



CRICKET SOUTH AFRICA NPC

(Registration No. 2002/006638/08)

REQUEST FOR PROPOSAL DESCRIPTION:

**THE DESIGN, SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND
VERIFICATION OF LED ARENA FLOODLIGHTING, NEW FLOODLIGHT MASTS AND
ASSOCIATED ELECTRICAL INFRASTRUCTURE, AND MAINTENANCE FOR TEN (10)
YEARS, AT THE BORDER CRICKET GROUNDS (BUFFALO PARK STADIUM),
KUGOMPO CITY**

BID NO: [RFP No. CSA/06/2026-27]

Closing date: Monday, 23 November 2026, at 12h00

NAME OF TENDERER: _____

CSD NUMBER: _____

GENERAL TENDER INFORMATION

TENDER DESCRIPTION	THE DESIGN, SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND VERIFICATION OF LED ARENA FLOODLIGHTING, NEW FLOODLIGHT MASTS AND ASSOCIATED ELECTRICAL INFRASTRUCTURE, AND MAINTENANCE FOR TEN (10) YEARS, AT THE BORDER CRICKET GROUNDS (BUFFALO PARK STADIUM), KUGOMPO CITY
DATE OF ISSUE AND ADVERTISEMENT	Monday, 19 October 2026. Published on the CSA website, the CIDB e-Tender portal
COMPULSORY CLARIFICATION MEETING (via Teams) AND SITE INSPECTION	Tuesday, 27 October 2026, at 10h00 Venue: Border Cricket Grounds (Buffalo Park Stadium), 1 Buffalo Park Drive, Acadia, KuGompo City, with a virtual link (MS Teams) for the clarification meeting. See T1. 1. NB: Bidders attending online must also have a representative present at the compulsory on-site clarification meeting.
STRICT CONDITION OF CLARIFICATION MEETING ATTENDANCE	Persons attending the compulsory briefing/clarification meeting and site visit must be duly authorised to represent the bidder. Persons arriving more than 15 minutes after the commencement of the clarification meeting will not be admitted into the meeting room, and they will be deemed to have not attended the meeting. As such, they will be precluded from submitting a bid.
LAST DATE FOR WRITTEN QUERIES	Friday, 13 November 2026, at 12h00
CLOSING DATE AND TIME	Monday, 23 November 2026 at 12h00
CIDB CONTRACTOR GRADING	It is estimated that tenderers must have a CIDB contractor grading designation of 8EP or higher. Joint ventures are permitted in accordance with the CIDB requirements. An OEM may tender in its own right, be a CIDB-registered joint venture member, or be named as a key Subcontractor, in which case its grading (if any) does not count (see Clause C.2.1.1 of the Tender Data).
EVALUATION	Four stages: Stage 1 – compliance (administrative, eligibility and mandatory technical compliance); Stage 2 – functionality (Stages 2.1 to 2.5, each with a minimum of 75%); Stage 3 – presentation (Stage 3, minimum 75%). Stage 4 – price and specific goals on the 90/10 preference point system
SUBMISSION INSTRUCTIONS	On paper only, by hand or courier to Cricket South Africa, 86 5th Street, corner 5th Street and Glenhove Street, Melrose Estate, Johannesburg, 2196: One original and two copies of Envelope 1 (Technical and Compliance) and of Envelope 2 (Financial Offer), each in a separate sealed envelope, with one (1) USB flash drive containing the Envelope 1 documents. Note: E-mailed tenders will not be accepted. See Clauses C.2.13.2 to C.2.13.9 of the Tender Data.

TENDERER'S REPRESENTATIVE CONTACT INFORMATION:

NAME OF TENDERER:

CONTACT PERSON:

TELEPHONE NUMBER:

CELL PHONE NUMBER:

E-MAIL ADDRESS:

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INTRODUCTION

Cricket South Africa NPC (“CSA”) invites suitably qualified and experienced contractors, including joint ventures, each supported by an artificial lighting original equipment manufacturer (“OEM”) of the luminaires offered, to submit tenders for the removal of the existing floodlights and condemned masts and the design, supply, installation, testing, commissioning and verification of new floodlight masts, a fit-for-purpose LED arena floodlighting installation and associated electrical infrastructure at the Border Cricket Grounds (Buffalo Park Stadium), KuGompo City, together with the maintenance of the installation for ten years after completion.

PART T1: TENDERING PROCEDURES

Number	Heading
T1.1	Tender Notice and Invitation to Tender
T1.1.1	Locality Plan and Site Inspection
T1.2	Tender Data
T1.2.1	Standard Conditions of Tender
T1.2.2	Variations to the Standard Conditions of Tender
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T1.1 TENDER NOTICE AND INVITATION TO TENDER

CRICKET SOUTH AFRICA NPC

BID NO: [RFP No. CSA/06/2026-27]

THE DESIGN, SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND VERIFICATION OF LED ARENA FLOODLIGHTING, NEW FLOODLIGHT MASTS AND ASSOCIATED ELECTRICAL INFRASTRUCTURE, AND MAINTENANCE FOR TEN (10) YEARS, AT THE BORDER CRICKET GROUNDS (BUFFALO PARK STADIUM), KUGOMPO CITY

BID NOTICE

Cricket South Africa NPC (hereinafter referred to as the "Employer" and as the "Client" in the conditions of contract) invites tenders from suitably qualified and experienced contractors (including joint ventures), each supported by an artificial lighting original equipment manufacturer (OEM) of the luminaires offered, for the following works:

Bid Number	Bid Description	Bid Closing Date and Time
[RFP No. CSA/06/2026-27]	THE DESIGN, SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND VERIFICATION OF LED ARENA FLOODLIGHTING, NEW FLOODLIGHT MASTS AND ASSOCIATED ELECTRICAL INFRASTRUCTURE, AND MAINTENANCE FOR TEN (10) YEARS, AT THE BORDER CRICKET GROUNDS (BUFFALO PARK STADIUM), KUGOMPO CITY	Monday, 23 November 2026 at 12h00

It is estimated that tenderers must have a CIDB contractor grading designation of **8EP** or higher. Joint ventures and consortia are eligible in accordance with the CIDB requirements in Clause C.2.1.1B of the Tender Data, under which every member must be registered with the CIDB. The CIDB grading of a subcontractor, including the OEM, cannot be used to meet the grading requirement. The OEM of the luminaires offered may (a) tender in its own right, if it holds this grading, (b) be a member of a joint venture tenderer, if it is itself registered with the CIDB, or (c) be named in the tender as the tenderer's key Subcontractor and provide the authorisations,

undertakings and OEM Guarantee and Undertaking required, in which case it need not be registered with the CIDB. A performance bond of 10% (Option X13) and retention (Option X16) apply. See Clause C.2.1.1 of the Tender Data and Schedules B5 to B7.

The successful tenderer will also conclude an NEC4 Term Service Short Contract for the maintenance of the installation for ten (10) years after Completion (additional condition of contract Z15). The price for the maintenance is part of the tendered price.

Buffalo City Metropolitan Municipality (BCMM) owns the Border Cricket Grounds (Buffalo Park Stadium). Border Cricket, a CSA-affiliated provincial union, occupies the stadium as lessee under a lease with BCMM and is the end user of the installation. The procurement is conducted in accordance with section 217 of the Constitution, the Preferential Procurement Policy Framework Act 5 of 2000, the Preferential Procurement Regulations, 2022, the CIDB prescripts and the Employer's Supply Chain Management Policy.

KEY DATES

Activity	Date and time
Tender advertised and documents available	Monday, 19 October 2026
Compulsory clarification meeting and site inspection	Tuesday, 27 October 2026, at 10h00
Last date for written queries	Friday, 13 November 2026, at 12h00
Closing date and time for submission of tenders	Monday, 23 November 2026 at 12h00
Completion of Stage 1 and Stage 2 evaluation (indicative)	Monday, 7 December 2026
Notification to tenderers invited to present (Stage 3) (indicative)	By Friday, 11 December 2026
Tenderers' presentations (Stage 3)	Tuesday, 5 January 2027
Anticipated award and appointment	Monday, 18 January 2027
Completion of the whole of the works	Monday, 17 May 2027

The dates after the closing date are indicative and may be changed by the Employer

COMPULSORY CLARIFICATION MEETING AND SITE INSPECTION

A compulsory clarification meeting, followed immediately by an in-person site inspection, will take place as follows:

Date and time	Tuesday, 27 October 2026, at 10h00
Venue	Border Cricket Grounds (Buffalo Park Stadium), Portion of Erf 16226, 1 Buffalo Park Drive, Acadia, KuGompo City, 5201, Eastern Cape. Main Entrance Gate. GPS coordinates: -33.007651, 27.919362
Virtual attendance for clarification meeting	Only the clarification meeting will also be available by MS Teams. Tenderers must register by e-mail to hlengiwe@cricket.co.za by Monday, 26 October 2026, at 16h00 to receive the link.
Strict condition of clarification meeting attendance	Persons attending the compulsory briefing/clarification meeting and site visit must be duly authorised to represent the bidder. Persons arriving more than 15 minutes after the commencement of the clarification meeting will not be admitted into the meeting room, and they will be deemed to have not attended the meeting. As such, they will be precluded from submitting a bid.

Site inspection

The site inspection must be attended in person by at least one authorised representative of the tenderer and is mandatory. For a joint venture, attendance by an authorised representative of any member satisfies this requirement. Where the OEM is a key Subcontractor, its attendance is recommended but does not replace attendance by the tenderer.



Persons attending must be duly authorised to represent the tenderer and must sign the attendance register. Schedule A2 (Certificate of Attendance) will be signed on behalf of the Employer at the meeting. A tender submitted by a tenderer that was not represented at the compulsory clarification meeting and site inspection will be rejected.

The minutes of the clarification meeting, including questions and answers, will be issued to all attendees as an addendum.

PREFERENTIAL PROCUREMENT SYSTEM

The 90/10 preference point system prescribed by the Preferential Procurement Regulations, 2022, issued under the Preferential Procurement Policy Framework Act 5 of 2000, will be applied.

EVALUATION CRITERIA

Tenders will be evaluated in four stages, as set out in Clause C.3.11 of the Tender Data:

- (a) **Stage 1 – Compliance:** administrative compliance, eligibility and mandatory technical compliance (pass/fail);
- (b) **Stage 2 – Functionality:** Stage 2.1 Previous Experience; Stage 2.2 Capability of Personnel; Stage 2.3 Method Statement, Programme and Plans; Stage 2.4 Technical Proposal; and Stage 2.5 Life Cycle Costing. A tender must achieve at least 75% in each of Stages 2.1 to 2.5, in sequence, to proceed; and
- (c) **Stage 3 – Presentation** (minimum 75%), followed by

- (d) **Stage 4- Price and Specific Goals:** in which the Financial Offers of the compliant tenderers in Stages 1-3 are opened and scored on the 90/10 preference point system.

Failure to achieve a minimum threshold in any stage will result in the tender being held to be non-responsive and excluded from further evaluation. Functionality and presentation scores are thresholds only and are not carried into Stage 4.

BID PUBLICATION

The tender documents are available free of charge from Monday, 19 October 2026, on the Employer's website [www.cricket.co.za/tenders] and on request by e-mail to hlengiwe@cricket.co.za. The tender is advertised on the CIDB i-Tender system.

BID SUBMISSION

Tenders must be submitted on paper, by hand or courier, at the Employer's offices, **86 5th Street, corner 5th Street and Glenhove Street, Melrose Estate, Johannesburg, 2196**, in accordance with Clauses C.2.13.2 to C.2.13.9 of the Tender Data. Each tender comprises **Envelope 1 (Technical and Compliance)** and **Envelope 2 (Financial Offer)**, each in a separate sealed envelope, with one original and two copies of each envelope, and one (1) USB flash drive containing the Envelope 1 documents in PDF format (and the lighting design files in native format) placed in Envelope 1. E-mailed, or late tenders will not be accepted.

BID CONDITIONS

The Employer does not bind itself to accept the lowest or any tender and reserves the right not to make an award or to cancel the tender in accordance with the Standard Conditions of Tender and its Supply Chain Management Policy. Tenderers must note that the Employer reserves the right to:

- (a) withdraw this request for proposals on good cause shown;
- (b) amend the terms, closing date and time, and specifications of this request for proposals by written addendum issued to all tenderers before the closing time;
- (c) reject all tenders received if it so decides;
- (d) not compensate tenderers for any costs incurred in preparing, submitting, or presenting their tenders;
- (e) reject any tender that does not conform to the requirements of this request for proposals;
- (f) disqualify any tenderer found to have contravened any term of this request for proposals; and
- (g) disqualify any tender submitted after the closing date and time.

In responding, the tenderer acknowledges that it does not rely on any warranty, representation, letter, document, or arrangement, oral or written, made by or on behalf of the Employer, except as expressly provided for in this request for proposals, and that it relies entirely on its own enquiries.

BID ENQUIRIES

No telephonic or verbal enquiries will be accepted. All enquiries must be in writing, marked "Border Floodlighting" in the subject line, and directed to:

Procedural queries	Ms Hlengiwe Madondo, CSA Supply Chain Manager E-mail: hlengiwe@cricket.co.za
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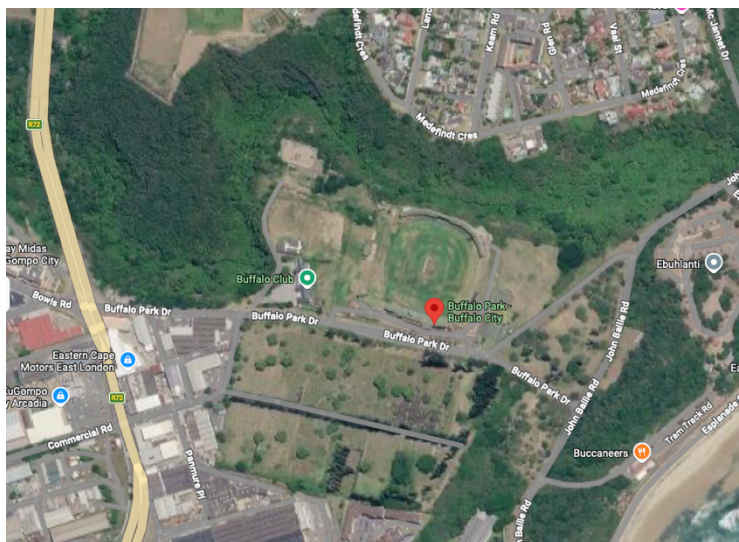
Technical queries	Ms Hlengiwe Madondo, CSA Supply Chain Manager E-mail: hlengiwe@cricket.co.za
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Tenderers may ask that a query be treated as confidential to protect their intellectual property. The Employer will honour such a request where it can do so without giving the tenderer an advantage; otherwise, the query and response will be circulated to all tenderers without identifying the tenderer.

T1.1.1 LOCALITY PLAN AND SITE INSPECTION

The site is the Border Cricket Grounds (Buffalo Park Stadium), Portion of Erf 16226, 1 Buffalo Park Drive, Acadia, KuGompo City, 5201, in the Buffalo City Metropolitan Municipality, Eastern Cape.

During the site inspection, tenderers will be shown the existing (condemned) floodlight masts, the foundation plinths and hold-down bolts, the existing Main LV distribution board, cable routes and electrical supply infrastructure, the broadcast camera positions and the areas available for access, cramage, laydown and storage. All logistical planning and expenses relating to the site inspection are for the tenderer's account. Tenderers must use the site inspection to verify the existing foundation bolt patterns and cable routes and to inspect the foundations, which is relevant to the Contractor's foundation risk (additional condition of contract Z16). The structural engineer's report on the existing masts (Annexure C) is available for inspection at the site inspection and on request from the Supply Chain Manager.



T1.2 TENDER DATA

T1.2.1 Standard Conditions of Tender

The conditions of tender are the Standard Conditions of Tender contained in Annex C of the Construction Industry Development Board (CIDB) Standard for Uniformity in Construction Procurement, published in Board Notice 423 of 2019 in Government Gazette No. 42622 of 8 August 2019 (see www.cidb.org.za).

T1.2.2 Variations to the Standard Conditions of Tender

The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall take precedence in the interpretation of any ambiguity or inconsistency between it and the Standard Conditions of Tender. Each item of data below is cross-referenced to the clause in the Standard Conditions of Tender to which it mainly applies.

The following variations, amendments and additions to the Standard Conditions of Tender apply to this tender.

C.1 General

C.1.1 Actions

Add the following to the end of Clause C.1.1:

“The Employer is Cricket South Africa NPC (registration number 2002/006638/08), referred to as the Client in the conditions of contract. The Employer’s agent for the purposes of this tender is Mr Ebrahim Abrahams, Triocon (Employer’s Agent).”

C.1.2 Tender Documents

Add the following to the end of Clause C.1.2:

“The documents issued by the Employer for the purpose of this tender are listed in the Contents of this request for proposals. The following documents are not issued to tenderers but are incorporated by reference and are available from the publisher concerned:

- (a) CIDB Standard for Uniformity in Construction Procurement, Annex C: Standard Conditions of Tender, Board Notice 423 of 2019, Government Gazette No. 42622 of 8 August 2019;
- (b) NEC4 Engineering and Construction Contract (ECC), June 2017 (with amendments January 2023), Option A: Priced contract with activity schedule;
- (c) the Preferential Procurement Policy Framework Act 5 of 2000 and the Preferential Procurement Regulations, 2022, published in Government Gazette No. 47452 of 4 November 2022;
- (d) the Occupational Health and Safety Act 85 of 1993 and the Construction Regulations, 2014, and the Electrical Installation Regulations, 2009; and
- (e) the Construction Industry Development Board Act 38 of 2000 and the Construction Industry Development Regulations, as amended.”

C.1.4 Communication and Employer's Agent

Add the following to the end of Clause C.1.4:

"All communication between tenderers and the Employer shall be in writing by e-mail to the persons named in the Tender Notice and Invitation to Tender. From the date of issue until the award of the contract, tenderers (including their OEMs, joint venture members and proposed subcontractors) shall not communicate about this tender with any other employee, director or official of the Employer, BCMM, Border Cricket or the Employer's professional service providers. A tenderer who does so may be disqualified."

C.1.6 Procurement Procedures

Substitute the contents of Clause C.1.6 with the following:

"The procurement procedure is an open procedure in which tender offers are submitted using the two-envelope system described in Clauses C.2.13.6 and C.3.5 and evaluated in the four stages set out in Clause C.3.11. Negotiations will not be held with any tenderer, other than the clarification of tenders under Clauses C.2.17 and C.3.11.7, and, if the price of the preferred tender is not market-related, negotiation with the preferred tenderer in accordance with the Employer's Supply Chain Management Policy to achieve a market-related price."

C.2 Tenderer's Obligations**C.2.1 Eligibility**

Add the following to the end of Clause C.2.1.1:

A. CIDB contractor grading designation

Only those tenderers who are registered with the CIDB, or are capable of being so registered prior to the evaluation of submissions, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25(1B) or 25(7A) of the Construction Industry Development Regulations, for an **8EP** class of construction work, are eligible to have their tenders evaluated.

The grading requirement applies to the tenderer that will enter into the contract as the Contractor (the tenderer itself or, for a joint venture, its members in accordance with paragraph B). The CIDB grading of a subcontractor, key Subcontractor (including the OEM where it is a key Subcontractor) or supplier cannot be used to meet it.

B. Joint ventures and consortia

Joint ventures and consortia are eligible to submit tenders provided that:

- (a) every member of the joint venture or consortium is registered with the CIDB or capable of being so registered prior to the evaluation of submissions;

- (b) the lead partner has a contractor grading designation of 8EP, or not lower than one level below the required contractor grading designation in the EP class of construction work (that is, 7EP), and possesses the required recognition status;
- (c) the combined contractor grading designation, calculated in accordance with the Construction Industry Development Regulations using the calculator on the CIDB website, is equal to or higher than a contractor grading designation determined in accordance with the sum tendered for an EP class of construction work, or a value determined in accordance with Regulation 25(1B) or 25(7A) of the Construction Industry Development Regulations;
- (d) the tender is accompanied by a joint venture or consortium agreement specific to this tender, authenticated by a notary public or other official deputed to witness sworn statements, which defines the conditions under which the joint venture will function, its duration, the persons authorised to represent and bind it, and the participation, scope of work and percentage contribution of each member; and
- (e) the value of the work to be performed by each member is within that member's CIDB grading limit. The CIDB Joint Venture Agreement or the SAFCEC Joint Venture Agreement is recommended as a basis.

C. OEM participation

Each tender must be supported by the original equipment manufacturer (OEM) of the luminaires offered. The OEM may participate in one of the following three ways only. In each case the OEM must meet the Stage 1 mandatory technical gate (M1 to M9 in Clause C.3.11.3 and Schedule B6):

- (a) **OEM as tenderer in its own right.** The OEM may submit a tender in its own right if it is itself registered with the CIDB or capable of being so registered prior to the evaluation of submissions, in a contractor grading designation of 8EP or higher, and meets all the other eligibility requirements of this Clause C.2.1.1 on its own. An OEM that tenders in its own right becomes the Contractor and gives the warranties, spares and support obligations of the Scope directly to the Client. Parts A and B of Schedule B7, the OEM Guarantee and Undertaking (C1.3) and additional condition Z13 of the conditions of contract do not then apply, as stated in Z13.7;
- (b) **OEM as joint venture member.** The OEM may be a member of a joint venture or consortium tenderer that meets paragraph B, provided that the OEM is itself registered with the CIDB (in any grade) or capable of being so registered prior to the evaluation of submissions, like every other member. The joint venture is then the Contractor, and the OEM, as a member, is jointly and severally liable with the other members. Parts A and B of Schedule B7, the OEM Guarantee and Undertaking (C1.3) and Z13 do not then apply, as stated in Z13.7; or
- (c) **OEM as key Subcontractor.** Otherwise, the OEM must be named in the tender (Schedule B5) as the tenderer's key Subcontractor for the design, manufacture and supply of the luminaires, drivers and control system and the lighting design. Because the OEM is then a

Subcontractor and not a party to the contract, it need not be registered with the CIDB, and its CIDB status (if any) is not taken into account for eligibility. The Contractor remains fully responsible for Providing the Works as if it had not subcontracted (clause 26.1 of the conditions of contract). An OEM that is a key Subcontractor and is not registered with the CIDB may only design, manufacture, supply, commission and support its products; it may not carry out installation or other construction work on the Site unless it is registered with the CIDB in a contractor grading designation appropriate to the value of that work.

Where the OEM is a key Subcontractor, it must provide, with the tender, the authorisation, undertakings and declarations required in Schedule B6 (Stage 1 Mandatory Technical Compliance) and a signed undertaking (Schedule B7) to execute the OEM Guarantee and Undertaking in the form of C1.3 within 14 days of the Contract Date. The OEM key subcontract is subject to Options X8 and X9 and additional condition Z13 of the conditions of contract, under which the Contractor may not terminate or take similar action against the OEM key subcontract without the Project Manager's acceptance, and the Contractor's rights against the OEM are transferred to the Client.

An OEM acting only as a key Subcontractor may support more than one tenderer, provided that it maintains effective information barriers between the teams supporting different tenderers and signs the declaration in Schedule B6. An OEM that submits a tender in its own right, or is a member of a joint venture tenderer, may not also be named as key Subcontractor, or support in any other way, the tender of any other tenderer; where this occurs, all the tenders concerned will be disqualified (Clause C.2.13.5). The scope of work, resources and share of the contract value of the OEM and of every other subcontractor must be genuine and must be disclosed in Schedules B5 and B7 (see Clause C.4.5).

D. National Treasury Central Supplier Database (CSD)

Tenderers must be registered on the CSD and provide their CSD registration number. Tenderers who are not registered are not precluded from submitting a tender but must be registered before contract award. For joint ventures, this requirement applies to each member.

E. Tax compliance

Tenderers must be registered with the South African Revenue Service (SARS) and provide their CSD registration number and valid SARS tax compliance status PIN. At the point of award, the recommended tenderer must be tax compliant, failing which it must become compliant within such period as the Employer may allow, failing which the tender will be disqualified. Each member of a joint venture must submit its own PIN.

F. Letter of good standing (COIDA)

Tenderers must submit a valid letter of good standing from the Compensation Commissioner or a licensed compensation insurer in terms of the Compensation for Occupational Injuries and Diseases Act 130 of 1993. For joint ventures, each member must submit its own letter.

G. Registered person for electrical installation work

The tenderer, a joint venture member or the proposed electrical subcontractor must employ a registered person (master installation electrician or installation electrician, as appropriate to the work) registered with the Chief Inspector in terms of the Electrical Installation Regulations, 2009, who will issue the certificates of compliance for the electrical installation. The contractor that will carry out the electrical installation work (the tenderer, a joint venture member or the electrical subcontractor) must be registered as an electrical contractor with the Department of Employment and Labour in terms of the Electrical Installation Regulations, 2009, and must hold a letter of good standing from the National Bargaining Council for the Electrical Industry of South Africa (NBCEI). Proof of registration and the letter of good standing must be attached to Schedule B1.

H. Attendance at compulsory clarification meeting and site inspection

Only tenderers who were represented at the compulsory clarification meeting and site inspection, and whose Schedule A2 has been signed on behalf of the Employer, are eligible to submit a tender.

I. Restricted suppliers and tender defaulters

A tenderer, or any of its directors, members, partners or shareholders, that is listed on the National Treasury Database of Restricted Suppliers or the Register for Tender Defaulters is not eligible.

J. Mandatory technical compliance and minimum thresholds

Only tenders that pass Stage 1 (including the mandatory technical compliance requirements M1 to M9 in Clause C.3.11.3) and achieve the minimum thresholds in Stages 2.1 to 2.5 and Stage 3 are eligible for evaluation in Stage 4.

K. Responsible engineers

The tenderer must nominate (1) an electrical engineer registered with ECSA as a Professional Engineer or Professional Engineering Technologist, as the responsible engineer for the electrical and lighting design, who prepares or verifies the photometric design; and (2) a structural engineer registered with ECSA as a Professional Engineer or Professional Engineering Technologist, as the responsible engineer for the design of the masts and the assessment of the foundations. The ECSA registration certificates and CVs must be attached to Schedule B1. The nominated persons may also be key persons in Schedule B9.

C.2.7 Clarification Meeting

Add the following to the end of Clause C.2.7:

“The arrangements for the compulsory clarification meeting and site inspection are as stated in the Tender Notice and Invitation to Tender. Tenderers should be represented by persons suitably qualified and experienced to understand the work involved. Tenderers bear all costs of attending.”

C.2.12 Alternative Tender Offers

Substitute the contents of Clause C.2.12 with the following:

“Alternative tender offers will not be considered. The design proposed by a tenderer in its Technical Proposal (Schedule B16) forms part of its main tender offer and must comply with the Scope.”

C.2.13 Submitting a Tender Offer

C.2.13.2 Add the following to the end of Clause C.2.13.2:

- “Tenders must be submitted on paper only.
- The tenderer submits one original and two copies of Envelope 1 (Technical and Compliance), and
- of Envelope 2 (Financial Offer), each bound and indexed in the order of the Schedule of Returnable Documents, together with
- one (1) USB flash drive containing the Envelope 1 documents in searchable PDF format and the lighting design files in their native format. The USB flash drive is placed in Envelope 1 and **must not contain any pricing information**.
- If a copy or the USB flash drive differs from the original, the original prevails. Failure to comply with these requirements may result in the tender being held to be non-responsive.”

C.2.13.3 Delete the contents of Clause C.2.13.3 and replace with the following:

“Tenders must be delivered by hand or courier at the reception of the Employer’s offices, 86 5th Street, corner 5th Street and Glenhove Street, Melrose Estate, Johannesburg, 2196, between 08h00 and 16h00, Monday to Friday (excluding public holidays), marked for the attention of the Supply Chain Manager.”

C.2.13.4 Add the following after the first sentence of Clause C.2.13.4:

“The tender shall be signed by a person duly authorised to do so.”

C.2.13.5 Add the following to the end of Clause C.2.13.5:

“A tenderer, or a member of a joint venture or consortium, may not submit, or be a member of a joint venture or consortium that submits, more than one tender. Where this occurs, all the tenders concerned will be disqualified. This restriction does not apply to an OEM acting only as a key Subcontractor to more than one tenderer in accordance with Clause C.2.1.1C, but an OEM that submits a tender in its own right or is a member of a joint venture tenderer may not also support any other tender.”

C.2.13.6 Delete the contents of Clause C.2.13.6 and replace with the following:

“A two-envelope procedure as described in Clause C.3.5 will be followed. The tender is submitted in two separate sealed envelopes, each clearly marked with the Bid Number, the tenderer’s name, the closing date and time, “DO NOT OPEN BEFORE CLOSING DATE AND TIME” and, respectively, “ENVELOPE 1: TECHNICAL AND COMPLIANCE” and “ENVELOPE 2: FINANCIAL OFFER”. The two envelopes are placed in a single outer package, marked “RFP RFP No. CSA/

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– DO NOT OPEN BEFORE CLOSING DATE AND TIME” and with the tenderer’s name.

Envelope 1 must not contain any pricing information, namely any Price, rate, lump sum, fee percentage or total of the Prices, or any part of the Financial Offer.”

C.2.13.6A Add the following as a new clause:

“Allocation of returnable documents between the envelopes. For the avoidance of doubt:

- (a) the Form of Offer and Acceptance (C1.1), Contract Data Part Two (C1.2), the Activity Schedule (C2.2), the Schedule of People Rates and Equipment Rates (C2.3) and the Maintenance Price List (C2.4) are pricing documents in their entirety and are submitted wholly within Envelope 2;
- (b) the Life Cycle Costing (Schedule B17) is submitted within Envelope 1. It contains operating, energy, maintenance, replacement and disposal costs over the life of the installation, which are not pricing information for the purposes of Clause C.2.13.6. It must not state the Prices or the tendered total of the Prices; the capital cost line must read “Refer to Envelope 2”; and
- (c) the key persons named in Contract Data Part Two must be the same persons named in Schedule B9.”

C.2.13.7 Add the following as a new clause:

“Custody of Envelope 2. The Employer’s Supply Chain Management unit shall record the receipt of each tender in the tender register and shall keep each Envelope 2 sealed and in safe custody, separately from the evaluation panel. It shall open Envelope 2 only when the tenderer has passed Stage 1, achieved the minimum thresholds in Stages 2.1 to 2.5 and achieved the minimum threshold in Stage 3. The Envelope 2 of any other tenderer shall remain unopened and shall be retained in accordance with the Employer’s record-keeping obligations. The Supply Chain Manager shall not be a scoring member of the evaluation panel.”

C.2.13.8 Substitute the contents of Clause C.2.13.8 with the following:

“Accept that the Employer will not assume responsibility for any logistical difficulties that may affect the receipt of a tender on time. A tender is received when it is recorded in the tender register.”

C.2.13.9 Delete the contents of Clause C.2.13.9 and replace with the following:

“Only tenders submitted on paper in accordance with Clause C.2.13.3 will be accepted. Tenders submitted by e-mail, post or fax, or delivered to any other place, will not be accepted.”

C.2.15 Closing Time

Add the following to the end of Clause C.2.15.1: “The closing time for submission of tender offers is Monday, 23 November 2026 at 12h00.”

C.2.16 Tender Offer Validity

Add the following to the end of Clause C.2.16.1: “The tender offer validity period is 120 days- after the closing time.”

Add the following to the end of Clause C.2.16.2: “Any extension of the tender offer validity period beyond 120 days requires the approval of the Employer’s Chief Executive Officer, in accordance with clause 4.4.2.2 of the CIDB Standard for Uniformity in Construction Procurement.”

C.2.17 Clarification of Tender Offer after Submission

Add the following to the end of Clause C.2.17:

“A tender may be rejected as non-responsive if the tenderer fails to provide a requested clarification within the time allowed by the Employer. A clarification may not change the substance of the tender. In particular, a tenderer may not submit or replace a lighting design, photometric calculation, test report, authorisation or undertaking after the closing time. A tender may be rejected if any Price in the Activity Schedule is, in the opinion of the Employer, unreasonable and the tenderer fails, within the time allowed, to justify it by a financial breakdown or to adjust it while keeping the tendered total of the Prices unchanged.”

C.2.18 Provide Other Material

Add the following to the end of Clause C.2.18:

“The Employer may require the tenderer to provide, within the time stated in the request: the native lighting design files and photometric data (IES/LDT files) for verification; copies of test reports and certificates; contactable references; and, for the preferred tenderer, evidence supporting its claim for specific goals.”

C.2.20 Submit Securities, Bonds, Undertakings and Policies

Add the following to the end of Clause C.2.20:

“The successful tenderer shall provide: (a) the performance bond required by Option X13 of the conditions of contract, for 10% of the tendered total of the Prices (excluding VAT), issued by a bank registered in terms of the Banks Act 94 of 1990 in the form of the pro forma in Annexure K of the Scope (Part C3), by the Contract Date or, if not given by then, within four weeks of the Contract Date, as stated in clause X13.1; and, within 14 days of the Employer’s acceptance, (b) where the OEM is a key Subcontractor, the OEM Guarantee and Undertaking in the form of C1.3, signed by the OEM named in its tender; and (c) evidence of the insurances required by the Contract Data. Retention of 10% is also deducted from every amount due under Option X16.”

C.2.23 Certificates

Add the following to the end of Clause C.2.23:

“Tenderers shall submit the following with their tenders: the CIDB contractor registration certificate of the tenderer (and, for a joint venture, the certificate of each member and the calculation of the combined grading); the letter of good standing (COIDA); the B-BBEE status level verification

certificate or sworn affidavit; and the registration of the registered person referred to in Clause C.2.1.1G.”

C.3 The Employer’s Undertakings

C.3.1 Respond to Requests from the Tenderer

C.3.1.1 Substitute the contents of Clause C.3.1.1 with the following:

“The Employer will respond to requests for clarification received up to Monday, 16 November 2026 at 12h00 (five working days before the closing time) and will circulate responses, by addendum, to all tenderers that attended the compulsory clarification meeting and site inspection.”

C.3.5 Two-envelope System

C.3.5.1 Substitute the contents of Clause C.3.5.1 with the following:

“Only Envelope 1 (Technical and Compliance) of valid tenders will be opened for evaluation in Stages 1 and 2. Envelope 1 will not be opened in the presence of tenderers.”

C.3.5.2 Substitute the contents of Clause C.3.5.2 with the following:

“Evaluate Stages 1 and 2, then hold Stage 3, and only open Envelope 2 of tenderers that have passed Stage 1 and achieved the minimum thresholds in Stages 2.1 to 2.5 and 3. Envelope 2 will not be opened in the presence of tenderers.”

C.3.7 Grounds for Rejection and Disqualification

Add the following to the end of Clause C.3.7:

“Tenders will be disqualified if:

- (a) there is no evidence that the tenderer was represented at both the compulsory clarification meeting and site inspection;
- (b) the tenderer, or any of its directors, members, partners or shareholders, is listed on the National Treasury Database of Restricted Suppliers or the Register for Tender Defaulters;
- (c) from the information in Schedule A4 or MBD 4, the Employer considers that there is a conflict of interest that may compromise the tender process;
- (d) the tenderer has been restricted from doing business with the Employer;
- (e) the tenderer fails to submit both Envelope 1 and Envelope 2, or includes pricing information in Envelope 1 in breach of Clause C.2.13.6;
- (f) the tenderer has contravened Clause C.1.4 (communication) or Clause C.2.13.5 (more than one tender); or
- (g) the tenderer has misrepresented its B-BBEE status, or any arrangement with the OEM, a joint venture member or a subcontractor amounts to a fronting practice as defined in the Broad-Based Black Economic Empowerment Act 53 of 2003.”

C.3.8 Test for Responsiveness

C.3.8.2 Add the following to the end of Clause C.3.8.2:

“Tenders will also be considered non-responsive if:

- (a) the tender does not satisfy any requirement of Stage 1, or does not achieve a minimum threshold in Stages 2.1 to 2.5 or 3.1;
- (b) the tenderer has not fully and correctly completed and signed the Offer part of C1.1 (Form of Offer and Acceptance), including the tendered total of the Prices in words and figures;
- (c) the tenderer has not completed the fee percentage and the other data required in Contract Data Part Two, or the people rates and Equipment data required in C2.3;
- (d) the tenderer fails to respond, within the time allowed, to a written request for clarification, and that failure makes it impossible to evaluate the tender further; or
- (e) there are other material deficiencies in the tender that cannot be cured by clarification.”

C.3.9 Arithmetical Errors, Omissions and Discrepancies

Add the following to the end of Clause C.3.9:

“Where the sum of the Prices in the Activity Schedule differs from the tendered total of the Prices stated in the Form of Offer, the tenderer will be asked to accept that the total in the Form of Offer governs and that the Prices are adjusted proportionally. If the tenderer does not accept, the tender may be rejected.”

C.3.11 Evaluation of Tender Offers

C.3.11.1 **General.** Add the following clauses after Clause C.3.11.1:

C.3.11.2 **The evaluation method.** Tenders will be evaluated in four stages. A tender proceeds to each stage, and each sub-stage, only if it has passed the previous one:

Stage	Description	Maximum	Minimum	Schedules
Stage 1	Compliance: 1A administrative; 1B eligibility; 1C mandatory technical compliance (M1 to M9)	Pass/Fail	Pass all	A1–A7, MBD 4, MBD 6.1, B1–B7
Stage 2.1	Previous Experience and Track Record	100	75 (75%)	B8
Stage 2.2	Capability of Personnel	100	75 (75%)	B9, B10, B11
Stage 2.3	Method Statement, Programme, Project Management Plan and SHEQ Plans	100	75 (75%)	B12–B15
Stage 2.4	Technical Proposal	100	75 (75%)	B16
Stage 2.5	Life Cycle Costing	40	30 (75%)	B17
Stage 3	Presentation	20	15 (75%)	Invitation
Stage 4	Price (90) and specific goals (10)	100	n/a	C1.1, C1.2, C2.2, C2.3, MBD 6.1, B3

The functionality and presentation scores are thresholds only. They are not carried into Stage 4, in which tenders are ranked solely on the points for price and specific goals.

