

NEC3 Supply

Short Contract (SSC3)

A contract between **NTCSA SOC Ltd (Reg No. 2021/539129/30)**

and **[•]**

for **Supply and deliver to site of 2X Infrared Camera Kits
for the Western Grid.**

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Documentation prepared by: **Viwe Hermanus**

C1 Agreements & Contract Data

C1.1 Form of Offer and Acceptance

Offer

The Purchaser, identified in the Acceptance page signature block on the next page, has solicited offers to enter into a contract for the procurement of:

Supply and deliver to site of 2X Infrared Cameras for the Western Grid.

The tenderer, identified in the signature block below, has

<i>either</i>	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.
<i>or</i>	examined the draft contract as listed in the Acceptance section and agreed to provide this Offer.

By the representative of the tenderer, deemed to be duly authorised, signing this part of this Form of Offer and Acceptance the tenderer offers to perform all of the obligations and liabilities of the Supplier under the Contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the conditions of contract identified in the Contract Data.

The offered total of the Prices exclusive of VAT is	R[●]
Value Added Tax @ 15% is	R[●]
The offered total of the Prices inclusive of VAT is	R[●]
(in words)	

This Offer may be accepted by the Purchaser by signing the form of Acceptance overleaf and returning one copy of this document including the Schedule of Deviations (if any) to the tenderer before the end of the period of validity stated in the Tender Data, or other period as agreed, whereupon the tenderer becomes the party named as the Supplier in the conditions of contract identified in the Contract Data.

Signature(s)

Name(s) _____

Capacity _____

For the tenderer: _____
(Insert name and address of organisation)

Name & signature of witness _____ Date _____

Acceptance

By signing this part of this Form of Offer and Acceptance, the Purchaser identified below accepts the tenderer's Offer. In consideration thereof, the Purchaser shall pay the Supplier 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 Purchaser 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 1 Agreements and Contract Data, (which includes this Form of Offer and Acceptance)

Part 2 Pricing Data

Part 3 Scope of Work: Goods Information

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

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Tender Schedules as well as any changes to the terms of the Offer agreed by the tenderer and the Purchaser during this process of Offer and Acceptance, are contained in the Schedule of Deviations attached to and forming part of this Form of Offer and Acceptance. No amendments to or deviations from said documents are valid unless contained in this Schedule, which must be signed by the duly authorised representative(s) for both parties.

The tenderer shall within one week of receiving a completed copy of this Agreement, including the Schedule of Deviations (if any), contact the Purchaser's agent (whose details are given in the Contract Data) to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the conditions of contract identified in the Contract Data at, or just after, the date this Agreement comes into effect. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this Agreement.

Notwithstanding anything contained herein, this Agreement comes into effect on the date when the tenderer receives one fully completed copy of this document, including the Schedule of Deviations (if any) together with all the terms of the contract as listed above.

Unless the tenderer (now *Supplier*) within five working days of the date of such receipt notifies the Purchaser in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the Parties.

Signature(s)

Name(s) Mr Kooben Munsamy

Capacity Senior Manager Grids: Western
National Transmission Company
South Africa (NTCSA)

for the Purchaser NTCSA SOC Ltd, Megawatt Park, Maxwell Drive, Sandton, Johannesburg, 2199

Name &
signature of
witness

Date

Note: If a tenderer wishes to submit alternative tender offers, further copies of this document may be used for that purpose, duly endorsed, 'Alternative Tender No. _____'

Schedule of Deviations

Note:

1. To be completed by the Purchaser prior to award of contract. This part of the Offer & Acceptance would not be required if the contract has been developed by negotiation between the Parties and is not the result of a process of competitive tendering.
2. The extent of deviations from the tender documents issued by the Purchaser prior to the tender closing date is limited to those permitted in terms of the Conditions of Tender.
3. A tenderer's covering letter must not be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid be the subject of agreement reached during the process of Offer and Acceptance, the outcome of such agreement shall be recorded here and the final draft of the contract documents shall be revised to incorporate the effect of it.

No.	Subject	Details
1		
2		
3		
4		
5		
6		
7		

By the duly authorised representatives signing this Schedule of Deviations below, the Purchaser and the tenderer agree to and accept this Schedule of Deviations as the only deviations from and amendments to the documents listed in the Tender Data and any addenda thereto 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 Purchaser 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 Form shall have any meaning or effect in the contract between the parties arising from this Agreement.

