.53	5 592.84

C3.2 SCOPE OF WORK AND REQUIREMENTS FOR SURVEILLANCE MEASUREMENTS ON PAVED PROVINCIAL ROADS

C3.2.1 Scope of Work for Surveillance Measurements of Paved Roads

These specifications / scope of work form an integral part of the contract documents and specify in detail the manner in which the services are to be carried out.

Survey objectives

The survey is executed in terms of the requirements of the Provincial Road Maintenance Grant (PRMG) of DORA (Division of Revenue Act), and shall serve as input to the Pavement Management System of the Gauteng Department Roads and Transport (GDRT). The GDRT recently (in 2023) surveyed most of the PRMG required portion of the paved network for profile measurements and deflection measurements.

Required services

The required services will consist of:

- Attendance of all meetings with the Employer and / or his representative, prior to, during and after completion of the measurements.
- For profiler equipment, execution of an equipment validation exercise, if so required by the Employer, according to the TMH13 Guidelines. Such validation exercise will be executed against a Class I profiler.
- Finalisation of a Total Contract Quality Plan.
- Finalisation of a Health and Safety Plan.
- Executing of verification surveys of three chosen verification sections prior to the start of the required surveys, for both the profiler and deflectometer (may be different sections for each measurement type).
- Executing the profile measurements of all the required provincial paved roads.
- Executing the deflection measurements of all the required provincial paved roads.
- Execution of verification surveys on the three verification sections at the conclusion of the required surveys, for both the profiler and deflectometer.
- Processing and submission of collected data in the format specified.

The provincial paved roads to be measured will be selected by the GDRT, as listed in the data to be provided to the Contractor and the GIS of road centrelines:

- Single carriageway road: Only measure the lane in the direction of increasing kilometres (i.e. start of road to end of road according to successive link descriptors). Do not measure the opposite lane in the negative direction (i.e. end to start of road).
- Dual carriageway road: Measure only the slow lane of each of the two carriageways (each carriageway of a dual carriageway road is considered a separate road).
- Ramps of Gauteng interchanges: Measure the slow ramp lane where there are more than one ramp lane, or the only lane if there is only one lane. Cross roads, over or under bridges, and within the boundary of the interchange, shall also be measured. The lane to be measured shall typically be one of the slow lanes.

C3.2.2 Scope of Work for Profile Measurements of Paved Roads

The successful Tenderer (Contractor) shall perform road profile measurements, GPS coordinate gathering and road right-of-way image collection on rural, semi-urban and urban paved roads under the jurisdiction of the Gauteng Department of Roads and Transport. These measurements and data gathering shall be performed by means of instrumentation (specified in this tender by the Tenderer, if acceptable to the Employer) mounted on a special vehicle to be supplied by the Tenderer.

Roads to be measured

The roads to be measured are paved rural, peri-urban and urban roads within the Gauteng Province and under the jurisdiction of the Department of Roads and Transport. The total length of paved roads under the jurisdiction of the Employer classified as RCAM Classes 1, 2, 3, 4 and 5 is approximately 4 570 km. The Employer will provide a GIS map in ESRI shapefile format to the Contractor, which defines the full road network and its links.

Where a road is undergoing maintenance or construction, it shall not be surveyed, but its status shall be noted and will be reflected in the electronic data set to be provided to the Employer.

Annexure B contains a map showing the full paved and unpaved road network under jurisdiction of the GPDRT. The paved roads are all the roads to be measured.

Measurements required

The work to be carried out under the Contractor comprises the execution of network level profile measurements. Tenderers are referred to the Committee of Transport Officials (COTO) publication, TMH13 Automated Road Condition Assessments May 2016, for clarification of terminology or procedures regarding road roughness measurements.