C.3.11.3 Stage 1: Compliance. Stage 1 is evaluated on a pass/fail basis and comprises:

- (a) **1A – Administrative compliance:** completion and signature of Schedules A1 to A7, MBD 4 and MBD 6.1, and submission of the documents required in Schedules B1 to B5 and B7. The Employer may allow a tenderer to complete or sign a schedule not completed or signed, or to submit a document not submitted, where it is purely administrative and does not affect the substance of the tender or the competitive position of tenderers;
- (b) **1B – Eligibility:** the requirements of Clause C.2.1.1 (CIDB grading, joint venture rules, OEM participation as tenderer, joint venture member or named key Subcontractor, CSD, tax, COIDA, registered person, electrical contractor registration and NBCEI good standing, attendance, restrictions, and the responsible electrical and structural engineers); and
- (c) **1C – Mandatory technical compliance:** the requirements M1 to M9 below, evidenced in Schedule B6. No document under 1C may be submitted, replaced or completed after the closing time.

Every lighting requirement is expressed in terms of performance. Where a product, standard or system is named, the words “or equivalent” apply, and equivalent evidence will be accepted if it demonstrates the same performance. The lighting calculations must be prepared on the calculation grids, mast positions and maximum mounting heights, camera positions and maintenance factor stated in sections 2.2 and 2.3 of the Scope and issued with this request for proposals (Annexures A, C and D).

No.	Mandatory requirement	Evidence required	Pass criterion
M1	OEM authorisation: the tenderer is authorised by the OEM of the luminaires offered to supply, install and commission them for this project, with OEM support for design, commissioning and warranty.	Original letter on OEM letterhead, signed by an authorised OEM officer, referring to this tender by name and number. Where the OEM is the tenderer, a declaration that it is the manufacturer of the luminaires offered (Schedule A3, option (a)).	Letter submitted and specific to this tender.
M2	Illuminance: maintained average horizontal illuminance (Eh) over the playing area of not less than 2,000 lux, as stated in Table 1 of the Scope (C3.1).	The photometric design package required by section 2.3 of the Scope (calculation pages per grid, summary page and aiming diagram) and the native design file, at a maintenance factor of 0.8.	Every calculated value equal to or better than Table 1.
M3	Uniformity, glare and spill: uniformity U1 of at least 0.7 and U2 of at least 0.8, and glare rating (GR) below 50, as stated in Table 1 of the Scope; vertical and horizontal spill light within the limits in section 2.2 of the Scope.	Same design package as M2, including the spill-light contour plots.	All values achieved.
M4	Lamp properties and broadcast compatibility: correlated colour temperature 5,700 K and colour rendering (CRI/Ra) of at least 80, as stated in Table 1; flicker-free for 4K and high-speed broadcast.	Luminaire data sheets and accredited test reports for each parameter.	Each value met or bettered.
M5	Product certification: photometric testing (IES LM-79), lumen maintenance (IES LM-80 with TM-21 projection), safety to SANS/IEC 60598-1 and 60598-2-5, ingress protection of at least IP66 and impact protection of at least IK08, for the luminaire model offered.	Test reports from an accredited laboratory (ILAC-recognised) for the model offered.	Valid reports for the model offered.

No.	Mandatory requirement	Evidence required	Pass criterion
M6	Broadcast references: at least two stadium installations in the last five years using the same luminaire range, lit for international television broadcast of cricket or a comparable sport.	Reference schedule (venue, year, broadcaster, lux levels) with contactable client references.	Minimum number met and references verified.
M7	Delivery: manufacture and delivery to site of all luminaires, drivers and control equipment within 8-12 weeks of the Contract Date.	Signed undertaking by the tenderer and the OEM, with a manufacturing and shipping programme.	Undertaking given by both within the stated period.
M8	Warranty: (1) a product warranty covering all equipment, including the masts and the LED luminaires; and (2) a performance-based warranty guaranteeing the design light levels for at least ten years from Completion, including all parts and labour needed to maintain the design lux levels throughout the warranty period; cessible to BCMM; spare parts available for at least ten years.	Copy of the warranty documents (product warranty and performance-based warranty) attached to the tender, signed by the tenderer and, where the OEM is a key Subcontractor, with the OEM's signed undertaking (Schedule B7) to execute the OEM Guarantee and Undertaking in the form of C1.3.	Warranty documents attached and in the required terms. A tender submitted without the warranty documents will not be evaluated further.
M9	Controls: one control panel which allows the lighting to be operated at four lighting levels in 25% increments (25%, 50%, 75% and 100%).	System description and control schematic.	Requirement met.

The Employer's independent lighting engineer will verify the calculations for M2 to M4 by checking the native design files. The result for each requirement and each tenderer will be recorded in the evaluation report.

C.3.11.4 Stage 2: Scoring functionality. Functionality will be scored by a panel of not less than three evaluators. Each evaluator scores each criterion independently against the rubrics below; the scores of all evaluators are averaged to obtain the score for each criterion. The points for each sub-stage are the sum of the averaged criterion scores and are calculated as:

$$NQ = W2 \times SO / MS$$

where NQ is the tenderer's functionality points for the sub-stage; W2 is the maximum number of points for the sub-stage; SO is the score allocated to the submission; and MS is the maximum possible score.

The sub-stages are evaluated in sequence. A tender that does not achieve 75% in a sub-stage is not evaluated in the next sub-stage. Evidence must be included in the tender; claims that are not supported by the documents required in the relevant schedule will not be scored.

Stage 2.1 – Previous Experience and Track Record (Schedule B8) – 100 points, minimum 75

Criterion	Indicator and score descriptor	Points
(a) Tenderer's experience Completed contracts, in the 10 years before the closing date, as main contractor or joint venture member for electrical infrastructure works, each with a value of at least R20 million (including VAT): sports floodlighting, high-mast lighting, or MV/LV reticulation of comparable complexity.	Five or more such contracts, of which at least two are sports floodlighting installations	50
	Three or four such contracts, of which at least one is a sports floodlighting installation	37.5
	One or two such contracts	25
	No such contracts	0
(b) OEM's experience	Ten or more stadiums, of which at least three are cricket stadiums	50
	Six to nine stadiums, of which at least one is a cricket stadium	37.5

Criterion	Indicator and score descriptor	Points
Stadium LED floodlighting installations supplied and commissioned by the OEM in the 10 years before the closing date and lit for international television broadcast.	Three to five stadiums	25
	Fewer than three stadiums	0
Total for Stage 2.1 (minimum 75)		100

Each contract or installation claimed must be supported by a completion certificate or a signed reference letter on the client's letterhead with contact details. The Employer may verify references.

Stage 2.2 – Capability of Personnel (Schedules B9 to B11) – 100 points, minimum 75

All key persons will be required during the design and construction of the works and will be named as key persons in Contract Data Part Two. Years of experience are counted to the closing date. Qualifications and registrations must be supported by certified copies.

No.	Criterion and score descriptor	Points
1. Contractor's Project Manager (key person)		20
1.1	Qualification (max 5): degree (NQF 7) in engineering, construction management or project management = 5; national diploma (NQF 6) = 3.75; NQF 5 qualification = 2; none = 0	5
1.2	Professional registration (max 5): SACPCMP Pr CPM, or ECSA Pr Eng or Pr Tech Eng = 5; candidate registration or PMP certification = 3.75; none = 0	5
1.3	Experience (max 10): 10 or more years managing electrical or infrastructure projects of at least R20 million, including two sports floodlighting projects = 10; 7 to 9 years = 7.5; 3 to 6 years = 5; less than 3 years = 0	10
2. Electrical Engineer (design responsibility)		20
2.1	Qualification (max 5): BSc/BEng in electrical engineering = 5; BTech = 3.75; national diploma = 2; none = 0	5
2.2	Professional registration (max 5): ECSA Pr Eng = 5; ECSA Pr Tech Eng = 3.75; ECSA candidate = 2; none = 0	5
2.3	Experience (max 10): 10 or more years, with at least 5 years after professional registration, in the design of MV/LV reticulation and large-scale or sports lighting and oversight during construction = 10; 7 to 9 years = 7.5; 5 to 6 years = 5; less than 5 years = 0	10
3. Lighting Design Specialist (tenderer or OEM)		20
3.1	Qualification (max 5): degree in electrical or electronic engineering, or in lighting design = 5; national diploma = 3.75; other relevant certificate = 2; none = 0	5
3.2	Professional registration or membership (max 5): ECSA registration, or corporate membership of the Society of Light and Lighting, the Illuminating Engineering Society or an equivalent body = 5; associate membership = 3.75; none = 0	5
3.3	Experience (max 10): 10 or more years in sports lighting design, including five stadium designs for international broadcast = 10; 7 to 9 years, including three such designs = 7.5; 5 to 6 years, including one such design = 5; less = 0	10
4. Structural Engineer (masts and foundations)		15
4.1	Qualification (max 4): BSc/BEng in civil or structural engineering = 4; BTech = 3; national diploma = 1.5; none = 0	4
4.2	Professional registration (max 4): ECSA Pr Eng = 4; ECSA Pr Tech Eng = 3; none = 0	4
4.3	Experience (max 7): 10 or more years, with at least 5 years after registration, in the design of steel masts or towers, or the assessment of foundations = 7; 7 to 9 years = 5.25; 5 to 6 years = 3.5; less than 5 years = 0	7
5. Construction Manager / Site Manager (full time on site)		10

No.	Criterion and score descriptor	Points
5.1	Qualification (max 2.5): degree or diploma (NQF 6 or higher) in construction management or electrical engineering = 2.5; trade-tested electrician or NQF 5 = 1.875; none = 0	2.5
5.2	Professional registration (max 2.5): SACPCMP Pr CM = 2.5; candidate construction manager = 1.875; none = 0	2.5
5.3	Experience (max 5): 10 or more years managing sites for electrical installation work, including high-mast or working-at-height installations = 5; 7 to 9 years = 3.75; 3 to 6 years = 2.5; less than 3 years = 0	5
6. Construction Health and Safety Officer (full time on site)		10
6.1	Qualification (max 2.5): BTech or degree in safety management = 2.5; national diploma in safety management = 1.875; certificate only = 0	2.5
6.2	Registration (max 2.5): SACPCMP CHSO or CHSM = 2.5; candidate registration = 1.875; none = 0	2.5
6.3	Experience (max 5): 5 or more years as CHSO on construction projects, including working at height and electrical work = 5; 3 to 4 years = 3.75; 1 to 2 years = 2.5; less than 1 year = 0	5
7. Organogram and resourcing (Schedule B11)		5
7.1	The organogram shows all key and support roles, reporting lines, the split of responsibilities between the tenderer, the OEM key Subcontractor and other subcontractors, and confirms the capacity to complete the works by the Completion Date = 5; the organogram is incomplete or the responsibilities or capacity are unclear = 3.75; no organogram, or it does not show the required information = 0	5
Total for Stage 2.2 (minimum 75)		100

Stage 2.3 – Method Statement, Programme, Project Management Plan and SHEQ Plans (Schedules B12 to B15) – 100 points, minimum 75

Criterion	Indicator and score descriptor	Points
Method statement (B12) Must address: (1) compliance with the Scope and Table 1; (2) design process, structural design of the new masts and mast heads, foundation assessment and approvals, partial and complete holding-down bolt replacement; (2A) demolition and removal of the existing masts, mast head and equipment and disposal, partial demolition of the foundation and holding-down bolts; (3) procurement, factory testing, shipping, customs and lead times; (4) logistics, crange, working at height and installation sequence; (5) electrical works and integration with the existing supply and standby power; (6) removal and disposal of existing fittings; (7) testing, commissioning and independent broadcast verification; (8) working around match days and stadium operations; (9) handover, training, O&M manuals and warranties.	All nine aspects addressed clearly and specifically for this project	30
	Seven or eight aspects addressed specifically for this project	22.5
	Five or six aspects addressed, or the statement is largely generic	12
	Fewer than five aspects addressed, or no method statement	0
Programme (B13) Level 3 programme in Primavera P6 from the Contract Date to Completion, showing design, approvals, manufacture, shipping, installation, testing and handover, with logic links, critical path, float and time risk allowances, resources and key dates.	Comprehensive: all activities and lead times shown and linked, critical path shown, resource-loaded, Planned Completion by the Completion Date with time risk allowance	30
	Sufficient: key activities in logical sequence, Completion by the Completion Date, critical path shown	22.5
	Partial: key information omitted or the programme does not show Completion by the Completion Date	12
	No programme submitted	0
Project management plan (B14)	All aspects addressed specifically for this project	15

Criterion	Indicator and score descriptor	Points
Overview and strategy; organisation; scope; cost control; schedule; risk management (including an initial risk register); subcontractor and OEM management; information and document management; communication and reporting; interface with the stadium operator, BCMM and the broadcaster.	All aspects addressed adequately	11.25
	Generic, or does not address all aspects	6
	Not submitted, or does not meet the majority of requirements	0
Health and safety plan (B15) Prepared in response to the Client's Health and Safety Specification: hazard identification and risk assessment (including working at height, lifting and electrical work); fall protection plan; competencies and appointments; site rules; incident management; communication and reporting.	Exceeds the requirements, with project-specific risk controls for all high-risk activities	15
	Meets all the requirements of the Health and Safety Specification	11.25
	Generic and does not address project-specific requirements	6
	Poor, or not submitted	0
Quality management (B15) Quality management system (ISO 9001 certification or equivalent) and a draft project quality plan, including inspection and test plans for factory, site and commissioning tests.	Certified system and a project-specific quality plan with inspection and test plans	10
	System and plan meet the requirements	7.5
	Generic system with no project-specific plan	4
	Poor, or not submitted	0
Total for Stage 2.3 (minimum 75)		100

Stage 2.4 – Technical Proposal (Schedule B16) – 100 points, minimum 75

Each criterion is scored at 100%, 75%, 40% or 0% of its weight: 100% where the proposal fully addresses the criterion with project-specific detail and demonstrates performance at or above the Scope; 75% where it addresses all requirements of the criterion with adequate detail; 40% where it addresses the criterion only partly or generically; and 0% where it does not address the criterion.

No.	Criterion	Weight	Adequate (75%)	Max
(a)	Lighting design: completeness of the photometric design package (section 2.3 of the Scope), margins above Table 1, uniformity, glare and spill control, flicker performance, colour and aiming. A design package that does not include the separate calculation pages required by section 2.3 of the Scope scores zero for this criterion	30	22.5	30
(b)	New masts and mast heads structural solution: structural design of the new hot-dip galvanised masts matching of the existing holding-down bolt pattern, assessment of the foundation plinths and hold-down bolts, proposed method of partial and complete holding-down bolt replacement, lightning protection and earthing, and aviation obstruction lighting	20	15	20
(c)	Electrical infrastructure: new Main LV distribution board, 3CR12 mast distribution boards and internal mast wiring, testing and reuse of the existing feeder cables, protection, power quality, and total installed power and connected load	20	15	20
(d)	Control system: control panel with four lighting levels in 25% increments, switching arrangement, restrike performance, and ease of operation by Border Cricket staff	10	7.5	10
(e)	Testing, commissioning and verification: factory and site acceptance tests, measurement grid and method, independent photometric verification and acceptance criteria	10	7.5	10

No.	Criterion	Weight	Adequate (75%)	Max
(f)	Operation, maintenance and warranty support: the 10-year maintenance plan (Annexure J), spares, training of Border Cricket and BCMM staff, performance warranty administration and response times	10	7.5	10
Total for Stage 2.4 (minimum 75)		100	75	100

Stage 2.5 – Life Cycle Costing (Schedule B17) – 40 points, minimum 30

The life cycle costing is scored on the completeness, transparency and quality of the analysis, in accordance with the requirements of Schedule B17. It is not scored on the lowness of the costs.

Criterion	Score descriptor	Points
Life cycle costing A life cycle costing of the installation over 20 years, based on 32 hours of operation per month, on the common assumptions in Schedule B17. The life cycle costing is used for comparison only and does not form part of, or influence, the tendered price.	Extensively detailed life cycle costing that addresses every element in Schedule B17, with supporting data, demonstrating the tenderer's understanding of the Employer's requirements and its Technical Proposal	40
	Adequately detailed life cycle costing that addresses every element in Schedule B17	30
	Life cycle costing with limited detail, omitting some elements in Schedule B17	10
	Minimal life cycle costing, or none submitted	0
Total for Stage 2.5 (minimum 30)		40

C.3.11.5 Stage 3: Presentation. Tenderers that achieve the minimum threshold in each of Stages 2.1 to 2.5 will be invited in writing, by Friday, 11 December 2026, to present their tenders to the evaluation panel on Tuesday, 5 January 2027, in person at the Client's offices in Johannesburg. The following rules apply:

- each tenderer is given the same time (45 minutes for the presentation and 30 minutes for questions) and is asked the same core questions, which are set before the presentations;
- the presentation is limited to explaining the tender as submitted. A tenderer may not change or add to its design, programme, personnel, offer or Prices, and no negotiation takes place. Statements that go beyond the tender will be disregarded;
- the key persons named in Schedule B9 for the roles of Contractor's Project Manager, Electrical Engineer and Lighting Design Specialist should attend as a minimum;
- prices may not be disclosed or discussed; and
- the presentations are recorded, and BCMM's observer may attend.

No.	Criterion	Max
1	Understanding of the Employer's requirements and clarity of the proposed lighting solution	5
2	Delivery plan to Completion by the Completion Date, including lead times, approvals and key risks	5
3	Team, and the roles of the tenderer, the OEM key Subcontractor and other subcontractors in design, supply, installation and support	5
4	Quality of responses to the panel's questions	5

No.	Criterion	Max
Total for Stage 3 (minimum 15, being 75%)		20

Each evaluator scores each criterion as follows: 5 = fully demonstrated; 3.75 = satisfactorily demonstrated; 2 = partly demonstrated; 0 = not demonstrated. The scores of all evaluators are averaged.

C.3.11.6 Stage 4: Price and specific goals. Envelope 2 of each tenderer that achieved the minimum threshold in Stage 3 will then be opened. Tenders are scored on the 90/10 preference point system as follows:

$$Ps = 90 \times (1 - (Pt - Pmin) / Pmin)$$

where Ps is the points scored for price; Pt is the price of the tender under consideration; and Pmin is the price of the lowest acceptable tender. The price is the offered total, including VAT, stated in the Form of Offer (C1.1): the tendered total of the Prices for the works (C2.2) plus the total of the Prices for ten years of maintenance (C2.4), after any correction under Clause C.3.9.

Points for specific goals (maximum 10) are awarded on the B-BBEE status level of contributor of the tenderer, as claimed in MBD 6.1 and supported by the certificate or sworn affidavit in Schedule B3 and the location of the bidder:

Specific goals — summary

A maximum of 10 points is allocated for specific goals, apportioned as follows. A tenderer claims these points in MBD 6.1 and supports the claim with the evidence stated in the right-hand column.

Specific goal	Maximum points	Evidence required
B-BBEE status level of contributor of the tenderer	5	B-BBEE verification certificate issued by a SANAS-accredited verification agency, or a sworn affidavit in the case of an EME or a QSE, submitted in Schedule B3
Locality of the tenderer, being the promotion of enterprises located in the local area	5	Proof of the physical address of the tenderer's place of business, submitted in Schedule B3
Total	10	

B-BBEE status level of contributor

Points for the B-BBEE status level of contributor of the tenderer are allocated as follows,.

B-BBEE status level of contributor	Number of points for preference (90/10)
Level 1	5
Level 2	4
Level 3	3

B-BBEE status level of contributor	Number of points for preference (90/10)
Level 4	2
Level 5	1
Level 6	1
Level 7	1
Level 8	1
Non-compliant contributor	0

Locality of the tenderer

Points for locality are allocated on the local area in which the tenderer is located, as follows

Local area of Bidder	Number of points for preference (90/10)
Within the boundaries of Buffalo City	5
Within the boundaries of the Eastern Cape	1
Outside of the boundaries of the Eastern Cape	0

Proof, and the consequence of failing to submit it

- A tenderer must submit proof of its B-BBEE status level of contributor, and proof of the physical address of its place of business, in Schedule B3.
- A tenderer that fails to submit proof of its B-BBEE status level of contributor, or that is a non-compliant contributor to B-BBEE, is not disqualified, but may score points for price only and scores zero points for its B-BBEE status level of contributor. This is in line with section 2(1)(d)(i) of the Preferential Procurement Policy Framework Act 5 of 2000.
- A tenderer that fails to submit the proof required to claim a preference for any other specific goal is not disqualified, but scores zero points for that goal, in line with section 2(1)(d)(ii) of that Act¹.
- The total number of tender evaluation points is the sum of the points scored for price and the points scored for specific goals, to a maximum of 100.

An unincorporated joint venture or consortium must submit a consolidated B-BBEE certificate for the joint venture. The B-BBEE status of a subcontractor, including an OEM that is a key Subcontractor, cannot be claimed.

The points for price and specific goals are added together. Subject to Clause C.3.13, the contract will be awarded to the tenderer that scores the highest total points. If two or more tenderers score an equal total number of points, the contract will be awarded to the tenderer that scored the highest points for specific goals (regulation 8(1) of the Preferential Procurement Regulations,

¹Preferential Procurement Policy Framework Act 5 of 2000, s 2(1)(d)(ii).

2022). If two or more tenderers then still score equal total points in all respects, the contract will be awarded to the tenderer that achieved the highest total score in Stage 2 (Functionality, Stages 2.1 to 2.5). If two or more tenderers are still equal, the award will be decided by the drawing of lots (regulation 8(2) of the Preferential Procurement Regulations, 2022).

The Employer may reject a tender, or negotiate with the preferred tenderer under Clause C.1.6, where the price, or any of the Fee percentage, People rates or Equipment Rates in C2.3, is materially and unjustifiably above or below market-related levels, in accordance with Clause C.4.3.

C.3.11.7 Clarification and due diligence. The Employer may seek clarification of any tender at any stage in accordance with Clause C.2.17, verify references and certificates, and carry out due diligence on the financial and technical capacity of the preferred tenderer.

C.3.11.8 Observer. BCMM may appoint an observer to the Bid Evaluation Committee. The observer may attend the evaluation meetings and the presentations but does not score tenders or vote.

C.3.13 Acceptance of Tender Offer

Add the following to the end of Clause C.3.13:

“Acceptance includes the Maintenance Contract (additional condition of contract Z15). Acceptance is subject to: the approval of the award by the Employer's delegated authority; the availability of funds; the tenderer being tax compliant and registered on the CSD; the OEM Guarantee and Undertaking (where applicable) and the insurances required by Clause C.2.20. The award will be published on the on e-tender and registered on the CIDB i-Tender system.”

C.3.17 Provide Copies of the Contract

Add the following to the end of Clause C.3.17: “The Employer will provide one electronic copy of the signed contract.”

C.3.18 Provide Written Reasons for Actions Taken

Add the following to the end of Clause C.3.18: “Requests for reasons must be made in writing within 14 days of notification of the outcome of the tender.”

T1.2.3 Additional Conditions of Tender

The additional conditions of tender are:

C.4.1 Compliance with the Occupational Health and Safety Act 1993 and the Construction Regulations, 2014

Tenderers must note the requirements of the Occupational Health and Safety Act 85 of 1993 and the Construction Regulations, 2014. The tenderer is deemed to have read and understood them and to have allowed for all costs of complying with them. The tenderer shall submit with its tender, in Schedule B15, a health and safety plan prepared in response to the Client's Health and Safety Specification (Annexure B), to demonstrate that it has the competencies and resources to perform the construction work safely.

C.4.2 Claims Arising after Submission of Tender

No claim arising from any doubt or obscurity as to the true intent and meaning of anything in the conditions of contract, the Scope, the Site Information or the Pricing Data will be accepted after the submission of a tender. The tenderer is deemed to have:

- (a) read and understood the conditions of contract;
- (b) read and understood the Scope, the Site Information and the Pricing Data and acquainted itself with the nature of the works and all matters that may influence the contract;
- (c) inspected the site, the existing masts and electrical installation, the means of access, the conditions under which the work is to be done, and any restrictions imposed by BCMM, the stadium operator or other authorities, and allowed for all costs involved; and
- (d) asked the Employer to clarify anything in this request for proposals whose meaning was not clear to it.

C.4.3 Imbalance in Tendered Prices

If a tendered Price, or a People rate or Equipment rate or percentage in C2.3, is declared by the Employer to be unacceptable because it is excessively low or high in comparison with the Employer's market-related estimate, or not in proper balance with other Prices or rates, the tenderer may be required to produce evidence in support of it. If the Employer is still not satisfied, it may ask the tenderer to amend the Price along the lines it indicates, without altering the tendered total of the Prices. If the tenderer fails to amend its tender in a manner acceptable to the Employer, the Employer may reject the tender.

C.4.4 Ownership, Oversight and Audit

Tenderers note that:

- (a) the installation will vest in BCMM, as owner of the Border Cricket Grounds, to which the Contractor's and OEM's warranties and the OEM Guarantee and Undertaking will be ceded on handover;
- (b) BCMM may appoint an observer to the Bid Evaluation Committee (Clause C.3.11.8);

- (c) the tender documents, evaluation records and contract records may be inspected and audited by the Employer, BCMM and the Auditor-General of South Africa, and the tenderer consents to its tender being disclosed to them for that purpose; and
- (d) the award and the contract are subject to the availability of funds, as stated in Clause C.3.13.

C.4.5 OEM, Joint Venture and Subcontract Arrangements; Fronting

Where a tenderer relies on the CIDB grading, B-BBEE status or local presence of a joint venture member, or on the capability of the OEM or another subcontractor, that member or subcontractor must perform a genuine and substantial part of the works, with its own resources, as described in the joint venture agreement (if any), the OEM key subcontract arrangements and Schedules B5 and B7. The tenderer must disclose each party's scope of work, share of the contract value and resources on site.

An arrangement that amounts to a fronting practice, or the misrepresentation of B-BBEE status, as defined in the Broad-Based Black Economic Empowerment Act 53 of 2003, is a criminal offence. The Employer may verify any arrangement or claim, disqualify the tender, cancel any contract awarded and report the matter to the B-BBEE Commission.

C.4.6 Programme and Completion

The Completion Date of Monday, 17 May 2027 is fixed by the requirements of the ICC Men's Cricket World Cup 2027 and is of the essence. The tenderer must base its tender, programme and delivery undertaking (M7) on award on Monday, 18 January 2027 and must allow for all lead times, approvals and constraints described in the Scope.

C.4.7 Confidentiality and Personal Information

The Employer will treat the contents of tenders as confidential, subject to its legal obligations, the audit rights in Clause C.4.4 and the requirements of the Promotion of Access to Information Act 2 of 2000. By submitting a tender, the tenderer consents to the processing of the personal information of its personnel for the purposes of this tender, in accordance with the Protection of Personal Information Act 4 of 2013.

C.4.8 Costs of Tendering

The tenderer bears all costs of preparing and submitting its tender, attending the clarification meeting and site inspection, and presenting its tender.

PART T2: RETURNABLE DOCUMENTS

CRITICAL WARNING TO TENDERERS: ENVELOPE SEPARATION

This tender is evaluated in a strict, sequential three-stage process, with the tender submitted on paper in two separate sealed envelopes. To avoid rejection or disqualification, you must comply with the following:

1. Envelope 1 (Technical and Compliance) must not contain any pricing information: no Prices, rates, lump sums, fee percentage or total of the Prices. The Life Cycle Costing (Schedule B17) is submitted in Envelope 1, but its capital cost line must read "Refer to Envelope 2".
2. Envelope 2 (Financial Offer) contains C1.1 Form of Offer, C1.2 Contract Data Part Two, C2.2 Activity Schedule, C2.3 Schedule of People Rates and Equipment Rates and C2.4 Maintenance Price List, and must be sealed (Clause C.2.13.6).
3. Submit one original and two copies of each envelope, and one (1) USB flash drive containing the Envelope 1 documents (no pricing), placed in Envelope 1 (Clause C.2.13.2). E-mailed tenders will not be accepted.
4. Mark your envelopes and outer package exactly as required by Clause C.2.13.6.
5. No Stage 1C document (Schedule B6 and its evidence) may be submitted, replaced or completed after the closing time.

Number	Heading
T2.1	Schedule of Returnable Documents
T2.2	Returnable Documents

T2.1 SCHEDULE OF RETURNABLE DOCUMENTS

1. General

The tender must be submitted as a whole. All schedules and forms must be completed as instructed and the tender document must not be taken apart or altered in any way.

Tenderers must complete each returnable document listed below to the best of their ability, because the evaluation of tenders and the eventual contract will be based on the information provided.

Submission of the returnable documents is mandatory. Failure to submit them will result in the tender being held to be non-responsive, except that the Employer may allow a tenderer to complete or sign a schedule not completed or signed, or to submit a document not submitted, where it is purely administrative (Schedules A1 to A7, MBD 4, MBD 6.1, B1 to B5 and B7) and does not affect the substance of the tender or give any tenderer an unfair opportunity to improve the quality of its tender. This discretion does not apply to Schedule B6 (Stage 1C) or to Schedules B8 to B17 (Stage 2).

2. List of returnable documents

Schedule	Description	Evaluation stage	Envelope
Company-specific schedules			
A1	Authority to Sign Documents	1A	1
A2	Certificate of Attendance at Clarification Meeting and Site Inspection	1A / 1B	1

Schedule	Description	Evaluation stage	Envelope
A3	Certificate of Authority for Joint Ventures and Declaration of OEM Participation	1A	1
A4	Compulsory Enterprise Questionnaire	1A	1
A5	Tenderer's Bank Account Details and Financial References	1A	1
A6	Certificate of Insurance Cover	1A	1
A7	Form concerning the Fulfilment of the Construction Regulations, 2014	1A	1
Standard Bidding Documents			
MBD 4	Bidder's Disclosure	1A	1
MBD 6.1	Preference Points Claim Form in terms of the Preferential Procurement Regulations, 2022	1A / 3.2	1
Returnable documents for compliance assessment (Stage 1)			
B1	CIDB Contractor Grading Designation Certificates and Registered Person	1B	1
B2	Tax Compliance Status and CSD Registration	1B	1
B3	B-BBEE Status Level Certificate or Sworn Affidavit	1A / 3.2	1
B4	Letter of Good Standing (COIDA)	1B	1
B5	Schedule of Proposed Subcontractors, OEM and Suppliers	1A	1
B6	Stage 1 Mandatory Technical Compliance Declaration and Checklist (M1 to M9)	1C	1
B7	OEM Key Subcontract Arrangements, OEM Undertaking and Joint Venture Agreement	1B	1
Returnable documents for functionality assessment (Stage 2)			
B8	Previous Experience and Track Record of the Tenderer and the OEM	2.1	1
B9	Schedule of Key Persons	2.2	1
B10	Curricula Vitae, Qualifications and Registrations of Key Persons	2.2	1
B11	Project Organogram	2.2	1
B12	Method Statement	2.3	1
B13	Tender Programme	2.3	1
B14	Project Management Plan	2.3	1
B15	Health and Safety Plan and Quality Management	2.3	1
B16	Technical Proposal (including lighting design files)	2.4	1
B17	Life Cycle Costing	2.5	1
Returnable documents pertaining to the contract			
B18	Deviations and Qualifications by Tenderer	–	1
B19	Record of Addenda to Tender Documents	1A	1
B20	Contractor's Participation Plan (local labour and local procurement)	–	1
Financial Offer (Envelope 2 only)			
C1.1	Form of Offer and Acceptance (Offer part completed and signed)	3.2	2
C1.2	Contract Data Part Two – Data provided by the Contractor	3.2	2
C2.2	Activity Schedule (priced)	3.2	2

Schedule	Description	Evaluation stage	Envelope
C2.3	Schedule of People Rates and Equipment Rates (Short Schedule of Cost Components)	3.2	2
C2.4	Maintenance Price List (Term Service Short Contract, 10 years)	3.2	2

T2.2 RETURNABLE DOCUMENTS

NB: TENDERERS MUST COMPLETE THESE DOCUMENTS AND FORMS TYPED IN BLACK, OR IN BLACK INK.

A1 AUTHORITY TO SIGN DOCUMENTS

I/We*, the undersigned, am/are* duly authorised to sign the tender on behalf of

.....

by virtue of the Articles of Association / Resolution of the Board of Directors*, of which a copy is attached.

**Delete whichever is not applicable*

SIGNED:

NAME	SIGNATURE	DATE

WITNESSES:

NAME	SIGNATURE	DATE

A2 CERTIFICATE OF ATTENDANCE AT CLARIFICATION MEETING AND SITE INSPECTION

This is to certify that I/We*

of (tenderer)

of (address)

Telephone number

E-mail

on (date)

attended the compulsory clarification meeting and examined the site of the works and its surroundings, for which I/we* am/are* submitting this tender, and have, so far as is practicable, familiarised myself/ourselves* with all information, risks, contingencies and other circumstances that may influence or affect my/our* tender.

**Delete whichever is not applicable*

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

SIGNED ON BEHALF OF THE EMPLOYER:

NAME	SIGNATURE	DATE

A3 CERTIFICATE OF AUTHORITY FOR JOINT VENTURES AND DECLARATION OF OEM PARTICIPATION

Part A: Certificate of authority for joint ventures and consortia (complete only if the tenderer is a joint venture or consortium)

We, the undersigned, are submitting this tender as a joint venture / consortium and hereby authorise Mr/Ms, authorised signatory of (company), acting in the capacity of lead partner, to sign all documents in connection with the tender and any contract resulting from it on our behalf.

NAME OF FIRM	ADDRESS	DULY AUTHORISED SIGNATORY
Lead partner:		Signature: Name: Designation:
		Signature: Name: Designation:
		Signature: Name: Designation:

Note: A copy of the joint venture or consortium agreement, showing clearly the scope of work and percentage contribution of each partner, must be attached to Schedule B7 (Part C).

Part B: Declaration of OEM participation (all tenderers)

The OEM of the luminaires offered participates as follows (tick one). In every case the Stage 1 mandatory technical gate (M1 to M9, Schedule B6) applies.

☐	Option (a): OEM as tenderer in its own right. The tenderer is itself the OEM of the luminaires offered and holds the CIDB grading required by Clause C.2.1.1A. The tenderer confirms that it is not named as key Subcontractor in, and does not support, any other tender.
☐	Option (b): OEM as joint venture member. The OEM is a member of the joint venture tenderer and is registered with the CIDB (registration number:). The OEM confirms that it is not named as key Subcontractor in, and does not support, any other tender.
☐	Option (c): OEM as key Subcontractor. The OEM is named in Schedule B5 as the tenderer's key Subcontractor. Name of OEM:

Name of tenderer:

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

A4 COMPULSORY ENTERPRISE QUESTIONNAIRE

The following particulars must be furnished. In the case of a joint venture or consortium, a separate questionnaire must be completed and submitted for each partner.

Section 1: Name of enterprise:
Section 2: VAT registration number, if any:
Section 3: CIDB contractor grading designation and registration number:
Section 4: Particulars of sole proprietors and partners in partnerships (attach a separate page if more than three): Name Identity number Personal income tax number Name Identity number Personal income tax number Name Identity number Personal income tax number
Section 5: Particulars of companies and close corporations: Company or close corporation registration number Tax reference number
Section 6: MBD 4 must be completed and attached.
Section 7: MBD 6.1 must be completed and attached.
The undersigned, who warrants that he/she is duly authorised to do so on behalf of the enterprise: (i) authorises the Employer to verify the tax compliance status of the enterprise with the South African Revenue Service; (ii) confirms that neither the enterprise nor any partner, manager, director or other person who wholly or partly exercises, or may exercise, control over the enterprise appears on the Register for Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act 12 of 2004, or on the National Treasury Database of Restricted Suppliers; (iii) confirms that no such person has within the last five years been convicted of fraud or corruption; (iv) confirms that the enterprise is not associated, linked or involved with any other tenderer, and has no relationship with any tenderer or with those responsible for compiling the Scope that could cause, or be interpreted as, a conflict of interest; and (v) confirms that the contents of this questionnaire are within his/her personal knowledge and are to the best of his/her belief true and correct.

SIGNED:

ENTERPRISE NAME	NAME AND POSITION	SIGNATURE AND DATE

A5 TENDERER'S BANK ACCOUNT DETAILS AND FINANCIAL REFERENCES

Notes to tenderer:

- The tenderer shall attach to this form a letter from its bank confirming the account details below and stating the credit rating the bank accords to the tenderer for the business envisaged by this tender. Failure to provide the letter may render the tender non-responsive.
- The tenderer's banking details must be completed below.

i.	Name of account holder:	
ii.	Account number:	
iii.	Bank name:	
iv.	Branch number:	
v.	Bank and branch contact details:	

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

A6 CERTIFICATE OF INSURANCE COVER

Note to tenderer: If the tenderer is a joint venture or consortium, the details of each member must also be provided. The insurances required under the contract are stated in Contract Data Part One (C1.2). The tenderer shall provide details of its current cover below and confirm that it will provide the insurances required by the contract.

Insurance	Insurer	Value of cover and period of validity
Contract works (loss of or damage to the works, Plant and Materials)		
Public liability (third-party property, bodily injury or death)		
Contractor's Equipment		
Motor vehicle liability		
Professional indemnity (Contractor's design)		
Compensation for Occupational Injuries and Diseases (COIDA)		

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

A7 FORM CONCERNING THE FULFILMENT OF THE CONSTRUCTION REGULATIONS, 2014

In terms of the Construction Regulations, 2014, made under section 43 of the Occupational Health and Safety Act 85 of 1993 (the Regulations), the Employer shall not appoint a contractor to perform construction work unless the contractor can satisfy the Employer that it has the necessary competencies and resources to carry out the work safely, and has allowed adequately in its tender for the fulfilment of all the applicable requirements of the Act and the Regulations.