For the tenderer:

Signature _____

Name _____

Capacity _____

On behalf of _____
(Insert name and address of organisation)

Name & signature of witness _____

Date _____

For the Purchaser

Mr Kooben Munsamy

Senior Manager Grids: Western National
Transmission Company South Africa
(NTCSA)

**NTCSA SOC Ltd, Megawatt Park,
Maxwell Drive, Sandton, Johannesburg,
2199**

C1.2 Contract Data

Data provided by the *Purchaser*

1. Please read the relevant clauses in the NEC3 Supply Short Contract (April 2013) (SSC3)¹ before you enter data. The number of the principal clause is shown for most statements however other clauses may also use the same data.
2. Where the following symbol is used "[•]" - data is required to be inserted.]

Completion of the data in full is essential to create a complete contract.

Clause	Statement	Data
General		
10.1	The <i>Purchaser</i> is (Name):	NTCSA SOC Limited (reg no: 2021/539129/30), a state-owned company incorporated in terms of the company laws of the Republic of South Africa
	Address	Registered office at Megawatt Park, Maxwell Drive, Sandton, Johannesburg
	Tel No.	+27 23 346 8606
	Fax No.	N/A
	E-mail address	crowebc@ntcsa.co.za
11.2(4)	The <i>delivery date</i> is	TBC
11.2(5)	The Goods Information is in	the document called 'Goods Information' in Part 3 of this contract.
11.2(8)	The <i>goods</i> are	Supply and deliver to site of 2X Infrared Cameras
12.2	The <i>law of the contract</i> is	the Republic of South Africa
13.2	The <i>period for reply</i> is	2 (two) weeks
15.1	The <i>premises</i> are	Cameras to be delivered - 34 Field Street, Worcester 6850
23.1	The <i>Purchaser</i> requires the <i>Supplier</i> to Provide the Goods when instructed by Batch Order.	N/A
23.1	If the <i>goods</i> are instructed by Batch Order,	
	the batch order interval is	N/A
	the end date is	N/A
	the quantity range of <i>goods</i> in a batch is	N/A
30.1	The <i>starting date</i> is.	TBC

¹ Available from Engineering Contract Strategies on www.ecs.co.za Tel 011 803 3008, Fax 086 539 1902

41.1	The <i>defects date</i> is	2 (two) weeks after delivery
42.2	The period for the correction of Defects after Delivery is	8 (eight) weeks
50.1	The <i>assessment day</i> is the	30 (thirty) days after delivery of goods.
50.5	The <i>delay damages</i> are	0.5% per day to maximum of 5 % value of the purchase order
51.2	The interest rate on late payment is	0.5% per complete month of delay
86.1	The <i>Supplier's</i> liability to the <i>Purchaser</i> for indirect or consequential loss, including loss of profit, revenue and goodwill is limited to	Zero
86.2	The <i>Supplier</i> is not liable to the <i>Purchaser</i> for loss of or damage to the <i>Purchaser's</i> property in excess of	Total of the prices
93.1	The <i>Adjudicator</i> is	the person selected from the ICE-SA Division (or its successor body) of the South African Institution of Civil Engineering Panel of Adjudicators by the Party intending to refer a dispute to him (see www.ice-sa.org.za). If the Parties do not agree on an Adjudicator the Adjudicator will be appointed by the Arbitration Foundation of Southern Africa (AFSA).
93.2(2)	The <i>Adjudicator nominating body</i> is:	the Chairman of ICE-SA a joint Division of the South African Institution of Civil Engineering and the Institution of Civil Engineers (UK) or its successor body (See www.ice-sa.org.za).
93.4	The <i>tribunal</i> is:	arbitration.
	The place where arbitration is to be held is	South Africa, Cape Town
	If the <i>tribunal</i> is arbitration, the arbitration procedure is	the latest edition of Rules for the Conduct of Arbitrations published by The Association of Arbitrators (Southern Africa) or its successor body.
11.1	The <i>conditions of contract</i> are the NEC3 Supply Short Contract (April 2013)^{2 3} and the following additional conditions.	

² Can be obtained from Engineering Contract Strategies on www.ecs.co.za, Tel 011 803 3008, Fax 086 539 1902

³ If the December 2009 edition is being used, replace April 2013 with December 2009

Z1 Cession delegation and assignment

- Z1.1 The *Supplier* does not cede, delegate or assign any of its rights or obligations to any person without the written consent of the *Purchaser*.
- Z1.2 Notwithstanding the above, the *Purchaser* may on written notice to the *Supplier* cede and delegate its rights and obligations under this contract to any of its subsidiaries or any of its present divisions or operations which may be converted into separate legal entities as a result of the restructuring of the Electricity Supply Industry and the Electricity Distribution Industry.