The purpose of the measurements is to obtain the following data:

- Longitudinal road profiles from which road roughness can be calculated and reported in IRI units for each wheel path and per measured lane.
- Transverse Profiles from which the mean rut depth in each wheel path and per measured lane can be derived and reported in mm.
- Texture Profile measured in the left wheel path from which the Mean Profile Depth (MPD) can be derived and reported in mm.
- Right-of-Way image survey.
- GPS coordinate data to confirm the location of the sections measured.

Road roughness measurements (expressed in IRI - International Roughness Index) and rutting measurements (in millimetres) are required to be taken in both wheel paths of the designated lane for each road surveyed. The survey shall be performed in the positive road direction for each road, unless otherwise directed by the Employer. Survey measurements are required to be taken and reported at a maximum of 100 m intervals.

Survey equipment requirements

The Tender document specifies the minimum requirements for the equipment to be used for the surveys, and the Tenderer shall fill the forms provided thoroughly, allowing the Employer to assess the suitability of the equipment offered. The specification as well as component calibration details shall be provided. The basic requirement is that of a Level 2 Profiler that can measure all the required parameters in one go. It excludes any Response Type Road Roughness Measuring Devices.

A successful tenderer is not allowed to offer one Profiler for the tender evaluation and then use another without informing the Employer by letter of the reasons for the replacement of the Profiler. As for the tender evaluation, the Contractor will have to provide all specification and validation information of the new Profiler. Failure to provide this will invalidate the contract. Likewise, should a Contractor have to replace his approved equipment during the survey due to whatever reasons, all specification and validation details have to be provided of the replacement equipment.

It is preferable that operators of equipment not be changed during the surveys. The Employer shall be informed in writing in such cases, prior to the change.

C3.2.3 Scope of Work for FWD Deflection Measurements of Paved Roads

The Contractor shall perform Falling Weight Deflectometer (FWD) measurements and GPS coordinate gathering for test positions on paved rural, peri-urban and urban roads within the Gauteng Province and under the jurisdiction of the Department of Roads and Transport. These measurements and data gathering shall be performed by means of instrumentation (specified below) mounted on a vehicle or a trailer to be supplied by the Contractor.

Roads to be measured

Non-destructive testing in the form of FWD measurements and GPS coordinate gathering at 200m intervals, as per PRMG requirements, are to be performed on approximately 3 710 km of paved roads classified as RCAM Classes 1, 2 and 3 in Gauteng Province. Note that RCAM Classes 4 and 5 roads shall not be measured.

An electronic Geographical Information System (GIS) map in ESRI shapefile format exists and shall be supplied to the Contractor, which defines the full road network and links. The RCAM Class 1, 2 and 3 roads to be measured shall be specifically highlighted. These roads, and their road numbers, start and end kilometre (chainage) distances shall be used as the basis of measurements and all measurements shall be related to these road numbers and kilometre distances.

Where a road is undergoing maintenance or construction, it shall not be surveyed, but its status shall be noted and will be reflected in the electronic data set to be provided to the Employer.

Appendix A contains a map showing the full paved road network under jurisdiction of the GPDRT. The RCAM Classes 1, 2 and 3 roads are highlighted, these are all the roads to be measured for deflection.

Measurements required

The work to be carried out under the Contract comprises the execution of non-destructive, network-level Falling Weight Deflectometer testing on the RCAM Classes 1, 2 and 3 paved roads, in order to obtain the following data:

- Vertical deflection data at maximum of 200m intervals following the application of a dynamic load to the pavement.
- The collection of accurate GPS coordinates for each position at which vertical deflections were measured.
- The collection of accurate road kilometre positions in relation to the start km position of the road on which the deflections are tested.

Tenderers are also referred to the following document regarding deflection measurements:

- TMH13 Automated Road Condition Assessments, Part F Deflections (May 2016).

The survey shall be taken only in the positive road directions for each single carriageway road, and on both slow lanes of dual carriageway roads, unless otherwise directed by the Employer.

Survey equipment requirements

The Tender document specifies the minimum requirements for the equipment to be used for the surveys, and the Tenderer shall fill the forms provided thoroughly, allowing the Employer to assess the suitability of the equipment offered. The specification as well as component calibration details shall be provided.