1. I confirm that I am fully conversant with the Regulations and that my company has (or will acquire or procure) the necessary competencies and resources to comply timeously, safely and successfully with all the requirements of the Regulations.

Tick the applicable box	YES	NO
-------------------------	-----	----

2. Proposed approach to achieve compliance with the Regulations (tick):

Own resources, competent in terms of the Regulations (refer to 3 below)	
Own resources, still to be hired and/or trained (until competency is achieved)	
Specialist subcontract resources (competent) – specify:	

3. Details of proposed key persons, competent in terms of the Regulations, who will form part of the team (CVs to be attached):

.....

4. Details of proposed training (if any):

.....

5. Potential key risks identified (including working at height, lifting operations and electrical work) and measures for addressing them:

.....

I have included in my tendered Prices all resources, actions, training and other costs required for the fulfilment of the Regulations for the duration of the construction and defects correction period.

Tick the applicable box	YES	NO
-------------------------	-----	----

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

MBD 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 enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, the bidder is required to make this declaration in respect of the details required below. Where a person is 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 or partners, or any person having a controlling interest in the enterprise, employed by the state? YES / NO

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

Full name	Identity number	Name of state institution

2.2 Do you, or any person connected with the bidder, have a relationship with any person employed by the procuring institution (Cricket South Africa NPC) or by Buffalo City Metropolitan Municipality? YES / NO

2.2.1 If so, furnish particulars:

2.3 Does the bidder, or any of its directors, trustees, shareholders, members or partners, or any person having a controlling interest in the enterprise, have any interest in any other related enterprise, whether or not it is bidding for this contract? YES / NO

2.3.1 If so, furnish particulars:

3. DECLARATION

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

- I have read and understand the contents of this disclosure;
- I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- the bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with, any competitor. Communication between partners in a joint venture or consortium will not be construed as collusive bidding;

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, or the conditions or delivery particulars of the products or services to which this bid invitation relates;
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 before 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; and
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 89 of 1998, may be reported to the National Prosecuting Authority for criminal investigation, and may be restricted from conducting business with the public sector for a period not exceeding ten years in terms of the Prevention and Combating of Corrupt Activities Act 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 EMPLOYER MAY REJECT MY BID OR ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

SIGNED:

SIGNATURE AND DATE	POSITION	NAME OF BIDDER

MBD 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 THE 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: **The applicable preference point system for this tender is the 90/10 preference point system.**

1.3 Points for this tender shall be awarded for (a) price; and (b) specific goals.

1.4 The maximum points for this tender are allocated as follows:

	POINTS
PRICE	90
SPECIFIC GOALS	10
Total points for price and specific goals	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 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; and
- (d) "the Act" means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULA FOR PROCUREMENT OF GOODS AND SERVICES

3.1 Points awarded for price (90/10 preference point system):

$$Ps = 90 \times (1 - (Pt - Pmin) / Pmin)$$

where Ps = points scored for price of the tender under consideration; Pt = price of the tender under consideration; and Pmin = price of the lowest acceptable tender. For this tender, Pt and Pmin are the offered totals, including VAT (the tendered total of the Prices for the works plus the total of the Prices for ten years of maintenance), stated in the Form of Offer (C1.1) (Clause C.3.11.6 of the Tender Data).

4. POINTS AWARDED FOR SPECIFIC GOALS

4.1 In terms of Regulation 5(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 supported by the proof or documentation stated in the conditions of this tender.

Table 1: Specific goals for the tender and points claimed

Specific goal	Maximum points	Evidence required
B-BBEE status level of contributor of the tenderer	5	B-BBEE verification certificate issued by a SANAS-accredited verification agency, or a sworn affidavit in the case of an EME or a QSE, submitted in Schedule B3
Locality of the tenderer, being the promotion of enterprises located in the local area	5	Proof of the physical address of the tenderer's place of business, submitted in Schedule B3
Total	10	

B-BBEE status level of contributor

Points for the B-BBEE status level of contributor of the tenderer are allocated as follows, in accordance with clause 53.38 of the policy.

B-BBEE status level of contributor	Number of points for preference (90/10)
Level 1	5
Level 2	4
Level 3	3
Level 4	2
Level 5	1
Level 6	1
Level 7	1

B-BBEE status level of contributor	Number of points for preference (90/10)
Level 8	1
Non-compliant contributor	0

Locality of the tenderer

Points for locality are allocated on the local area in which the tenderer is located, as follows

Local area of supplier	Number of points for preference (90/10)
Within the boundaries of Buffalo City	5
Within the boundaries of the Eastern Cape	1
Outside of the boundaries of the Eastern Cape	0

DECLARATION WITH REGARD TO COMPANY/FIRM

4.2 Name of company/firm

4.3 Company registration number

4.4 Type of company/firm (tick applicable box): ☐ Partnership/Joint Venture/Consortium ☐ One-person business/sole proprietor ☐ Close corporation ☐ Public company ☐ Personal liability company ☐ (Pty) Limited ☐ Non-profit company ☐ State-owned company

4.5 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, qualify 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 paragraph 4.1, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct; and
- (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	SIGNATURE	DATE

B1 CIDB CONTRACTOR GRADING DESIGNATION CERTIFICATES AND REGISTERED PERSON

Tenderers must be registered with the CIDB in the contractor grading designation required by Clause C.2.1.1A of the Tender Data. The CIDB registration certificate of the tenderer must be attached to this schedule. In the case of a joint venture, the certificate of each member and the calculation of the combined grading must be attached.

The CIDB grading of a subcontractor, key Subcontractor or supplier cannot be used to meet the grading requirement (Clause C.2.1.1A). Where the OEM tenders in its own right, it must hold the grading itself; where it is a joint venture member, it must be registered with the CIDB like every other member; and where it is a key Subcontractor, it need not be registered with the CIDB (Clause C.2.1.1C).

Each proposed subcontractor that will undertake construction work must be registered with the CIDB in the contractor grading designation appropriate to its work. Their certificates must be attached.

Attach: (1) proof of registration of the registered person required by Clause C.2.1.1G (Electrical Installation Regulations, 2009); (2) the electrical contractor registration certificate (Department of Employment and Labour) and the NBCEI letter of good standing of the contractor that will carry out the electrical installation work (Clause C.2.1.1G); and (3) the ECSA registration certificates and CVs of the responsible electrical engineer and the responsible structural engineer (Clause C.2.1.1K).

Entity	CIDB registration number	Grading designation	Expiry date
Tenderer / lead partner			
JV member			
JV member			
Registered person (name and registration number)			
Electrical contractor (name, DoEL registration number, NBCEI letter date)			
Responsible electrical engineer (name, ECSA category and number)			
Responsible structural engineer (name, ECSA category and number)			

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

B2 TAX COMPLIANCE STATUS AND CSD REGISTRATION

Tenderers must be registered with and in good standing with SARS and registered on the CSD (Clause C.2.1.1D and E). Tenderers that are not yet registered or in good standing are not precluded from submitting a tender but must be registered and in good standing before contract award.

Entity	SARS tax compliance status PIN	CSD supplier number
Tenderer / lead partner		
JV member		
JV member		

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

B3 B-BBEE STATUS LEVEL CERTIFICATE OR SWORN AFFIDAVIT

To claim preference points for specific goals, tenderers must submit a valid B-BBEE status level verification certificate issued by a verification agency accredited by SANAS; or, in the case of an Exempted Micro Enterprise (EME) or Qualifying Small Enterprise (QSE), a sworn affidavit confirming annual total revenue and level of black ownership, or a certificate issued by the Companies and Intellectual Property Commission. The certificate or affidavit must be that of the tenderer itself; the B-BBEE status of a subcontractor, including the OEM, cannot be claimed.

The B-BBEE status claimed must be that of the entity that will contract with the Employer (Clause C.4.5).

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

B4 LETTER OF GOOD STANDING (COIDA)

Attach a valid letter of good standing issued by the Compensation Commissioner, or by a licensed compensation insurer, in terms of the Compensation for Occupational Injuries and Diseases Act 130 of 1993. In the case of a joint venture, each member must attach its own letter.

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

B5 SCHEDULE OF PROPOSED SUBCONTRACTORS, OEM AND SUPPLIERS

The tenderer must list the OEM of the luminaires, every proposed subcontractor and every major supplier. Unless the OEM is the tenderer or a joint venture member (Schedule A3, Part B, option (a) or (b)), the OEM must be named as the key Subcontractor for the design, manufacture and supply of the luminaires, drivers and control system and the lighting design (Z2 and Z13 of the conditions of contract). The scope and share of the contract value must be genuine (Clause C.4.5). Local EMEs and QSEs must also be listed in Schedule B20.

Category	Name, address and contact details	Work packages or supply to be undertaken	% of contract value	CIDB grading (if applicable)	Local EME or QSE (Y/N)
OEM – key Subcontractor (luminaires)					

Acceptance of this tender shall not be construed as acceptance of any listed subcontractor. Subcontractors are accepted in accordance with the conditions of contract. If any listed subcontractor is not accepted after award, this shall not invalidate the tender, and the tendered Prices remain final and binding.

Number of additional sheets attached to this schedule (if nil, enter NIL):

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

B6 STAGE 1 MANDATORY TECHNICAL COMPLIANCE DECLARATION AND CHECKLIST

This schedule is returnable in Envelope 1. The requirements M1 to M9 are set out in full in Clause C.3.11.3 of the Tender Data. Failure to submit any item will result in the tender not being evaluated further. **No item may be submitted, replaced or completed after the closing time.**

Tenderer (main contractor, or name of joint venture):

OEM (name and luminaire model; state whether the OEM is the tenderer or the key Subcontractor):

No.	Requirement (summary)	Evidence attached (title)	Tenderer's page reference	Complies (Yes/No)	For Employer use: Pass/Fail
M1	OEM authorisation specific to this tender				
M2	Eh average not less than 2,000 lux (Table 1 of the Scope); full photometric design package at MF 0.8				
M3	U1 ≥ 0.7, U2 ≥ 0.8 and GR < 50 (Table 1); spill-light limits met				
M4	Colour temperature 5,700 K, CRI ≥ 80, flicker-free for broadcast				
M5	LM-79, LM-80/TM-21, SANS/IEC 60598-1 and 60598-2-5, IP66, IK08 test reports				
M6	At least two broadcast-standard stadium references (last five years, same luminaire range)				
M7	Delivery to site within 8-12 weeks of the Contract Date (tenderer and OEM undertaking)				
M8	Warranty documents attached: product warranty (all equipment, including masts) and 10-year performance-based warranty (parts and labour); spares for ten years; OEM undertaking in B7 to execute C1.3 where the OEM is a key Subcontractor				
M9	One control panel with four lighting levels in 25% increments				

Declaration by the tenderer

I, the undersigned, duly authorised to sign on behalf of the tenderer, declare that the information and documents submitted for Stage 1 are true and correct; that the luminaires and system offered are those described in the evidence; that the B-BBEE status claimed and the arrangements with the OEM, any joint venture member and any subcontractor are genuine and do not involve any fronting practice; and that I understand that a false declaration will result in disqualification or cancellation of any contract awarded.

SIGNED BY/ON BEHALF OF TENDERER:

NAME AND CAPACITY	SIGNATURE	DATE

Declaration by the OEM (in respect of M1, M4, M5, M6, M7 and M8) – required where the OEM is a key Subcontractor or a joint venture member; an OEM that is the tenderer gives these confirmations in the tenderer’s declaration above

I, the undersigned, duly authorised to sign on behalf of the OEM, confirm the authorisation, product data, test reports, references, delivery undertaking and the undertaking to execute the OEM Guarantee and Undertaking (C1.3) submitted with this tender. If the OEM supports more than one tenderer, I confirm that the OEM has maintained effective information barriers between the teams supporting different tenderers, and that no information about the tender of one tenderer (including its prices) has been shared with any other tenderer.

SIGNED BY/ON BEHALF OF OEM:

NAME AND CAPACITY	SIGNATURE	DATE

B7 OEM KEY SUBCONTRACT ARRANGEMENTS, OEM UNDERTAKING AND JOINT VENTURE AGREEMENT

(Parts A and B are not required where the OEM is the tenderer or a joint venture member – Schedule A3, Part B, option (a) or (b). The tenderer then attaches its own signed undertaking to give the warranty, spares and support obligations in M8 and section 9 of the Scope.)

Part A: OEM key subcontract arrangements

Describe the arrangement between the tenderer and the OEM named in Schedule B5 as key Subcontractor, and attach the supporting agreement (subcontract, heads of agreement or letter of intent signed by both). The arrangement must provide for the matters in additional condition Z13.3 of the conditions of contract (delivery of the OEM Guarantee and Undertaking, cession of rights to the Client and BCMM, step-in by the Client, and notice to the Client before termination or suspension).

Party	Role and scope of work	% of contract value	Resources on site	Agreement attached (Y/N)
Tenderer (main contractor)				
OEM (key Subcontractor)				
Other key subcontractor				

Part B: OEM undertaking to execute the OEM Guarantee and Undertaking

We, the undersigned OEM, confirm that we are named in this tender as the key Subcontractor of the tenderer named below, that we have read the pro forma OEM Guarantee and Undertaking in C1.3 and additional condition Z13 of the conditions of contract, and that, if the tenderer is awarded the contract, we will sign and deliver the OEM Guarantee and Undertaking to the Employer, in the form of C1.3 and without material change, within 14 days of the Contract Date.

Tenderer:

SIGNED BY/ON BEHALF OF OEM:

NAME AND CAPACITY	SIGNATURE	DATE

Part C: Joint venture or consortium agreement (if applicable)

If the tenderer is a joint venture or consortium, attach a signed joint venture or consortium agreement specific to this tender that meets Clause C.2.1.1B of the Tender Data, showing the scope of work and percentage contribution of each member.

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

B8 PREVIOUS EXPERIENCE AND TRACK RECORD OF THE TENDERER AND THE OEM

This schedule is evaluated in Stage 2.1 in accordance with Clause C.3.11.4 of the Tender Data. Each entry must be supported by a completion certificate or a signed reference letter on the client's letterhead with contact details, attached in the order listed. The Employer may verify references.

Table B8.1: Completed contracts of the tenderer (criterion (a))

Client (name, telephone and e-mail)	Project and nature of work	Value (incl. VAT)	Completion date	Sports floodlighting (Y/N)	Role (main contractor, JV member and %, or subcontractor)

Table B8.2: Stadium installations of the OEM (criterion (b))

Venue and country	Sport	Year	Broadcaster	Evcam / Eh achieved (lux)	Client reference (name, telephone and e-mail)

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

B9 SCHEDULE OF KEY PERSONS

This schedule is evaluated in Stage 2.2 in accordance with Clause C.3.11.4 of the Tender Data. The persons named will be named as key persons in Contract Data Part Two and may not be replaced without the Project Manager's acceptance in accordance with the conditions of contract. Where one person fulfils more than one role, this must be stated. Where no name is given for a role, it will be assumed that the tenderer does not have that person.

Role	Name	Qualifications	Professional body, registration number and date	Years' relevant experience	Employer (tenderer, OEM or subcontractor) and office
1. Contractor's Project Manager					
2. Electrical Engineer (design responsibility)					
3. Lighting Design Specialist					
4. Structural Engineer					
5. Construction Manager / Site Manager (full time on site)					
6. Construction Health and Safety Officer (full time on site)					

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

B10 CURRICULA VITAE, QUALIFICATIONS AND REGISTRATIONS OF KEY PERSONS

Attach a CV, certified copies of qualifications and certified copies of professional registrations for each key person listed in Schedule B9, in the order listed. Do not include CVs for support staff. Each CV must include:

- (a) surname (and maiden name in brackets, where applicable), first names, date of birth and nationality;
- (b) education and specialist training, highlighting qualifications relevant to this project;
- (c) membership of professional bodies, with registration numbers and dates of registration;
- (d) a detailed outline of experience directly related to the person's role on this project, stating the total years of relevant experience and the years after professional registration; and
- (e) details of relevant projects (client, value, year of completion and role), including sports lighting and broadcast projects.

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

B11 PROJECT ORGANOGRAM

Attach an organogram showing all key and support roles for the design, supply, installation, testing and commissioning of the works, the reporting lines, the split of responsibilities between the tenderer, the OEM key Subcontractor and other subcontractors, and the interfaces with the Employer, the Project Manager, BCMM, the stadium operator and the broadcaster.

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

B12 METHOD STATEMENT

Submit a method statement specific to this project, addressing each of the nine aspects listed for the method statement under Stage 2.3 in Clause C.3.11.4 of the Tender Data, including any proposed shutdown of the existing floodlights or stadium systems and how work will be arranged around match days and stadium operations.

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

B13 TENDER PROGRAMME

Submit a level 3 programme in Primavera P6, in native format and PDF, from the Contract Date (Monday, 18 January 2027) to Completion (Monday, 17 May 2027). The programme must contain the information required by clause 31.2 of the NEC4 ECC and, as a minimum, show:

- (a) activity ID, description and duration, with start and finish dates;
- (b) logic links, the critical path and total float;
- (c) design, design acceptance and approval periods (including BCMM building plan and electrical approvals);
- (d) manufacture, factory acceptance testing, shipping, customs clearance and delivery of luminaires, drivers and control equipment (consistent with the M7 undertaking);
- (e) site establishment, removal of existing fittings, structural and electrical works, installation, testing, commissioning and independent broadcast verification;
- (f) the key dates and the Completion Date in Contract Data Part One, and the Contractor's time risk allowances; and
- (g) resources for the main activities.

The tender programme will be evaluated in Stage 2.3.

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

B14 PROJECT MANAGEMENT PLAN

Submit a project management plan specific to this project, addressing each of the aspects listed for the project management plan under Stage 2.3 in Clause C.3.11.4 of the Tender Data, including an initial risk register with the principal risks to Completion by the Completion Date and the proposed responses.

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

B15 HEALTH AND SAFETY PLAN AND QUALITY MANAGEMENT

Submit (a) a health and safety plan prepared in response to the Client's Health and Safety Specification (Annexure B), in accordance with Clause C.4.1 of the Tender Data; and (b) evidence of the tenderer's quality management system (ISO 9001 certificate or equivalent) and a draft project quality plan, including inspection and test plans for factory, site and commissioning tests.

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

B16 TECHNICAL PROPOSAL

Submit a technical proposal for the design, supply, installation, testing and commissioning of the works in accordance with the Scope (C3.1). The proposal is evaluated in Stage 2.4 and, if the tender is accepted, the Contractor's design must be consistent with it and with the Scope. The proposal must include, as a minimum:

- (a) **Photometric design package:** the separate calculation pages required by section 2.3 of the Scope (wicket area 3 m × 3 m grid, infield 5 m × 5 m grid and outfield 10 m × 10 m grid, each for Eh, EvN, EvE, EvS and EvW, with the cameras at 1.2 m above ground, placed 2m behind boundary), a summary page showing every design metric in Table 1, an aiming diagram showing all luminaires and aiming lines, vertical and horizontal spill-light contour plots, flicker and colour data, the total installed power and connected load, and the native design files with IES/LDT photometric files. A package without the separate calculation pages scores zero for criterion (a) of Stage 2.4;
- (b) **Product information:** for each luminaire, driver and control component, the manufacturer, model, dimensions, weight, lumen output, power consumption, efficacy, rated life (L80/L90 and B10), operating temperature range, mounting and aiming method, and data sheets;
- (c) **New masts and structures:** the concept structural design of the new hot-dip galvanised steel masts and mast heads indicating the height, sections, base plate details, material grades, and wind load and moment areas (shown to be less than the wind load and moment areas of the current masts). Mast base plate details with bolt holes that match the existing holding-down bolt pattern. A detailed proposal for the partial and complete replacement of holding down bolts and the associated reconstruction of the foundation should this be required. The approach to assessing the foundation plinths and hold-down bolts, lightning protection and earthing, and aviation obstruction lighting, prepared by or under the responsible structural engineer;
- (d) **Electrical infrastructure:** single-line diagram, load calculations, the new Main LV distribution board, the 3CR12 stainless steel mast distribution boards (textured powder-coated electric orange), internal mast wiring, the method of testing the existing power and control cables, protection, surge protection and the assessment of harmonics and thermal imaging, with report, of all supplied distribution boards;
- (e) **Control system:** the control panel providing four lighting levels in 25% increments, the switching arrangement, restrike performance and ease of operation by Border Cricket staff;
- (f) **Testing and commissioning plan:** factory and site tests, measurement grid and method, independent broadcast verification and acceptance criteria; and
- (g) **Operation, maintenance and warranties:** the 10-year maintenance plan for the Maintenance Contract (Annexure J), spare parts list (including at least 10% spare luminaires and drivers), training plan for Border Cricket facilities management staff and BCMM personnel, administration of the product and performance-based warranties, and response times for faults on match days and other days.

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

B17 LIFE CYCLE COSTING

Submit a life cycle costing of the installation offered, in Rand excluding VAT, evaluated in Stage 2.5. The life cycle costing is used to compare tenders on the same basis; it does not form part of, or influence, the tendered price. All tenderers must therefore use the common assumptions below, so that like is compared with like. The life cycle costing is submitted in Envelope 1 and **must not state the Prices, the tendered total of the Prices or the Prices for maintenance**; the capital cost line and the line for planned maintenance in years 1 to 10 (the Maintenance Contract) must read “Refer to Envelope 2” (Clause C.2.13.6A).

Common assumptions (to be used by all tenderers)

Analysis period	20 years from Completion
Operating hours	32 hours per month (384 hours per year) at full broadcast level, unless the tenderer proposes and justifies a specific dimming strategy where both scenarios will be used in the calculations
Electricity tariff	R4.00 per kWh energy charge and R4 per kVA demand charge (BCMM tariff [EL0406] for [2027])
Escalation	Electricity 10% per year; labour and materials 10% per year
Discount rate	12 %per year (real)

Elements to be costed and explained

- energy consumption: connected load per mast and in total (kW), annual consumption (kWh) and annual energy and demand cost;
- planned maintenance: tasks, frequency, labour, access equipment and craneage;
- reactive maintenance: expected failure rates of luminaires, drivers and control components, and the cost of repair;
- component replacement: rated life and replacement timing and cost of drivers, LED modules, surge protection and control hardware;
- lumen depreciation: the effect on maintained illuminance and any constant-light-output or dimming strategy, with its energy effect;
- control system software, licences, subscriptions and remote monitoring;
- spare parts holding, and the costs covered by warranty versus those after the warranty period; and
- end-of-life decommissioning, disposal and recycling, and any residual value.

Summary table (attach the annual cash-flow schedule for years 1 to 20)

Cost element	Total over 20 years (R, excl. VAT) and present value
Capital cost	Refer to Envelope 2
Energy and demand charges	
Planned maintenance, years 1 to 10 (Maintenance Contract)	Refer to Envelope 2
Planned maintenance, years 11 to 20	

Cost element	Total over 20 years (R, excl. VAT) and present value
Reactive maintenance and repairs	
Component replacement	
Control system, software and licences	
Spares holding	
Decommissioning and disposal (less residual value)	
Total life cycle cost (excluding capital cost and maintenance in years 1 to 10)	

The tenderer confirms that the connected load and energy consumption stated in this life cycle costing are those of the installation offered. If the tender is accepted, the installed connected load shall not exceed the stated value by more than 5% (section 1.4 of the Scope).

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

B18 DEVIATIONS AND QUALIFICATIONS BY TENDERER

This schedule is not an invitation to propose deviations or qualifications. Alternative tender offers will not be considered (Clause C.2.12). A tender that contains a material deviation or qualification may be held to be non-responsive. Amendments to the conditions of contract are not acceptable. If the tenderer nevertheless wishes to record a deviation or qualification, it must be stated below, with full details of its financial implications in a covering letter in Envelope 2.

Page, clause or item number	Proposed deviation or qualification

Number of additional sheets attached to this schedule (if nil, enter NIL):

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

B19 RECORD OF ADDENDA TO TENDER DOCUMENTS

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

No.	Date	Title or details
1.		
2.		
3.		
4.		
5.		
6.		

Number of additional sheets attached to this schedule (if nil, enter NIL):

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

B20 CONTRACTOR'S PARTICIPATION PLAN (LOCAL LABOUR AND LOCAL PROCUREMENT)

Describe how the tenderer will meet the local participation targets in Annexure H of the Scope: 100% local labour for unskilled and semi-skilled workers, and Local Procurement Spend with Local Enterprises based in Buffalo City (with preference to EMEs and QSEs) of at least 30% of the Local Procurement Base, being the total of the Prices less the Prices for design (activities 2.1 to 2.3) and for the OEM-supplied luminaires, drivers, brackets and control system equipment (activities 3.1 to 3.3). List the Local Enterprises and work packages below; the full plan required by Annexure H, H.4, is submitted for acceptance with the first programme. A shortfall against the targets during the contract results in withholding under additional condition Z14. If the tender is accepted, this plan becomes the Contractor's Participation Plan under additional condition of contract Z5. This schedule is not scored.

Important: this schedule is submitted in Envelope 1. Do not state any Rand values or Prices in it, as this will disclose the tender price before Stage 4 and may result in disqualification. State percentages only. The Rand value of the Local Procurement Base is calculated from the Activity Schedule (C2.2) after award and stated in the Participation Plan submitted for acceptance with the first programme.

Name of Local Enterprise (Tier 1)	Location in Buffalo City	EME or QSE	Work package or supply	% of the Local Procurement Base
Total				

Local labour	Planned person-days	Of which local labour (%)
Unskilled		100%
Semi-skilled		100%
Skilled		

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

THE CONTRACT

PART C1: AGREEMENTS AND CONTRACT DATA

Number	Heading
C1.1	Form of Offer and Acceptance (including Schedule of Deviations)
C1.2	Contract Data: Part One – Data provided by the <i>Client</i> ; Part Two – Data provided by the <i>Contractor</i>
C1.3	Pro forma OEM Guarantee and Undertaking

C1.1 FORM OF OFFER AND ACCEPTANCE

Offer

The *Client*, identified in the Acceptance signature block, has solicited offers to enter into a contract for the procurement of:

[RFP No. CSA/06/2026-27]: THE DESIGN, SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND VERIFICATION OF LED ARENA FLOODLIGHTING, NEW FLOODLIGHT MASTS AND ASSOCIATED ELECTRICAL INFRASTRUCTURE, AND MAINTENANCE FOR TEN (10) YEARS, AT THE BORDER CRICKET GROUNDS (BUFFALO PARK STADIUM), KUGOMPO CITY

The tenderer, identified in the Offer signature block, has examined the documents listed in the Tender Data and the 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 authorised, 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	
A. Tendered total of the Prices for the works, excluding VAT (C2.2 Activity Schedule)	R
B. Total of the Prices for maintenance for 10 years, excluding VAT (C2.4 Maintenance Price List)	R
C. Offered total, excluding VAT (A + B)	R
Value-added tax at 15% on C	R
Offered total, including value-added tax	R
Offered total including value-added tax, in words:	

This offer may be accepted by the *Client* 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 and address of organisation	
Name and signature of witness	
Date	

Acceptance

By signing this part of this Form of Offer and Acceptance, the *Client* identified below accepts the tenderer's offer, including the Maintenance Price List for the Maintenance Contract under additional condition of contract Z15.

In consideration thereof, the *Client* 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 *Client* 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
Part C4	Site Information

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

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto as listed in the returnable schedules, as well as any changes to the terms of the offer agreed by the tenderer and the *Client* 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 those documents are valid unless contained in this schedule.

The tenderer shall within two weeks after receiving a completed copy of this agreement, including the Schedule of Deviations (if any), contact the *Client's* agent (whose details are given in the Contract Data) to arrange the

delivery of the performance bond (Annexure K of the Scope), the OEM Guarantee and Undertaking (C1.3) where applicable, proof of insurance and any other documentation to be provided in terms of the conditions of contract identified in the Contract Data. 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). Unless the tenderer, within five working days of the date of such receipt, notifies the *Client* in writing of any reason why it cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the Parties.

For the <i>Client</i>	Cricket South Africa NPC (Registration No. 2002/006638/08) 86 5th Street, corner 5th Street and Glenhove Street Melrose Estate Johannesburg 2196
------------------------------	--

Signature	
Name	
Capacity	
Name and signature of witness	
Date	

Schedule of Deviations

No.	Subject	Details
1		
2		
3		
4		
5		

By the duly authorised representatives signing this agreement, the *Client* and the *Contractor* 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 returnable schedules, as well as any

confirmation, clarification or changes to the terms of the offer agreed by the *Contractor* and the *Client* 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 *Contractor* 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 <i>Contractor</i>	For the <i>Client</i>
Signature:	Signature:
Name:	Name:
Capacity:	Capacity:
Witness:	Witness:
Date:	Date:

Number of additional pages appended to this schedule (if nil, enter NIL):

C1.2 CONTRACT DATA

PART ONE – DATA PROVIDED BY THE CLIENT

Clause numbers refer to the NEC4 Engineering and Construction Contract (ECC), June 2017 (with amendments January 2023).

1 General

The conditions of contract are	the core clauses and the clauses for main Option A, dispute resolution Option W1 and secondary Options X2, X7, X8, X9, X11, X13, X15, X16, and X18 of the NEC4 Engineering and Construction Contract, June 2017 (with amendments January 2023), and the additional conditions of contract Z1 to Z18 stated below
The works are	the removal of the existing floodlights and condemned floodlight masts and the design, supply, installation, testing, commissioning and verification of four new hot-dip galvanised steel floodlight masts on the existing foundations, LED arena floodlighting meeting Table 1 of the Scope, and the associated electrical infrastructure and control panel, at the Border Cricket Grounds (Buffalo Park Stadium), KuGompo City, as described in the Scope. The maintenance of the installation for ten years after Completion is provided under the Maintenance Contract (Z15) and is not part of the works
The Client is	Name: Cricket South Africa NPC Address for communications: 86 5th Street, corner 5th Street and Glenhove Street, Melrose Estate, Johannesburg, 2196 Address for electronic communications: per Clause 13.2
The Project Manager is	Name: Mr Ebrahim Abrahams, Triocon Address for communications: per Clause 13.2 Address for electronic communications: per Clause 13.2
The Supervisor is	Name: Mr Ebrahim Abrahams, Triocon Address for communications per Clause 13.2 Address for electronic communications: per Clause 13.2 The <i>Supervisor</i> intends to delegate actions, in accordance with clause 14.2, to Abre Maree for the lighting and electrical elements and to Joshua Van Der Meer for the structural elements of the works, and will notify the <i>Contractor</i> of each delegation.
The Scope is in	Part C3 (Scope of Work), including Annexures A to J, which form part of the Scope
The Site Information is in	Part C4 (Site Information) and the Annexures referred to in it
The boundaries of the site are	the Border Cricket Grounds (Buffalo Park Stadium), Portion of Erf 16226, 1 Buffalo Park Drive, Acadia, KuGompo City, 5201, as shown in Part C4, limited to the areas made available for the works
The language of the contract is	English
The law of the contract is the law of	the Republic of South Africa
The period for reply is	1 week, except that the period for reply for acceptance of the <i>Contractor's</i> design of the lighting, structures and electrical installation is 3 weeks
The following matters will be included in the Early Warning Register	1. Manufacture, shipping and customs clearance lead times for luminaires, drivers and control equipment 2. Condition of the existing foundation plinths and hold-down bolts (Z16) and of the existing feeder cables 3. Electrical supply capacity and approvals required from BCM 4. Access constraints on match days and during stadium events 5. Wind and weather conditions affecting work at height and lifting
Early warning meetings are to be held at intervals no longer than	2 weeks

2 The Contractor's main responsibilities

The key dates and conditions to be met are	1. Condition: the complete design of the lighting, structures and electrical installation is submitted to the <i>Project Manager</i> for acceptance. Key date: Friday, 26 February 2027 2. Condition: all luminaires, drivers and control equipment are delivered to the Site. Key date: Monday, 12 April 2027
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3 Time

The starting date is	Monday, 18 January 2027
The access dates are	1. The Site, for surveys and investigations: Monday, 25 January 2027 2. The Site, for construction: Monday, 15 February 2027, subject to the constraints in the Scope and H&S File submitted and accepted and any statutory requirements (Construction Permit etc being met by the Contractor before commencing with any work on the site,)
The Contractor submits revised programmes at intervals no longer than	2 weeks
The completion date for the whole of the works is	Monday, 17 May 2027
The Client is willing to take over the works before the Completion Date	Yes
The period after the Contract Date within which the Contractor is to submit a first programme for acceptance is	2 weeks

4 Quality management

The period after the Contract Date within which the Contractor is to submit a quality policy statement and quality plan is	2 weeks
The period between Completion of the whole of the works and the defects date is	52 weeks
The defect correction period is	1 week, except that the defect correction period for a Critical Defect is as stated in additional condition Z6

5 Payment

The currency of the contract is	the South African Rand (ZAR)
The assessment interval is	one calendar month, with the assessment date on the 25th day of each month
The interest rate is	2% per year above the prime lending rate of The Standard Bank of South Africa Limited
The period within which payments are made is	as stated in additional condition Z7
If Option A is used: the value engineering percentage is	25%

6 Compensation events

The place where weather is to be recorded is	Site Office
The weather measurements to be recorded for each calendar month are	– the cumulative rainfall (mm) – the number of days with rainfall of more than 5 mm – the number of days with a maximum wind gust of more than [40] km/h during working hours
The weather measurements are supplied by	the <i>Contractor</i>
The weather data are the records of past weather measurements for each calendar month which were recorded at	King Phalo Airport (KuGompo City) weather station, for at least the ten years before the Contract Date
and which are available from	C4 Site Data

8 Liabilities and insurance

These are additional <i>Client's</i> liabilities	None
The minimum amount of cover for insurance against loss of or damage to property (except the works, Plant and Materials and Equipment) and liability for bodily injury to or death of a person (not an employee of the <i>Contractor</i>) arising from or in connection with the <i>Contractor</i> Providing the Works, for any one event, is	R50 000 000
The minimum amount of cover for insurance against death of or bodily injury to employees of the <i>Contractor</i> arising out of and in the course of their employment in connection with the contract, for any one event, is	the amount required by the Compensation for Occupational Injuries and Diseases Act 130 of 1993
The <i>Client</i> provides these insurances from the Insurance Table	None

The *Contractor* provides these additional insurances:

Insurance against	Minimum amount of cover	Deductibles
Contract works (loss of or damage to the works, Plant and Materials)	Replacement value of the works	Maximum of R50,000.00 For the <i>Contractor</i> account
Marine cargo and transit (Plant and Materials from the place of manufacture to the Site)	Replacement value	To be agreed
SASRIA (special risks) for the contract works	Replacement value of the works	As per SASRIA
Professional indemnity for the <i>Contractor's</i> design	As stated for Option X15	Maximum of R50,000.00 For the <i>Contractor</i> account
<i>Contractor's</i> Equipment, owned or hired	Replacement or market value	Maximum of R50,000.00 For the <i>Contractor</i> account

Insurance against	Minimum amount of cover	Deductibles
Motor vehicle third-party liability, including passenger liability	R10 000 000 any one occurrence	Maximum of R50,000.00 For the <i>Contractor</i> account

Resolving and avoiding disputes (Option W1)

The Senior Representatives of the <i>Client</i> are	Name (1): Chief Executive Officer, Cricket South Africa Address for communications: as for the <i>Client</i> Address for electronic communications: [TBC] Name (2): Chief Financial Officer or Head of Legal, Cricket South Africa Address for communications: as for the <i>Client</i> Address for electronic communications: [TBC]
The Adjudicator is	Name: to be agreed by the Parties when a dispute is notified, if not agreed in two weeks then to be appointed by the Adjudication nominating body
The Adjudicator nominating body is	the Association of Arbitrators (Southern Africa) NPC
The tribunal is	arbitration
The arbitration procedure is	the Standard Procedure Rules of the Association of Arbitrators of Southern Africa (AOA), as in effect when the dispute is referred to the tribunal
The place where arbitration is to be held is	KuGompo City, South Africa
The person or organisation who will choose an arbitrator if the Parties cannot agree a choice, or if the arbitration procedure does not state who selects an arbitrator, is	the President of the Association of Arbitrators of Southern

X2: Changes in the law

The law of the project is	the law of the Republic of South Africa
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X7: Delay damages

Delay damages for Completion of the whole of the works are	the following percentages of the total of the Prices at the Completion Date, for each day from the Completion Date until Completion: – days 1 to 10: 0.1% per day (cumulative 1%) – days 11 to 20: 0.2% per day (cumulative 3%) – days 21 to 25: 0.4% per day (cumulative 5%) – days 26 to 30: 1.0% per day (cumulative 10%) The total delay damages are limited to 10% of the total of the Prices at the Contract Date. At these rates if the limit is reached on day 30, any further delay will be deemed a material default by the <i>Contractor</i>
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Days of delay after the Completion Date	Rate per day (% of the total of the Prices)	Delay damages for the band	Cumulative maximum
1 to 10	0.1%	1.0%	1.0%
11 to 20	0.2%	2.0%	3.0%
21 to 25	0.4%	2.0%	5.0%
26 to 30	1.0%	5.0%	10.0% (limit)

X8: Undertakings to the *Client* or Others

The undertakings to Others are provided to	Buffalo City Metropolitan Municipality (BCMM), as owner of the Border Cricket Grounds, in respect of the <i>Contractor's</i> design, the works and the warranties, in the form set out in the Scope
The Subcontractor undertakings to Others are	Works: design, manufacture and supply of the luminaires, drivers, control system and lighting design (the OEM key subcontract) Provided to: BCMM
The Subcontractor undertakings to the <i>Client</i> are	Works: design, manufacture and supply of the luminaires, drivers, control system and lighting design (the OEM key subcontract) Form: the OEM Guarantee and Undertaking in C1.3, which the Scope adopts as the form required by clause X8.4

X9: Transfer of rights

No Contract Data is required for Option X9. The other rights which the *Contractor* obtains for the *Client*, including the transfer to the *Client* of the *Contractor's* rights against the OEM key Subcontractor, are stated in section 11 of the Scope and in additional condition Z13.