Z2 Change of Broad Based Black Economic Empowerment (B-BBEE) status

- Z2.1 Where a change in the *Supplier's* legal status, ownership or any other change to his business composition or business dealings results in a change to the *Supplier's* B-BBEE status, the *Supplier* notifies the *Purchaser* within seven days of the change.
- Z2.2 The *Supplier* is required to submit an updated verification certificate and necessary supporting documentation confirming the change in his B-BBEE status to the *Purchaser* within thirty days of the notification or as otherwise instructed by the *Purchaser*.
- Z2.3 Where, as a result, the *Supplier's* B-BBEE status has decreased since the Contract Date the *Purchaser* may either re-negotiate this contract or alternatively, terminate the *Supplier's* obligation to Provide the Goods.
- Z2.4 Failure by the *Supplier* to notify the *Purchaser* of a change in its B-BBEE status may constitute a reason for termination. If the *Purchaser* terminates in terms of this clause, the procedures on termination are the same as for Reason 3 identified in clause 90.3.

Z3 Waiver and estoppel: Add to clause 12.3:

- Z3.1 Any extension, concession, waiver or relaxation of any action stated in this contract by the Parties, or the *Adjudicator* does not constitute a waiver of rights, and does not give rise to an estoppel unless the Parties agree otherwise and confirm such agreement in writing.

Z4 Provision of a Tax Invoice and interest. Add to clause 51

- Z4.1 The *Supplier* provides the *Purchaser* with a tax invoice in accordance with the *Purchaser's* procedures stated in the Goods Information, showing the correctly assessed amount due.
- Z4.2 If the *Supplier* does not provide a tax invoice by the time required in this contract for his assessment of each amount due, the time by when the *Purchaser* is to make a payment is extended by a period equal in time to the delayed submission of the correct tax invoice. Interest due by the *Purchaser* in terms of core clause 51.2 is then calculated from the delayed date by when payment is to be made.
- Z4.3 The *Supplier* (if registered in South Africa in terms of the companies Act) is required to comply with the requirements of the Value Added Tax Act, no 89 of 1991 (as amended) and to include the *Purchaser's* VAT number 4710303126 on each invoice he submits for payment.

Z5 Purchaser's limitation of liability

- Z5.1 The *Purchaser's* liability to the *Supplier* for the *Supplier's* indirect or consequential loss is

limited to R0.00 (zero Rand)

Z5.2 The *Supplier's* entitlement under the indemnity in 83.1 is provided for in 60.1(8) and the *Purchaser's* liability under the indemnity is limited.

Z6 Termination: Add to clause 90.2 before (Reason 1)

Z6.1 or had a judicial management order granted against it.

Z7 Addition to clause 50.5

Z7.1 If the amount due for the *Supplier's* payment of *delay damages* reaches the limits stated in this Contract Data (if any), the *Purchaser* may terminate the *Supplier's* obligation to Provide the Goods using the same procedures and payment on termination as those applied for Reason 3. Identified in clause 90.3.

Z8 Ethics

For the purposes of this Z-clause, the following definitions apply:

Affected Party	means, as the context requires, any party, irrespective of whether it is the <i>Supplier</i> or a third party, such party's employees, agents, or Subcontractors or Subcontractor's employees, or any one or more of all of these parties' relatives or friends,
Coercive Action	means to harm or threaten to harm, directly or indirectly, an Affected Party or the property of an Affected Party, or to otherwise influence or attempt to influence an Affected Party to act unlawfully or illegally,
Collusive Action	means where two or more parties co-operate to achieve an unlawful or illegal purpose, including to influence an Affected Party to act unlawfully or illegally,
Committing Party	means, as the context requires, the <i>Supplier</i> , or any member thereof in the case of a joint venture, or its employees, agents, or Subcontractors or the Subcontractor's employees,
Corrupt Action	means the offering, giving, taking, or soliciting, directly or indirectly, of a good or service to unlawfully or illegally influence the actions of an Affected Party,
Fraudulent Action	means any unlawfully or illegally intentional act or omission that misleads, or attempts to mislead, an Affected Party, in order to obtain a financial or other benefit or to avoid an obligation or incurring an obligation,
Obstructive Action	means a Committing Party unlawfully or illegally destroying, falsifying, altering or concealing information or making false statements to materially impede an investigation into allegations of Prohibited Action, and
Prohibited Action	means any one or more of a Coercive Action, Collusive Action Corrupt Action, Fraudulent Action or Obstructive Action.