The FWD equipment to be used shall have geophones or sensors at least the following offsets from the centre of the load plate: 0mm, 200mm, 300mm, 450mm, 600mm, 900mm and 1200mm.

The Contractor shall stipulate the specifications of the Falling Weight Deflectometer in T2.3-E1 for submission with the tender.

The successful Tenderer is not allowed to offer one FWD for the tender evaluation and then use another without informing the Employer by letter of the reasons for the replacement of the FWD. As for the tender evaluation, the Contractor will have to provide all specification and validation information of the new FWD. Failure to provide this will invalidate the contract. Likewise, should the Contractor have to replace his approved equipment during the survey due to whatever reasons, all specification and validation details have to be provided of the replacement equipment.

It is preferable that operators of equipment are not to be changed during the surveys. The Employer shall be informed in writing in such cases, prior to the change.

C3.2.3 Survey Procedure

Location referencing: both profiler and deflectometer surveys

The basis of the data collection shall be the road numbering system according to the electronic GIS map of the Gauteng provincial roads, with tabular link description information for every road, supplied to the Contractor by the Employer.

All data collection shall be uniquely referenced in relation to road number and lane measured. Where continuous measurement of a road is not possible, due to 'non-measurable' sections, the subsequent link's start kilometres, as provided, shall be used as the base (starting point) for reference of subsequent measurements.

All data collected shall be referenced to a longitudinal position on the road (km position) to within an accuracy of ± 1 m from the start of the road, or, where not possible due to non-measurable lengths, from the start kilometre of the successive link. Global Positioning System (GPS) data is to be recorded simultaneous to the survey to enable later verification of road locations and measured sections on a road by the Employer.

Additionally, for all deflection data collected, the location referencing shall specify the road width, as well as the transverse offset of the centre of the load plate, measured from the road centreline, perpendicular to the road centreline, and expressed in meters.

The accuracy of the location referencing system must be unaffected by the travelling speed of the equipment or by the road geometry.

Direction of measurement: both profiler and deflectometer surveys

As mentioned, it is envisaged that measurements shall only be taken in one direction per carriageway, generally the direction of increasing road chainages. However, the Employer may require the measurements from end to start for certain roads, and these requirements (if any) will be communicated to the Contractor prior to the start of the surveys.

Measurement speed: profiler survey

The average speed at which the survey is conducted shall be recorded and reported at the same interval at which the respective data is reported. The suggested speed for data collection is 80 km/h. However, due to the urban nature of the road network this may not be continuously possible on all roads and the tolerance for speed will not be unduly applied.

The average speed shall be measured to within an accuracy of 1 km/h. The average speed shall be reported in km/h.

Testing positions in road lanes: deflectometer survey

Measurements are to be conducted on the loaded area of the pavement. For two-way single carriageway roads, deflection testing should be made at the outer left wheel path (as these carry the most heavy-vehicle traffic and the pavement structure directly underneath the wheel path is typically the weakest in the road) and in the direction of increasing kilometres. If such testing cannot be performed in the wheel paths, a reason must be supplied in the output data's Comments field.

Testing load and number of drops: deflectometer survey

The default testing load shall be 50kN, unless the deflections measured at the outermost sensors are too small for practical use under the 50kN load, in which case the testing load shall be increased in 10kN increments until a satisfactory deflection can be measured. The testing load shall be captured at each testing point.

At each testing point, drops shall be repeated until the maximum difference in deflection at each sensor is less than 5%, but with a minimum of 3 drops per testing location. The values obtained from the first drop shall be omitted from the analysis results in all cases.

Uneven surfaces: deflectometer survey

The Contractor shall ensure that the FWD plate and sensors are placed on fairly level and even road surfaces and not for example in deep wheel ruts. The base plate and sensors shall be in proper contact with the surface at all positions. The Contractor shall also ensure that there is no loose debris or standing water underneath the plate or sensors when performing testing.