X11: Termination by the *Client*

Option X11 applies	No Contract Data is required for Option X11. The <i>Client</i> may terminate for a reason not stated in the Termination Table (clause X11.1). The procedures and amounts due on such a termination are those stated in additional condition of contract Z10.1, which replaces clause X11.2.
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X13: Performance bond

The amount of the performance bond is	10% of the tendered total of the Prices (excluding VAT), in the form of a fixed on-demand guarantee issued by a bank registered in terms of the Banks Act 94 of 1990 [with a national long-term credit rating of at least A(ZA) or equivalent], in the form of the pro forma in Annexure K of the Scope (Part C3).
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X15: The *Contractor's* design

The period for retention following Completion of the whole of the works or earlier termination is	10 years
The minimum amount of insurance cover for claims made against the <i>Contractor</i> arising out of its failure to use the skill and care normally used by professionals designing works similar to the works is, in respect of each claim,	R30 000 000
The period following Completion of the whole of the works or earlier termination for which the <i>Contractor</i> maintains insurance for claims made against it arising out of its failure to use the skill and care is	5 years

X16: Retention

The retention free amount is	Nil (R0.00). Retention is deducted from the first amount due
The retention percentage is	10%
Retention bond	The <i>Contractor</i> may give the <i>Client</i> a retention bond

X18: Limitation of liability

The <i>Contractor's</i> liability to the <i>Client</i> for indirect or consequential loss is limited to	10% of the total of the Prices at the Contract Date
For any one event, the <i>Contractor's</i> liability to the <i>Client</i> for loss of or damage to the <i>Client's</i> property is limited to	R30 000 000
The <i>Contractor's</i> liability for Defects due to its design which are not listed on the Defects Certificate is limited to	R10 000 000 per occurrence
The <i>Contractor's</i> total liability to the <i>Client</i> for all matters arising under or in connection with the contract, other than excluded matters, is limited to	the total of the Prices (including VAT)
The end of liability date is	10 years after Completion of the whole of the works

Additional conditions of contract

The additional conditions of contract are Z1 to Z18:

Z1: Identified and defined terms	
Z1.1	(1) BCMM is Buffalo City Metropolitan Municipality (BUF), the owner of the Border Cricket Grounds. Postal address: PO Box 134, KuGompo City, 5200. Physical address: 117 Oxford Street, corner North and Oxford Streets, Trust Centre, KuGompo City. (1A) Border Cricket is the CSA-affiliated provincial union which occupies the Border Cricket Grounds as lessee under a lease with BCMM and is the end user of the works. (3) A Match Day is a day on which a cricket match or other event is held at the Border Cricket Grounds, as notified by the <i>Project Manager</i>. (4) The Broadcast Lighting Standard is the lighting performance requirements in Table 1 and section 2 of the Scope. (5) The Maintenance Contract is the contract referred to in Z15.
Z2: Key Subcontractors	
Z2.1	(1) The OEM is the original equipment manufacturer of the luminaires, drivers and control system named in the <i>Contractor's</i> tender (Schedule B5). The OEM key subcontract is the subcontract between the <i>Contractor</i> and the OEM for the design, manufacture and supply of the luminaires, drivers and control system and the lighting design. (2) Unless the <i>Contractor</i> is itself the OEM or the OEM is a member of the joint venture that is the <i>Contractor</i> (Z13.7), the OEM is a key Subcontractor and is accepted by the <i>Project Manager</i> as a Subcontractor under clause 26 on the Contract Date. Any other Subcontractor named as such in the Scope is also a key Subcontractor.
Z2.2	The <i>Contractor</i> either appoints a key Subcontractor for each key subcontract or appoints a replacement Subcontractor who has been accepted by the <i>Project Manager</i>. The <i>Contractor</i> submits the name of a proposed replacement Subcontractor to the <i>Project Manager</i> for acceptance, with the reason for the replacement and details of the capacity, technical ability and experience of the proposed replacement. A reason for not accepting the proposed replacement is that the appointment will not allow the <i>Contractor</i> to Provide the Works, or that the replacement luminaires would not meet the performance and warranty requirements of the Scope.
Z3: Intellectual Property	

Z3.1	(1) Background IP is Intellectual Property owned by the <i>Client</i>, the <i>Contractor</i> or a Subcontractor which has not been created for the works. Foreground IP is Intellectual Property created by the <i>Client</i>, the <i>Contractor</i> or a Subcontractor for the works. (2) The <i>Client</i>, the <i>Contractor</i> and Subcontractors retain ownership of their own Background IP and Foreground IP. (3) The <i>Contractor</i> grants or procures for the benefit of the <i>Client</i> and BCMM a non-exclusive, non-transferable, royalty-free, perpetual and irrevocable licence to use the Background IP and Foreground IP (including the control system software, configuration and aiming data) to operate, maintain, repair, alter and extend the works. The <i>Contractor</i> obtains equivalent rights for the <i>Client</i> from each Subcontractor.
Z4: Working with the <i>Client</i> and Others	
Z4.1	The <i>Contractor</i> obtains the approvals and consents from Others stated in the Scope, including the approvals of BCMM as local authority and electricity supplier.
Z4.2	The <i>Contractor</i> co-operates with BCMM, the stadium operator (Border Cricket) and the broadcaster, and arranges its work around Match Days in accordance with the Scope.
Z5: Contractor's Participation Plan	
Z5.1	(1) The <i>Contractor's</i> Participation Plan is the plan identified in the Contract Data, unless changed in accordance with the contract. It describes how the <i>Contractor</i> plans to meet the local labour, local procurement and skills development targets in Annexure H of the Scope, including by using Local Enterprises, EMEs and QSEs to provide part of the works. (2) Local labour, Local Enterprise and the other terms used in this condition have the meanings given in Annexure H of the Scope.
Z5.2	The <i>Contractor</i> complies with the Participation Plan and Annexure H of the Scope and reports on them monthly. The <i>Contractor</i> submits the Participation Plan, updated to the Contract Date and containing the information required by Annexure H, to the <i>Project Manager</i> for acceptance with its first programme.
Z5.3	The <i>Contractor</i> may submit a proposal to change the Participation Plan to the <i>Project Manager</i> for acceptance. A reason for not accepting is that the change will not allow the <i>Contractor</i> to Provide the Works or will not meet the targets in Annexure H of the Scope.
Z5.4	The <i>Project Manager</i> may instruct the <i>Contractor</i> to correct a failure to comply with the Participation Plan. This instruction is not a compensation event.
Z6: Critical Defects	
Z6.1	A Critical Defect is a Defect which, if not corrected, gives rise to an imminent health, safety or environmental hazard; prevents a match or broadcast from proceeding, or prevents the lighting from meeting the Broadcast Lighting Standard on a Match Day; prevents normal operational use of the works; or results, or could result, in a notice, fine or penalty from a regulatory body.
Z6.2	The <i>Client</i> , the <i>Project Manager</i> or the <i>Supervisor</i> may inform the <i>Contractor</i> that a notified Defect is a Critical Defect.
Z6.3	(1) The <i>Contractor</i> attends the Site within [24] hours of being informed of a Critical Defect (or within [4] hours on a Match Day) and corrects it within a time which minimises its adverse effect on the <i>Client</i> or Others, and in any event before the next Match Day where practicable. (2) If the <i>Contractor</i> does not take action in response to a Critical Defect, the <i>Client</i> may take action. The <i>Project Manager</i> assesses the cost to the <i>Client</i> of having taken the action and the <i>Contractor</i> pays this amount.
Z7: Invoicing and payment	
Z7.1	Add the following to clause 51.1: "The Party to which payment is due submits a valid tax invoice to the other Party for the amount to be paid within one week of the <i>Project Manager's</i> certificate. The invoice shows the information the Scope requires."
Z7.2	Delete the first sentence of clause 51.2 and replace it with: "Each certified payment is made by the later of three weeks after the paying Party receives a valid tax invoice from the other Party and five weeks after the assessment date."
Z8: Title and vesting of Plant and Materials	
Z8.1	Delete clauses 70.1 and 70.2 and replace them with the following: (1) Whatever title the <i>Contractor</i> has to Plant and Materials outside the Site passes to the <i>Client</i> if the <i>Supervisor</i> has marked them as for the contract. (2) The <i>Contractor</i> ensures that title to Plant and Materials passes to the <i>Client</i>, without any formality, at the earlier of their delivery to the Working Areas and payment for them by the <i>Client</i>. (3) The Price for Work Done to Date excludes amounts for Plant and Materials outside the Site until the <i>Contractor</i> has provided proof that title has passed, or will pass on payment, to the <i>Client</i>. (4) Loss of or damage to the works and Plant and Materials remains a <i>Contractor's</i> liability until Completion, whether or not title has passed, unless the contract states otherwise.
Z8.2	The <i>Client</i> may transfer its title to the works, and assign the benefit of the <i>Contractor's</i> and Subcontractors' warranties and undertakings, to BCMM without the consent of the <i>Contractor</i> .
Z9: Subcontractor insurance	

Z9.1	The <i>Contractor</i> ensures that Subcontractors of any tier provide their own insurance cover for death of or bodily injury to their employees arising in the course of their employment in connection with this contract, and any other insurance required by law, for not less than the amount required by law and this contract, and makes the certificates available to the <i>Project Manager</i> .
Z10: Termination by the <i>Client</i>	
Z10.1	Delete X11.2 and replace it with the following: "If the <i>Client</i> terminates for a reason not identified in the Termination Table, the procedures followed are P1 and P2 and the amounts due are A1 and A2. The <i>Client</i> is not liable to the <i>Contractor</i> for loss of profit, loss of opportunity or any other loss or cost not provided for in the Termination Table."
Z10.2	If the <i>Contractor</i> , or any person acting on its behalf, obtained preference points on a fraudulent basis, engaged in a fronting practice, or committed a corrupt or fraudulent act in connection with the procurement or the contract, the <i>Client</i> may terminate the <i>Contractor's</i> obligation to Provide the Works. The procedures followed and the amounts due are those stated in the Termination Table for a termination by the <i>Client</i> for a default by the <i>Contractor</i> under clause 91.2.
Z11: Audit and records	
Z11.1	The <i>Contractor</i> keeps the records required by the contract, and all records of the procurement of Subcontractors and of payments, for at least five years after the defects date, and allows the <i>Client</i> , BCMM and the Auditor-General of South Africa to inspect and audit them at any reasonable time.
Z11.2	The <i>Contractor</i> provides the <i>Project Manager</i> with the information the <i>Client</i> reasonably requires to report to BCMM on the progress of the works, at the times stated in the Scope.
Z12: Applicable laws	
Z12.1	Applicable laws means all statutes, by-laws, regulations, directives, standards incorporated by law, and statutory consents and approvals with which the <i>Contractor</i> has a legal obligation to comply, including the Occupational Health and Safety Act 85 of 1993, the Construction Regulations, 2014, the Electrical Installation Regulations, 2009, and the National Building Regulations and Building Standards Act 103 of 1977. The <i>Contractor</i> complies with all applicable laws.
Z13: OEM key Subcontractor and OEM Guarantee	
Z13.1	The <i>Contractor</i> does not, without the prior acceptance of the <i>Project Manager</i> , terminate, cancel, suspend, repudiate, rescind, materially vary, cede, allow to lapse, or take any similar action against, or which has the effect of ending or materially prejudicing, the OEM key subcontract or the OEM Guarantee and Undertaking (C1.3). A reason for not accepting is that the action will not allow the <i>Contractor</i> to Provide the Works, or that it would deprive the <i>Client</i> or BCMM of the benefit of the OEM Guarantee and Undertaking.
Z13.2	(1) If the <i>Contractor</i> takes an action referred to in Z13.1 without the acceptance of the <i>Project Manager</i> , the <i>Contractor</i> is treated as having appointed a Subcontractor for substantial work before the <i>Project Manager</i> has accepted the Subcontractor, and that action is a default for reason R13 under clause 91.2. (2) The <i>Project Manager</i> may notify the <i>Contractor</i> of the default. If the <i>Contractor</i> has not put the default right within four weeks of the notification, by reinstating the OEM key subcontract or by appointing a replacement OEM accepted under Z2.2 whose OEM Guarantee and Undertaking has been delivered to the <i>Client</i> , the <i>Client</i> may terminate the <i>Contractor's</i> obligation to Provide the Works under clause 91.2. (3) On such a termination the procedures followed are P1, P2 and P3 and the amounts due are A1 and A3, as stated in the Termination Table. Under P2 the <i>Client</i> may instruct the <i>Contractor</i> to assign the benefit of the OEM key subcontract to the <i>Client</i> . (4) This condition does not limit the <i>Client's</i> other rights for the same default, including under clause 91.2 for reasons R11 and R12.
Z13.3	The <i>Contractor</i> ensures that the OEM key subcontract (1) obliges the OEM to deliver the OEM Guarantee and Undertaking in the form of C1.3, signed, to the <i>Client</i> within 14 days of the Contract Date, (2) permits the <i>Contractor</i> to cede and assign its rights against the OEM to the <i>Client</i> and BCMM without the consent of the OEM, (3) allows the <i>Client</i> to step into the OEM key subcontract in place of the <i>Contractor</i> if the <i>Contractor's</i> obligation to Provide the Works is terminated and (4) does not allow the OEM to terminate or suspend the subcontract without first giving the <i>Client</i> four weeks' written notice and an opportunity to remedy the <i>Contractor's</i> default.
Z13.4	Under Option X9, the <i>Contractor</i> cedes and assigns to the <i>Client</i> all its rights against the OEM under the OEM key subcontract relating to Defects, warranties, guarantees, the supply of spares and the performance of the luminaires, drivers and control system, with effect from the earlier of Completion of the whole of the works and the date of a termination certificate. The <i>Contractor</i> provides to the <i>Client</i> the documents which transfer these rights. The cession does not relieve the <i>Contractor</i> of any of its obligations under the contract.
Z13.5	The OEM Guarantee and Undertaking is a Subcontractor undertaking to the <i>Client</i> under Option X8. It is not a bond or financial security for the purposes of clause 4.4.3.3 or 4.4.3.4 of the CIDB Standard for Uniformity in Construction Procurement, and is additional to the performance bond under Option X13. Failure by the <i>Contractor</i> to provide it within 14 days of the Contract Date is a default by the <i>Contractor</i> for reason R12 under clause 91.2.
Z13.6	Nothing in this condition, in the OEM Guarantee and Undertaking or in the cession under Z13.4 limits the <i>Contractor's</i> responsibility under clause 26.1 for Providing the Works as if it had not subcontracted.

Z13.7	Where the <i>Contractor</i> is itself the OEM, or the OEM is a member of the joint venture that is the <i>Contractor</i> , Z13.1 to Z13.5 and the OEM Guarantee and Undertaking (C1.3) do not apply. The <i>Contractor</i> instead gives the guarantees and undertakings stated in paragraphs 2 to 5 and 7 of C1.3 directly to the <i>Client</i> as obligations under the contract, which survive Completion and termination, and the <i>Client</i> may cede the benefit of these obligations to BCMM without the consent of the <i>Contractor</i> .
Z14: Withholding for programme and local participation	
Z14.1	If the <i>Contractor</i> has not submitted a revised programme to the <i>Project Manager</i> for acceptance within the period for submitting revised programmes stated in the Contract Data, 5% of the amount certified in the next assessment, and in each later assessment until the revised programme is submitted, is withheld.
Z14.2	If the <i>Project Manager</i> assesses, in accordance with Annexure H (Local Participation Guidelines and Targets), that the <i>Contractor</i> has not met the local labour or local procurement targets for an assessment, and does not accept the reasons for the shortfall as valid and justifiable, 5% of the amount certified in that assessment is withheld.
Z14.3	(1) An amount withheld under Z14.1 is included in the amount due in the first assessment after the revised programme has been submitted. (2) An amount withheld under Z14.2 is included in the amount due in the first assessment after the <i>Contractor</i> has demonstrated, to the <i>Project Manager's</i> satisfaction, that the shortfall has been made good by improved performance in later months, so that its cumulative performance meets the cumulative profile in the accepted Participation Plan. (3) An amount withheld under Z14.2 for a shortfall which has not been made good by Completion of the whole of the works, measured against the minimum targets in Annexure H, is not paid to the <i>Contractor</i> .
Z14.4	An amount withheld under this condition is not retention under Option X16, is not delay damages and is not a compensation event. Withholding under this condition is without prejudice to the <i>Client's</i> other rights, including the <i>Project Manager's</i> instruction under Z5.4 and the <i>Client's</i> right to terminate under clause 91.2.
Z15: Maintenance Contract (NEC4 Term Service Short Contract)	
Z15.1	At the same time as this contract is concluded, the <i>Client</i> and the <i>Contractor</i> enter into a contract for the maintenance of the works for a period of ten years, based on the NEC4 Term Service Short Contract (June 2017, with amendments [January 2023]) (the Maintenance Contract). Its terms are those stated in Annexure J, and its price list is the Maintenance Price List (C2.4) as tendered. The <i>Contractor</i> signs the Maintenance Contract when it signs this contract.
Z15.2	The starting date of the Maintenance Contract is the date of Completion of the whole of the works certified under this contract or, if earlier, the date on which the <i>Client</i> takes over the whole of the works. The service period ends ten years after the starting date.
Z15.3	Defects in the works remain the <i>Contractor's</i> responsibility under this contract until the Defects Certificate is issued (52 weeks after Completion of the whole of the works). Correcting a Defect is not a service under the Maintenance Contract and is not paid for under it. Work under the product warranty and the performance-based warranty (section 9 of the Scope) is likewise not paid for under the Maintenance Contract. The Maintenance Contract does not reduce the <i>Contractor's</i> obligations under this contract or the warranties.
Z15.4	If the <i>Client</i> terminates the <i>Contractor's</i> obligation to Provide the Works under this contract for a reason in clause 91 relating to the <i>Contractor</i> before the starting date of the Maintenance Contract, the <i>Client</i> may also terminate the Maintenance Contract without liability to the <i>Contractor</i> .
Z15.5	The <i>Client</i> may cede and assign the Maintenance Contract to BCMM, or to Border Cricket as lessee, on written notice to the <i>Contractor</i> . The <i>Contractor</i> consents to this cession and assignment.
Z16: Foundations and hold-down bolts	
Z16.1	The existing foundations and holding-down bolt assemblies are re-used for the new masts. Their condition is unknown, and no intrusive investigation has been carried out (Part C4, item 7). The <i>Contractor</i> inspected the foundations at the compulsory site inspection.
Z16.2	The <i>Contractor's</i> foundation risk is (1) the inspection, survey and assessment of each foundation plinth and hold-down bolt assembly after the existing masts are removed, and a report to the <i>Project Manager</i> ; (2) matching the new masts to the existing hold-down bolt layout, after verifying the dimensions; and (3) any remediation, reinforcement or modification of the foundations which an experienced contractor would reasonably have foreseen as necessary from the Site Information and an inspection at the compulsory site inspection. The <i>Contractor's</i> foundation risk is included in the Prices.
Z16.3	Add the following to clause 60.1: "(22) The condition of an existing foundation plinth or hold-down bolt assembly requires remediation, reinforcement, modification or replacement which is not within the <i>Contractor's</i> foundation risk stated in additional condition Z16.2." Clause 60.1(12) does not apply to the condition of the existing foundation plinths and hold-down bolt assemblies.
Z16.4	The <i>Contractor</i> notifies the <i>Project Manager</i> of the condition of each foundation and hold-down bolt assembly within [seven] days after removing the existing mast, and does not erect the new mast on it until the <i>Project Manager</i> has accepted the report. The replacement of the hold-down bolts (activity 4.5) is omitted if the <i>Project Manager</i> accepts that the existing bolts may be re-used.
Z17: Key persons	

Z17.1	If the <i>Contractor</i> replaces a key person, or allows a key person to stop working on the contract, without the <i>Project Manager</i> having accepted the replacement under clause 24.1, the <i>Contractor</i> is treated as having substantially failed to comply with its obligations. This is a default by the <i>Contractor</i> for reason R11 under clause 91.2.
Z17.2	The <i>Project Manager</i> may notify the <i>Contractor</i> of the default. If the <i>Contractor</i> has not put the default right within four weeks of the notification, by reinstating the key person or by employing a replacement accepted by the <i>Project Manager</i> , the <i>Client</i> may terminate the <i>Contractor's</i> obligation to Provide the Works under clause 91.2. The procedures followed and the amounts due are those stated in the Termination Table for reason R11.
Z17.3	This condition does not apply where a key person dies, becomes incapacitated or leaves the employment of the <i>Contractor</i> for a reason outside the <i>Contractor's</i> control, provided that the <i>Contractor</i> promptly submits a replacement for acceptance under clause 24.1.
Z18: Maximum delay damages	
Z18.1	If the delay damages payable by the <i>Contractor</i> reach the limit stated in the Contract Data for Option X7 (10% of the total of the Prices) and Completion of the whole of the works has not been achieved, the <i>Contractor</i> is treated as having substantially failed to comply with its obligations. This is a default by the <i>Contractor</i> for reason R11 under clause 91.2.
Z18.2	The <i>Project Manager</i> may notify the <i>Contractor</i> of the default. If the <i>Contractor</i> has not put the default right within four weeks of the notification, by achieving Completion of the whole of the works, the <i>Client</i> may terminate the <i>Contractor's</i> obligation to Provide the Works under clause 91.2. The procedures followed are P1, P2 and P3 and the amounts due are A1 and A3, as stated in the Termination Table.
Z18.3	The limit on delay damages does not limit the amount due on termination under A3 (the forecast additional cost to the <i>Client</i> of completing the whole of the works), the <i>Client's</i> other rights under this contract, or the <i>Client's</i> right not to terminate and to continue the contract. No further delay damages are payable after the limit has been reached.

PART TWO – DATA PROVIDED BY THE CONTRACTOR

(To be completed by the tenderer and returned in Envelope 2. Failure to state the fee percentage and the data for the Short Schedule of Cost Components will render the tender non-responsive.)

1 General

The Contractor is	Name: Address for communications: Address for electronic communications:
The fee percentage is	 %
The working areas are	the Site
The key persons are	The persons named in Schedule B9 of the tender, in the following roles: (1) <i>Contractor's</i> Project Manager; (2) Electrical Engineer; (3) Lighting Design Specialist; (4) Structural Engineer; (5) Construction Manager / Site Manager; (6) Construction Health and Safety Officer. Their names, responsibilities, qualifications and experience are as stated in Schedules B9 and B10.
The following matters will be included in the Early Warning Register	

5 Payment

The activity schedule is	Part C2.2
The tendered total of the Prices (excluding VAT) is	R

Contractor's Participation Plan

The Contractor's Participation Plan is	Schedule B20 of the tender
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Resolving and avoiding disputes

The Senior Representatives of the Contractor are	Name (1): Address for communications: Address for electronic communications: Name (2): Address for communications: Address for electronic communications:
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Data for the Short Schedule of Cost Components

The people rates; the published list of Equipment and the percentage for adjustment for Equipment in the published list; the rates for other Equipment; the rates for Defined Cost of manufacture and fabrication, and of design, outside the Working Areas; and the categories of design people whose travelling expenses are included in Defined Cost, are	as stated in C2.3 (Schedule of People Rates and Equipment Rates), which is returned with the tender and forms part of this Contract Data
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SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

C1.3 PRO FORMA OEM GUARANTEE AND UNDERTAKING

(To be issued on the letterhead of the OEM named in Schedule B5 and delivered to the Client within 14 days of the Contract Date. A signed undertaking by the OEM to issue this guarantee is submitted with the tender in Schedule B7. The guarantee must not differ substantially from this pro forma. This is a Subcontractor undertaking to the Client under Option X8 and not a bank bond.)

OEM GUARANTEE AND UNDERTAKING TO THE CLIENT

Beneficiary (the Client)	Cricket South Africa NPC (Registration No. 2002/006638/08), 86 5th Street, corner 5th Street and Glenhove Street, Melrose Estate, Johannesburg, 2196
The OEM	Name: Registration number and country of incorporation: Address:
The Contractor	
Contract	[RFP No. CSA/06/2026-27]: THE DESIGN, SUPPLY, INSTALLATION, TESTING, COMMISSIONING AND VERIFICATION OF LED ARENA FLOODLIGHTING, NEW FLOODLIGHT MASTS AND ASSOCIATED ELECTRICAL INFRASTRUCTURE, AND MAINTENANCE FOR TEN (10) YEARS, AT THE BORDER CRICKET GROUNDS (BUFFALO PARK STADIUM), KUGOMPO CITY
The Products	The luminaires, LED drivers, mounting brackets and control system (including software and firmware) supplied by the OEM for the works, as listed in the Contractor's Technical Proposal (Schedule B16)

1. We, the OEM, are the manufacturer of the Products and a Subcontractor of the Contractor under the OEM key subcontract. In consideration of the Client entering into the contract with the Contractor, we give the following guarantees and undertakings directly to the Client.
2. **Compliance.** We guarantee that the Products and the lighting design prepared by us or on our behalf comply with the Scope, including the illuminance, uniformity, colour temperature, colour rendering, flicker, glare and spill requirements in Table 1 and section 2 of the Scope, and with the photometric data and test reports submitted with the tender.
3. **Warranty.** We warrant the Products against defects in design, materials and workmanship for ten (10) years from Completion of the whole of the works. We guarantee that, during that period, the Products will maintain the design light levels in Table 1 of the Scope, and we will provide all parts needed to maintain those light levels. The failure rate of the LED modules and drivers will not exceed [0.5%] per year.
4. **Repair and replacement.** We will repair or replace, at our cost (including delivery to Site), any Product that fails to meet this guarantee, within 14 days of notification, or within 48 hours where the failure affects a scheduled Match Day, and will maintain stock in South Africa for this purpose.
5. **Spares and support.** We will make spare parts, compatible replacement luminaires and drivers, and software and firmware support available for at least ten (10) years from Completion of the whole of the works.
6. **Continuity.** If the Contractor's obligation to Provide the Works is terminated, or the Contractor ceases to perform the OEM key subcontract, we will at the Client's written request continue to perform the OEM key subcontract for the Client (or for a replacement contractor nominated by the Client) on the same

terms, including price, against payment of amounts properly due to us and not already paid by the *Contractor*.

7. **Cession and transfer.** We consent to the cession and assignment by the *Contractor* to the *Client*, and by the *Client* to Buffalo City Metropolitan Municipality, of all rights against us under the OEM key subcontract and this guarantee. The *Client* may cede this guarantee to Buffalo City Metropolitan Municipality without further consent.
8. **No release.** Our obligations are not affected by any change to the works, extension of time, indulgence or forbearance granted to the *Contractor*, any dispute between us and the *Contractor*, or the termination of the contract or the OEM key subcontract. We will not terminate or suspend the OEM key subcontract without first giving the *Client* four weeks' written notice and an opportunity to remedy the *Contractor's* default.
9. **Liability.** Our total liability under this guarantee is limited to the value of the OEM key subcontract, except for liability for death or personal injury, fraud or wilful misconduct.
10. **Law and jurisdiction.** This guarantee is governed by the law of the Republic of South Africa, and disputes are resolved in accordance with the dispute resolution procedure in the contract. We choose as our domicilium citandi et executandi in South Africa:

SIGNED FOR AND ON BEHALF OF THE OEM (duly authorised):

NAME AND CAPACITY	SIGNATURE	DATE

ACKNOWLEDGED BY THE CONTRACTOR:

NAME AND CAPACITY	SIGNATURE	DATE

PART C2: PRICING DATA

Number	Heading
C2.1	Pricing Instructions (NEC4 ECC Option A)
C2.2	Activity Schedule
C2.3	Schedule of People Rates and Equipment Rates (Short Schedule of Cost Components)
C2.4	Maintenance Price List (NEC4 Term Service Short Contract)

C2.1 PRICING INSTRUCTIONS

1. The conditions of contract are the NEC4 Engineering and Construction Contract, Option A: Priced contract with activity schedule. The Activity Schedule in C2.2 is the activity schedule referred to in the conditions of contract. Each Price is a lump sum for the activity concerned, and the total of the Prices is the sum of the Prices.
2. The Price for Work Done to Date is the total of the Prices for the activities that have been completed (clause 11.2(29)). Payment is therefore made only for completed activities. Tenderers must define activities so that their completion can be readily verified, and in sizes that give a reasonable cash flow. Each activity in the Activity Schedule must relate to an activity on the tender programme (Schedule B13).
3. Information in the Activity Schedule is not Scope (clause 55.1). The *Contractor* provides the works in accordance with the Scope whether or not an item of work is listed in the Activity Schedule.
4. The Prices include all costs of providing the works, including design, supply, manufacture, factory testing, packing, shipping, insurance in transit, customs and import duties, delivery to Site, craneage and access equipment, removal and disposal of existing equipment, installation, temporary works, testing, commissioning, independent verification, documentation, training, spares, warranties, the performance bond, the OEM Guarantee and Undertaking, insurances, health and safety compliance, overheads, profit and risk. The fee is included in the Prices and is not priced separately; the fee percentage stated in Contract Data Part Two is used only for assessing compensation events.
5. The Prices are stated in South African Rand, excluding value-added tax (VAT). VAT is added in the Form of Offer. The Prices are fixed and are not adjusted for inflation or exchange rates. The *Contractor* bears the risk of changes in exchange rates for imported Plant and Materials.
6. Time-related activities (such as site management and supervision) must be priced as separate activities linked to the progress of the works, for example monthly, and not front-loaded. The Employer may treat an unbalanced activity schedule in accordance with Clause C.4.3 of the Tender Data, and a revised activity schedule in which the Prices are not reasonably distributed between the activities may be rejected in accordance with the conditions of contract.

7. The activities listed in C2.2 are the minimum required. Tenderers may subdivide them and add activities, but may not delete or combine them. Plant and Materials outside the Site are paid for only in accordance with additional condition of contract Z8.
8. The tendered total of the Prices (C2.2) and the total of the Prices for maintenance (C2.4) are carried to the Form of Offer (C1.1). Their sum, including VAT, is the price used in Stage 4 of the evaluation.
9. The *people rates*, the rates for other Equipment data and the other rates in C2.3 are the data for the Short Schedule of Cost Components referred to in Contract Data Part Two. They are used only to assess compensation events and are not added to the tendered total of the Prices. They must be market-related; the Employer may act under Clause C.4.3 of the Tender Data if they are not.
10. **Foundations and hold-down bolts.** The Prices include the *Contractor's* foundation risk stated in additional condition of contract Z16, including the inspection, assessment and report on each foundation plinth and hold-down bolt assembly. The replacement of the hold-down bolts, levelling and fixing nuts and washers is priced as activity 4.5. If the *Project Manager* accepts that the existing hold-down bolts may be reused, the *Project Manager* instructs the omission of the replacement, and the Prices are reduced as a compensation event. No provisional sums are included in the Activity Schedule.
11. **Existing feeder cables.** The existing power and control cables feeding the masts are currently operational at a higher load than the new installation. The *Contractor* tests them (activity 5.8) and re-uses them. The repair or replacement of any cable that fails the test, or is otherwise not fit for re-use, is at the *Contractor's* risk and cost and is not a compensation event. The Prices include for this risk.
12. **Maintenance Price List.** The Maintenance Price List (C2.4) is the price list for the Maintenance Contract (NEC4 Term Service Short Contract) under additional condition of contract Z15 and Annexure J. The prices are stated in Rand, excluding VAT, at the base date of the tender, and are adjusted annually as stated in Annexure J. Correction of Defects under this contract and work under the performance-based warranty are not priced in the Maintenance Price List.
13. **Communication system.** The *Contractor* prices the provision of the Contractly contract management system (Scope 8.3 to 8.5) in activities 1.7 to 1.9 for the full duration of this contract, from the Contract Date until the Defects Certificate is issued. Contractly is not priced in the Maintenance Price List.

C2.2 ACTIVITY SCHEDULE

Summary Activity Schedule for tender purposes. This Activity Schedule is a summary of the items of work and is used for tender and evaluation purposes. The tenderer prices every item, and the tendered total of the Prices is carried to the Form of Offer.

Detailed activity schedule. Within one week of the Contract Date, and with its first programme for acceptance, the *Contractor* submits to the *Project Manager* for acceptance a detailed activity schedule prepared in accordance with the NEC4 Engineering and Construction Contract, Option A. The detailed activity schedule breaks each item of the summary into activities whose completion can be readily verified, each of which is shown on the programme (clause 31.4). The total of the Prices in the detailed activity schedule is equal to the tendered total of the Prices, and the Prices for the activities within each summary item add up to the Price for that item. The detailed activity schedule is a revised activity schedule under clause 54.2. Once it has been accepted, it is the activity schedule for the contract, and the Price for Work Done to Date is assessed on the activities in it (clause 11.2(29)).

A reason for not accepting the detailed activity schedule is that it does not comply with this C2.2 or the Pricing Instructions in C2.1, that it does not represent the work shown on the programme, or that its Prices are not reasonably distributed between the activities (front-loaded).

All Prices in Rand, excluding VAT. The activity description states the condition for completion of the activity.

Ref.	Activity	Description (completion condition)	Price (R excl. VAT)
1 General and management			
1.1	Site establishment	Site facilities, offices, laydown and security established, and health and safety file accepted	
1.2	Project management, site supervision and HSE management – February 2027	Management, supervision and health, safety and environmental management for the month, as programmed	
1.3	As 1.2 – March 2027	As above	
1.4	As 1.2 – April 2027	As above	
1.5	As 1.2 – May 2027	As above	
1.6	Site de-establishment	Site cleared and reinstated, and facilities removed	
1.7	Contract Communication System – set-up and subscription to Completion	System configured, users trained and the system accepted by the <i>Project Manager</i> as operational; subscription and user licences paid from the Contract Date to Completion (Scope 8.3 and 8.4)	
1.8	Contract Communication System – subscription from Completion to the Defects Certificate	Subscription and user licences paid for the period from Completion to the issue of the Defects Certificate, and proof provided to the <i>Project Manager</i> (Scope 8.4)	
1.9	Contract Communication System – records export	Complete export of all communications and records delivered to and accepted by the <i>Client</i> (Scope 8.5)	
2 Design			
2.1	Lighting design	Photometric design accepted by the <i>Project Manager</i>	
2.2	Structural design of new masts and mast heads to be installed onto the existing holding down bolts and foundations.	Structural design of the new masts, signed by the responsible structural engineer, accepted	
2.3	Structural design of new masts, mast heads and foundations should this be required to achieve the photometric design.	Structural design of the new masts, mast heads and foundations, signed by the responsible structural engineer, accepted	

Ref.	Activity	Description (completion condition)	Price (R excl. VAT)
2.3	Electrical and control design	Electrical and control design accepted and BCMM approvals obtained	
3 Supply of Plant and Materials			
3.1	Luminaires – factory acceptance	Luminaires manufactured and factory acceptance tests passed	
3.2	Luminaires, drivers and brackets – delivery	Delivered to Site and inspected	
3.3	Control panel and control equipment – delivery	Delivered to Site and inspected	
3.4	Main LV distribution board, mast distribution boards and cabling – delivery	Delivered to Site and inspected	
3.5	New hot-dip galvanised steel masts and mast heads – delivery	Four masts and mast heads fabricated, galvanised, inspected and delivered to Site	
3.6	Allowance for FAT acceptance test witness – 3 PAX from Project Professional Team	Visit to factory to witness factory acceptance test by three (3) representatives from the Professional Services Project Team	
4 Demolition, foundations and masts			
4.1	Strip existing equipment	Existing HID luminaires, gear plates, internal mast cabling and mast distribution boards stripped and removed	
4.2	Dismantle existing masts	Existing CORTEN steel masts dismantled and removed from Site without damage to the foundation plinths and hold-down bolts	
4.3	Remove existing Main LV distribution board	Made safe and removed	
4.4	Assessment of visible foundation and holding-down bolts	Each foundation plinth and hold-down bolt assembly inspected and the report accepted (Z16)	
4.5	Replacement of hold-down bolts, levelling and fixing nuts and washers (all masts)	Replaced and inspected. This activity is omitted if the <i>Project Manager</i> accepts the existing bolts (C2.1 item 10)	
4.6	Mast 1 – erected	New mast erected on the existing foundation, levelled and fixed	
4.7	Mast 2 – erected	As above	
4.8	Mast 3 – erected	As above	
4.9	Mast 4 – erected	As above	
4.10	Earthing and lightning protection	New earthing and lightning protection installed and tested at each mast to SANS requirements	
4.11	Aviation obstruction lighting	Aviation obstruction lights installed and tested on each mast in accordance with the South African Civil Aviation Regulations	
4.12	Disposal	All demolished materials disposed of, with proof of responsible disposal	
5 Installation			
5.1	Mast 1 – luminaires and drivers installed and aimed	Installed, wired and aimed	
5.2	Mast 2 – luminaires and drivers installed and aimed	Installed, wired and aimed	
5.3	Mast 3 – luminaires and drivers installed and aimed	Installed, wired and aimed	
5.4	Mast 4 – luminaires and drivers installed and aimed	Installed, wired and aimed	
5.5	Mast distribution boards	Four 3CR12 stainless steel mast distribution boards (textured powder-coated electric orange) installed	

Ref.	Activity	Description (completion condition)	Price (R excl. VAT)
5.6	Internal mast wiring	New internal mast wiring from each mast distribution board to the luminaires installed	
5.7	Main LV distribution board	New Main LV distribution board installed in the LV room and connected – manufactured from 3CR12 stainless steel and textured powder coated electric orange	
5.8	Testing of existing feeder cables	Existing power and control cables tested, the written report submitted, and any cable not fit for re-use repaired or replaced (<i>Contractor's risk</i> , C2.1 item 11)	
5.9	Control panel	Control panel installed and configured for four lighting levels in 25% increments	
6 Testing and commissioning			
6.1	Electrical testing and certificates of compliance	Tests completed and certificates of compliance issued	
6.2	Commissioning and site acceptance tests	Installation commissioned, all lighting levels demonstrated and SAT documentation submitted	
6.3	Independent photometric verification	Independent measurement report confirming compliance with Table 1 of the Scope accepted	
7 Completion and handover			
7.1	As-built documentation	As-built drawings, aiming records, O&M manuals and equipment register delivered and accepted	
7.2	Training	Training of Border Cricket facilities management staff and BCMM personnel completed	
7.3	Spares	Spares delivered and recorded	
7.4	Warranties	Product warranty and 10-year performance-based warranty issued in favour of the <i>Client</i> , cessible to BCMM	
8 Additional activities (tenderer to list)			
8.1			
8.2			
8.3			
Tendered total of the Prices, excluding VAT (carried to the Form of Offer)			R

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

C2.3 SCHEDULE OF PEOPLE RATES AND EQUIPMENT RATES (SHORT SCHEDULE OF COST COMPONENTS)

This schedule is a returnable document, submitted in Envelope 2. It provides the data for the Short Schedule of Cost Components of the NEC4 ECC (Option A), which is used to assess compensation events. All rates are in Rand, excluding VAT. A tender that does not complete this schedule may be held to be non-responsive (Clause C.3.8.2).