Z8.1 A Committing Party may not take any Prohibited Action during the course of the procurement of this contract or in execution thereof.

Z8.2 The *Purchaser* may terminate the *Supplier's* obligation to Provide the Services if a Committing Party has taken such Prohibited Action and the *Supplier* did not take timely and appropriate action to prevent or remedy the situation, without limiting any other rights or remedies the *Purchaser* has. It is not required that the Committing Party had to have been found guilty, in court or in any other similar process, of such Prohibited Action before the *Purchaser* can terminate the *Supplier's* obligation to Provide the Services for this reason.

- Z8.3 If the *Purchaser* terminates the *Supplier's* obligation to Provide the Services for this reason, the amounts due on termination are those intended in core clauses 92.1 and 92.2.
- Z8.4 A Committing Party co-operates fully with any investigation pursuant to alleged Prohibited Action. Where the *Purchaser* does not have a contractual bond with the Committing Party, the *Supplier* ensures that the Committing Party co-operates fully with an investigation.

Z9 Insurance

Replace condition of contract 84 with the following:

Insurance cover 84

- 84.1** When requested by a Party, the other Party provides certificates from his insurer or broker stating that the insurances required by this contract are in force.
- 84.2** The *Supplier* provides the insurances in this Insurance Table A from the *starting date* until Delivery and against any risks he carries under this contract between Delivery and the *defects date*.

INSURANCE TABLE A

Insurance against	Minimum amount of cover or minimum limit of indemnity
Loss of or damage to the goods, plant and materials	<p>The replacement cost where not covered by the <i>Purchaser's</i> insurance.</p> <p>The <i>Purchaser's</i> policy deductible as at contract date where covered by the <i>Purchaser's</i> insurance.</p>
Liability for loss of or damage to property (except the goods, plant and materials and equipment) and liability for bodily injury to or death of a person (not an employee of the <i>Supplier</i>) caused by activity in connection with this contract	<p><u>Loss of or damage to property</u></p> <p><u><i>Purchaser's</i> property</u></p> <p>The replacement cost where not covered by the <i>Purchaser's</i> insurance.</p> <p>The <i>Purchaser's</i> policy deductible as at contract date, where covered by the <i>Purchaser's</i> insurance.</p>

	<u>Other property</u> The replacement cost Death of or bodily injury The amount required by the applicable law.
Liability for death of or bodily injury to employees of the <i>Supplier</i> arising out of and in the course of their employment in connection with this contract	The amount required by the applicable law

84.2 The Purchaser provides the insurances in this Insurance Table B

INSURANCE TABLE B

Insurance against or name of policy	Minimum amount of cover or minimum limit of indemnity
Assets All Risk	Per the insurance policy document
Contract Works insurance	Per the insurance policy document
Environmental Liability	Per the insurance policy document
General and Public Liability	Per the insurance policy document
Transportation (Marine)	Per the insurance policy document
Motor Fleet and Mobile Plant	Per the insurance policy document
Terrorism	Per the insurance policy document
Cyber Liability	Per the insurance policy document
Nuclear Material Damage and Business Interruption	Per the insurance policy document
Nuclear Material Damage Terrorism	Per the insurance policy document

Z10 Nuclear Liability

Z10.1 The *Purchaser* is the operator of the Koeberg Nuclear Power Station (KNPS), a nuclear installation, as designated by the National Nuclear Regulator of the Republic of South Africa, and is the holder of a nuclear licence in respect of the KNPS.

Z10.2 The *Purchaser* is solely responsible for and indemnifies the *Supplier* or any other person against any and all liabilities which the *Supplier* or any person may incur arising out of or resulting from nuclear damage, as defined in Act 47 of 1999, save to the extent that any liabilities are incurred due to the unlawful intent of the *Supplier* or any other person or the presence of the *Supplier* or that person or any property of the *Supplier* or such person at or in the KNPS or on the KNPS site, without the permission of the *Purchaser* or of a person acting on behalf of the *Purchaser*.