Temperature: deflectometer survey

The minimum and maximum air temperatures during which deflection measurements may be carried out are 0 and 30 degrees Celsius respectively. Should the air temperature be outside the range, the Contractor shall defer testing until the air temperature is within these limits again.

The Contractor shall describe how his equipment and algorithms make provision for differences in pavement surface temperature, for example when calculating surface layer stiffness. During the measurements road surface temperature will be recorded and included in the data output file.

More aspects of the survey procedure are discussed in the next three chapters.

C3.2.4 Validation Requirements (Both Profiles and Deflectometer)

Validation requirements – tender stage

It is a specific requirement of the tender that a pre-validation report be submitted for each of the profiler and deflectometer, refer T2.3-E2.

The 'Individual equipment component calibration' section of Form T2.3-E2 requires details regarding the calibration of components. It states that the Tenderer shall provide the details and attach the calibration certificates to the Total Contract Quality Plan. The Employer shall be satisfied that the device calibration is up to date and that the device is capable of the required accuracy. The Employer therefore reserves the right to request outstanding or more recent calibration certificates before commencement of the survey of the appointed Contractor.

Form T2.3-E2 also requests that evidence of previous validations be attached to the Total Contract Quality Plan. This request is based on the premise that Tenderers are typically used extensively for similar surveys and may have had validations done the last year or two. If these validations comply with the requirements of validation as stated in TMH13 for roughness and rut measurements (Table 9: Validation requirements for Longitudinal Profilers; Table 4-1: Validation requirements for Transverse Profilers) Tenderers are requested to submit the relevant validation reports. If no validations as documented in TMH13 have been done the past two years, Tenderers shall specifically state so in the table in T2.3-E2.

Similarly, for deflectometers, Tenderers are expected to supply at least 3 (three) examples of validated FWD data sets that were collected during previous projects of similar or larger scope, implemented at other roads authorities within southern Africa. These shall all be submitted along with the Tender in the form of an electronic and paper based data set, as well as a letter from the applicable client body, i.e. an independent road authority, certifying the veracity of the paper printout of the data. These results shall apply to the same equipment that the Tenderer is proposing to use on this project.

Should no validations have been done the past two years, or the submitted validation reports are not acceptable to the Employer, the Employer may request that validation be executed prior to the start of the contract. The Guidelines for Validation Acceptance Criteria of Table 10 and Table 4-2 of TMH13 for profilers will be used for this validation. For deflectometers, the Guidelines for Validation Acceptance Criteria as specified in Section 4.2 of TMH13 for network level measurement of pavement deflection will be used.

Validation criteria

Should a validation have to be done, then the validation criteria of TMH13 for roughness and rut measurements, as contained in Table 9: Validation requirements for Longitudinal Profilers; and Table 4-1: Validation requirements for Transverse Profilers, shall apply. The requirements for 'lower reliability' will apply. For deflectometers, Section 4.2 of TMH13 shall apply.

Validation of positioning equipment

GPS validation shall be checked by comparing coordinates at several benchmark locations, to be agreed with the Employer. The purpose is to check the dynamic accuracy of the GPS, as described in TMH13, chapter 5.3. The GPS coordinates should be within 5m of the horizontal benchmark values, and for repeat dynamic measurements, this accuracy shall be achievable 90 percent of the time.

Distance Measuring System validation shall be checked on three sections of 1 km length on straight and tangent sections of road. The distance validation check should also be done at different measuring speeds.

C3.2.5 Control Testing

Profiler Equipment

Control testing will concern the establishment of three verification sections, which have to be measured twice, i.e. at least before commencement of the surveys, and after completion of the surveys. The Contractor may measure the sections during the survey as well.

The purpose of the three sections is to show that the measurements prior to the start of the surveys, and on completion of the surveys, are within the guidelines for validation acceptance criteria of Table 10 (longitudinal profiler) and Table 4-2 (transverse profiler) of TMH13. The initial survey will then serve as benchmark, to which the second survey will be compared.