1. People rates

The *people rates* include all the components of the cost of people listed in the Short Schedule of Cost Components, including wages, allowances, statutory contributions, leave and overheads of employment. The rates apply to people working within the Working Areas.

Category of person	Unit	Rate (R, excl. VAT): normal time	Rate (R, excl. VAT): overtime
Project manager	hour		
Electrical engineer	hour		
Lighting designer	hour		
Structural engineer	hour		
Site manager / construction manager	hour		
Construction health and safety officer	hour		
Electrician (registered person)	hour		
Electrician / artisan	hour		
Rigger / high-mast technician	hour		
Crane operator	hour		
General worker	hour		
Other (tenderer to state)	hour		

2. Equipment

The published list of Equipment is the edition current at the Contract Date of the list published by	Not Applicable
The percentage for adjustment for Equipment in the published list is (plus or minus)	Not Applicable

The rates for other Equipment are:

Equipment	Size or capacity	Unit	Rate (R, excl. VAT)
Mobile crane	[] t	hour	

Equipment	Size or capacity	Unit	Rate (R, excl. VAT)
Mobile crane	[__ t]	hour	
Mobile elevating work platform	[__ m working height]	day	
Truck-mounted crane	[__ t]	hour	
Telehandler	[__ t]	day	
Generator	[__ kVA]	day	
Light meter and lighting measurement equipment (calibrated)		day	
Light delivery vehicle		km	
Other (tenderer to state)			

3. Manufacture and fabrication outside the Working Areas

Category of person	Rate (R per hour, excl. VAT)
Fabricator / welder	
Technician	
Other (tenderer to state)	

4. Design outside the Working Areas

Category of person	Rate (R per hour, excl. VAT)
Electrical engineer	
Lighting designer	
Structural engineer	
Draughtsperson	

The categories of design people whose travelling expenses to and from the Working Areas are included in Defined Cost are	
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SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

C2.4 MAINTENANCE PRICE LIST (NEC4 TERM SERVICE SHORT CONTRACT)

All prices in Rand, excluding VAT, at the base date of the tender (adjusted annually as stated in Annexure J).

The service is described in Annexure J.

Item	Description	Detail	Unit	Price (R excl. VAT)
1	Planned maintenance service – Year 1	Planned preventive maintenance, inspections, annual photometric verification, reporting and attendance to faults, as described in Annexure J, for service year 1	Lump sum per year (paid quarterly in arrears)	
2	Planned maintenance service – Year 2	Planned preventive maintenance, inspections, annual photometric verification, reporting and attendance to faults, as described in Annexure J, for service year 2	Lump sum per year (paid quarterly in arrears)	
3	Planned maintenance service – Year 3	Planned preventive maintenance, inspections, annual photometric verification, reporting and attendance to faults, as described in Annexure J, for service year 3	Lump sum per year (paid quarterly in arrears)	
4	Planned maintenance service – Year 4	Planned preventive maintenance, inspections, annual photometric verification, reporting and attendance to faults, as described in Annexure J, for service year 4	Lump sum per year (paid quarterly in arrears)	
5	Planned maintenance service – Year 5	Planned preventive maintenance, inspections, annual photometric verification, reporting and attendance to faults, as described in Annexure J, for service year 5	Lump sum per year (paid quarterly in arrears)	
6	Planned maintenance service – Year 6	Planned preventive maintenance, inspections, annual photometric verification, reporting and attendance to faults, as described in Annexure J, for service year 6	Lump sum per year (paid quarterly in arrears)	
7	Planned maintenance service – Year 7	Planned preventive maintenance, inspections, annual photometric verification, reporting and attendance to faults, as described in Annexure J, for service year 7	Lump sum per year (paid quarterly in arrears)	
8	Planned maintenance service – Year 8	Planned preventive maintenance, inspections, annual photometric verification, reporting and attendance to faults, as described in Annexure J, for service year 8	Lump sum per year (paid quarterly in arrears)	
9	Planned maintenance service – Year 9	Planned preventive maintenance, inspections, annual photometric verification, reporting and attendance to faults, as described in Annexure J, for service year 9	Lump sum per year (paid quarterly in arrears)	
10	Planned maintenance service – Year 10	Planned preventive maintenance, inspections, annual photometric verification, reporting and attendance to faults, as described in Annexure J, for service year 10	Lump sum per year (paid quarterly in arrears)	
Total of the Prices for maintenance for 10 years, excluding VAT (carried to the Form of Offer)				R

Rates for work outside the planned service (for example, repairs of damage caused by Others), which are not part of the evaluated total:

Item	Unit	Rate (R excl. VAT)
Technician (electrical), normal time	hour	
Technician (electrical), overtime and Match Days	hour	
Rigger / high-mast technician	hour	
Mobile elevating work platform or crane, including operator	day	

Item	Unit	Rate (R excl. VAT)
Travelling (where the technician is based outside Buffalo City)	km	SARS Travel Rate at the time of travel
Mark-up on parts not covered by the warranties	The Fee %	The Fee %

SIGNED BY/ON BEHALF OF TENDERER:

NAME	SIGNATURE	DATE

PART C3: SCOPE OF WORK

Number	Heading
C3.1	Scope provided by the <i>Client</i>
Annexures A to G	Issued with this request for proposals, inserted after Part C4, and forming part of the Scope
Annexure H	Local Participation Guidelines and Targets
Annexure I	Completion Requirements
Annexure J	Maintenance Contract (NEC4 Term Service Short Contract): Key Contract Data and Service Scope
Annexure K	Pro forma Performance Bond (Option X13)

C3.1 SCOPE PROVIDED BY THE CLIENT

1 Description of the works

- 1.1 **Overview.** The Border Cricket Grounds (Buffalo Park Stadium), Portion of Erf 16226, 1 Buffalo Park Drive, Acadia, KuGompo City, is owned by Buffalo City Metropolitan Municipality (BCMM) and occupied by Border Cricket as lessee and end user. It is a host venue for the ICC Men's Cricket World Cup 2027. The existing floodlighting comprises steel masts and mast heads with HID luminaires. A structural assessment by a registered structural engineer has condemned the existing masts and mast heads, and the cost of maintaining the HID system and the difficulty of sourcing HID components require the complete replacement of the system.
- 1.2 **Client's objectives.** The objectives are: new masts and a high-performance LED floodlighting system that meets Table 1 of this Scope; reduced energy consumption, as far as practicable; a design life of the installation of twenty-five (25) years or more; a durable asset that Border Cricket and BCMM can operate, supported by ten years of maintenance; support for the transformation and local economic development objectives of CSA and BCMM; and Completion by the Completion Date with the least disruption to stadium operations.
- 1.3 **Extent of the works.** The works comprise:
- Demolition and removal:** strip and remove all existing floodlights, 2 kW gear plates, internal mast cabling and mast distribution boards; dismantle and remove from the Site all existing steel masts and mast heads, taking care not to damage the existing foundation plinths or hold-down bolts, which will be assessed for re-use after the masts are removed; make safe and remove the existing Main LV distribution board; and dispose of all demolished materials responsibly and in accordance with the applicable environmental legislation, with proof of disposal submitted to the *Project Manager* on completion of demolition;
 - New masts and structural works:** design, supply and install four new hot-dip galvanised steel floodlight masts and mast heads which are to be installed on the existing foundations (subject to additional condition of contract Z16). The masts must be designed to have less wind areas and moment areas than the existing masts to ensure that forces transferred to

the existing foundations and holding down bolts do not exceed the current capacity of the foundations and holding down bolts. The masts and base plates must be designed to suit the existing hold-down bolt layout at each mast; the *Contractor* verifies the dimensions. Supply new galvanised levelling and fixing nuts and washers for each mast, and replace the hold-down bolts where required (activity 4.5). If additional masts are required to achieve the lighting requirements (over and above four), new foundations and masts must be designed supplied and installed considering all site conditions and operational requirements. All structural designs must be prepared and signed off by the *Contractor*' responsible structural engineer (ECSA Pr Eng or Pr Tech Eng). All structural designs of masts, mast heads and associated foundations must be designed using SANS 10160, SANS 10162, SANS 10100, SANS 10225 and AASHTO 2015 (Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 6th ed., American Association of State Highway and Transportation Officials Washington, D.C.);

- (c) **Electrical works:** supply and install new LED luminaires and drivers to meet the design requirements; supply and install a new Main LV distribution board in the LV room made of 3CR12 stainless steel with a textured powder-coated electric orange finish; supply and install mast distribution boards made of 3CR12 stainless steel with a textured powder-coated electric orange finish, complete with harmonic filtering, if required; supply and install new internal mast wiring between each mast distribution board and the luminaires; test the existing power and control cables feeding the masts and report the results to the *Project Manager* in writing before re-using them. The cables are currently operational at a higher load; the repair or replacement of any cable that is not fit for re-use is at the *Contractor*'s risk (C2.1 item 11); and supply and install new earthing and lightning protection at each mast in accordance with the applicable SANS standards;
- (d) **Control:** supply and install one control panel which allows the lighting to be operated at four lighting levels in 25% increments;
- (e) **Aviation obstruction lighting** on each mast, in accordance with ICAO Annex 14 and the South African Civil Aviation Regulations;
- (f) **Commissioning, handover and completion:** commissioning, including detailed harmonic recordings at each mast distribution board and Main LV distribution board, full thermal scanning and report of all distribution boards after installation at full loading, full photometric measurement, factory acceptance tests (FAT) and site acceptance tests (SAT) with their documentation, independent verification, full as-built drawings, O&M manuals and an equipment register, training of Border Cricket facilities management staff and BCMM personnel in the operation and routine maintenance of the system, spares, and the warranties in section 9; and
- (g) **Maintenance:** the maintenance of the installation for ten years after Completion is provided under the Maintenance Contract (Z15 and Annexure J) and is not part of the works.

- 1.4 **Total installed power.** The total installed power and connected load of the lighting system are stated in the tender (Schedules B16 and B17). The installed connected load must not exceed the stated value by more than 5%.
- 1.5 **Work by Others.** The following are not part of the works: any upgrade of the BCMM electricity supply beyond the LV room; broadcast cabling and camera infrastructure; and the stadium standby generator. The *Contractor* provides BCMM with the information it needs for any supply upgrade.

2 Lighting performance requirements

- 2.1 The installation must achieve at least the following maintained values.

Table 1: Minimum lighting performance

Class	Camera	VERTICAL ILLUMINANCE			HORIZONTAL ILLUMINANCE			LAMP PROPERTIES		GLARE
		Ev cam Ave. (lux)	U1	U2	Eh Ave. (lux)	U1	U2	Colour Temp (Tk)	CRI (Ra)	UGR
WICKET AREA	Fixed Camera	2,000	0.5	0.6	2,500	0.7	0.8	5,700 K	80	≤30
INFIELD	Fixed Camera	1,500	0.4	0.5	2,500	0.7	0.8	5,700 K	80	≤35
OUTFIELD	Fixed Camera	1,000	0.35	0.4	1,000	0.7	0.8	5,700 K	80	≤30

- 2.2 The following also apply:
- (a) the illuminance values are calculated, and the commissioned light levels must be achieved, at a maintenance factor (MF) of 0.8 (worst case – no derating is permitted);
 - (b) the design must limit spill light as follows. Vertical spill, measured at 1.5 m above ground with contours at 200, 150, 100, 50, 25, 10 and 5 lux on a 10 m × 10 m grid, must not exceed 200 lux at 50 m from the stadium boundary. Horizontal spill, measured at ground level with the same contours and grid, must not exceed 50 lux at 50 m from the boundary;
 - (c) the luminaires are flicker-free for 4K and high-speed (slow-motion) television broadcast;
 - (d) the design is site-specific; a generic design will not be accepted;
 - (e) the energy consumption of the system is reduced as far as practicable; and

- (f) the design life of the installation, including the masts, is at least twenty-five (25) years.

2.3 **Photometric design deliverables.** The photometric design includes separate calculation pages for each of the following:

- (a) **Wicket area – 3 m × 3 m calculation grid:** Eh (horizontal illuminance); EvN, EvE, EvS and EvW (vertical illuminance towards the north, east, south and west cameras). All camera mounting heights are taken as 1.2 m above ground level, 2 m behind the boundary line;
- (b) **Infield – 5 m × 5 m calculation grid:** Eh, EvN, EvE, EvS and EvW (5 pages);
- (c) **Outfield – 10 m × 10 m calculation grid:** Eh, EvN, EvE, EvS and EvW (5 pages);
- (d) **Additional pages:** a summary page clearly showing every design metric in Table 1; an aiming diagram showing all luminaires and aiming lines; and the vertical and horizontal spill-light contour plots.

The initial illuminance is calculated at a maintenance factor of 0.8. Non-compliance with this section results in a zero score for the lighting design criterion in Stage 2.4 of the evaluation.

3 The Contractor's design

- 3.1 The *Contractor* designs the works. The photometric design is prepared or verified by the *Contractor's* responsible electrical engineer (ECSA Pr Eng or Pr Tech Eng, electrical). All structural designs, including the design of the new masts, mast heads and foundations and the assessment of the foundations, are prepared and signed off by the *Contractor's* responsible structural engineer (ECSA Pr Eng or Pr Tech Eng, structural). The responsible engineers are those nominated in the tender (Clause C.2.1.1K of the Tender Data) and included as Key Persons.
- 3.2 The design complies with the following, as applicable: Table 1 and section 2 of this Scope; the CSA Broadcast Lighting Standards; EN 12193 Light and lighting – Sports lighting; SANS 10114 (interior and sports lighting, as applicable); SANS 10142-1 (wiring of premises); SANS/IEC 60598-1 and 60598-2-5 (luminaires); SANS 10160 (basis of structural design and actions); SANS 10162 (structural steel); SANS 10225 (The design and construction of lighting poles); AASHTO LTS 2015 (Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 6th ed., American Association of State Highway and Transportation Officials Washington, D.C.); SANS 10313 / IEC 62305 (lightning protection); SANS 10400 (National Building Regulations); ICAO Annex 14 and the South African Civil Aviation Regulations (obstruction lighting); the Occupational Health and Safety Act 85 of 1993 and its regulations; the Electrical Installation Regulations, 2009; and the BCMM electrical standards (Annexure F).
- 3.3 The *Contractor* submits its design to the *Project Manager* for acceptance in two stages: a preliminary design within [2] weeks after the Contract Date, and the complete design by key date 1. The design submission includes the documents listed in Schedule B16, updated, the structural design of the new masts and the accepted foundation report for each mast (Z16.4). A reason for not accepting the design is that it does not comply with the Scope or the applicable law, or that it has not been approved by BCMM where BCMM's approval is required.

- 3.4 The *Contractor* obtains BCMM's building plan approval for any structural work and BCMM's approval of the electrical design, and gives any notices required to the South African Civil Aviation Authority.

4 Procurement

- 4.1 Unless the *Contractor* is itself the OEM or the OEM is a member of the joint venture that is the *Contractor*, the OEM named in the tender (Schedule B5) is a key Subcontractor (Z2), and the OEM key subcontract is subject to Z13. The *Contractor* does not change the OEM or the luminaire model offered without the *Project Manager's* acceptance.
- 4.2 The *Contractor* arranges factory acceptance tests of the luminaires and drivers and gives the *Supervisor* two weeks' notice so that the *Supervisor* may witness them, in person or remotely. The *Contractor* provides the factory test reports before shipping.
- 4.3 The *Contractor* marks Plant and Materials outside the Site as for the contract and provides the proof of title required by Z8.
- 4.4 The *Contractor* implements the *Contractor's* Participation Plan (Z5), meets the local labour and local procurement targets, and follows the recruitment process in Annexure H (Local Participation Guidelines and Targets), and reports on them monthly.

5 Construction

- 5.1 **Working hours and Match Days.** Normal working hours are 07h00 to 18h00, Monday to Friday, except Public Holidays. Work at other times requires the *Project Manager's* acceptance. No work is done on the Site on a Match Day or within 24 hours before a Match Day, unless the *Project Manager* instructs otherwise. The *Project Manager* provides the fixtures list for the Border Cricket Grounds and notifies changes.
- 5.2 **Existing lighting.** The existing floodlights may be taken out of service from after *access date 2*, subject to the fixtures list. Any part of the existing lighting required for a match before that date is kept in service.
- 5.3 **Protection of the stadium.** The *Contractor* protects the playing surface, outfield, pitch, seating, buildings and services. No vehicles or cranes are used on the playing surface or outfield except on ground protection accepted by the *Project Manager*. The *Contractor* repairs any damage at its own cost.
- 5.4 **Access, security and laydown.** Access is through the main stadium gate. The *Contractor* uses only the laydown and storage areas shown on [drawing] and provides its own security for them. The *Contractor* complies with the stadium's access control and safety rules.
- 5.5 **Working at height and lifting.** The *Contractor* prepares and implements a fall protection plan and lifting plans, accepted by its construction health and safety officer, before any work at height or lifting. Cranes and access equipment are certified and operated by competent persons.
- 5.6 **Environment and waste.** The *Contractor* removes and disposes of the existing luminaires, lamps (including lamps containing mercury) and control gear in accordance with the National

Environmental Management: Waste Act 59 of 2008, and provides waste disposal certificates. Salvageable equipment disposed of by the *Contractor*.

6 Tests and inspections

- 6.1 The *Contractor* carries out the following tests, gives the *Supervisor* at least seven days' notice, and submits the results within five days:
- (a) factory acceptance tests (FAT) of luminaires and drivers (4.2), and site acceptance tests (SAT), with the FAT and SAT documentation submitted;
 - (b) electrical tests in accordance with SANS 10142-1, and the issue of certificates of compliance by the registered person;
 - (c) functional tests of the control panel at each of the four lighting levels;
 - (d) full photometric measurement of the lighting on the grids in section 2.3, at night, after burn-in and aiming, using calibrated instruments, by an independent lighting measurement specialist appointed by the *Contractor* and accepted by the *Project Manager*; and
 - (e) a broadcast camera test with the host broadcaster, if made available by the *Client*.
- 6.2 The lighting test is passed when every value in Table 1 is achieved at a maintenance factor of 0.8. The *Contractor* re-aims, adjusts or adds to the installation until the test is passed. If the test is not passed by the Completion Date, Option X7 applies,

7 Completion

- 7.1 Completion under Clause 11.2(2) is reached when those items listed in Annexure I (Completion Requirements), are met and that:
- (a) the works are installed, commissioned and passed all the tests in section 6;
 - (b) certificates of compliance for the electrical installation have been issued;
 - (c) full as-built drawings, aiming records, calculation files, O&M manuals and the equipment register have been delivered;
 - (d) the spares (at least 10% of luminaires and drivers, and the recommended spares for the control panel) have been delivered to the store at the stadium nominated by Border Cricket;
 - (e) training of at least four Border Cricket facilities management staff and BCMM personnel in the operation and routine maintenance of the system has been completed;
 - (f) the warranties required by section 9 have been issued in favour of the *Client*, cessible to BCMM; and
 - (g) all documentation, including the test certificates, has been submitted and the system is 100% operational.

8 Management of the works

- 8.1 The *Contractor* attends progress meetings every two weeks and early warning meetings as stated in the Contract Data.

- 8.2 The *Contractor* submits a monthly report to the *Project Manager* by the 5th day of each month, covering progress against the Accepted Programme, design and procurement status, health and safety statistics, the Participation Plan, risks and early warnings, and the information the *Client* needs for its monthly report to BCMM (Z11.2).
- 8.3 **Communication system (clauses 13.1 and 13.2).** The communication system for this contract is the NEC4 contract management system called **Contractly**. Every communication which the contract requires (including instructions, notifications, early warnings, submissions, acceptances, compensation events, programmes, payment applications and certificates) is made through Contractly, and takes effect when it is communicated through Contractly (clause 13.2). Communications are made in a form which can be read, copied and recorded, in English (clause 13.1).
- 8.4 **Provision of Contractly.** The *Contractor* provides, sets up and pays for the Contractly subscription and user licences for this contract from the Contract Date until the Defects Certificate is issued, including user access for the *Client* (at least three users), the *Project Manager*, the *Supervisor* and the *Supervisor's* delegates, and one observer user for BCMM. The *Contractor* configures the system for this contract, with the *Project Manager's* acceptance, within two weeks of the Contract Date and trains the users. Until Contractly is operational, communications are made by e-mail to the addresses communicated to the *Contractor*.
- 8.5 **Records.** All data and records in Contractly belong to the *Client*. Before the subscription ends, the *Contractor* gives the *Client* a complete export of all communications and records in a readable, searchable format accepted by the *Project Manager*. Contractly is not used for, and is not priced in, the Maintenance Contract (Z15); communications under the Maintenance Contract are made as stated in Annexure J.
- 8.6 The *Project Manager* and the *Supervisor* is Mr Ebrahim Abrahams of Triocon. The *Supervisor* will delegate inspection and testing actions for the lighting and electrical elements, and for the structural elements, to the delegates notified to the *Contractor* under clause 14.2. The *Contractor* gives notices of tests and inspections to the *Supervisor* and to the relevant delegate.

9 Warranties and post-Completion support

- 9.1 **Product warranty.** The *Contractor* provides a product warranty covering all equipment, including the masts, the LED luminaires and drivers, the distribution boards and the control panel, for at least ten (10) years from Completion of the whole of the works and, for the masts and their corrosion protection, at least 25 years.
- 9.2 **Performance-based warranty.** The *Contractor* provides a performance-based warranty guaranteeing the design light levels in Table 1 for a minimum of ten (10) years from Completion of the whole of the works. It includes all parts and labour needed to maintain the design lux levels throughout the warranty period.
- 9.3 **Warranty documents.** A copy of the warranty documents was attached to the tender (Stage 1 requirement M8). The final warranty documents, in the same terms, are issued before Completion in favour of the *Client* and are cessible to BCMM and to Border Cricket as lessee. Where the

OEM is a key Subcontractor, the OEM's obligations are also secured by the OEM Guarantee and Undertaking (C1.3).

- 9.4 **Spares.** The *Contractor* and the OEM ensure that spare parts are available for at least ten years after Completion.
- 9.5 **Relationship with the Maintenance Contract.** The warranties are not reduced or replaced by the Maintenance Contract (Z15). Work needed to meet a warranty obligation is done at the *Contractor's* cost and is not paid for under the Maintenance Contract.
- 9.6 Until the defects date, the *Contractor* provides remote technical support on Match Days and attends Critical Defects within the times stated in Z6.

10 Health and safety

- 10.1 The *Contractor* complies with the *Client's* Health and Safety Specification (Annexure B) and the Construction Regulations, 2014. The *Contractor* provides the information the *Client* needs to apply for a construction work permit, and does not start construction work until the permit has been issued.

11 Undertakings and transfer of rights (Options X8 and X9)

- 11.1 The form of the Subcontractor undertaking to the *Client* required by Option X8 is the OEM Guarantee and Undertaking in C1.3. The form of the undertakings to Others and the Subcontractor undertaking to Others (BCMM) is the same form, with BCMM named as beneficiary. The *Contractor* arranges for the OEM to sign and deliver these undertakings within 14 days of the Contract Date (clause X8.5 and Z13.3).
- 11.2 For Option X9, the *Client* owns the *Contractor's* rights over material prepared for the design of the works, and the *Contractor* obtains equivalent rights from the OEM and every other Subcontractor that prepares design material. In addition, the *Contractor* obtains the following other rights for the *Client*: (1) the benefit of all warranties, guarantees and undertakings given by the OEM and other Subcontractors for the works; (2) the transfer to the *Client* of the *Contractor's* rights against the OEM under the OEM key subcontract, as stated in Z13.4; and (3) the right of the *Client* to cede each of these rights to BCMM.
- 11.3 The form of the performance bond required by Option X13 is the pro forma in Annexure K of this Scope. The bond is issued by a bank registered in terms of the Banks Act 94 of 1990 and accepted by the *Project Manager*.
- 11.4 Where the OEM is the *Contractor* or a member of the joint venture that is the *Contractor* (no OEM key Subcontractor), clauses 11.1 and 11.2(2) do not apply, and the *Contractor* gives the warranty, light output, repair, spares and support obligations stated in C1.3 and section 9 of this Scope directly to the *Client*, cessible to BCMM (additional condition Z13.7).

12 Invoicing

- 12.1 Each invoice is a valid tax invoice addressed to Cricket South Africa NPC, VAT registration number, stating the contract number, the *Project Manager's* payment certificate number and the amount certified.

13 Other Constraints

- 13.1 **Foundations, ground conditions and services.** The condition of the existing foundation plinths and hold-down bolt assemblies at each of the four mast positions is unknown. No intrusive investigation of the foundations has been carried out. The risk of the foundation conditions is allocated in additional condition of contract Z16. The existing power and control cables feeding the masts may be re-used, subject to testing. Information on ground conditions and buried services around the mast bases, where available, is in Annexure E. The *Contractor* locates and protects existing services before excavating.
- 13.2 **Environmental.** The site is in an urban area with residential properties nearby. Noise and light during night-time testing must be managed so as to limit the effect on neighbours.
- 13.3 **Broadcast camera positions.** The fixed broadcast camera positions are 1.2m above ground level, 2m behind the boundary line on the North, South East and West axis of the stadium
- 13.4 **Existing floodlighting.** Four steel floodlight masts of [44.5m] carrying [80] HID luminaires with 2 kW gear plates, internal mast cabling and mast distribution boards, fed from a Main LV distribution board in the LV room. A structural assessment by a registered structural engineer has condemned the existing masts. The structural engineer's report is in Annexure C and is available for inspection at the compulsory site inspection and on request from the Supply Chain Manager.
- 13.5 **Electrical supply.** The stadium is supplied by BCMM and the *Contractor* is responsible for any connections from existing DB Boards and if any upgrades are required for the new lighting installation
- 13.6 **Existing floodlighting.** Four steel floodlight masts of [44.5m] carrying [80] HID luminaires with 2 kW gear plates, internal mast cabling and mast distribution boards, fed from a Main LV distribution board in the LV room. A structural assessment by a registered structural engineer has condemned the existing masts. The structural engineer's report is in Annexure C and is available for inspection at the compulsory site inspection and on request from the Supply Chain Manager.
- 13.7 **Stadium operations.** The stadium is used for domestic and international cricket and other events. The fixtures list for the period of the works will be provided by the *Project Manager*. Border Cricket, a CSA-affiliated provincial union, occupies the stadium as lessee under a lease with BCMM. Border Cricket is the end user of the installation.
- 13.8 **Access and facilities.** Vehicle access is from the Main Gate. Construction water and power are not available. Ablution facilities: [to be provided by the *Contractor*].
- 13.9 **Weather and Wind Data.** The *Contractor* is responsible for obtaining any further weather information it needs, including wind data for the design of the masts in accordance with SANS 10160-3

13.10 Planned Events at the Stadium.

Year Planner																																SAT SUN	SAT SUN	SAT SUN	SAT SUN	SAT
																																SAT SUN	SAT SUN	SAT SUN	SAT SUN	SAT SUN
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
JAN																																				
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C3 ANNEXURE H: LOCAL PARTICIPATION GUIDELINES AND TARGETS

This Annexure forms part of the Scope. It sets out the process for the employment of local labour and the engagement of local subcontractors and suppliers for the works, and the targets which the *Contractor* must meet, so that the community of Buffalo City shares in the socio-economic benefit of the works. It is cross-referenced from additional conditions of contract Z5 and Z14, Schedules B5 and B20, and section 4.4 of the Scope.

This Annexure applies in addition to, and does not replace, the *Contractor's* obligations under the Broad-Based Black Economic Empowerment Act 53 of 2003, the Basic Conditions of Employment Act 75 of 1997 and other applicable law. Where this Annexure and any such law deal with the same subject, the *Contractor* complies with whichever is the more onerous.

H.1 Definitions

Term	Definition
Local area	The area of jurisdiction of the Buffalo City Metropolitan Municipality (BCMM).
Local labour	A person employed on the works by the <i>Contractor</i> or a Subcontractor of any tier who is a South African citizen or permanent resident and who has resided in the local area for a continuous period of at least 12 months before being employed, as shown by proof of residence (a municipal account, lease, or a letter from the ward councillor).
Local Enterprise (Tier 1)	A subcontractor or supplier of any tier which is registered on the CSD with its principal place of business in the local area, which has operated from the local area for at least 12 months before the Contract Date, and which performs the work or supplies the goods with its own resources.
Eastern Cape Enterprise (Tier 2)	A subcontractor or supplier of any tier registered on the CSD with its principal place of business in the Eastern Cape, outside the local area.
EME and QSE	Exempted Micro Enterprise and Qualifying Small Enterprise, as defined in the Codes of Good Practice issued under the Broad-Based Black Economic Empowerment Act 53 of 2003.
Local Procurement Spend	The amounts paid by the <i>Contractor</i> to Local Enterprises (Tier 1) for work done, services rendered and goods supplied for the works, excluding amounts paid for goods which a Local Enterprise merely resells without adding value (pass-through), as shown by proof of payment.
Local Procurement Base	The total of the Prices (excluding VAT) less (1) the Prices for design (activities 2.1 to 2.3 of the Activity Schedule in C2.2) and (2) the Prices for the luminaires, drivers, brackets and control system equipment supplied by the OEM (activities 3.1 to 3.3), as those Prices are changed in accordance with the contract. The <i>Contractor</i> states the Local Procurement Base, in Rand, in the Participation Plan submitted for acceptance with the first programme.
Unskilled, semi-skilled and skilled	Unskilled: general workers with no formal trade qualification. Semi-skilled: workers with some training or experience, such as assistants, drivers, operators and helpers. Skilled: artisans, technicians, riggers, supervisors and professionals.

H.2 Targets

The *Contractor* meets the following minimum targets, measured as stated in H.5:

Key performance indicator	Beneficiaries	Minimum target	Measurement
Local labour – unskilled	Local labour	100%	% of person-days worked on Site by unskilled workers
Local labour – semi-skilled	Local labour	100%	% of person-days worked on Site by semi-skilled workers
Local labour – skilled	Local labour	As stated in the Participation Plan	% of person-days worked on Site by skilled workers

Key performance indicator	Beneficiaries	Minimum target	Measurement
Local procurement (subcontracting and supply)	Local Enterprises (Tier 1), with preference to EMEs and QSEs	30% of the Local Procurement Base (the total of the Prices less design and OEM costs)	Local Procurement Spend as a Rand value and as a % of the Price for Work Done to Date for the activities in the Local Procurement Base, cumulatively
Skills development	Local labour	As stated in the Participation Plan	Persons trained, courses and Rand value, with attendance registers
Youth, women and persons with disabilities	Local labour and Local Enterprises	As stated in the Participation Plan	Person-days worked by, and Local Procurement Spend with enterprises owned by, youth (aged 18 to 35), women and persons with disabilities, reported separately

The design and the OEM-supplied luminaires, drivers, brackets and control system equipment are excluded from the Local Procurement Base because they are specialist and, in the case of the OEM equipment, likely to be imported. All other work, including electrical distribution equipment and cabling, structural works, removal of the existing floodlights, installation, crane and access equipment, testing, site establishment and services, falls within the Local Procurement Base.

Where the OEM's commissioning engineers, specialist riggers or other specialists are not available in the local area, the *Contractor* may employ them from outside the local area if the Participation Plan accepted by the *Project Manager* states this. This does not reduce the targets for unskilled and semi-skilled labour.

H.3 Recruitment of local labour

No.	Requirement
1	Employment opportunities are advertised widely in the local area, including through the ward councillor and ward committee of the ward in which the Site is situated and the adjacent wards, BCMM's community liaison structures (as directed by the <i>Project Manager</i>), and public platforms.
2	Each advertisement states: (1) the job title; (2) the job specification; (3) the location; (4) the duration of the contract; (5) the start and end dates; (6) the minimum skills and qualifications; (7) the closing date; and (8) the contact person.
3	Advertisements are issued on the letterhead of the employing <i>Contractor</i> or Subcontractor, to avoid confusion in the community. Employment contracts comply with the Basic Conditions of Employment Act 75 of 1997 and the applicable sectoral determination or bargaining council agreement.
4	Selection is fair, open and transparent and is recorded. Recruitment on the Site or at the stadium gates is not permitted.
5	Opportunities for Local Enterprises are published as an expression of interest or request for quotations, with a clear process and the compliance requirements, and are awarded on the ability to meet the requirements of the work package. Sole-source appointments require a written motivation, which the <i>Project Manager</i> may reject if the opportunity is socially material.

H.4 Contents of the Participation Plan

The Participation Plan (Schedule B20, updated and submitted for acceptance with the first programme) includes at least:

- Recruitment plan:** how employment opportunities will be communicated, and how people will be interviewed and selected, to meet the targets in H.2;
- Manpower plan:** for each position, the level (unskilled, semi-skilled or skilled), the start date and term, whether the position is reserved for local labour, and the number of local positions committed per level, with an organogram;

- (c) **Skills development plan:** the training interventions, number of local trainees, duration, dates, accreditation (if any), the training provider and the value;
- (d) **Local procurement plan:** each work package, service or supply to be procured from Local Enterprises, the planned procurement date, the type (supply, contract or subcontract), the procurement process (open, closed or request for quotations), whether it is reserved for Local Enterprises and for EMEs or QSEs, and the Rand value and percentage of the total of the Prices; and
- (e) **Monthly profile:** the cumulative Local Procurement Spend and local labour person-days planned for each month to Completion, consistent with the programme.

H.5 Reporting, measurement and non-compliance

- H.5.1 The *Contractor* includes in its monthly report (section 8.2 of the Scope), by the 5th day of each month, a local participation report showing, for the month and cumulatively: local labour person-days by level, with proof of residence for new employees; the participation of youth, women and persons with disabilities; Local Procurement Spend by enterprise, with proofs of payment; the targets met and not met; and the reasons for any shortfall.
- H.5.2 The *Project Manager* assesses whether the *Contractor* has met the targets for each assessment, by comparing the cumulative actual performance with the cumulative monthly profile in the accepted Participation Plan and, at Completion of the whole of the works, with the minimum targets in H.2. The *Project Manager* informs the *Contractor* of the assessment and of whether the reasons for any shortfall are accepted as valid and justifiable (for example, the unavailability of a Local Enterprise after a documented procurement process).
- H.5.3 A shortfall which the *Project Manager* does not accept as valid and justifiable is dealt with in accordance with additional condition of contract Z14.

C3 ANNEXURE I: COMPLETION REQUIREMENTS

This Annexure forms part of the Scope. It lists the work which the Scope states is to be done by the Completion Date, in addition to the other requirements of the Scope (clause 11.2(2) of the conditions of contract and section 7 of the Scope). The *Project Manager* does not certify Completion until each requirement has been met.

No.	Requirement	Status / reference
1 Design, approvals and documents		
1.1	The lighting, structural and electrical designs have been accepted by the <i>Project Manager</i> (key date 1).	
1.2	All approvals required from BCMM as local authority and electricity supplier have been obtained.	
1.3	The health and safety plan has been accepted and the health and safety file has been completed and handed over in accordance with the Construction Regulations, 2014.	
1.4	The Participation Plan has been accepted and the final local participation report, showing performance against the targets in Annexure H, has been submitted and accepted.	
1.5	The foundation report for each mast (Z16.4) and the written test report on the existing power and control cables have been accepted.	
1.6	The Maintenance Contract (Z15) has been signed and the <i>Contractor's</i> maintenance plan for service year 1 has been accepted.	
2 Tests and verification		
2.1	Factory acceptance test reports for the luminaires and drivers have been delivered.	
2.2	The electrical installation has been tested and certificates of compliance have been issued by a registered person in terms of the Electrical Installation Regulations, 2009.	
2.3	The installation has been commissioned, and all four lighting levels of the control panel have been demonstrated, and the FAT and SAT documentation has been submitted and signed off.	
2.4	The independent lighting verification report, confirming compliance with Table 1 at a maintenance factor of 0.8, has been accepted by the <i>Project Manager</i> .	
2.5	Lightning protection and aviation warning lights have been installed and tested on all masts.	
3 Handover		
3.1	Full as-built drawings, aiming records, calculation files, structural design report, structural certificate, SANS 10400-A Form 4, operation and maintenance manuals and the equipment register have been delivered and accepted.	
3.2	The spares required by the Scope have been delivered to BCMM's store at the stadium] and recorded.	
3.3	Training of Border Cricket facilities management staff and BCMM personnel has been completed, with attendance registers.	
3.4	The product warranty and the 10-year performance-based warranty required by section 9 of the Scope, and (where the OEM is a key Subcontractor) the OEM Guarantee and Undertaking (C1.3), have been issued in favour of the <i>Client</i> and are cessible to BCMM. The documents transferring the rights under Option X9 have been delivered.	
3.5	The existing luminaires, gear plates, mast distribution boards, condemned masts and existing Main LV distribution board have been removed and disposed of, with proof of responsible disposal, and the Site has been cleared and reinstated.	
3.6	Any outstanding minor Defects notified by the <i>Supervisor</i> do not prevent the use of the works for a broadcast match.	