Z10.3 Subject to clause Z10.4 below, the *Purchaser* waives all rights of recourse, arising from the aforesaid, save to the extent that any claims arise or liability is incurred due or attributable to the unlawful intent of the *Supplier* or any other person, or the presence of the *Supplier* or that person or any property of the *Supplier* or such person at or in the KNPS or on the KNPS site, without the permission of the *Purchaser* or of a person acting on behalf of the *Purchaser*.

Z10.4 The *Purchaser* does not waive its rights provided for in section 30 (7) of Act 47 of 1999, or any replacement section dealing with the same subject matter.

Z10.5 The protection afforded by the provisions hereof shall be in effect until the KNPS is decommissioned.

Z11 Asbestos

For the purposes of this Z-clause, the following definitions apply:

AAIA	means approved asbestos inspection authority.
ACM	means asbestos containing materials.
AL	means action level, i.e. a level of 50% of the OEL, i.e. 0.1 regulated asbestos fibres per ml of air measured over a 4 hour period. The value at which proactive actions is required in order to control asbestos exposure to prevent exceeding the OEL.
Ambient Air	means breathable air in area of work with specific reference to breathing zone, which is defined to be a virtual area within a radius of approximately 30cm from the nose inlet.
Compliance Monitoring	means compliance sampling used to assess whether or not the personal exposure of workers to regulated asbestos fibres is in compliance with the Standard's requirements for safe processing, handling, storing, disposal and phase-out of asbestos and asbestos containing material, equipment and articles.
OEL	means occupational exposure limit.
Parallel Measurements	means measurements performed in parallel, yet separately, to existing measurements to verify validity of results.
Safe Levels	means airborne asbestos exposure levels conforming to the Standard's requirements for safe processing, handling, storing, disposal and phase-out of asbestos and asbestos containing material, equipment and articles.
Standard	means the <i>Purchaser's</i> Asbestos Standard 32-303: Requirements for Safe Processing, Handling, Storing, Disposal and Phase-out of Asbestos and Asbestos

Containing Material, Equipment and Articles.

SANAS means the South African National Accreditation System.

TWA means the average exposure, within a given workplace, to airborne asbestos fibres, normalised to the baseline of a 4 hour continuous period, also applicable to short term exposures, i.e. 10-minute TWA.

Z11.1 The *Purchaser* ensures that the Ambient Air in the area where the *Supplier* will Provide the Services conforms to the acceptable prescribed South African standard for asbestos, as per the regulations published in GNR 155 of 10 February 2002, under the Occupational Health and Safety Act, 1993 (Act 85 of 1993) ("Asbestos Regulations"). The OEL for asbestos is 0.2 regulated asbestos fibres per millilitre of air as a 4-hour TWA, averaged over any continuous period of four hours, and the short term exposure limit of 0.6 regulated asbestos fibres per millilitre of air as a 10-minute TWA, averaged over any 10 minutes, measured in accordance with HSG248 and monitored according to HSG173 and OESSM.

Z11.2 Upon written request by the *Supplier*, the *Purchaser* certifies that these conditions prevail. All measurements and reporting are effected by an independent, competent, and certified occupational hygiene inspection body, i.e. a SANAS accredited and Department of Employment and Labour approved AAIA. The *Supplier* may perform Parallel Measurements and related control measures at the *Supplier's* expense. For the purposes of compliance the results generated from Parallel Measurements are evaluated only against South African statutory limits as detailed in clause Z11.1. Control measures conform to the requirements stipulated in the AAIA-approved asbestos work plan.

Z11.3 The *Purchaser* manages asbestos and ACM according to the Standard.

Z11.4 In the event that any asbestos is identified while Providing the Services, a risk assessment is conducted and if so required, with reference to possible exposure to an airborne concentration of above the AL for asbestos, immediate control measures are implemented and relevant air monitoring conducted in order to declare the area safe.

Z11.5 The *Supplier's* personnel are entitled to stop working and leave the contaminated area forthwith until such time that the area of concern is declared safe by either Compliance Monitoring or an AAIA approved control measure intervention, for example, per the emergency asbestos work plan, if applicable.

Z11.6 The *Supplier* continues to Provide the Services, without additional control measures presented, on presentation of Safe Levels. The contractually agreed dates to Provide the Services, including the Completion Date, are adjusted accordingly. The contractually agreed dates are extended by the notification periods required by regulations 3 and 21 of the Asbestos Regulations.