The three sections will comply with the validation requirements for profilers, as described in Table 9 (longitudinal profiler) and Table 4-1 (transverse profiler) of TMH13 for lower reliability validation.

The three sections will be identified by the Employer and Contractor together from the visual assessment condition and include one in good condition, one in fair condition and one in poor condition, all in line with the requirement of measurable sections. The Contractor will mark these sections as needed. Once surveyed, the data shall be made available to the Employer.

In between measurements of the three sections are recommended to lower the risk of the Contractor. Should the last survey indicate non-compliance to the guidelines for validation acceptance criteria of TMH13, the full survey will be in jeopardy. If any interim surveys have been done, these can serve as proof that at least a part of the survey has been done with acceptable equipment.

Should replacement equipment be introduced during the survey, they first, before commencing production surveys, have to survey the three sections and the data shall be immediately made available to the Employer.

Deflectometer Equipment

Control testing shall be performed from time to time during the survey to ensure that the equipment output is still valid, and that the accuracy and precision of the device is still within specification.

Short and long-term repeatability shall be proven. Contractor can recommend a repeatability protocol, alternatively the following shall be followed. This is apart from the daily deflection repeatability check.

Repeatability measurements shall be performed on 'Validation Sections' prior to and after the main survey has been completed. These Validation Sections shall be designated by the Employer.

The Contractor shall perform FWD tests at no fewer than 3 validation sites, each with a minimum of three test positions. Prior to the start of the network survey, and on completion of the network survey, the Contractor shall perform the FWD tests. Apart from the compulsory two surveys, it is also recommended that the Contractor conduct FWD testing on the same three sites halfway through the contract. The sets of results will be compared to one another to establish if the results that were obtained are in general agreement.

The Contractor shall present these results in the form of a Quality Control / Assurance (QA) Report to the Employer. The maximum allowable deviation in test deflections shall be determined by the Engineer at the time of testing and acceptance of these results will be at the Engineer's discretion.

C3.2.6 Operational Control Procedures

The operators of measurement devices should have an in-depth understanding of the influence of all operational elements on the measurement process. As part of the Total Contract Quality Plan, the Contractor shall submit a detailed checklist which should outline daily checks that will be performed.

Operational procedures shall be described in the Total Contract Quality Plan and shall include at least the daily checks on general maintenance, warm-up time, checking of electronic components, output and data collection, bounce test, height sensor accuracy check, straightedge test. It is a specific requirement of the Total Contract Quality Plan that a record be kept of the checks. Similar checks shall be described for deflectometer equipment.

C3.2.7 Total Contract Quality Plan

The Tenderer shall submit a draft Total Contract Quality Plan (TCQP) with the tender (refer T2.3-G). The TCQP will facilitate integration between the contract document and the Contractor's Quality Management System. The plan shall include at least the following, but should not be limited to these items only:

- A full description of the survey equipment

- Software to be used and methods for validating software accuracy (for transverse profiles, handling of anomalies introduced by kerbs and shoulder drop-offs)
- Data processing details, sampling intervals, anti-aliasing and other filters (profilers)
- Transverse profile analysis and method to be used
- Procedure and details of training of personnel to conduct the survey
- Quality control checklists to be completed on a daily, weekly and monthly basis (provide examples)
- Contingency plans to cover data back-up, equipment breakdown, change of personnel, etc.
- Procedures and methods that will be followed during the survey, including start and end procedures at each road
- Ongoing checks to ensure the distance measurement is accurate and valid
- Data reporting formats
- Control procedures to ensure accuracy of data processing, backup, and prevention of file corruption

The Employer will assess the comprehensiveness and completeness of the draft TCQP on award of the contract, and inform the Contractor of its acceptability, or not. The Contractor shall then finalise the plan and submit it for final verification by the Employer. No surveys shall commence until the TCQP is finalised to the satisfaction of the Employer.