C3 ANNEXURE J: MAINTENANCE CONTRACT (NEC4 TERM SERVICE SHORT CONTRACT) – KEY CONTRACT DATA AND SERVICE SCOPE

This Annexure sets out the key terms of the Maintenance Contract which the *Client* and the *Contractor* conclude under additional condition of contract Z15. The full Contract Data and Scope of the Maintenance Contract will be prepared by the *Client* from this Annexure and the successful tender, and signed with the contract for the works.

J.1 Key Contract Data

Conditions of contract	NEC4 Term Service Short Contract (June 2017, with amendments January 2023), with additional conditions stated below
The Client	Cricket South Africa NPC, with the right to cede and assign the contract to BCMM or to Border Cricket as lessee (Z15.5)
The Contractor	The <i>Contractor</i> under the contract for the works
The Client's Service Manager	TBC
The service	The maintenance of the floodlighting installation at the Border Cricket Grounds (Buffalo Park Stadium), KuGompo City, as described in J.2
The starting date	The date of Completion of the whole of the works under the contract for the works (or the date of take-over, if earlier) (Z15.2)
The service period	Ten (10) years from the starting date
The price list	The Maintenance Price List (C2.4), as tendered
Payment	The annual lump sum for each service year is paid in four equal quarterly instalments in arrears, against a valid tax invoice, within 30 days of the Service Manager's certificate
Price adjustment	From the start of service year 2, the prices for each service year are adjusted by the change in the Consumer Price Index (headline CPI, Statistics South Africa) between the base date of the tender and the month before the start of that service year
Defects and warranties	Defects under the contract for the works and work under the product and performance-based warranties are excluded from the service and are not paid for (Z15.3)
Termination	The <i>Client</i> may terminate the Maintenance Contract on one months' notice after service year 3, and in the circumstances stated in Z15.4 and the conditions of contract
Communications	By e-mail to the addresses stated in the Maintenance Contract.
Law and disputes	The law of the Republic of South Africa; adjudication and arbitration as in the contract for the works, in KuGompo City

J.2 Service Scope

- (a) **Planned preventive maintenance:** at least an annual; inspection of the luminaires, drivers, brackets, aiming, mast distribution boards, Main LV distribution board, control panel, earthing, lightning protection and aviation obstruction lights, including cleaning of luminaire glass, checking of fixings and aiming, thermographic inspection of the distribution boards, and electrical tests;
- (b) **Masts:** an annual inspection of each mast and its corrosion protection, fixings and hold-down bolts, with a report;

- (c) **Photometric verification:** an annual measurement of the lighting on the grids in section 2.3 of the Scope for the works, with a report confirming that the light levels in Table 1 are maintained;
- (d) **Faults:** attendance to faults within 24 hours, or within 1 hour on a Match Day, and restoration of the lighting before the next Match Day where practicable;
- (e) **Spares:** management and replenishment of the spares holding at the stadium;
- (f) **Reporting:** a quarterly maintenance report and an annual condition report to the Service Manager, with copies for BCMM and Border Cricket; and
- (g) **Local participation:** the service is provided using local labour and Local Enterprises in accordance with Annexure H, as far as practicable.

C3 ANNEXURE K: PRO FORMA PERFORMANCE BOND (OPTION X13)

The conditions of contract stated in Contract Data Part One include secondary Option X13: Performance bond. Clause X13.1 of the conditions of contract requires the performance bond to be given in the form set out in the Scope. This pro forma is that form and forms part of the Scope.

(To be issued on the letterhead of a bank registered in terms of the Banks Act 94 of 1990, by the Contract Date or, if not given by then, within four weeks of the Contract Date (clause X13.1). The bond must not differ substantially from this pro forma.)

PERFORMANCE BOND (ON-DEMAND GUARANTEE)

Guarantee number	
Beneficiary (the <i>Client</i>)	Cricket South Africa NPC (Registration No. 2002/006638/08), 86 5th Street, corner 5th Street and Glenhove Street, Melrose Estate, Johannesburg, 2196
Contractor	
Contract	RFP No. CSA/ 07/2026-27: The design, supply, installation, testing, commissioning and verification of LED arena floodlighting, new floodlight masts and associated electrical infrastructure, and maintenance for ten (10) years, at the Border Cricket Grounds (Buffalo Park Stadium), KuGompo City
Guaranteed amount	R (being 10% of the tendered total of the Prices, excluding VAT)
Expiry date	The date on which the <i>Supervisor</i> issues the Defects Certificate

1. We, the undersigned, ... (the Guarantor), a bank registered in terms of the Banks Act 94 of 1990, at the request of the *Contractor*, irrevocably and unconditionally undertake to pay to the *Client*, on its first written demand, any amount or amounts not exceeding in total the guaranteed amount.
2. A demand must be in writing, signed on behalf of the *Client*, and must state that the *Contractor* has failed to perform its obligations under the contract, or that the *Contractor's* obligation to Provide the Works has been terminated because of its default, and the amount claimed.
3. The Guarantor shall pay the amount demanded within seven days of receiving the demand, without enquiring into the merits of the demand and without reference to the *Contractor*, and notwithstanding any objection by the *Contractor*.
4. The Guarantor's liability is not affected by any change to the works, extension of time, indulgence, forbearance or amendment to the contract.
5. This guarantee expires on the expiry date stated above, or on payment of the full guaranteed amount, whichever is earlier. A demand must be received by the Guarantor before the expiry date. The original guarantee must be returned to the Guarantor on expiry.
6. The *Client* may cede its rights under this guarantee to Buffalo City Metropolitan Municipality. Otherwise this guarantee is not transferable without the Guarantor's written consent.

7. This guarantee is governed by the law of the Republic of South Africa. The Guarantor chooses as its domicilium citandi et executandi:

SIGNED FOR AND ON BEHALF OF THE GUARANTOR:

NAME AND CAPACITY	SIGNATURE	DATE

PART C4: SITE INFORMATION

The Site Information describes the Site and its surroundings. The *Contractor* is assumed to have taken it into account in its tender, together with the information from its own inspection of the Site (clause 60.2), except as stated in additional condition of contract Z16 for the foundations.

1. **Location.** Border Cricket Grounds (Buffalo Park Stadium), Portion of Erf 16226, 1 Buffalo Park Drive, Acadia, KuGompo City, 5201, Buffalo City Metropolitan Municipality, Eastern Cape.
2. **Foundations, ground conditions and services.** The condition of the existing foundation plinths and hold-down bolt assemblies at each of the four mast positions is unknown. No intrusive investigation of the foundations has been carried out.
3. **Environmental.** The site is in an urban area with residential properties nearby.
4. **Weather.** Long-term climate statistics for KuGompo City, recorded at King Phalo Airport (WMO station 68858), are given below for information. They are the World Meteorological Organization climatological standard normals for 1991–2020 (30-year averages). The *Contractor* allows for these conditions in its programme and methods, in particular rain and wind when working at height and lifting. The weather measurements and weather data for assessing compensation events are those stated in the Contract Data.

Table C4.1: Climate statistics, King Phalo Airport, KuGompo City (1991–2020)

Parameter	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Mean daily maximum temperature (°C)	25.9	26.3	25.5	24.0	23.2	21.9	21.5	21.6	21.6	22.4	23.4	24.7	23.5
Mean daily minimum temperature (°C)	18.3	18.7	17.5	15.1	12.8	10.7	10.2	11.0	12.3	14.0	15.3	17.2	14.4
Mean rainfall (mm)	89	72	93	89	39	32	42	55	56	81	98	76	822
Mean number of rain days (≥ 1 mm)	9.0	8.2	8.2	7.4	3.6	2.9	3.3	5.0	5.3	8.1	8.9	9.0	79
Mean sunshine (hours per month)	221	204	213	210	225	224	229	238	221	212	212	214	2,623

Source: World Meteorological Organization climatological standard normals 1991–2020, station 68858 (East London / King Phalo Airport), published by the US National Oceanic and Atmospheric Administration (NOAA), NCEI Accession 0253808.

Wind.. Wind statistics recorded at King Phalo Airport for September 2001 to September 2026 give an average wind speed of about 10 knots (about 18.5 km/h or 5.1 m/s) and average gusts of about 30 knots (about 56 km/h), with a prevailing south-south-westerly wind (source: Windfinder wind statistics, East London Airport). KuGompo City is one of the windiest coastal cities in South Africa. Modelled data indicate that the wind is mainly westerly to south-westerly from about April to September and easterly to north-easterly for the rest of the year, and is generally strongest from August to October.

Monthly wind speed statistics and directions for East London Airport

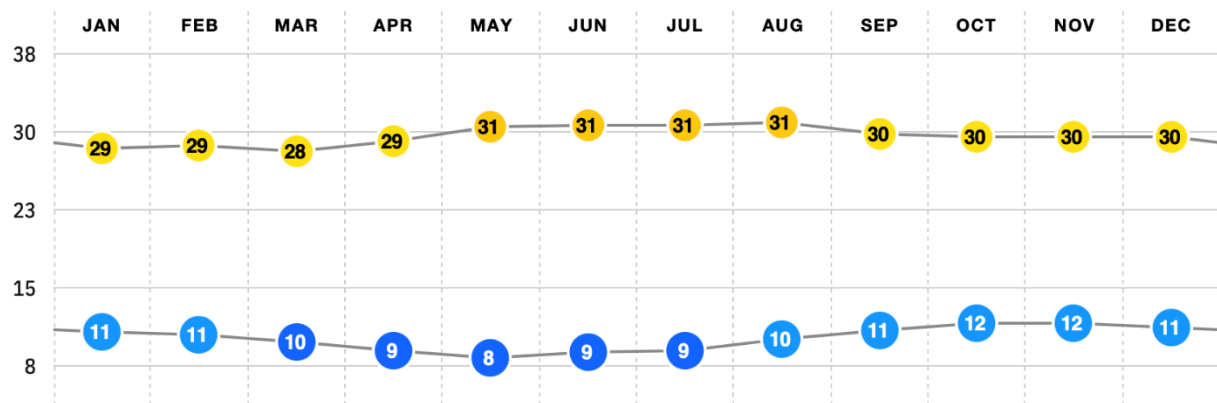


Dominant wind direction

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
											
ESE	SE	SSE	SW	W	W	W	WSW	SW	S	SSE	SE



Average wind speeds and gusts (kts)



The *Contractor* is responsible for obtaining any further weather information it needs, including wind data for the design of the masts in accordance with SANS 10160-3.

ANNEXURES TO PART C3 (SCOPE OF WORK)

Annexures A to G form part of the Scope (Part C3) and are inserted on the following pages. Annexures H to K are included in Part C3.

C3 ANNEXURE A: STADIUM LAYOUT: CALCULATION GRID AREAS, STADIUM BOUNDARY, MAST POSITIONS AND MAXIMUM MOUNTING HEIGHTS

RFP Specifications: Structural Design of Lighting Masts for Buffalo Park

RFP Specifications: Structural Design of Lighting Masts for Buffalo Park

1.1 Organization of electronic data

The following link can be used to access the data:

[Buffalo Park Data](#)

Table 1: Organization of data folders

Folder structure	Description
1. Inspections Photos General Photos M1 Photos M2 Photos M3 Photos M4	Inspection by Fortem and RMSE
2. NDT & Mapping Reports Photos	Testing and mapping by RBI-Tech
3. Point Cloud Scan Drawings	Survey performed by Trail Surveys
4. Assessment Report	Structural assessment report by Fortem and RMSE. Excel spreadsheet with site data and calculation of wind areas.

Table 2: Limiting areas

Limiting areas	M1	M2	M3	M4
Frontal projected area (FPA) (m ²)	72.4	72.2	74.2	73.2
Moment of FPA about base (m ³)	1 905	1 899	1 950	1 902

A Site layout and mast numbering

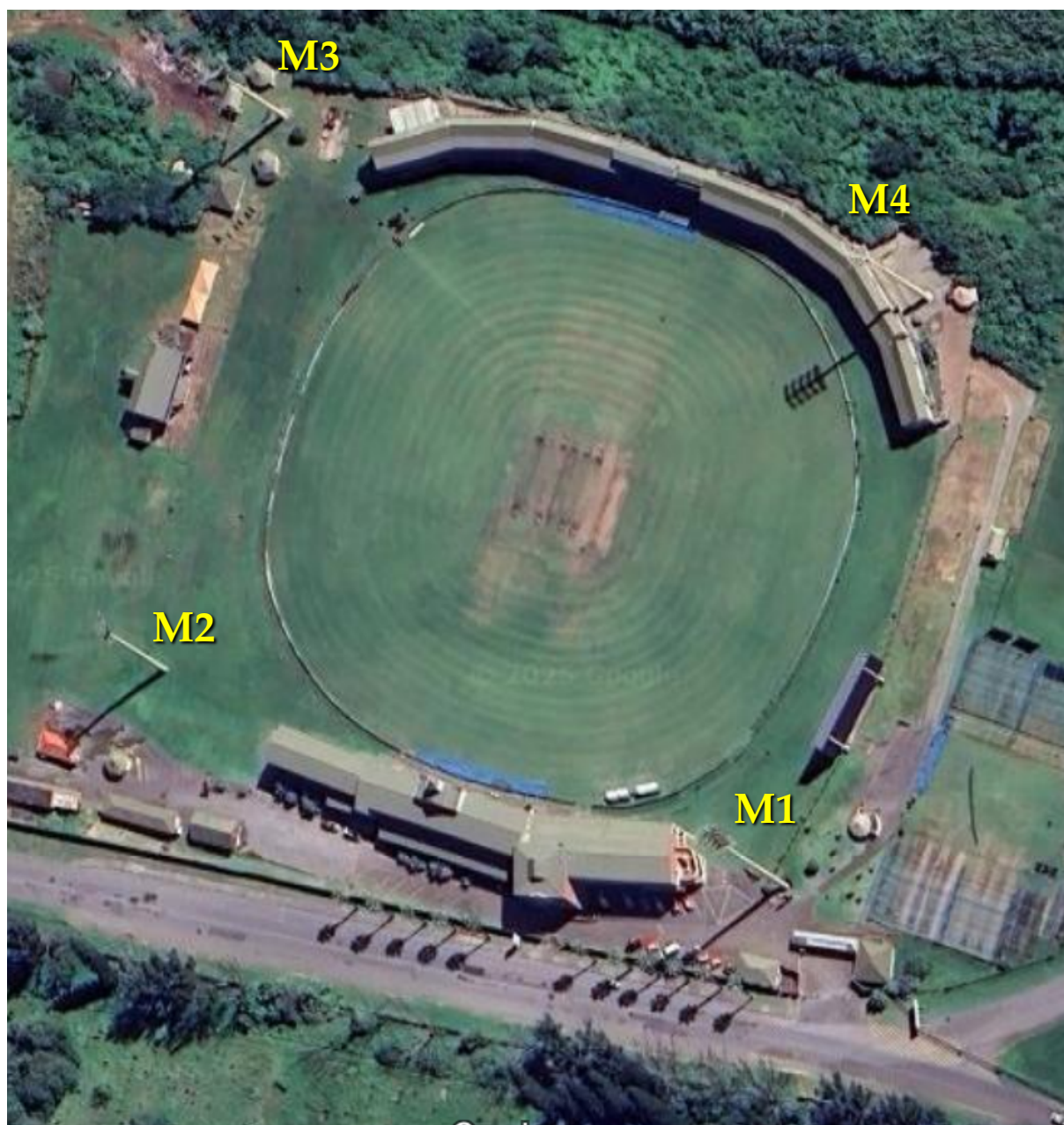


Figure 1 : Google Maps view of Buffalo Park Cricket Stadium

B General parameters

Parameter	M1	M2	M3	M4	Source
Mast					
Number of sides to mast section	12	12	12	12	Inspection
Outside diameter across flats at the top of the mast (mm)	699	688	769	734	Survey
Outside diameter across flats at the bottom of the mast (mm)	1447.5	1460	1468	1490	Survey
Outside diameter across corners at the top of the mast (mm)	724	712	796	760	Calculated
Outside diameter across corners at the bottom of the mast (mm)	1 499	1 512	1 520	1 543	Calculated
Total Mast length including flanges (mm)	35 264	35	35	35	Survey
Total assembly height (mast + spine) (mm)	43 034	388	365	240	Survey
		43	43	43	
		378	425	140	
Headframe					
Number of Lights	80	80	80	80	Inspection
Number of sides to spine section	12	12	12	12	Survey
Outside diameter across flats at the top of the spine (mm)	386	313	298	448	Survey
Outside diameter across flats at the bottom of the spine (mm)	699	688	769	734	Survey
Outside diameter across corners at the top of the spine (mm)	400	324	309	464	Calculated
Outside diameter across corners at the bottom of the spine (mm)	724	712	796	760	Calculated
Length (vertical) of the spine (mm)	7 770	7 990	8 060	7 900	Survey
Angle of tilt of the spine, measured from the vertical (degrees)	16	17	16	14	Survey
Anchor bolts					
Number of bolts	40	40	40	40	Inspection
Pitch circle diameter PCD (mm)	1 680	1 680	1 680	1 680	Inspection
Bolt size	M39	M39	M39	M39	Inspection
Length (mm)	1 647	1 647	1 675	1 678	NDT
Baseplate diameter (mm)	1 820	1 820	1 820	1 820	Inspection
Baseplate thickness (mm)	35	35	35	35	Inspection

C3 ANNEXURE B: CLIENT'S HEALTH AND SAFETY SPECIFICATION AND BASELINE RISK ASSESSMENT



HEALTH & SAFETY

Specification Report for

Project: Cricket South Africa - Buffalo
Park Stadium LED Flood Lights

Our Offices

Building C1
Waterkloofrand Corporate Park

358 Buffelsdrift Street
Erasmusrand
Pretoria, 0165

Contact Us

012 346 5752
admin@cairnmead.co.za



Health and Safety Specifications in terms of Construction Regulation 5 (1)(a) & (b)	REV	13 Oct 26
	Project Number	26829_ - HS_01

The Principal Contractor will have to prove that they comply with the Occupational Health & Safety Act – Act 85 of 1993 and Regulations as well as all the incorporated safety standards, when appointed, by proving to the appointed Health and Safety Agent that they have a documentation management system to deal with all the aspects of the requirements of the Act, Regulations and Safety Standards. The Cairnmead representative will take photos of all the documents during documentation audits, personal records of all employees will only be taken once as example and all the details will be expected that the Principal Contractor keep record, these photo records will serve as a consolidation which can be submitted to the client at the end of the project. These photo records of the documents will be summarized by the Agent on a one-page document "Contractors Matrix" which will indicate the compliance status of the responsibilities of the Principal Contractor and their appointed Contractors (Sub-Contractors) audited at the time of the site visit once a month. Any non-compliance can result in a specific activity of the Contractor being stopped, and that stoppage will be for the account of the Principal Contractor or the appointed Contractor. The Health and Safety Agent will do audits on-site at agreed intervals to determine whether the Principal Contractor and the appointed Contractors do comply with the legal requirements. Cairnmead has developed a site auditing system to measure the compliance of sites, this is called high-risk activities, we have identified 16 high-risk activities that commonly occur on sites and the front page of the report provides the high-risk activity statistics for the project. It is expected from the Principal Contractor and appointed Contractors to supply their employees all the required personal protective equipment and clothing required for the applicable task.

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1. Project Information

- 1.1. Project Name:** Cricket South Africa - Buffalo Park Stadium LED Flood Lights
- 1.2. Client Name:** Cricket South Africa (NPC)
- 1.3. Project Address:** Border Cricket Grounds (Buffalo Park Stadium), 1 Buffalo Park Drive, Acadia, KuGompo City
- 1.4. Principal Contractor:** Tender



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Directors
SW Dirker
CPJ Lourens
K Stockenström



2. List special conditions on site:

- 2.1 (The special conditions on site are items that need special attention or items that are agreed upon between the Client and Principal Contractor or principal contractor and Contractor before the start of the construction activities, for example, underground services, overhead power lines, site access control (fencing), etc.

3. Construction Work Permit

- 3.1 The Principal Contractor must take note that a Construction Work Permit Application for this Project will be submitted by the Health and Safety Agent (Cairnmead).
- 3.2 The Principal Contractor must ensure that the Construction Work Permit Number is displayed at all times at all entrances/access points to the Construction site.
- 3.3 The Principal Contractor on receipt of the Construction Work Permit ensures that it is placed on their Health and Safety File on site and made available upon request.
- 3.4 The principal contractor however does not need to submit a Notification of Construction mentioned in the below bullet when the project falls under a Construction Work Permit project.

4. Notification of Construction

Not Applicable

5. Client Documentation

- 5.1 The Principal Contractor must on receipt of the Client's baseline risk assessment ensure that is signed off by the Construction Manager and placed in their Health and Safety File and made available upon request.
- 5.2 The Principal Contractor must ensure that the Client Health and Safety Specification is included in the tender documentation sent out to all protentional sub-contractors in the tender phase of the project.
- 5.3 The Principal Contractor must ensure that the Baseline Risk assessment is included in the tender documentation from their side.
- 5.4 The Principal Contractor will be appointed under CR5(1)(k) in writing, the Principal Contractor will ensure that this appointment is placed in their Health and Safety File and made available upon request.
- 5.5 The principal contractor should provide their health and safety file to Cairnmead at least one week before the commencement of work, for a file approval audit to be conducted, this is to ensure that the file is compliant before work commencing on site to prevent any delays in the starting of the project.
- 5.6 Cairnmead will keep a record of the Health and safety documentation on the Contractor matrix to report on the legal requirements of the site. The Contractor matrix got an assessment with it and these assessments will be done every month (See Annexure 1 attached to this document for guidelines on the legal compliance audit).



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- 5.7 The Principal Contractor must ensure that a close-out report is issued to Cairnmead within three working days after a Cairnmead report was issued to the site.
- 5.8 Cairnmead has developed a site auditing system to measure the compliance of sites, this is called high-risk activities, we have identified 16 high-risk activities that commonly occur on sites and the front page of the report provides the high-risk activity statistics for the project, when issued with this report the principal contractor and contractor should close out the report within three days after the issue date of the report.
- 5.9 The Principal Contractor should ensure that Project monthly statistics (Principal Contractor and all subcontractors) are recorded in writing regarding the hours worked, near-miss incidents, first aid cases, medical treatment, lost time incidents, etc. Cairnmead will collect these statistics from the Principal Contractor. (See Annexure 2 attached to this document that can be used as guidance regarding the collection of site statistics).
- 5.10 The Client must in cases where a substantial risk exists that the workplace may be flooded, take measures to be informed forthwith of any imminent flooding risk.
The Client shall take measures to be informed of any imminent flooding from constructions for conserving water, or which may cause water to converge or accumulate on the premises, and shall, prior to the erection of such a construction, give notice in writing to all persons situated in the danger zone below such construction of the possibility of flooding owing to such construction.
- 5.11 The Principal Contractor and their appointed Contractors must take note that if it is found that an employee committed an unsafe act or caused an unsafe condition on-site Cairnmead will take action against the foreman/management/legal appointee responsible for this activity. The most likely action will be that Cairnmead will instruct the foreman/management/legal appointee in question to stop that activity with immediate effect. It will not be tolerated that management allows unsafe conditions and acts on site.

6. Duties of the Designer

- 6.1 All Appointed Designers will take into consideration the requirements of the OHS Act, applicable Regulations, By-laws and Health and Safety specifications in their designs.
- 6.2 All Appointed Designers must before the tender phase ensure that a report is issued to the client outlining the health and safety information applicable to the structure that may influence the costing, the Load that the structure is designed to with stand, and where appropriate the geotechnical science aspects of the project.
- 6.3 All Appointed Designers will in writing inform the Client of any Hazards or damages in the building prior to and during the project should they arise on a later stage of the project and supply the client and the contractor intended for the task with the relevant information to ensure that work is safely executed.
- 6.4 Any Temporary Work Designer must ensure that all structures designed are done in the manner that such structure can support all anticipated lateral and vertical loads that may be applied and identified in such design.
- 6.5 Any Temporary Work Designer must ensure that such design is done in close reference to the structural design.
- 6.6 Any Temporary Work Designer must ensure that a record is kept of all drawings and calculations about such design and made available upon request.
- 6.7 All Appointed Designers will be required to sign a design declaration for the intended designs if the project will be working under a construction permit.



- 6.8 All appointed Designers must ensure that they take Regulation 6 (Duties of designers, manufacturers, importers and suppliers) of the Noise Exposure Regulations, 2024 into consideration and incorporate into their design when designing the building.
- 6.9 All appointed Designers must ensure that they take Regulation 5 (Duties of designers, manufacturers, importers and suppliers) of the Physical Agents Regulations, 2024 into consideration and incorporate into their design when designing the building.
- 6.10 As per the Government Gazette - 6 March 2025: notice regarding amendment to General Safety Regulations, the appointed Designers must ensure that they take the regulation into consideration and incorporate into their design when designing the building.

7. Principal Contractor and Contractors

- 7.1 The Principal Contractor is to ensure that a medical fitness certificate, in the form of an Annexure 3 issued by a registered Occupational Practitioner is available for every employee on site, the medical fitness certificates are to be kept secure at all times. As part of the Incident Management Procedure there must also be a written procedure available to indicate how the certified ID copies and next-to-kin information of each individual will be made available during an incident on site where such information will be needed, the procedure must outline who can be contacted to access the information for each Contractor working on site, and where the information will be kept to secure the privacy of each individual.
- 7.2 The Principal Contractor must implement a documented medical screening programme as per Noise Exposure Regulations, 2024, specifically Regulation 9, for any employee who may be exposed to noise at or above the noise-rating limit or noise action level, particularly when there is simultaneous exposure to ototoxic chemicals and/or whole-body vibration. Additionally, for vulnerable employees, the employer must seek the opinion of an occupational medicine practitioner to assess whether medical screening is necessary.
- 7.3 The Principal Contractor must ensure compliance with Regulation 14 of the Noise Exposure Regulations, 2024, regarding the maintenance of records.
- 7.4 The Principal Contractor must implement a physical agent exposure monitoring programme as per Physical Agent Exposure Regulations, 2024, where required in terms of Regulation 7 of Physical Agent Exposure Regulations.
- 7.5 The Principal Contractor must ensure an employee is placed under a documented medical screening programme if required in terms of Regulation 8 (Medical screening and medical surveillance) of the Physical Agent Exposure Regulations, 2024 and that all requirements which is applicable in terms of the regulation are complied with.
- 7.6 Where applicable, the Principal Contractor must ensure that cold stress is eliminated at the source if reasonably practicable and if this cannot be done, then the requirements of Regulation 9(2) of the Physical Agent Exposure Regulations must be complied with.
- 7.7 Where applicable, the Principal Contractor must ensure that heat stress is eliminated at the source if reasonably practicable and if this cannot be done, then the requirements of Regulation 10(2) of the Physical Agent Exposure Regulations must be complied with.
- 7.8 The Principal Contractor must ensure that they provide illumination in the workplace / construction site in the form of either natural light, artificial light or a combination thereof, and that the illumination complies with the Regulation 11 of the Physical Agent Exposure Regulation.



- 7.9 Where applicable, the Principal Contractor must ensure that risk of exposure to hazardous biological, chemical and physical agents impacting indoor air quality is eliminated at the source, where reasonably practicable as required in terms of Regulation 12 (1) of the Physical Agent Exposure Regulation. Where this is not reasonably practicable, the Principal Contractor must control indoor air quality to guidance levels as required in terms of Regulation 12(2) of the Physical Agent Exposure Regulation.
- 7.10 Where applicable, the Principal Contractor must ensure that hand-arm vibration or whole-body vibration is eliminated at the source, where reasonably practicable as required in terms of Regulation 13(1) of the Physical Agent Exposure Regulation. Where this is not reasonably practicable, the Principal Contractor must take relevant action as required in terms of Regulation 13(2) and 13(3) of the Physical Agent Exposure Regulation.
- 7.11 The Principal Contractor must ensure compliance with Regulation 18 of the Physical Agent Exposure Regulation, 2024, regarding the maintenance of records.
- 7.12 The Principal Contractor is responsible for the access/security control to the construction site and only persons with a unique identification, which they have received during the induction for the site, must be allowed into the site and this includes the Client representative and the professional team. This induction must include as a minimum emergency procedure what construction activities are currently on site, and how a person must identify and behave to not be exposed to this hazard. The Principal Contractor must however ensure that every person on site can be identified by means of a tag/access card or the construction company name on their overalls.
- 7.13 Before any commencement of work, the Principal Contractor must submit proof that they are in Good Standing with the Compensation Fund, such documentation must be kept in their Health and Safety file and made available upon request.
- 7.14 The Principal Contractor must ensure that before the commencement of any contractors they are in Good Standing with the Compensation fund, such documentation must be kept in their Health and Safety file and made available upon request.
- 7.15 The Principal Contractor will appoint all Contractors under CR7(1)(c)(v) in writing and ensure that this is placed on their Health and Safety file and made available upon request.
- 7.16 The Principal Contractor will ensure that a signed Sect 37(2) Mandatary agreement is available between the Principal Contractor and their appointed contractors, and a copy of such agreement is placed in their Health and Safety file and made available upon request.
- 7.17 The Principal Contractor will ensure that an approved copy of their Health and Safety Plan which has been communicated to all employees is available in their Health and Safety File.
- 7.18 The Principal Contractor will ensure that their contractor's Health and Safety Plans have been approved and a copy of such Health and Safety Plan which has been communicated to all employees is available in the Health and Safety File of each contractor.
- 7.19 The Principal Contractor along with their appointed Contractors will ensure that a Health and Safety Policy which has been signed off and communicated is placed in their Health and Safety File and made available upon request.
- 7.20 The Principal Contractors will conduct health and safety audits and document verification with their Contractors, this will be placed in their Health and Safety file and made available upon request.
- 7.21 The principal contractor will in the case of found unsafe activity stop such activity which is not by the Safety Regulations and by-laws, the Client's specification, and the Principal Contractors Health and Safety Plan.



- 7.22 The Principal Contractor must ensure that all Health & Safety files are updated for the month during the first week of the month.
- 7.23 Task-specific PPE is required to be used for specific scope of work, such as welding, working at heights, confined space work, etc. These PPE requirements must be addressed in the task-specific risk assessment of each contractor.
- 7.24 Pre-task analysis is to be completed by each contractor to ensure that sufficient task planning is done regarding PPE, equipment, and tools required for each task.
- 7.25 As per Construction Regulation 7, the principal, contractor must ensure that they audit the health & safety files of their contractors at least once every 30 days.

8. Management and Supervision on Site

- 8.1 The Principal Contractor must appoint in writing a full-time Construction Manager in terms of CR8(1) who will be responsible for managing all construction work on a site. This appointed Construction Manager must have the required formal tertiary qualifications relevant to construction management or be registered as a Construction Manager with the SACPCMP.
- 8.2 The Principal Contractor and their appointed Contractors must appoint in writing a Construction Supervisor in terms of CR8(7) who will be responsible for supervising all construction work on site
- 8.3 The Principal Contractor must always have supervision on site for all construction activities then, which include work after hours and weekends, under no circumstances may a subcontractor be allowed on site without supervision being available from the appointed principal contractor.
- 8.4 The Principal Contractor must in writing appoint a Full Time Health & Safety Officer (registered with SACPCMP) to monitor the Health and Safety compliance on site.

9. Risk Assessments

- 9.1 The Principal Contractor and his appointed Contractor must in writing appoint a Risk Assessor in terms of CR9(1) whose competency is in line with the required unit standard.
- 9.2 The Principal Contractor and his appointed contractor must have a Risk Assessment which is compiled based on their methodology and processes, for each of the items as listed in the Clients Baseline Risk Assessment, to reduce the high rating of the activity which will be placed in their Health and safety file and made available upon request.
- 9.3 The Principal Contractor and his appointed contractor must ensure that all their activities are addressed in the site and task-specific risk assessments and must be available in their Health and Safety File.
- 9.4 The Principal Contractor and his appointed contractor must ensure that all method statements, risk assessments safe work procedures, and, job hazard analyses are signed off by the risk assessor, construction manager, and construction supervisor, and proof of this must be available in their Health and Safety File.
- 9.5 The Risk Review and Monitor Plan must also be available in the Health and Safety File.



- 9.6 The Principal Contractor and their appointed Contractor must ensure that all Method Statements, Risk Assessment and Safe Work Procedures, and Job Hazard Analysis have been communicated to all employees and proof of such communication is placed in their Health and Safety file and made available upon request.
- 9.7 As part of the risk assessments the contractors are to ensure that they include in their risk assessments the following items that may require permits from the principal contractor before the work can commence; hot work, confined space entry work, excavation work, critical lifting/rigging, energized electric work, working at heights, ladders, and energy isolation.
- 9.8 Apre-task analysis shall be completed for each task prior to starting the task and prepared with the employees who will be involved in the task.
- 9.9 The Principal Contractor must in respect of the workplace / construction site under their control, cause a noise exposure risk assessment to be done as far as is reasonably practicable, before exposure to noise and then thereafter where applicable at intervals not exceeding 24-months. This risk assessment must be conducted by a competent person.
- 9.10 The Principal Contractor must ensure that Regulation 7(2), Regulation 7(3), Regulation 7(4) and Regulation 7(5) of the Noise Exposure Regulations, 2024 is taken into consideration and complied with regarding the noise exposure risk assessment.
- 9.11 The Principal Contractor is responsible for ensuring the implementation of a noise exposure monitoring programme if the noise exposure risk assessment, or a review of the assessment, reveals that any employee may be exposed to noise levels at or above the noise-rating limit or the noise action level, especially when there is simultaneous exposure to ototoxic chemicals and/or whole-body vibration, as outlined in the Noise Exposure Regulations.
- 9.12 The Principal Contractor must ensure that Regulation 8(2), Regulation 8(3), and Regulation 8(4) of the Noise Exposure Regulations, 2024 is taken into consideration and complied with regarding the noise exposure monitoring.
- 9.13 The Principal Contractor must ensure when applicable as per Regulation 6 (Physical agent exposure risk assessment) of the Physical Agents Regulations, 2024 that a documented physical agent exposure risk assessment is conducted as far as is reasonably practicable, before exposure to a physical agent; thereafter where applicable at intervals not exceeding 24-months and this risk assessment must be conducted by a competent person.
- 9.14 The Principal Contractor must ensure the physical agent exposure risk assessment includes at least all items as listed in Regulation 6(2) of the Physical Agents Regulations, 2024.
- 9.15 The Principal Contractor and his appointed contractors must ensure that all risk assessment templates include the tasks being performed, hazard and risks, raw or initial risk ratings, control measures / preventative measures and residual risk ratings.

10. Fall Protection

- 10.1 The Principal Contractor must in writing appoint a Fall Protection Plan Developer in terms of CR10(1)(a) whose competency is in line with the required unit standard to develop a Site-Specific Fall Protection plan in line with CR10(2).



- 10.2 The Principal Contractor and their appointed Contractors must ensure that the Construction Manager CR8(1) has a copy of such Fall Protection Plan.
- 10.3 The Principal Contractor and their appointed contractors must ensure that all employees at a fall-risk position, have in place a valid working at heights training certificate which has been done in line with the required SAQA unit standard.
- 10.4 The principal and their appointed Contractors will ensure that all fall arrest equipment is inspected by a competent person before use and recorded on a register which will be kept in the Health and Safety file and made available upon request.
- 10.5 The fall arrest equipment used must be fitted with a self-rescuing kit where it is not possible for an alternative rescue method to take place due to height or location
- 10.6 The Principal Contractor and their appointed contractors will ensure that all fall arrest equipment will be hooked at all times on a structure or similar secured anchorage point that has been approved as suitable with the necessary stability and sufficient strength to safely support the equipment and any person who could fall. A 100% tie-off is required if a worker will be working at a fall risk position of 1.8 meters or greater, measured from the floor to the feet of the employee where the employee cannot be safeguarded from the fall risk.
- 10.7 Fall risk positions must be barricaded/fenced with a solid material (for example scaffold tubing, not just plastic barricading) at a height of 1 m, the use of safety netting is not permitted as a sole means of fall protection.
- 10.8 The Principal Contractor must have a daily inspection record on site for the barricading of all fall dangers specific to each fall risk area identified.
- 10.9 Any openings in a floor or roof not otherwise protected by a handrail must be closed and secured with a solid guarding or cover system.
- 10.10 All edge barricading used on site must be of solid material, if scaffold tubing or a similar method is being used, it must be installed that a knee and handrail are fitted, scaffold tubing or similar material must also be securely fixed to the posts being used.
- 10.11 Drop-off edges of decking, and all platforms must be fitted with toe-boards to prevent material from falling from the edges onto working areas below, where these toe-boards are not able to be used. An exclusion zone must be demarcated below the required working area to prevent any employees from accessing the area while the work is taking place on the level above.
- 10.12 Exclusion zone planning must be done when activities are planned for the day/week to ensure that high risk work areas are securely closed off to restrict access to the high-risk activity.
- 10.13 The employees conducting any steel erection are prohibited from climbing of columns and all steel erection employees must always maintain 100% tie-off while at a fall risk position of 1.8metres or greater, measured from the floor to the feet of the employee.
- 10.14 Overhead work required to take place must be planned in such a manner that exclusion zones are created to prevent access below the working area, tools used while working in overhead positions should also be tied-off and secured at all times
- 10.15 The Principal Contractor will ensure that all work at heights which is exposed to the elements will be stopped at the immediate sign of inclement weather conditions or any hazardous health and safety conditions.