Z11.7 Any removal and disposal of asbestos, asbestos containing materials and waste, is done by a registered asbestos contractor, instructed by the *Purchaser* at the *Purchaser's* expense, and conducted in line with South African legislation.

Data provided by the *Supplier* (the *Supplier's Offer*)

The tendering Supplier is advised to read both the NEC3 Supply Short Contract (April 2013) and the relevant parts of its Guidance Notes (SSC3-GN)⁴ in order to understand the implications of this Data which the tenderer is required to complete. An example of the completed Data is provided on page 28 of the SSC3 Guidance Notes and Flow Charts.

Completion of the data in full is essential to create a complete contract.

10.1	The <i>Supplier</i> is (Name):	[•]
	Address	[•]
	Tel No.	[•]
	Fax No.	[•]
	E-mail address	[•]
11.2(7)	The Price Schedule is in	the document called 'Price Schedule' in Part 2 of this contract.
11.2(7)	The offered total of the Prices	See C1.1 Form of Offer and Acceptance
63.2	The percentage for overheads and profit added to the Defined Cost is	[•]%

⁴ Available from Engineering Contract Strategies on www.ecs.co.za Tel 011 803 3008, Fax 086 539 1902.

C2 Pricing Data

C2.1 Pricing assumptions

Entries in the first four columns of this Price Schedule are made either by the *Purchaser* or the tenderer. If the *Supplier* is to be paid an amount for the item which is not adjusted if the quantity of goods in the item changes, the tenderer enters the amount in the Price column only, the Unit, Quantity and Rate columns being left blank.

If the *Supplier* is to be paid an amount for the item of goods which is the rate for the goods multiplied by the quantity supplied, the tenderer enters a rate for each item and multiplies it by the Quantity to produce the Price, to be entered in the final column.

The rates and Prices entered for each item includes for all work and other things necessary to supply the item.

C2.2 Price Schedule

The rates and Prices entered for each item includes for all work and other things necessary to supply the item.

Item no.	Description	Unit	Quantity	Rate	Price
1	Cameras Infrared	Ea	2	N/A	

Total of the Prices

C3: Scope of Work

C3.1 Goods Information

1. Description of the *goods*

A high-performance, handheld HD thermal imaging camera designed specifically for professional thermography in industrial, electrical, and mechanical maintenance. Its scope covers in-depth, high-accuracy diagnostic inspections, routine predictive maintenance, and research-grade analysis, featuring a 1024 × 768 detector, wide temperature ranges up to 650°C (1202°F), and exceptional thermal sensitivity (<25 mK).

Camera Kit Description and Content

Infrared camera with lens, small viewfinder eyecup, 2 batteries, battery charger, hard transport case, lanyards, front lens cap, power supplies, printed documentation, SD card (8 GB), cables (USB 2.0 A to USB Type-C, USB Type-C to HDMI, USB Type-C to USB Type-C), Weight of 1.9KG's.

Additional accessories for each kit

IR lens, 12° FOV, 83.4 mm,
16GB SD Memory Card.

Technical Capabilities & Features

- Exceptional Image Quality: 1024 × 768 (786,432 pixels) native resolution, which expands to 3.1 MP .
- High Sensitivity: Thermal sensitivity below 25mK allows the detection of very subtle temperature differences.
- High-Fidelity Optics: Equipped with Precision HDIR lenses, which enable accurate, detailed, and long-range measurements.
- Advanced Image Processing: Features Multi-Spectral Dynamic Imaging to add visible structural details to thermal images, aiding in identification.
- Ergonomic Design: Includes a 120° rotating optical block, making it easy to scan targets at difficult, uncomfortable angles.
- Streamlined Workflow: On-board Inspection Route mode, 1-Touch Level/Span, and a responsive, smartphone-like graphical user interface (GUI)
- Data Management: Images are stored as standard radiometric JPEGs with integrated measurement data, compatible with device software for analysis and reporting.

Key Technical Capabilities for Industrial Maintenance:

- Exceptional Image Quality & Sensitivity: The device has a thermal sensitivity (NETD) of <25 mK @ 30°C, allowing for the detection of very subtle temperature differences, often under 0.01°C, essential for identifying early-stage electrical or mechanical failure.
- Broad Temperature Range & Accuracy: Measures temperatures up to 650°C (1202°F) with an accuracy of ±2°C or ±2% of reading.
- The camera utilizes proprietary image enhancement, including Multi-Spectral Dynamic Imaging and to improve image contrast and resolution for better on-screen interpretation.
- Precision HDIR Lenses: The device uses high-fidelity, interchangeable lenses that are automatically calibrated, providing superior clarity and temperature accuracy from wide-angle to telephoto.