C3.2.8 Health and Safety Plan

The Tenderer shall submit a draft Health and Safety Plan with the tender (refer T2.3-F). The plan shall support the Section 37(2) contract to be concluded between the Employer and Contractor. The plan shall include at least the following, providing evidence of the Tenderer's planning regarding the following aspects of health and safety and include at least the following headings (but should not be limited to these items only):

- Safety precautions for surveys
- Safety procedures during execution of the surveys
- Emergency procedures in cases of incidents
- Compliance with OHSA as relevant

The Employer and/or Employer's agent will assess the draft Health and Safety Plan and comment to the successful tenderer on the acceptability of the plan and any shortcomings. The draft plan must then be updated to the satisfaction of the Employer before the Contractor commences any surveys.

At least one orange, rotating safety lamp and suitable warning signs, adequate for ensuring his own safety, must be fitted by the Contractor at all relevant times to the vehicle(s) used for carrying out the surveys. The Contractor shall obtain permission for the use of rotating and flashing lights from the appropriate authorities in Gauteng. The Employer accepts no responsibility for any eventuality that may occur during execution of the surveys, whether for tendering purposes or after appointment. The Contractor is to perform the work entirely at his own risk and must ensure that suitable safety precautions are taken at all times, these shall include appropriate warning signs on the vehicle(s) and the road where necessary, and wearing of approved high visibility safety vests.

The use of a separate vehicle accompanying the Deflection survey vehicle and which carries sufficient warning signs and lights and forms a buffer between the stationed FWD equipment and the oncoming traffic from the back is highly recommended.

The Tenderer shall be responsible for providing his own comprehensive insurance that covers all equipment and risks. To the maximum extent permissible in law, the Tenderer shall indemnify the Employer against all claims or liability arising from the work the Tenderer shall perform as part of this project.

C3.2.9 Data Formats – Profiler Equipment

All survey results shall be presented to the Employer in an electronic format. All results shall be provided with a reference back to the GIS network dataset, referenced by road number, and kilometre distance along the road. Note however that data shall be supplied non-rubber-banded according to the distance measurement instrument readings of the Profiler Equipment. The start km position of the road, according to the tabular link description information, shall be used as the start of the survey. All link starts shall be recorded on the dataset, allowing later rubber-banding to be done per link (which will be better than rubber-banding per road only).

Tabular data

For tabular road profile data measurement results, the required format is a Microsoft Access database, with tables within the database for each separate data item (e.g. longitudinal profile, rutting or texture). The Access database shall contain the GIS dataset's attribute data table as a master table, and where applicable resulting tables containing field measurements shall contain a reference to the GIS master table.

The Contractor shall ensure that there is a one-to-one correspondence between records in the GIS master table and the measurement data's records, i.e. there shall be no measurement data record that does not contain a reference to the road number and kilometre distance. Referential integrity shall be enforced in the Access database. There will, in other words, not be for example roughness measurements that are not associated with a road number and a chainage.

The Contractor shall confirm acceptability of his data formats with the Employer prior to the start of any surveys.

Image data

All images shall be provided in either JPEG or PNG format as individual files at each 10 m photographed location.

A Microsoft Access database shall be provided containing an image index table which links image files with road in the GIS network, with the following fields:

Column	Description
ID	Sequential, long integer image identifier / primary key
Operator Name	The name of the operator shall be stated at the top of each file. The data format of this column shall be: text.
Road Number	The road number as contained in the road information table shall be mentioned in this column. The data format in this column shall be: text.
Lane No	The format of this column shall be an integer. (e.g. 1 or 2)
GPS longitude Coordinate	The format shall be degrees, minutes and seconds for the end of the 10 metre photographed section.
GPS latitude Coordinate	The format shall be degrees, minutes and seconds for the end of the 10 metre photographed section.
GPS height Coordinate	The format shall be metres above sea level (two decimal places) for the end of the 10 metre photographed section.
km Chainage	The km position of the image shall be stated.
Date and time	Date and time of the image
Image file name	File name – see numbering and naming convention below.