11. Structures

- 11.1 A Contractor must take all reasonable steps to prevent an uncontrolled collapse of an existing or new structure.
- 11.2 Ensure that a structure is not bearing any additional weight over the limit which has been indicated by the Designer or Engineer.
- 11.3 All designs issued for construction intended for such structure is kept on site and made available upon request.
- 11.4 The Client must ensure that the structure is inspected periodically by a competent person to ensure the safety of such structure for further use.
- 11.5 The Client must ensure that any new structure for the first 2 years inspected at least every 6 months by a competent person and at least once a year after the first 2 years.
- 11.6 The Client must ensure that record is kept of the maintenance and inspections of such structure and made available upon request

12. Temporary Works

Not Applicable

13. Excavations

- 13.1 All excavations must be barricaded/fenced with a solid material (for example scaffold tubing, not just plastic barricading) with a minimum height of 1 meter. if scaffold tubing or a similar method is being used, it must be installed that a knee and guard rail/handrail is installed at the open edges. The scaffold tubing or similar material must also be securely fixed to the posts being used.
- 13.2 The Principal Contractor will in writing appoint a competent person as per Regulation to supervise all excavation work on site who will evaluate as far as reasonably practical the stability of the ground before the excavation work begins.
- 13.3 The Principal Contractor will have a daily inspection record of excavations showing the integrity of the soil and that requirements are followed and checked as per all applicable regulations on-site.
- 13.4 The Principal Contractor will not allow any person to work or enter any unsafe excavation which has not complied with all requirements as per Construction Regulation 13.
- 13.5 No spoil material may be permitted to be placed on the edge of the excavation within at least 1 meter from the excavation edge.
- 13.6 Safe and secured means of access must be provided to each excavation and may not exceed 6 meters from the point where any person is working inside the excavation.
- 13.7 The contractor is responsible for locating services and utilities prior to commencing with excavation work, these services or utilities must be clearly marked, and measures should be implemented to safeguard the employees from the services or utilities.



- 13.8 Where a Deep Excavation is taking place, the Principal Contractor must ensure that there is safe and secured pedestrian access created to ensure that the safety of pedestrians is not affected, and separation of pedestrians and construction vehicles must be implemented as far as is reasonably practicable, especially at the access areas to the site.
- 13.9 Access on the ramp must also be controlled by means of stop / go operations, the employees selected for this purpose must be appointed and trained. No pedestrians can be allowed on the ramp if there is a vehicle driving on the ramp at the same time.
- 13.10 If the walkway as described above is not practical, then access scaffold stairs must be provided.
- 13.11 The ground conditions of all excavations must be assessed and precautionary measures in terms of shoring, bracing or similar means must be implemented before employees can be allowed inside and excavation should the ground conditions require such measures.
- 13.12 The contractor conducting excavation work must have a detailed rescue plan available in case of an emergency for assisting and rescuing any employees inside the excavation.

14. Demolition Works

Not Applicable

15. Tunnelling and Confined Space

- 15.1 The Principal Contractor will ensure that no lone work will take place in any confined space
- 15.2 The Principal Contractor will ensure where applicable a rescue team and rescue kit is available for confined space rescues.
- 15.3 The Principal Contractor will ensure that a communication procedure is implemented between the persons working in confined space and the sentry for the area.
- 15.4 The Principal Contractor will as far as reasonably possibly ensure that prior to confined space entry the area is clear of any fumes that could pose a risk to the health and safety of such person.
- 15.5 The confined space must have the air measured within the space prior to any entry being permitted.
- 15.6 No Contractor will allow a person to enter a tunnel which has that height dimension of under 800mm.
- 15.7 All confined space work will require a confined space work permit to be issued and this permit must be posted at the work location during the task.

16. Scaffolding

- 16.1 The Principal Contractor will ensure that all work on scaffolding that is exposed to the elements will be stopped at the immediate sign of inclement weather conditions.



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- 16.2 All scaffolding on site to be erected in accordance with SANS 10085/1:2024 and inspected daily prior to use and after inclement weather irrespective of the height of the scaffolding. Scaffolding is part of temporary works and required a scaffolding design, the person designing scaffolding must be a competent temporary works designer.
- 16.3 All scaffolding erected on site may only be erected by trained and appointed scaffolding erectors and must be supervised and signed off by trained and appointed scaffolding inspector and supervisor.
- 16.4 Any scaffolding structures that will be erected adjacent to a public way or area must be fitted with pavement gantries or fans as per the scaffolding requirements to prevent any material from falling into or onto the public area.
- 16.5 The Principal Contractor is to ensure that where other forms of screening/aprons or fans are used on the scaffolding structure for the protection and prevention of falling material that such screens/aprons or fans are designed by a competent person appointed in writing.
- 16.6 All scaffolding platforms must as per the scaffolding requirements of SANS 10085/1:2024 be provided with toe boards before any commencement of work can be allowed on the scaffolding. This is applicable to all scaffolding platforms on site.
- 16.7 All special scaffolding must be as per the scaffolding requirements and temporary work requirements have a design done by the competent person appointed in writing with the relevant qualifications. The installation of special scaffolding must then also be signed off after installation to confirm that the installation is as per design.
- 16.8 All aluminium type towers must be erected as per SANS 51004:2009 (Mobile access and working towers made of prefabricated elements - Materials, dimensions, design loads, safety, and performance requirements) and the relevant instruction manual.
- 16.9 All aluminium type towers on site to be erected in accordance with SANS 51004:2009 and inspected daily prior to use and after inclement weather irrespective of the height of the tower.
- 16.10 The aluminium tower erectors must be trained on the specific tower system used on site. Proof of this training to be available in the health and safety file on site.
- 16.11 All aluminium towers erected on site may only be erected by trained and appointed tower erectors. All tower erectors to be appointed in writing, and proof of this to be available in the health and safety file.
- 16.12 The aluminium tower inspector must be trained on the specific tower system used on site and the inspection requirements of the tower used. Proof of this training to be available in the health and safety file on site.
- 16.13 The aluminium tower inspector to be appointed in writing, and proof of this to be available in the health and safety file.
- 16.14 The Contractor must ensure that a copy of the instruction manual for the relevant aluminium tower is available in the health and safety file.
- 16.15 The Principal Contractor shall ensure that all employees involved in the erection, use, inspection, and movement of aluminium towers receive specific tower system training prior to performing any related activities.



- 16.16 The Principal Contractor must implement control measures to ensure that no aluminium tower is moved while any employee is positioned on the working platform at any height, no aluminium tower is moved while any materials, tools, or equipment remain on the working platform, to prevent instability and falling object hazards and furthermore ensure that all aluminium towers are erected only on firm, level, and stable ground conditions, in accordance with the manufacturer's requirements and applicable safety standards.

17. Suspended Platforms

Not Applicable

18. Rope Access Works

Not Applicable

19. Material Hoist

Not Applicable

20. Bulk Mixing Plants

Not Applicable

21. Explosive Actuated Fastening Device

Not Applicable

22. Cranes and Lifting Equipment

- 22.1 Whenever making use of an external Contractor to do lifting work the Principal Contractor must ensure that the operator is competent and appointed in writing.
- 22.2 Before using any lifting machines or tackle the operator should inspect it and confirm it is suitable for use.
- 22.3 All lifting machines must have in place proof of LMI inspection by an accredited person/company at intervals not exceeding 12 months.
- 22.4 The Principal Contractor and their appointed contractor must ensure that all lifting equipment is inspected at intervals not exceeding 3 months by a competent person with a valid training certificate in line with the required SAQA unit standard and appointed in writing.



- 22.5 All lifting tackle should be recorded on a register.
- 22.6 All hooks shall be fitted with a safety latch/catch. Hooks may never be used until a damaged latch is replaced.
- 22.7 A lock out system should be implemented to ensure that only an approved operator/user who is competent can obtain access to lifting machines.
- 22.8 All lifting tackle should be conspicuously and clearly marked with identification particulars and the maximum mass load that it is designed for.
- 22.9 No person shall be moved or supported by means of a lifting machine unless such a machine is fitted with a cradle approved by an inspector.
- 22.10 A trained and certified banksman must be appointed in writing for any crane or similar operations required on site, and this person must be in constant communication with the operator, able to always track the load, and if using hand signals only, must be in full unobstructed view of the operator.
- 22.11 The Principal Contractor must ensure that where specialised rigging operations / intricate rigging is required, or where rigging of 5 tons or more must be done, a competent Rigger must be appointed in writing with the required qualifications.
- 22.12 The Principal Contractor must also ensure that a rigging study is compiled for any rigging to be done and must have a detail risk assessment available and conducted by a trained and certified risk assessor competent in rigging activities specific to the work at hand. This rigging study must include the communication protocols that will be used and followed by the banksman, rigger, and operator.
- 22.13 Trained and appointed flagman must be positioned at each public area that will be affected by construction activities on the roadside where crane activities are affecting the area.
- 22.14 Any crane activities that may come in close contact to overhead power lines as defined in the Electrical Regulations and SABS Standards must have the required permits and wayleaves in place from the local authority before any such crane activities may commence on site, the safe work distances as specified in SANS 10280-1 must be complied with at all times.
- 22.15 No suspended loads may be lifted over personnel, buildings, processes, or electrical conductors.
- 22.16 When loads are being lifted on site, clear signalling and indicators must be used to warn the surrounding personnel that loads are being lifted.
- 22.17 No workers are allowed under a suspended load, and the signalling of suspended loads should be done by appointed banksmen by means of whistles or similar devices.
- 22.18 All loads shall have a tag line / guide rope attached for control, and controlling loads by hand is not permitted. The guide rope used must be of adequate length to ensure that it is long enough for safe control of the loads, the length of the guide rope should also be assessed not to be an excessive length that can cause a risk to the surrounding areas while being used.
- 22.19 Loads wider than 2.5 metres must be fitted with two tag lines / guide ropes at opposite ends of the load to ensure safe and secured control of the load.
- 22.20 Rigging from the bucket or booms of mobile plant (such as excavators, front end loaders, TLB's etc.) to pick and / or carry loads is prohibited unless a properly installed, certified and tested lifting lug has been attached to the bucket or boom by the manufacturer of the plant for such a specific purpose.
- 22.21 No rigging from the bottom of the tines / forks of fork trucks is allowed under any circumstances.



- 22.22 The contractor is to ensure that when mobile elevated working platforms are used that the manufacturer's posted and certified capacity of the lift will not be exceeded by combination of personnel, tools, and material. A copy of the load test of the platform must be available at all times.
- 22.23 Mobile elevated working platforms fitted with outriggers must have the outriggers fully extended and set before the platform is raised.
- 22.24 Fall restraint equipment must always be used and must be tied-off at all times while making use of the mobile elevated working platform.
- 22.25 Where it may be required for a person to climb out of or onto the platform to or from an elevated work position when using a mobile elevated working platform such a person shall utilize additional fall protection equipment to ensure the person maintains 100% fall protection tie-off as soon as their feet leave the platform. The fall protection equipment must be secured and anchored to a structure exterior to the elevated working platform and must be of suitable strength and design to act as a fall arrest anchorage point.
- 22.26 No rigging or lifting from the mobile elevated working platform is permitted.
- 22.27 Mobile elevated working platforms may only be operated by formally SAQA trained and appointed personnel and must be inspected daily prior to use and must have all emergency preparedness equipment fitted and in working condition.

23. Construction Vehicle, Mobile Plant and Public Roads

- 23.1 The Principal Contractor must ensure that if any construction vehicle, which parks in the street, for delivering materials and / or lifting operations by mobile cranes and / or concrete pumping or any similar operations that effects the public roads get done in such a manner that the members of public are not exposed to any of the construction activities, and must further have cones with a flagman on both sides and warning signage displayed.
- 23.2 Sufficient firefighting equipment must be available inside each of the construction vehicle and mobile plant being used on site.
- 23.3 The Principal Contractor / sub-Contractors to comply with the National Road Traffic Act 93 of 1996 at all times when carrying out their disciplines on roads, intersections, cross overs etc.
- 23.4 The Principal Contractor must ensure that the construction vehicles get cleaned off on the sides, between double wheels and the back to prevent loose soil and stones falling from the truck into the public road while driving out of the site.
- 23.5 The Principal Contractor must despite the cleaning of the trucks ensure that there is at all times someone to clean the public road surface from the soil that might be brought onto the road by the wheels of the construction vehicles. Dump trucks should cover loads or loose dirt or gravel when exiting the site.
- 23.6 Trained and appointed flagman must be positioned at each public area that will be affected by construction activities on the roadside.
- 23.7 Any road closure or lane restrictions that may be required must have the regulated wayleave in place before the work commences.
- 23.8 The temporary road signage and construction warning signage in line with the wayleave requirements must be installed as per the requirements of the wayleave and traffic management plan for the project.



- 23.9 There must be a detailed traffic management plan available for any lane restrictions or road closures that may be required throughout the project. This traffic management plan must be communicated to all contractors working on site.
- 23.10 Each construction area effecting the public roadway by means of construction vehicles turning into the public way must have designated flagmen positioned in line with the required vehicle turning signage to ensure safe and controlled construction vehicle integration onto the public roads.
- 23.11 Only trained and appointed operators may be allowed to operate construction vehicles and mobile plant on site. Each operator must be in position of a medical fitness certificate issued by an occupational practitioner in the form of Annexure 3 as per the Construction Regulations 23.
- 23.12 All construction vehicles and mobile plant must be fitted with a working acoustic warning device and automatic reverse warning device as per Construction Regulations 23.
- 23.13 Seatbelts must be used whenever the equipment and vehicles is in use and the use of cell phones or similar devices are prohibited while driving.
- 23.14 The operator of construction vehicles and mobile plant are not permitted to use earphones / headphones to listen to music while operating any construction vehicle of mobile plant. The operator must be able to hear instructions while in control of the vehicle or plant on site. The use of ear protection is the only permitted items allowed to be used where applicable.
- 23.15 All construction vehicles used on site must comply to the requirements of Construction Regulation 23, any vehicle not up to standard are not permitted on site.
- 23.16 The use of cell phones, tablets or similar devices are prohibited by operators and working near mobile plant and equipment in use.
- 23.17 Exclusion zones from the mobile plant and equipment are to be established and clearly demarcated to ensure that there is always safe separation between mobile plant and pedestrians on the entire site. This must be done by means of barriers or similar equipment. Each crossover point must also be provided with a designated flagman to control the flow of traffic at each pedestrian crossing, flagmen should also be utilised where construction vehicles and mobile plat are operating in enclosed areas and high traffic routes on site.
- 23.18 Designated locations for planned maintenance and repairs must be provided on site for the mobile plant and equipment and these areas are to be controlled and only authorised personnel may enter the area.
- 23.19 Mobile plant and equipment must be fully locked out by the operator when the operator exits the cab, under no circumstances may any mobile plant or equipment be left with the engines running without the operator inside the cabin control of the equipment.
- 23.20 Mobile plant and equipment left unattended must be kept in a state to prohibit any unintended movement, all booms and buckets must be lowered, and wheels locked, and brakes set to prevent movement.
- 23.21 Speed limit signs must be posted on site at appropriate locations and the required speed limit must be determined in the site traffic control plan.
- 23.22 Adetailed site traffic management plan must be drafted by the principal contractor and all contractors on site must comply to the site traffic management plan. This plan must always also include the separation of vehicles and pedestrians and must indicate how this will be achieved on site for example temporary barriers in designated pedestrian walkways.
- 23.23 No riding on equipment or the back of LDV's are permitted.



- 23.24 When the vehicles on site are not in use, they must be fully locked out with the parking brake set.
- 23.25 Dust control measures must be implemented on site, there should be a dust control schedule available to indicate the frequency of dust control taking place daily.

24. Electrical Installations

- 24.1 The Principal Contractor will ensure that all electrical installations on site will have a signed COC which will be made available upon request.
- 24.2 The Principal Contractor will ensure that all DB Board will be fitted with a cover plate, earth leakage and trip switch along with a lockout procedure, that must be specific for the type of work required to take place on the electrical components and must detail the measures that will be taken if such work will be required.
- 24.3 All switches on the DB Board will be labelled to identify the functions of such connection.
- 24.4 All Temporary Electrical connections will be inspected on a Weekly basis by the Competent person appointed in terms of Construction Regulation 24.
- 24.5 The Principal Contractor will ensure that no live electrical connection is exposed to the elements which can cause a risk to any person or the property of the client (e.g., rain, open flames, etc).
- 24.6 The electrical supply cables of all temporary electrical installations must be protected from the construction activities such as plant and machinery being operated near such cables.
- 24.7 Temporary lighting must be provided to working areas that does not have sufficient lighting available. Each contractor is required to plan their activities and ensure that sufficient lighting is available before the commencement of the planned work.
- 24.8 It is the responsibility of each contractor to ensure that their working area complies to the lighting requirements as stipulated under the Environmental Regulations for Workplaces - Illuminance Schedule
- 24.9 Workers are not allowed to work on any electrically energized components.

25. Hazardous Chemicals

- 25.1 The Principal Contractor must appoint a Hazardous Chemical Substance Controller in writing, to control and manage the hazardous chemicals on site
- 25.2 The Principal Contractor must ensure that a Material Safety Data Sheet for all chemicals on site is kept in the file and communicated to all site employees.
- 25.3 Where applicable spill kits will be made available by the Principal Contractor and their appointed Sub-Contractors in case of a chemical spill in order to contain the area from causing any environmental damage.
- 25.4 The Principal Contractor will ensure all chemical containers on site to be labelled and identified.
- 25.5 The Principal Contractor will as far as reasonably possible ensure when chemicals are being transferred from on container to another a drip tray must be made available to ensure that spillage is controlled and does not seep into any soil.



- 25.6 The Principal Contractor will ensure that Hazardous chemicals stores are equipped with information signage on the chemicals being stored, identification of the hazardous linked to the stored chemicals, PPE required to handle such chemicals, sufficient firefighting equipment, solid foundation to ensure no seeping of chemicals into soil and a lock out procedure to ensure control of such stored chemicals.
- 25.7 The Principal Contractor will ensure chemical store will not be allowed to be used as a storage area for clothing, food or any other personal belongings.
- 25.8 The Principal Contractor will as far as reasonably possible ensure that no chemical store will be used for an eating or changing facility.
- 25.9 Where a Principal Contractor or his appointed Contractor intends to store any bulk hazardous chemical on site, an application for a permit/temporary registration must be sent to the local Emergency Services department in the prescribed form of an Annexure 1 along with the required plans as per applicable by-laws and approved prior to such activity taking place on site, proof of such registration/permit must be kept on site and made available upon request.
- 25.10 Such installation for the above-mentioned tank / installation as per 24.9 must comply with SANS 10131 and ensure that the temporary tank must be located on firm level ground and the ground, must be of adequate strength to support the mass of the tank and contents, provision is made for the run-off of any possible rainwater from the retaining walls or retaining embankments, the storage tank is not erected within 5 m of any erf or lot boundary, building, excavation, road and/or driveway, no source of ignition or potential ignition is brought within 5 m of the storage tank, symbolic signs prohibiting smoking and open flames, at least 300 mm x 300 mm in size, are affixed to all sides of the temporary installation, and a minimum of two 9 kg dry chemical fire extinguishers are installed within 10m of the temporary installation. The approved permit should be signposted at the storage area.
- 25.11 Such storage tank must be surrounded by a liquid-proof bund wall, volumetrically capable of containing the maximum proposed quantity of liquid, plus 10% of the volume of the tank.
- 25.12 Must ensure that the rated capacity temporary tank must provide sufficient ullage and spare capacity to permit expansion of the product contained therein by reason of the rise in temperature during storage.

26. Housekeeping and General Safeguarding

- 26.1 The Principal Contractor must install hoarding as deemed required by the building / construction activity (to isolate members of public from construction activity). The detail of which the hoarding will be constructed will be agreed as the Construction activities require from time to time but must be of solid material used to separate construction activities and should be of a minimum height of 1.8 metres.
- 26.2 The Principal Contractor must keep all construction activities / material / equipment within the barricaded/hoarded area. The hoarding must be maintained throughout the Project. The required No Entry signage and construction signage must also be displayed on the hoarding, and especially at the entrance gates. And all visitors to site must be required to sign in at the entrance gates, before entering the site.
- 26.3 The Principal Contractor must do site establishment as indicated by principal agent. These areas must be controlled at all times, no members of public allowed within laydown areas.
- 26.4 The Principal Contractor must not allow any informal traders in the construction area, no food stalls or similar operation may be allowed within the hoarded area of the construction site.



- 26.5 The Principal Contractor must appoint a Housekeeping Supervisor and ensure that all Contractors appoint their own Housekeeping Supervisors, to ensure that the Housekeeping on site is maintained on a daily basis.
- 26.6 The Principal Contractor along with his Sub-Contractors will ensure will conduct a weekly housekeeping inspection which will be recorded and kept on site.
- 26.7 The Principal Contractor and all the Contractors are not allowed to burn or deposit any waste on site it is to be discarded to an approved dump site or a recycling facility.
- 26.8 The principal contractor should ensure that all persons entering the site has undergone the site-specific induction and have received the required training and information regarding the site. There should be a classification done for each person entering the site to indicate visitor, permanent or short-term staff this should be done to address the hazards associated with the scope of each person entering and to proactively mitigate the site risk.
- 26.9 Contractors will furnish, erect, maintain and dismantle safety barricades required for their work, and co-ordinate all barricading belonging to any subcontractors.
- 26.10 It is required that rigid barricading is used on site and not only danger tape as danger tape is not sustainable.
- 26.11 Where rigid barricading is required, it must be capable to withstand a lateral force of 90.7kg or greater. It must be erected to have handrail, knee rail and where an access route is used below the area or where employees work below the area a toe board should also be fitted.
- 26.12 A site logistics plan is required from the principal contractor and must be displayed on site as well as communicated to each contractor working on site.
- 26.13 As per the Government Gazette - 6 March 2025: notice regarding amendment to General Safety Regulations, the appointed Principal Contractor must ensure that they take Regulation 13H. Housekeeping into consideration during the construction period.
- 26.14 The Principal Contractor must designate and clearly demarcate any plant and machinery that does not have a fixed location as a noise zone, where the noise level generated is at or above the noise-rating limit or the noise action level, and there is concurrent exposure to:
(i) ototoxic chemical agents; and/or
(ii) whole-body vibration that exceeds the action level specified in the Physical Agents Regulations.
- 26.15 The Principal Contractor must ensure that any workplace / construction site, or part of such a workplace / construction site, is designated and clearly marked as a noise zone where the noise level is at or above the noise-rating limit or the noise action level, and there is concurrent exposure to:
(i) ototoxic chemical agents; and/or
(ii) whole-body vibration that exceeds the action level specified in the Physical Agents Regulations.

27. Stacking and Storage on Construction Sites

- 27.1 The Principal Contractor and their appointed Sub-Contractors must appoint a Stacking & Storage Supervisor in writing.
- 27.2 The Principal Contractor and their appointed Sub-Contractor will conduct a weekly stacking & storage inspection which will be recorded and kept on file this must be completed by the appointed person.



- 27.3 Stacking and storage areas should be kept up to standard and all materials stacked and stored must be done in accordance with the legal requirements.

28. Construction Employees' Facilities

- 28.1 The Principal Contractor must have, as a first activity, chemical toilets in the site establishment to ensure that all construction employees have the facility from the outset.
- 28.2 The Principal Contractor must have an Employee Facilities Inspector appointed in writing, and this person must be required to complete a weekly facilities Checklist which will be kept in the health and safety file and made available upon request.
- 28.3 Sheltered eating facilities shall be provided to employees in line with the Construction Employee Facilities Regulations - Construction Regulations 30.
- 28.4 Drinking water areas to be clearly indicated and sign posted on site and must be available from site start up.
- 28.5 The drinking water utilised on site should be tested on a regular basis if independent water tanks or systems will be utilised to ensure that the water is safe for human consumption.
- 28.6 Water taps not fit for human consumption must be clearly signposted to indicate unfit for use.

29. Health & Safety Committee and Representative

- 29.1 The Principal Contractor must ensure that at least 1 representative from each appointed Contractor attend at least one safety meeting per month chaired by the Principal Contractor. The Health and Safety Chairman from the Principal Contractor must be nominated and appointed in writing.
- 29.2 The Principal Contractor and their appointed Contractors must in writing appoint a Health & Safety representative, irrespective of whether the Contractor employ twenty or less employees for this Project.
- 29.3 Following any recordable injury or serious incident, the principal contractor shall hold a site-wide stand down on the same day - to communicate what happened and reinforce the need for constant safety vigilance.
- 29.4 The principal contractors site manager / construction manager shall hold weekly supervisory safety meetings to show leadership for the health & safety program, and to discuss safety incidents, rule changes, educational material, and continuous improvements.

30. Ladders

- 30.1 The Principal Contractor and all appointed Contractors must appoint a Ladder Inspector, and this person must be required to complete a Ladder Checklist at least once a month.
- 30.2 All ladder on site must be numbered and identified as per General Safety Regulation 13.
- 30.3 The ladders must be inspected before each use and a copy of the inspection register must be kept in the health & safety file of the applicable contractor.



- 30.4 When planning work activities, the contractor is urged to plan the activities in such a manner to limit the use of ladders on site where able conduct the work from a safer alternative working platform.
- 30.5 All straight and extension ladders must be fitted with non-slip feet and when used be tied and secured at the top and bottom of the ladder or should be held when in use.
- 30.6 Aframe ladders must be provided with non-slip feet and must be held and secured when in use.
- 30.7 Only one person can work from a single ladder at any given time.
- 30.8 Under no circumstances may any conductive ladders be used on site where work is done near electrical installations.
- 30.9 All ladders must be free from slippery substances and must be affect free, any ladders that does not comply must be removed from the premises immediately.
- 30.10 Where ladder work exposes a person to a fall of more than 1.8metres where the employee cannot be safeguarded from the fall risk, a safety harness must be worn and must be secured to a suitable anchorage point.
- 30.11 Where no secured anchorage is possible an alternative access method should be used such as scaffolding or mobile elevated working platform. This does not apply to the use of a straight or fixed ladder used for access to a different level. Unless there are other conditions that increase a fall exposure.
- 30.12 Step ladders must be fully extended and must be locked when in use, the ladder that serves a platform for transition must be extended at least 1metre past the landing/platform for safe access.
- 30.13 Workers are not allowed to carry tools, materials and or equipment in their hands while climbing a ladder. Tools should be secured to a tool belt or similar means of securing the tools.

31. Hand tools

- 31.1 All hand tools on site to be identified, numbered, and placed on register.
- 31.2 The principal contractor along with his Sub-Contractors will appoint in writing a competent person to conduct monthly inspections to ensure that hand tools are not damaged or altered in anyway e.g. mushroom heads, loose handles, appropriate grip handles, etc. which will be recorded on the above-mentioned register and kept on site.
- 31.3 Only qualified and trained workers are allowed to install, adjust and/or operate laser equipment.
- 31.4 Areas in which lasers are used shall be provided with the required warning signage to indicate the usage of the laser in the area and the required PPE must be provided to the employees working in the affected area.
- 31.5 The laser beam may not be directed at any employees.

32. Portable Electrical Equipment

- 32.1 All Portable electrical tools on site to be identified, numbered, and placed on register.



- 32.2 The Principal Contractor along with his Sub-Contractors will appoint in writing a competent person to conduct monthly inspections to ensure that Potable electrical tools are not damaged or altered in anyway e.g., loose electrical connections, exposed wiring, earth wire not connected, crack or damage to equipment, safeguard not removed or damaged, etc.
- 32.3 All cables, cords, leads, and hoses in a building shall be strung by nonconductive means at least 2.1metres overhead, kept to the perimeter of the building, or otherwise protected to prevent tripping hazards.
- 32.4 Where electrical work is required near wet surfaces or weather conditions, then the equipment used should be IP65 rated.

33. First Aid, Emergency Equipment and Procedures

- 33.1 The Principal Contractor must ensure that the appointed Contractors with 5 and more employees have a first aid box and that Contractors with 10 and more employees have a first aid box with at least one person on site with a first aid certificate.
- 33.2 Sufficient firefighting equipment must be available inside each of the construction vehicle and mobile plant being used on site.
- 33.3 Sufficient amount of firefighting equipment must also be positioned on site in case of an emergency and the employees on site must be trained in the procedure on how to use the equipment if needed.
- 33.4 Site Emergency Evacuation Procedures must be compiled by the Principal Contractor all employees and Contractors on site must be trained on the Emergency Procedures. This Procedure must be updated as and when needed.
- 33.5 There must also be an up-to-date emergency contact register displayed on a notice board / site office / access gate area and this list must be kept updated.
- 33.6 An emergency evacuation diagram of the site must also be compiled clearly indicating the assembly points and areas of evacuation.
- 33.7 The Principal Contractor must also appoint in writing a competent Emergency Evacuation Coordinator.
- 33.8 Where applicable the existing facilities emergency evacuation procedure must also be incorporated into the site procedure to ensure that the existing facility is not negatively affected in case of an evacuation process obstructing their areas.

34. Incident Reporting and Investigations

- 34.1 In the event of a fatal incident, it will be required that the Principal Contractor and all the appointed Contractors who can have an influence on the incident, that they hand in their Health & Safety files with immediate effect to Cairnmead.
- 34.2 Site incidents are to be reported to Cairnmead timeously within the time of them having occurred on site, but not exceeding 30minutes after the incident has occurred.
- 34.3 Site incident reporting procedures must be compiled and communicated with all employees on site.



- 34.4 An incident flash report must be submitted to all applicable parties on the same day the incident occurred.
- 34.5 Full incident investigation reports for each incident must be completed within three days after the incident occurred on site and must be submitted to the client.
- 34.6 The incident report must clearly indicate the corrective actions that has been taken to prevent a reoccurrence of the incident. Such corrective actions are to be taken without any delay and must be implemented within no more than three days after the incident occurred.
- 34.7 History of the Incident - This will give a description of the project in general, the time and date, the injured persons' name, designation, ID number, description of the area, activities, and the extent of the injuries the person incurred.
- 34.8 The Principal Contractor must ensure that any incident that occurs on site that falls under a Section 24 incident must be reported to the provincial director in the form of WCL1 or WCL2 within 7days, and in consequence of such an incident a person dies, becomes unconscious, suffers the loss of a limb or part of a limb, or is injured or becomes ill to such an degree they the person is likely to die or suffer a permanent physical defect, such incident shall forthwith be reported to the provincial director by telephone and followed up with an email regarding the incident information.
- 34.9 The Principal Contractor must ensure that any Incident Investigation is reflected in a Report, and this Report should deal with the detail of the Incident under at least the four headings listed below:
- 34.8.1. History of the Incident - This will give a description of the project in general, the time and date, the injured persons' name, designation, ID number, description of the area, activities, and the extent of the injuries the person incurred.
- 34.8.2. Applicable legislation - The investigator must list here in his/her opinion which specific Sections of the Act and Regulations as well as incorporated safety standards are applicable/relevant to the incident.
- 34.8.3. Evidence - The investigator must list here all the evidence which was taken to consider in the investigation. For example: photos, statements, documentation out of the Health and Safety File and drawings/sketches. This is an example of the types of evidence, but there may be more.
- 34.8.4. Conclusions - The investigator should compare the evidence with the applicable legislation and highlight where there was no compliance.

35. Welding, Flame Cutting, Soldering and Similar Operations

- 35.1 The Principal Contractor will as far as reasonably possible ensure that all hot works are contained to one area.
- 35.2 Ensure that all equipment is inspected and recorded on a register placed in the Health and Safety file and available upon request.
- 35.3 Ensure that no Hot Works will be permitted to take place in any confined space unless deemed safe in them of the Regulations to do so.
- 35.4 That all Combustibles / Flammables liquids are removed from the area where hot works is taking place.
- 35.5 That the necessary firefighting equipment is available in the area where hot works is taking place along with an appointed competent person to use such equipment correctly.
- 35.6 Ensure that all sparks are contained by use of welding screens or similar.
- 35.7 If and where applicable hot work permits are to be obtained.



- 35.8 Compressed gas cylinders shall always be properly secured and brought into the building only as needed and removed as soon as work is completed daily or as tanks are emptied.
- 35.9 Flame cutting and gas welding equipment must be fitted with flash back arrestors between both the torch and hose connection and regulator and hose connection ends.
- 35.10 Cylinders should have a three -part identification tag attached to all cylinders.
- 35.11 Oxygen and fuel gas cylinders, when not in use, must be stored 6.1metres apart or separated by a 1.5 metre fire resistant barrier.
- 35.12 Cylinders must be stored in an upright position and must be chained or secured in a similar manner to a cage or designated storage area.
- 35.13 Smoking and the use of smokeless tobacco, including the use of e-cigarettes, is not permitted inside and buildings, temporary offices, or near flammable liquid storage areas and is allowed only in designated area.

36. Blasting

Not Applicable

37. Asbestos

Not Applicable

38. Existing Services and Existing Site Conditions

- 38.1 All services like water, electricity and gas will be pointed to the Principal Contractor by the professional team appointed by the Client as far as reasonably possible. There must be a documented proof that the services for water, storm water, sewer, gas (if applicable) and electricity was terminated successfully. For the gas and electricity there must be a Certificate of Compliance to say it was terminated.
- 38.2 Where the Principal Contractor or their appointed Contractor intends to work near, under or above ground where Power lines are located, all such activities must be conducted in line with the legal requirements and adherence to the safe work distances must always be monitored by the Principal Contractor.

39. Ergonomics

- 39.1 The principal contractor must ensure that the required information, instruction, and training are provided to the employees / workforce on site relating to their work activity. The information must be in line with the ergonomic risk assessment requirements which should address the risk of exposures and mitigating or eliminating procedures to follow.



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- 39.2 The required ergonomic risk assessment should address all aspects as stipulated in the Ergonomics Regulations. The risk assessment must be performed by a competent person and should not exceed intervals of two years.
- 39.3 Risk control measures should be implemented before employees are tasked to commence with their activities on site, all employees are also to be trained on the ergonomic risk assessment. The procedure of reporting, medical surveillance and all factors relating to the ergonomics risk assessment must be made clear to each employee to enable the employees to comply to the requirements.

40. Other Special Conditions

- 40.1 The Principal Contractor must inform Cairnmead, on the same day, when the Department of Labour issue any written notices for a non-compliance on the site, and a copy of such notice must be forwarded, as soon as possible on the same day, to Cairnmead. The Principal Contractor must not submit any reports to the Department of Labour unless verified by Cairnmead.
- 40.2 The working hour on site is as per the legislated hours in terms of SANS 10400. No person shall during any building, demolition or excavation work use any machine, machinery, engine, apparatus, which in the opinion of the local authority may unreasonably disturb or interfere with the amenity of the neighbourhood, on a public holiday or Sunday, before 06:00 or after 17:00 on any Saturday and before 06:00 or after 18:00 on any day other than those days contemplated above.
- 40.3 The prohibition of the above shall not apply in any circumstances in which the use of such machine, machinery, engine, apparatus, tool, or contrivance, is urgently necessary to preserve the life, safety, or health of any person, is urgently necessary to preserve property, has been authorized by the local authority.