- Onboard Inspection Route: The camera comes with an on-board Inspection Route mode, which allows for downloading, running, and managing pre-planned survey plans directly on the camera, improving workflow for large-scale inspections.
- Ergonomic Design: It features a 120° rotating optical block, allowing for easier, more comfortable scanning of, for instance, overhead, low-level, or hard-to-reach electrical components.
- Advanced Data & Connectivity: The device must record radiometric JPEG images with full measurement data. It also supports non-radiometric IR video recording to the SD card (H.264) and real-time radiometric IR video streaming via USB.

Key Specifications:

- Detector Size: 1024 x 768 pixels.
- Thermal Sensitivity: < 25 mK @ 30°C (86°F).
- Object Temperature Range: -40°C to 150°C (-40°F to 302°F) or 0°C to 650°C (32°F to 1200°F).
- Field of View (FOV): IR lens, 12° FOV, 83.4 mm
- Frame Rate: 30 Hz.
- Display: 4.3" 800 x 480 pixel touchscreen.
- Battery Life: Approximately 2.5 hours, with 2-bay charging.
- Weight: 1.9 kg (4.3 lb).
- Ruggedness: IP54 (IEC 60529), 25 g shock/2 g vibration

Maintenance Application Highlights:

- Electrical Inspection: Detecting hot spots, phase imbalances, and loose connections in Motor Control Centers (MCCs), substations, and transformers.
- Mechanical Maintenance: Monitoring bearings, gearboxes, and couplings for friction or heat degradation.
- Process Monitoring: Tracking temperatures in high-temperature manufacturing processes up to 650°C

2. Specifications

Title	Date or revision	Tick if publicly available
<u>General Specifications:</u>		

3. Constraints on how the *Supplier* Provides the Goods

The Supplier shall:

- Provide the goods in compliance with the requirements and all applicable laws and regulations.
- Provide the goods without causing damage to the *Purchaser's* property or existing site installations.

- Provide the goods only at the site and times agreed with the *Purchaser*.
- Provide the goods using transport and handling methods suitable for fragile or sensitive equipment.
- Provide the goods in full compliance with safety and security requirements at the site.
- Provide the goods with all required documentation, including delivery notes, invoices, certificates of conformity, and software licences.
- Provide the goods in a form ready for immediate use or installation by the *Purchaser* or its representatives.

3.1 Subcontracting – N/A

3.2 Use of standard forms

The following are minimum standard forms that will be applicable in the administration of the contract:

- Risk Assessment Form
- Early Warning
- Notification of default
- Inspection checklists

3.3 Invoicing and payment

In terms of core clause 50 the *Contractor* assesses the amount due and applies to the *Employer* for payment. The *Contractor* applies for payment with a tax invoice addressed to the *Employer* as follows:

The *Supplier* includes the following information on each tax invoice:

- Name and address of the *Contractor*
- The contract number and title;
- *Contractor's* VAT registration number.
- The *Employer's* VAT registration number 4710303126.
- The total Price for Work Done to Date which the *Contractor* has completed.
- Other amounts to be paid to the *Contractor*.
- Less amounts to be paid by or retained from the *Contractor*.
- The change in the amount due since the previous payment being the invoiced amount - excluding VAT, the VAT and including VAT;
- (add other as required)

The *Supplier* attaches the detail assessment of the amount due to each tax invoice showing the Price for Work Done to Date for each item in the Price List for work which he has completed.

Invoices to be sent to Invoiceseskomlocal@eskom.co.za, WesternGridGRs@eskom.co.za and cc crowebc@ntcsa.co.za, hermanv@ntcsa.co.za . All electronic invoices must be sent in PDF format only. All queries and follow-up on invoice payments should be made by contacting the FSS Contact Centre at +27 11 800 5060 or email fss@eskom.co.za

3.4 Records of Defined Cost

The *Supplier* shall:

- Keep records of all defined costs for the goods supplied, including purchase invoices, transport charges, packaging, and any subcontracted services.
- Provides the *Purchaser* access to these records on request for the purpose of verification or audit.