Each image file's name shall correspond to the ID in the table above, e.g. 1000.png or 1000.jpg, if the ID of its corresponding image index record is 1000.

The images shall contain the fields shown in the table above embedded at the top of each image in clearly visible text.

The Contractor shall, for each road in the GIS dataset, generate a video of the road by means of concatenating the JPEG or PNG images into an AVI or MPEG video file. There shall be one video file for each road.

C3.2.10 Data Formats – Deflectometer Equipment

All survey results shall be presented to the Employer in an electronic format. All results shall be provided with a reference back to the GIS network dataset, referenced by road number, and kilometre distance along the road. The start km position of the road, according to the tabular link description information, shall be used as the start of the survey. All link starts shall be recorded on the dataset, allowing later rubber-banding to be done per link (which will be better than rubber-banding per road only). Furthermore, the GPS coordinates of each FWD test point, i.e. the latitude and longitude of the centre of the load plate, shall be supplied to the Employer.

For tabular FWD data measurement results, the required format is a Microsoft Access database. The Access database shall contain the GIS dataset's attribute data table as a master table, and where applicable resulting tables containing field measurements shall contain a reference to the GIS master table.

The Contractor shall ensure that there is a one-to-one correspondence between records in the GIS master table and the measurement data's records, i.e. there shall be no measurement data record that does not contain a reference to the road number and kilometre distance. Referential integrity shall be enforced in the Access database. There will, in other words, not be for example FWD measurements that are not associated with a road number and a chainage. Should there be any such measurements that are not properly referenced to the GIS element in the base network the dataset will not be accepted.

The Contractor shall confirm acceptability of his data formats with the Employer prior to the start of any surveys.

C3.2.11 Work Programme

The Contractor must, within seven calendar days after the appointment, present a detailed programme of work for their proposed surveys. Weekly submission of progress in electronic format to the Employer is a requirement of the Contract. This is to enable the Employer to be fully aware of progress at all times during the contract period. Failure to provide weekly progress will result in penalties or in the worst case the termination of the Contract.

The detailed programme shall list the roads to be surveyed for every week of the programme. The submitted progress will be compared against the weekly programmes by the Employer for progress. It is thus expected from the Contractor to submit a weekly report of progress, delays, reasons for delays, incidents, and the plan for catching up, should the Contractor be behind programme.

C3.2.12 Deliverables of this Contract

The following are the deliverables for the surveillance measurements:

- Submission of draft Quality Control Plan (as part of tender), and after appointment, final Quality Control Plan (including Employer's comments).
- Submission of draft Health and Safety Plan (as part of tender), and after appointment, final Health and Safety Plan (including Employer's comments).
- Support to the Employer in establishing three verification sections for profiler verification.
- Support to the Employer in establishing three verification sections for FWD verification.
- Data as collected on the three verification sections at the start of the project, and again at the end of the project.
- Work programme and weekly progress as discussed in Section C3.2.11.
- Data as measured and processed according to the specified formats.

- The maps and road identification information should clearly indicate all corrections and/or additions made to the road data and should also be handed in.

C3.2.13 Penalties

Failure to complete the survey and submit the deliverables by the agreed date will result in a penalty of R 5 000.00 per day or part thereof for late submission of deliverables. Contractors can only claim extension of time on well-motivated reasons, such as delays due to rain, provided that they have documented such delays in their weekly progress reports. No claim for extension of time will be accepted if weekly progress reports were not submitted during the Contract period.

Penalties/pro rata adjustments will be made for the following:

- Non submission of an initial programme;
- Non or late submission of weekly progress reports;
- The extent to which the survey failed the verification quality checks.

C3.3 SCOPE OF WORK AND REQUIREMENTS REGARDING SUPPORT AND SDP

- Provide technical and engineering support on asset management activities; and
- Assist with Departmental Staff Development Programme (SDP) so as to improve department skills, competency and performance.