- Keep records in sufficient detail to show compliance with the contract requirements and prices.
- Retain records for a minimum of 5 (five) years after the completion of delivery.
- Ensure all records are accurate, complete, and signed or certified where required.

3.5 B-BBEE and preferencing scheme

The *Supplier* shall:

- Maintain the Required B-BBEE Recognition Level for the duration of the Agreement.
- Provide NTCSA with a valid Verification Certificate and such other information as NTCSA may reasonably request, in respect of which the Contractor claims maintenance for the duration of the Agreement of the Required B-BBEE Recognition Level. For the purpose of this clause “verification Certificate” means a verification certificate and the accompanying documentary proof confirming the B-BBEE Status of a particular entity as issued by an accredited verification agency.

3.6 Cataloguing requirements by the *Supplier*

The *Supplier* shall:

- Provide a catalogue or item list for all goods supplied,
- Labels each item with a unique identifier or serial number that corresponds to the catalogue entry.
- Provide a cross-reference between the delivery notes, serial numbers, and the items listed in the catalogue.
- Provide detailed specifications, manufacturer, model, and version information in the catalogue.
- Provide all software licences and related documentation clearly linked to the corresponding hardware in the catalogue.
- Ensure the catalogue is clear, complete, and delivered in both electronic and hard copy formats (unless otherwise agreed).
- Update the catalogue for any replacements or corrections before final acceptance by *the Purchaser*.
- Provide the catalogue in a format compatible with the *Purchaser’s* asset management or inventory systems.

4. Requirements for the programme

The *Supplier* shall:

- Submit a programme showing the planned delivery dates for all goods.
 - The programme identifies key milestones, including:
- Notice of delivery to *Purchaser* (minimum five (5) working days in advance)
- Actual delivery of goods
- Completion of off-loading and inspection at the *Purchaser’s* site
- Provide the programme in a format acceptable to the *Purchaser*.
- Update the programme if there are changes to the delivery schedule and submits the revised programme promptly.
- Ensure the programme aligns with the delivery dates stated in the Contract Data.
- Notify the *Purchaser* immediately of any potential delays or risks to the agreed programme.
- Provide supporting information for any proposed adjustments to the programme.

5. Services and other things provided by the *Purchaser*

Item	Date by which it will be provided
• access to the delivery site for off-loading the goods	TBC
• any required equipment, personnel, or facilities for safe off-loading, handling, and storage of the goods at the site.	TBC
• instructions regarding site access, security, and safety requirements prior to delivery.	TBC
• any permits or approvals required for delivery to the site.	TBC
• any lifting, handling, or transport equipment required on-site, if not included as part of the <i>Supplier's</i> responsibilities.	TBC
• timely information and support to coordinate delivery, including confirmation of delivery points and availability of personnel.	TBC

6. Supply requirements

The Supplier shall:

- Provide the goods in accordance with the *Purchaser's* technical and quantity requirements as stated in the Goods Information.
- Provide the goods delivered in a safe and secure manner, using transport suitable for fragile or sensitive equipment.
- Deliver the goods to the delivery place stated in the Contract Data

➤ **2 (two) x Camera to: 34 Field Street, Worcester 6850**

- Provide delivery within the hours of access to the site: **08:00 – 16:00, Monday to Friday** or as agreed with the *Purchaser's* representative.
- Provide all goods fully packaged, labelled, and marked with the contract/purchase order number, item description, and delivery destination.

The Supplier provides the following documentation at the time of delivery:

- Delivery note notifying the actual delivery date
- Invoices for payment
- Certificates of conformity, warranties, and serial numbers
- Software licences (NTP) clearly identified for each unit
- The *Supplier* ensures that loading, transport, and unloading comply with applicable laws, regulations, and *Purchaser's* site rules.
- The *Supplier* coordinates delivery with the *Purchaser* to ensure off-loading and receipt are efficient and safe.

7. Rejection or return of defective Goods

- *The Purchaser* reserves the right to inspect the goods upon delivery and/or within a reasonable period thereafter ie. One month of delivery.
- *The Purchaser* shall notify the *Supplier* in writing of the rejection, specifying the nature of the defect or non-conformance.

Upon receipt of such notice, the Supplier shall, at its own cost:

- Collect the rejected Goods
- Repair or replace the Goods
- Remedy the defect within reasonable time / as agreed with the *Purchaser's representative*
- All risks and costs associated with rejected goods shall remain with the *Supplier* until acceptance by the *Purchaser*.