PART C4: ANNEXURES

ANNEXURE A: ROAD LINKS (EXAMPLE)

EXAMPLE OF ROAD LINK INFORMATION TO BE PROVIDED TO SERVICE PROVIDER

Road nr	C/way Direction : Pos/Neg	Class	Class Description	Surface	Link Number	Link Length (km)	Link From Description	Link End Description	Link From km	Link End km	From Node Type	To Node Type	Urban/Rural	TYPE_DESC	Route Nr
P126/1	P	U2	Major arterial	Paved	P126/1_0001P	6.13	Start road (old P64/1)	P139/1	0	6.13	+	+	Urban	Dual c/way Road	N14
P126/1	P	U2	Major arterial	Paved	P126/1_0002P	0.03	P139/1	P139/1	6.13	6.16	+	+	Urban	Dual c/way Road	N14
P126/1	P	U2	Major arterial	Paved	P126/1_0003P	1.73	P139/1	End of dual c/way	6.16	7.89	+	ED	Urban	Dual c/way Road	N14
P126/1	P	U3	Minor arterial	Paved	P126/1_0004P	0.88	End of dual c/way	Start of dual c/way	7.89	8.77	ED	BD	Urban	Ave Std Single c/wa	N14
P126/1	P	U2	Major arterial	Paved	P126/1_0005P	0.64	Start of dual c/way	End of dual c/way	8.77	9.41	BD	ED	Urban	Dual c/way Road	N14
P126/1	P	U3	Minor arterial	Paved	P126/1_0006P	5.46	End of dual c/way	S969	9.41	14.87	ED	+	Urban	Ave Std Single c/wa	N14
P126/1	P	U3	Minor arterial	Paved	P126/1_0007P	2.08	S969	P39/1	14.87	16.95	+	+	Urban	Ave Std Single c/wa	N14
P126/1	P	U3	Minor arterial	Paved	P126/1_0008P	0.02	P39/1	P39/1	16.95	16.97	+	+	Urban	Ave Std Single c/wa	N14
P126/1	P	U3	Minor arterial	Paved	P126/1_0009P	8	P39/1	D540	16.97	24.97	+	TR	Urban	Ave Std Single c/wa	N14
P126/1	P	R3	Minor arterial	Paved	P126/1_0010P	2.11	D540	P74/1	24.97	27.08	TR	T	Rural	Ave Std Single c/wa	N14
P126/1	P	R3	Minor arterial	Paved	P126/1_0011P	6.82	P74/1	D1244	27.08	33.9	T	TL	Rural	Ave Std Single c/wa	N14
P126/1	P	U3	Minor arterial	Paved	P126/1_0012P	1.04	D1244	S1011	33.9	34.94	TL	+	Urban	Ave Std Single c/wa	N14
P126/1	P	R3	Minor arterial	Paved	P126/1_0013P	2.36	S1011	P16/1	34.94	37.3	+	+	Rural	Ave Std Single c/wa	N14
P126/1	N	U2	Major arterial	Paved	P126/1_0001N	6.15	Start road (old P64/1)	P139/1	0	6.15	+	+	Urban	Dual c/way Road	N14
P126/1	N	U2	Major arterial	Paved	P126/1_0002N	0.03	P139/1	P139/1	6.15	6.18	+	+	Urban	Dual c/way Road	N14
P126/1	N	U2	Major arterial	Paved	P126/1_0003N	1.72	P139/1	End of dual c/way	6.18	7.9	+	ED	Urban	Dual c/way Road	N14
P126/1	N	U2	Major arterial	Paved	P126/1_0004N	0.64	Start of dual c/way	End of dual c/way	7.9	8.54	BD	ED	Urban	Dual c/way Road	N14

ANNEXURE B: MAP OF ROAD NETWORK OF GAUTENG DEPARTMENT OF ROADS AND TRANSPORT