The Principal Contractor must take note of the details below for the Local Department of Labour offices:

Contact person: Mr. Lesibe Raphela

Telephone number: 0123095186

E-mail address: lesibe.raphela@labour.gov.za

Issued by Cairnmead on behalf of Cricket South Africa (NPC)



TG Botes
CHSA/155/2024
For: Cairnmead
Date: 13 October 2026



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ANNEXURE 1 – Legal Compliance Audit Guideline

Administrative Requirements / Duties
Induction Training
Medical Fitness Certificates (Annexure 3)
Appointment Letters & Proof of Competency
Contract with Client / Principal Contractor
Copy of The OHS Act & Regulations
Health and Safety Plan
Health & Safety Policy
Letter of Good standing
Mandatory Agreement (Sec 37(2))
Principal Contractors Appointment / Contractors Appointment
Notification of Construction Work / Construction Work Permit
ID Copies and Next of Kin Information
Recording of Incidents (Annexure 1, WCL2 & Incident reporting procedure)
Risk assessments, safe work procedures, method statements and risk review and monitor plan
PPE Issue Register
Safety Meeting Minutes and attendance
Toolbox talks / DSTI's
Registers and Documentation (Where Applicable)
Bulk mixing plant
Construction Employee Facilities
Construction Vehicles & Mobile Plant
Demolition Work
Excavation Work
Explosive Actuated Devices
Explosives
Fall Arrest Equipment
Fall Protection Plan
Material Hoist
Mobile Crane



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Rope Access
Scaffolding
Suspended Platforms
Temporary Works
Welding & Flame Cutting / Hotwork
Housekeeping
Stacking & Storage
Temporary Electrical Installations
Fire Precautions
First Aid
Hand tools
Health & Safety Representative
Ladders
Lifting Tackle
Storage of Hazardous Chemicals
Emergency Preparedness / Plan / Procedures
Vessels Under Pressure
Lifts & Escalators
Portable Electric Tools



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ANNEXURE 2 – Monthly Projects Statistics Form

	CAIRNMEAD MONTHLY PROJECTS STATISTICS FORM	CICPS 001
		REV 03
		REV DATE 28/09/2023
		PAGE 28.29
		REG NO 26829_HS_01

PROJECT NAME:	PRINCIPAL CONTRACTOR:
Cricket South Africa - Buffalo Park Stadium LED Flood Lights	Tender

MONTH:	☐ Tick ☐ Jan ☐ Feb ☐ Mar ☐ Apr ☐ May ☐ Jun ☐ Jul ☐ Aug ☒ Sep ☐ Oct ☐ Nov ☐ Dec
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STATISTICS SUMMARY

(Statistics is combination of all Contractors working on project – Principal Contractor and subcontractors)

Total hours worked for the month:	Lost Time Incidents for the month:	Medical Treatment Cases for the month:
First Aids cases for the month:	Near Misses reported for the month:	Total hours worked from commencement (THW):
Total LTI from commencement:	Total MTC from commencement:	Total First aid cases from commencement:
Total Near Misses from commencement:	LTIR Rate: (LTI +MTC) / THW) *200,000	

SHORT DESCRIPTION OF MONTHLY INCIDENT REPORTED

(First Aid Cases, Medical Treatment Cases, Lost Time Incidents and Near Misses)

FIRST AID CASES

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CAIRNMEAD MONTHLY PROJECTS STATISTICS FORM

CICPS	001
REV	02
REV DATE	05/10/2022
PAGE	29.29
REG NO	26829_HS_01

MEDICAL TREATMENT CASES

LOST TIME INCIDENTS

NEAR MISSES

**PRINCIPAL CONTRACTOR
CONSTRUCTION MANAGER
CR8(1) NAME & SURNAME:**

SIGNATURE:

**PRINCIPAL CONTRACTOR
SAFETY
OFFICER NAME & SURNAME:**

SIGNATURE:



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PROJECT BASELINE RISK ASSESSMENT

Project: Cricket South Africa - Buffalo Park Stadium LED Flood Lights

Our Offices

Building C1
Waterkloofrand Corporate Park

358 Buffelsdrift Street
Erasmusrand
Pretoria, 0165

Contact Us

012 346 5752
admin@cairnmead.co.za



Baseline Hazard Identification and Risk Assessment Register ©

1

Building
Projects

2

Methodology

3

HIRA

4

Risk
Assessment

Configuration Management

Prepared By	Cairnmead Industrial Consultants (Pty) Ltd	Register Number	CIC 26829_HS_01
Approved By	TG Botes Pr. CHSA/155/2024	Revision	2024/09/17
Issue Date	13 Oct 26	Project:	Cricket South Africa - Buffalo Park Stadium LED Flood Lights

2. Methodology

Seriousness Rating	Description
1	No injury or illness
2	First-aid treatment case, medical treatment case and temporary discomfort case
3	Medical mitigation case; occupational disease with non-permanent effects
4	Lost Time injury. Occupational disease with permanent consequences e.g., hearing loss
5	Fatality (as a result of incident or occupational disease e.g., asbestosis)
6	Multiple fatalities or multiple permanent occupational diseases

Determine the likelihood that the event will occur	
Category	Criteria
E	• 99% probability, or • Impact is occurring now, or • Could occur within "days to weeks"
D	• >50% probability, or • Balance of probability it will occur, or • Could occur within "weeks to months"
C	• >20% probability, or • May occur shortly but a distinct probability it will not, or • Could occur within "months to years"
B	• >5% probability, or • May occur but not anticipated, or • Could occur within "years to decades"
A	• >5% probability, or • Occurrence requires exceptional circumstances, or • Only occurs as a "100-year event"

Plot consequence & likelihood in risk matrix to determine risk priority level						
Seriousness	6	III	II	I	I	I
	5	III	II	II	I	I
	4	IV	III	II	I	I
	3	IV	III	II	II	I
	2	IV	IV	III	II	II
	1	IV	IV	III	III	III
		A	B	C	D	E
	Likelihood					

Evaluate the risk based on the level of risk determined, as well as the effectiveness of the current risk controls			
Priori-ty	Risk Ranking	Action Required	Escalation
I	Very High	Immediate action required	Report to CEO and Client Agent
II	High	Strong Mandatory action required	Report to Contractors Manager and Client Agent
III	Medium	Action required, possibly at administrative level	Report to Contracts Managers
IV	Low	Minor or no action required	No escalation required

3. Hazard Identification, risk assessment and determining controls

The organization shall establish, implement, and maintain a procedure(s) for the on-going hazard identification, risk assessment, and determination of necessary controls.

The procedure(s) for hazard identification and risk assessment shall consider:

- a) routine and non-routine activities;
- b) activities of all persons having access to the workplace (including contractors and visitors);
- c) human behaviour, capabilities and other human factors;
- d) identified hazards originating outside the workplace capable of adversely affecting the health and safety of persons under the control of the organization;
- e) hazards created in the vicinity of the workplace by work-related activities under the control of the organization;
- f) infrastructure, equipment, and materials at the workplace, whether provided by the organization or others;
- g) changes or proposed changes in the organization, its activities, or materials;
- h) modifications to the OH&S management system, including temporary changes, and their impacts on operations, processes, and activities;
- i) any applicable legal obligations relating to risk assessment and implementation of necessary controls;
- j) the design of work areas, processes, installations, machinery/equipment, operating procedures, and work organization.

The organization's methodology for hazard identification and risk assessment shall:

- a) be defined with respect to its scope, nature, and timing to ensure it is proactive rather than reactive; and
- b) provide for the identification, prioritization and documentation of risks, and the application of controls, as appropriate.

For the management of change, the organization shall identify the OH&S hazards and OH&S risks associated with changes in the organization, the OH&S management system, or its activities, prior to the introduction of such changes.

Cairnmead Industrial Consultants has developed a site auditing system to measure the compliance of sites and to categorize the specific activities under High-Risk Activities of which we have 16 different categories identified. This project baseline risk assessment will indicate under which of the 16 categories each item will fall, and it is the responsibility of the principal contractor and their appointed contractors to implement task specific risk assessments to eliminate, reduce or mitigate each of the risks identified. These categories are as follows and are indicated by the individual icons.



Hazard Identification, Risk Assessment and Controls

Before construction start, the Baseline Risk Assessment is a theoretical assessment before the construction start in order to highlight the foreseen hazards, but this is not intended to be seen as an absolute 100% of hazards that may occur.

The Principal Contractor or their appointed Contractor should take this and whatever hazards that may be presented, due to the unique process which get used to execute the specific construction activity.

This Baseline Risk Assessment provides recommendations regarding the control measures, it is however the Principal Contractor duties to ensure that detailed control measures are addressed in the applicable unique Risk Assessment by the Principal Contractor or their appointed Contractor. The risk rating is deliberately rated high because there are no controls in this and without the required controls the possibility of the potential risk is very high, as indicated.



1. CONSTRUCTION WORK PERMIT

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 001	Construction Work Permit	- Construction work commences without an approved permit in place. - Construction work permit application not submitted to the DOL within the prescribed timeframe. - Construction work permit not displayed at the entrance to the site as prescribed. - Construction work permit not available in the health and safety file on site.	Cairnmead Recommendations: Refer to section 3 (Construction Work Permit) in the Client Health and Safety specification and Construction Regulation 3.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



3. CLIENT DOCUMENTATION

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 003	File Approval as per OHS Requirements and Client Specification	- Work commencing prior to the file being available and approved. - No valid registration with COID. - Health and Safety plan not site specific / not in file. - Employees appointed not in possession of required or valid competencies as per Client Spec and OHS Act.	Cairnmead Recommendations: Refer to section 5 (Client documentation) and section 7 (Principal Contractor and Contractors) in the Client Health and Safety specification and Construction Regulations.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



4. DUTIES OF THE DESIGNER

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 004	Client and Designer Duties	• Designers not appointed in writing and not made aware of their duties. • Designers not following their legal duties throughout the project. • Designer not taking into consideration the health and safety specification. • Designer not providing the Client the required information pertaining to the structure.	Cairnmead Recommendations: Refer to section 6 (Duties of the Designer) in the Client Health and Safety specification and Construction Regulations 6.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



5. PRINCIPAL CONTRACTOR AND CONTRACTORS

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 005	Medical certificate of fitness and induction Required legal documentation as per OHS act.	• Induction being conducted on employees without them being in possession of a valid medical certificate of fitness in the form of an Annexure 3. • Documentation not site-specific. • Policies and procedures not in place and approved. • Employees not trained on policies and procedures and legal requirements. • Employees entering site not being inducted.	Cairnmead Recommendations: Refer to section 7 (Principal Contractor and Contractors) in the Client Health and Safety Specification and Construction Regulations 7.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



6. MANAGEMENT AND SUPERVISION ON SITE

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 006	Inadequate management / supervision on site	• No Construction Manager appointed / person appointed does not have the required knowledge / experience / qualification. • No Construction Supervisor / Assistant construction supervisor appointed / person appointed does not have the required knowledge / experience / qualification. • No safety officer appointed. • People not appointed as required in terms of the Occupational Health and Safety Act / Construction Regulations and Client Health and Safety Specification. • Inadequate supervision on site.	Cairnmead Recommendations: Refer to section 7 (Principal Contractor and Contractors) in the Client Health and Safety Specification and Construction Regulations 7.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



7. RISK ASSESSMENTS

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 007	Risk Identification	• Method of works not site specific. • Risk identification not in place or conducted. • Risk identification not site-specific. • Risk controls not sufficient. • Risk Assessor not competent. • Continues risk evaluation not conducted. • Method statements / risk assessments / safe work procedures not approved before work commences. • Method statement / risk assessment / safe work procedure not communicated with employees involved in the activity before work commences.	Cairnmead Recommendations: Refer to section 9 (Risk Assessments) and Construction Regulations 9.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



8. FALL PROTECTION

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 008	Fall protection	- No site and task specific fall protection plan available for the work at hand. - Employees not trained on the fall protection plan. - Fall protection plan not compiled and approved by a competent and approved fall protection planner. - Fall protection plan not implemented and maintained throughout project.	Cairnmead Recommendations: Refer to section 10 (Fall Protection) and Construction Regulations 10.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.
BLD 009	Working at heights / elevated positions	- Falling objects. - Not hooking safety harness catch to anchor point. - Anchor point not secure or strong enough. - Not keeping all debris, rocks, scraps and rubble away from the work area edges. - Employees working at heights not certified to work at heights in accordance with the SAQA requirements for working at heights training. - No rescue plan in place for employees working at heights. - Employees allowed to work at heights who is not medical fit and not in possession of a valid medical certificate of fitness. - Deliberately dropping materials or equipment.	Cairnmead Recommendations: Refer to section 10 (Fall Protection) and Construction Regulations 10.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.
BLD 010	Edge barricading Erecting & dismantling of edge barricading.	- No solid edge barricading installed on all open edges of buildings / excavations where there is a fall risk to employees. - Edge barricading not secured into position. Only installing guard rails and no knee rails in scaffolding tubing or similar system. - Edge barricading not inspected daily. - Unauthorized removal of edge barricading.	Cairnmead Recommendations: Refer to section 10 (Fall Protection) and Construction Regulations 10.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.
BLD 011	Roof structure installations	- Falling down. - Roof structure not secured properly and if sufficient temporary bracing is not in place, structure could fall. - Tools falling down top areas below. - Incorrect levels and alignment. - Employees erecting structure falling from height.	Cairnmead Recommendations: Refer to section 10 (Fall Protection) and Construction Regulations 10.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.
BLD 012	Roof coverings / Sheeting / Tiling etc.	- If not secured properly, the covering could fall. - Tools could fall down. - Overloading of structure with covering. - Falling objects. - Not hooking safety belt catch to anchor point. - Anchor point not secure or strong enough. - Deliberately dropping materials or equipment.	Cairnmead Recommendations: Refer to section 10 (Fall Protection) and Construction Regulations 10.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



9. STRUCTURES

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 013	Structures	• No structure inspections being done to prevent any part of the structure from being overloaded or becoming unstable. • The structure information not being made available on site to ensure the designs are being complied with. • Structure records and maintenance not done by the owner. • Structure not inspected as legislated in the regulations.	Cairnmead Recommendations: Refer to section 11 (Structures) and Construction Regulations 11.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



11. EXCAVATIONS

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating	Legal Reference

BLD 015	Excavations: Digging of excavations using plant and manual labour. Working in and around excavations Trenches	• Materials can fall onto employees due to dislodgement of earth or rock. • Employees not able to enter or exit the excavation safely. • Inappropriate placement of excavated materials, plant or other loads close to/on the edge of the excavation. • Employees being trapped inside excavation due to the collapse of the excavation. • Employees being struck by moving plant working in and around the excavation. • Unstable / loose material causes unsafe conditions. • Inadequate warning signs of deep excavations for employees in close vicinity. • Employees being exposed to hazardous atmosphere in an excavation including welding fumes, gases and arcs. • Excavation work taking place underneath or close to overhead services (power lines) and ground mounted services. • Excavation positioned close or nearby existing structures. • The sides of the excavation are not adequately supported by means of shoring / Shoring installed not of adequate design. • Excavations not being inspected daily by the competent appointed Excavation inspector. • Employees falling into excavation due to inadequate barricading. • Employees being exposed to vibration and high noise levels. • The presence of or possible inrush of water (example: ground water) and the control thereof. • Excavations in public areas not properly barricaded / visible. • Use of explosives inside excavations.	Cairnmead Recommendations: Refer to section 13 (Excavations) in the Client Health and Safety specification and Construction Regulation 13.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.
BLD 016	Soil ramp Building of soil ramp / Construction vehicles & mobile plant driving up and down ramp / Pedestrians walking up and down ramp / Removal of soil ramp.	• No solid barricading along the open edges of the ramp. • Unsafe access area on ramp used by employees / Uncontrolled interaction between pedestrians and construction vehicles / No designated walkway area created for employees to walk down ramp. • Construction vehicles and mobile plant utilizing ramp during inclement weather.	Cairnmead Recommendations: Refer to section 13 (Excavations) in the Client Health and Safety specification and Construction Regulation 13.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.

BLD 017	Piling	• Piles located in positions with restricted working space, e.g. corners of site and adjacent to public areas outside the site - Personal injury from falling debris, crushing. • Unsafe removal of guards or auger cleaners. Risk to third parties. • Piling near to the top of slopes - Slope failure, rig overturning. • Working in excavations - Access ramps and wall props can impede working space. • Inadequately designed / constructed / maintained working platforms - Rig overturning, unsafe working conditions for operatives. • Underground services - Personal injury or death, loss of amenity, delay to project. • Overhead services - Injury to workforce, electrocution, fire, loss of amenity, and delay to project. • Open pile bores or wall panel excavations, with or without support fluid - Operatives falling into open bore or excavation, injury and possible drowning. • Displaced pile/panel support fluid during concreting - Contamination of open water courses. • Ground water contamination - Damage to water resources. • Immediate environmental impact. • Contaminated soil - Infection of piling operatives, contamination of the site and the surrounding area. • Pile falling from clamp. • Completed piling holes left open. • Rig operator not competent and not appointed. • System used for employee to gain access into piling hole not approved by the Department of Labour and no load test available.	Cairnmead Recommendations: Refer to section 13 (Excavations) in the Client Health and Safety specification and Construction Regulation 13.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.
BLD 018	Lateral Support	• Unsafe platforms used to work from. • No screens in place to prevent gunnite from spraying into public area. • Dust level not maintained and controlled. • Lateral support design not available. • Method statement not approved by Engineer.	Cairnmead Recommendations: Refer to section 13 (Excavations) in the Client Health and Safety specification and Construction Regulation 13.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.
BLD 019	Shoring	• Temporary works / shoring not designed by appointed Designer. • Temporary works / shoring not being signed off by appointed Designer. • Temporary works / shoring not inspected daily by competent person. • Temporary works / shoring not inspected immediately after inclement weather. • Contractor using defective temporary works / shoring equipment. • Erection of temporary works / shoring structure done incorrectly. • Dismantling of temporary works / shoring structure done incorrectly.	Cairnmead Recommendations: Refer to section 13 (Excavations) in the Client Health and Safety specification and Construction Regulation 13.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



13. TUNNELING AND CONFINED SPACE

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 021	Working in confined spaces	• Poisonous gas, fume or vapour present in confined space. • Lack of oxygen for employees working in confined space area. • The presence of flammable gasses in confined space can lead to fire or explosion. • Employees being exposed to high noise levels in confined space. • Employees being exposed to extreme temperatures / changes in temperature in confined space. • Insufficient safe access for employees in and out of work area. • Risk of exposure to hazards associated with lack of adequate ventilation for activities in confined spaces.	Cairnmead Recommendations: Refer to section 15 (Tunneling and Confined Space) in the Client Health and Safety Specification and General Safety Regulations 5.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



14. SCAFFOLDING

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 022	Scaffolding Erecting & dismantling Access scaffold towers Working operations on scaffolding Specialized scaffolding	• Screens / aprons not installed on scaffolding adjacent to public areas. • Scaffolding not being erected in accordance to SANS 10085 standards. • Trained and appointed scaffolding team not available on site. • Employees working at heights not certified to work at heights in accordance with the SAQA requirements for working at heights training. • Employees allowed to work at heights who is not medical fit and not in possession of a valid medical certificate of fitness. • No rescue plan in place for employees working at heights. • Scaffolding erected on uneven ground level. • No sole boards installed underneath scaffold base jacks when erected on soil surface. • Scaffolding not inspected daily by competent, appointed Scaffold inspector. • No design available for basic or special scaffolding. • No sign on scaffolding indicating safe / unsafe for use. • Area below scaffolding not barricaded off when being dismantled. • Materials not being lowered to ground level correctly while scaffolding are being dismantled. • Scaffolding not sufficiently tied into existing building / structure when required.	Cairnmead Recommendations: Refer to section 16 (Scaffolding) in the Client Health and Safety Specification and Construction Regulations 16 and SANS 10085-1:2024.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



20. CRANES AND LIFTING EQUIPMENT

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 028	Mobile elevated working platform operations	- Operator not trained to operate MEWP. - Operator not conducting daily pre-inspection before operating MEWP. - No valid load test available. - Operator not medically fit to operate MEWP. - Operator falling from machine basket during work operations. - Operator trapped between part of the basket and a fixed structure, e.g. when manoeuvring in confined overhead areas. - Operator operating machine on uneven surfaces and possibility of machine overturning. - The vehicle may collide with pedestrians, overhead cables or nearby vehicles. - Operator using MEWP in close proximity to overhead power lines. - Materials not properly secured in basket of machine, falling from elevated positions. - Working platform not kept tidy, tripping hazards. - Outriggers not extended and chocked before raising the platform. - Work platform not fitted with effective guard rails and toe boards. - Employees not wearing a harness with a short work restraint lanyard or not securing it to a suitable manufacturer provided anchorage point within the basket to stop the wearer from getting into a position where they could fall from the carrier where there is a risk of falling. - Working in high winds can tilt platforms and make them unstable. - Gate of the platform not closed while in use.	Cairnmead Recommendations: Refer to section 22 (Cranes and Lifting Equipment) in the Client Health and Safety Specification and Construction Regulations 22 and Driven Machinery Regulations 18.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.
BLD 029	Use of lifting tackle	- Use of unsafe lifting tackle. - No test certificate available for lifting tackle. - Lifting tackle not inspected by competent LMI at required intervals. - Lifting tackle not conspicuously and clearly marked. - Defective lifting tackle being used on site. - Lifting tackle exposed to extreme weather conditions. - Lifting tackle not stored correctly.	Cairnmead Recommendations: Refer to section 22 (Cranes and Lifting Equipment) in the Client Health and Safety Specification and Construction Regulations 22 and Driven Machinery Regulations 18.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.

BLD 030	Tower cranes Erection of tower crane. Tower crane work operation. Dismantling of tower crane.	• Tower cranes not being erected by trained employees. • Road closures needed for erection of tower cranes not planned and controlled. • No wayleave in place for road closures. • Documentation required for tower crane erection not in place as per legal requirements. • Aviation authorities not notified. • Crane bases / establishment carried out incorrectly. • Engineers design and final approval of tower crane base not available / in place. • Erecting tower crane during poor weather conditions (strong winds / inclement weather etc.) • Employees / erectors falling from height while erecting tower crane. • Area where lifting activities is taking place not sufficiently barricaded off. • No warning signs of lifting activities / overhead lifting in place. • No handover certificate issued to client after erection process is complete. • No load test carried out on crane. • No COC available for electrical supply to tower crane.	Cairnmead Recommendations: Refer to section 22 (Cranes and Lifting Equipment) in the Client Health and Safety Specification and Construction Regulations 22 and Driven Machinery Regulations 18.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.
BLD 031	Rigging & banksman activities	• Rigging study not available / done for intricate lifting activities. • Competent / certified rigger not appointed for rigging activities of 5 tons and more. • Competent / certified banksman not appointed for lifting operations. • Not sufficient number of competent banksmen appointed for lifting activities.	Cairnmead Recommendations: Refer to section 22 (Cranes and Lifting Equipment) in the Client Health and Safety Specification and Construction Regulations 22 and Driven Machinery Regulations 18.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.
BLD 032	Crane handling on site Mobile crane. Crane truck.	• The loading of the crane including the outriggers can do damage to underground services. • Unsafe lifting methods. • No competent banks man / rigger appointed and present during lifting processes. • Operator of crane not appointed and not competent. • Operator not conducting pre-start check on crane before operating. • Load being lifted is too heavy. • Employees walking underneath a suspended load. • Operators' visibility restricted during the lifting process. • Incorrect lifting tackle used to lift materials. • Load swinging / load out of control - employees being struck by load. • Toppling over / falling over of crane due to overloading. • Mobile crane / crane truck positioned on uneven surface / close to excavation edge. • No spreader plates / sole plates placed underneath the outriggers of the mobile crane / crane truck if required.	Cairnmead Recommendations: Refer to section 22 (Cranes and Lifting Equipment) in the Client Health and Safety Specification and Construction Regulations 22 and Driven Machinery Regulations 18.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.

BLD 033	Man cage / Lifting cradle / Personnel cage	- Employee overreaching whilst carrying out work from a man cage. - Man cage not registered / approved with the Department of Labour. - No design available for man cage. - No load test available for man cage. - Man cage used during inclement weather conditions. - No risk assessment conducted for the lifting of persons.	Cairnmead Recommendations: Refer to section 22 (Cranes and Lifting Equipment) in the Client Health and Safety Specification and Construction Regulations 22 and Driven Machinery Regulations 18.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.
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21. CONSTRUCTION VEHICLE, MOBILE PLANT AND PUBLIC ROADS

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 034	Operating of construction vehicles and mobile plant Transport of employees & materials to site. Operating plant on site.	- One construction vehicle can bump into another. - A construction vehicle can bump/drive over pedestrians. - Unauthorized use of construction vehicle and mobile plant. - Operator of construction vehicle not appointed and not competent. - No reverse hooter installed / not in working condition. - Operator not conducting pre-start inspection on machine before operating. - Operator leaving the vehicle / plant unattended whilst the engine is still running or with the key still in the ignition. - Operator speeding on site. - Construction vehicle / mobile plant parked at an incline without stop blocks being put in place behind the wheels. - Construction vehicle or mobile plant overturning. - Construction vehicles and mobile plant operating in close vicinity or next to power lines. - Inclement weather. - Unauthorized / unsafe transportation of employees. - Integration between pedestrians and construction vehicles not planned and controlled.	Cairnmead Recommendations: Refer to section 23 (Construction Vehicle, Mobile Plant and Public Roads) in the Client Health and Safety Specification and Construction Regulations 23.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



22. ELECTRICAL INSTALLATIONS

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 035	Solar PV Installation	- Material loaded onto roof area not being secured. - Employees not provided with safe access to the installation area. - Employees not secured while working at fall risk positions. - Material handling on roof area not done in a safe manner to prevent displacement of existing roofing. - Material not placed in correct area damaging the current roof structure. - Hoisting of material not done in a safe manner with the use of correctly certified equipment. - PV installation not done under the supervision of a competent person. - Employees not trained on the risks of the work taking place at fall risk positions. - Working areas not demarcated and secured.	Cairnmead Recommendations: Refer to section 24 (Electrical Installations) in the Client Health and Safety Specification and Construction Regulations 24.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.
BLD 036	Battery Energy Storage System (BESS) installation	- Possible Electrical shock. - Manual handling of unbalanced or unstable load can result in equipment falling. - Compromised battery compartments. - Heat during the day - Batteries generate heat within enclosed building / containers.	Cairnmead Recommendations: Refer to section 24 (Electrical Installations) in the Client Health and Safety Specification and Construction Regulations 24.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.
BLD 037	Electrical installations	- Unfamiliarity with the site and/or uncertainty about the job. - Faulty electrical installations or equipment may result in electrocution, burns or other injuries to employees. - Employees doing the electrical installations not competent. - Electrical shock causing injury or death of employee. - Fire resulting from an electrical fault. - Changes to wiring / installation not being reflected in drawings. - Inadequate lock out procedures / lock out procedures not implemented correctly. - Cramped working conditions, including cable trenches and cable pits. - No COC issued for permanent / temporary electrical installations. - Temporary electrical installations not inspected weekly by competent, appointed person. - Contractor conducting electrical installation work not registered with the Department of Labour as an electrician. - Cable trays should not be used by any person as a "scaffold" support.	Cairnmead Recommendations: Refer to section 24 (Electrical Installations) in the Client Health and Safety Specification and Construction Regulations 24.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.
BLD 038	Busbar installation	- Lifting of busbar sections. - Damage to busbars. - Storage of busbars prior to installation. - Installation of busbar trunking. - Energizing.	Cairnmead Recommendations: Refer to section 24 (Electrical Installations) in the Client Health and Safety Specification and Construction Regulations 24.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



23. HAZARDOUS CHEMICALS

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 039	Storage and use of flammable liquids	- Flammable liquids, solids, and gasses not stored correctly. - Required notices and signs not clearly displayed in the area where flammable liquids, solids or gasses is stored / located. - No fire extinguishers / insufficient fire extinguishers available in close proximity. - Safety data sheets not available & not communicated with employees.	Cairnmead Recommendations: Refer to section 25 (Hazardous Chemicals) in the Client Health and Safety Specification and Construction Regulations 25.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



24. HOUSEKEEPING AND GENERAL SAFEGUARDING

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 040	Housekeeping	- Housekeeping not being maintained daily. - Scrap, waste and debris not removed from site at appropriate intervals. - Construction areas near build up areas not sufficiently hoarded. - Housekeeping conditions not managed by the site management team.	Cairnmead Recommendations: Refer to section 27 (Housekeeping) in the Client Health and Safety Specification and Construction Regulations 27.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.
BLD 041	Temporary hoarding to separate public and construction work.	- Fence erected in the incorrect position. - When digging for fence poles, services can be damaged. - Fence not adequate to prevent public access / unauthorized entry into the construction site. - Where movable hoarding is required, the hoarding not secured properly. - Movable hoarding footings protruding into public areas. - No mandatory warning signs displayed at the entrance of the construction area.	Cairnmead Recommendations: Refer to section 27 (Housekeeping) in the Client Health and Safety Specification and Construction Regulations 27.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.
BLD 042	Security	- No security in place at entrances to construction site. - Unauthorized entry to site. - Theft of materials and equipment.	Cairnmead Recommendations: Refer to section 27 (Housekeeping) in the Client Health and Safety Specification and Construction Regulations 27.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.

BLD 043	Access control	• To prevent unauthorized entry into the construction area, beyond the area, which was fenced off as per the Engineers drawing, from the gate which the contractor controls up to the furthest point of the hoarded area. • Access control measures not in place at access gates. • Accessing site from unsafe areas. • Unauthorized entry onto site due to lack of access control measures.	Cairnmead Recommendations: Refer to section 27 (Housekeeping) in the Client Health and Safety Specification and Construction Regulations 27.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.
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25. STACKING AND STORAGE ON CONSTRUCTION SITES

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 044	Stacking and storage	• Brick pallets double stacked and not secured by being tied or wrapped. • Brick pallets double stacked next to public areas. • No Stacking & storage supervisor appointed. • Laydown areas not inspected weekly by appointed person. • Use of an unsuitable pallet for the loading or storage methods of bricks and other materials. • Continued use of damaged pallets. • Insufficient storage areas provided. • Storage areas not demarcated and clearly identified. • Storage areas not kept neat and under control. • Employees removing materials from the bottom of the stack and not from the top.	Cairnmead Recommendations: Refer to section 28 (Stacking and Storage on Construction Sites) in the Client Health and Safety Specification and Construction Regulations 28.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



26. CONSTRUCTION EMPLOYEES' FACILITIES

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 045	Employee facilities Hygiene and Health	• Insufficient employee facilities on site. • Water taps of sources unfit for human consumption. • Drinking water not tested to ensure it is suitable for human consumption. • Facilities not being cleaned and maintained. • No changing facilities available for employees on site. • No dining / sheltered eating areas available for employees on site. • No inspections conducted and no checklist completed. • Employees sleeping on site / not provided with adequate accommodation where required. • Site ablutions not cleaned and maintained resulting in health effects on employees. • Cleaning of hands and working areas not being encouraged daily. • Employees not being encouraged to report any health-related matters to their site management as soon as possible.	Cairnmead Recommendations: Refer to section 28 (Construction Employees' Facilities) in the Client Health and Safety specification and Construction Regulation 30.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



27. HEALTH AND SAFETY REPRESENTATIVE

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 046	Health and Safety Representatives	• No Health and Safety rep appointed. • Inadequate number of Health and Safety rep appointed. • Health and Safety rep not conducting duties as required.	Cairnmead Recommendations: Refer to section 29 (Health and Safety Representative) in the Client Health and Safety Specification and Section 17 of the Occupational Health and Safety Act.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



28. LADDERS

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 047	Ladders	• Damaged ladder being used on site. • Ladder not inspected before use. • Ladder not positioned on level ground surface. • Incorrect ladder being used for activity being performed. • Materials (tools & equipment) falling from ladder. • Ladder not clearly marked / identified by means of a number and not inspected by the appointed Ladder inspector. • Ladder not recorded on the ladder register. • Ladders not stored correctly.	Cairnmead Recommendations: Refer to section 28 (Stacking and Storage on Construction Sites) in the Client Health and Safety Specification and Construction Regulations 28.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



29. HAND TOOLS

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 048	Hand tools	• Tools not inspected prior to use or issue. • Strike injuries to hand. • "Home-made" hand tools being used. • Cuts from sharp blades.	Cairnmead Recommendations: Refer to section 31 (Hand tools) in the Client Health and Safety Specification and relevant legislation.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



30. PORTABLE ELECTRICAL EQUIPMENT

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 049	Electrical Tools	• Incorrect wiring. • Incorrect use of the equipment. • Persons not properly trained. • Tools not inspected prior to use or issue. • Electrical tools being used in inclement weather. • Operator of electrical being electrocuted. • Operator of electrical tool being exposed to high noise levels. • Contact with rotating or moving parts. • Electrical fires. • Moving parts - entanglement. • Vibration. • Dust inhalation.	Cairnmead Recommendations: Refer to section 32 (Portable Electrical Equipment) in the Client Health and Safety Specification and Construction Regulation 24.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



31. FIRST AID, EMERGENCY EQUIPMENT AND PROCEDURES

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 050	Emergency preparedness and response Emergency plan and procedures. Emergency contact numbers. Emergency drill.	• Principal Contractors' emergency plan and procedures not issued to subcontractors on site and not communicated with all employees. • Emergency plan not being revised as deemed necessary by changes in construction site. • Emergency contact numbers not made available and displayed in prominent areas on site. • Emergency evacuation drill not conducted at least once every 6 months. • Principal Contractor not appointing competent Emergency evacuation controller as per Cairnmead specification. • No trained First aider appointed. • No first aid kit readily available on site. • Contractors do not provide sufficient first aid equipment to site. • No trained first aider available where applicable. • First aid equipment not being inspected and kept up to date. • First aid locations not identified on site.	Cairnmead Recommendations: Refer to section 33 (First Aid, Emergency Equipment and Procedures) in the Client Health and Safety Specification and relevant applicable legislation.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



32. INCIDENT REPORTING AND INVESTIGATIONS

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 051	Incident Reporting procedures Incident investigations Reporting of incidents to Department of Labour	- Incidents not reported as per the Client Health and Safety specification. - Incidents not being reported to the supervisor immediately or before end of shift. - Incident report not comprehensive in terms of the requirements as per the Client Health and Safety specification. - Preventative measures not communicated to employees on site. - Incident not investigated by competent appointed person. - Employees not being trained on Incident reporting procedures.	Cairnmead Recommendations: Refer to section 34 (Incident Reporting and Investigations) in the Client Health and Safety Specification and relevant applicable legislation.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



33. WELDING, FLAME CUTTING, SOLDERING, AND SIMILAR OPERATIONS

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 052	Flame cutting and welding / Hot-works	- Effect the structural integrity of the structure if welding is not done correctly. - CO2 welding not being protected from weather conditions when doing CO2 welding on site in order to prevent wind from blowing the CO2 away from the welding point. - No flash back arrestors installed on gas welding equipment. - Employees not wearing the correct personal protective equipment. - Fire extinguisher not available in nearby vicinity. - Gas welding & cutting: Fire caused by heat, sparks, molten metal or direct contact with the flame. - Explosion when cutting up or repairing tanks or drums which contain or may have contained flammable materials. - Fire / explosion caused by gas leaks, backfires and flashbacks. - Fumes created during flame cutting. - Fire / burns resulting from misuse of oxygen. - Burns from contact with the flame or hot metal. - Crushing or impact injuries when handling and transporting cylinders.	Cairnmead Recommendations: Refer to section 35 (Welding, Flame Cutting, Soldering and Similar Operations) in the Client Health and Safety Specification and relevant applicable legislation.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



36. EXISTING SERVICES AND EXISTING SITE CONDITIONS

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 055	Above ground services / Overhead power lines Underground services and servitude	• Overhead services not clearly identified can lead to damages of services during construction activities. • Safety clearances as per the national codes not adhered to. • Material, equipment, and storage areas being located at unsafe distances. • Site rules regarding safety clearances not communicated to all staff members and contractors working on site. • Services not pointed out to the contractor. • Termination of services not documented and certified. • Underground services not clearly identified can lead to damages of services during construction activities.	Cairnmead Recommendations: Refer to section 38 (Existing Services and Existing Site Conditions) in the Client Health and Safety Specification and applicable legislation.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.



37. ERGONOMICS

No.	Potential Hazard	Potential Risk (Source of the potential risk)	Controls (Occupational Health & Safety)	Risk Rating			Legal Reference
BLD 056	Information, instruction and training. Duties of persons effected by ergonomic risks. Ergonomic risk assessments / control measures	• Potential sources of exposure not identified. • Potential health risks relating to ergonomics not identified. • No control measures implemented to prevent ergonomic risks. • No reporting procedure in place for reporting ergonomic risks. • No medical surveillance of employees relating to ergonomic risks. • Employees not being trained and informed about workplace ergonomic risks for their specific work to be performed. • Employees not co-operating and adhering to the control measures implemented to reduce and prevent ergonomic risks. • Employees not reporting potential ergonomic risks. • Employees not co-operating with the medical surveillance staff. • Ergonomic risk assessments not conducted before commencement of work by a competent person. • Ergonomic risk assessment not reviewed and updated in line with statutory requirements. • Risk assessment does not include and addresses the hazards identified. • The risk assessment does not identify the persons who may be affected by ergonomic risks. • The risk assessment does not identify how employees may be exposed and priorities the risks. • Ergonomic risk assessment not updated when there is a change in work method or scope and equipment used. • Ergonomic risk assessment not updated after medical surveillance revealed an adverse health effect. • Exposure to ergonomic risk where not avoidable not being adequately controlled.	Cairnmead Recommendations: Refer to section 39 (Ergonomics) in the Client Health and Safety Specification and Ergonomics Regulations.	6	E	6E	Occupational Health & Safety Act, Regulations (85 of 1993) and incorporated safety standards. Client Health and Safety Specification.

Risk Assessment Approval

Project Details:

Project: Cricket South Africa - Buffalo Park Stadium LED Flood Lights

Register Number: CIC 26829_HS_01

Issue Date: 13 Oct 26

Designation	Name	Signature	Date
Appointed Client Health & Safety Agent / Risk Assessor	TG Botes		13 Oct 26

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C3 ANNEXURE C: STRUCTURAL ENGINEER'S ASSESSMENT REPORT ON THE EXISTING (CONDEMNED) MASTS, AND AVAILABLE INFORMATION ON THE FOUNDATIONS

Buffalo Park Lighting Masts – Site Inspection on 18 August 2025 and Structural Assessment

Prepared for:
Cricket South Africa



14 October 2026

Revision 1

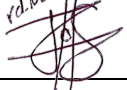
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Document History

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A	2025-10-10	John Robberts	Draft for comment
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1	2026-10-14	John Robberts / Joshua van der Meer	Additional information for RFP

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- E** Analysis results

Abbreviations

The following abbreviations are used in this document.

Abbreviation / Symbol	Meaning
/	More than one measurement taken
()	Measurements used to estimate proposed value for analysis
AF	Across flats
BP	Base plate
CAFT	Constant amplitude fatigue threshold
CJP	Complete joint penetration
CSA	Cricket South Africa
EPA	Effective projected area
Fortem	Fortem Consulting Engineers (Pty) Ltd
FPA	Frontal projected area
IS	Inside
MPI	Magnetic particle inspection
N/A	Not applicable
NDT	Non-destructive testing
OS	Outside
PCD	Pitch Circle Diameter
RMSE	Robberts & Marshall Structural Engineers (Pty) Ltd
TBC	To be confirmed
TBD	To be determined
TOC	Top of concrete
US	Underside

1 Introduction

Cricket South Africa (CSA) has appointed Fortem Consulting Engineers (Pty) Ltd (Fortem) to perform the structural assessment of the mast structures at Buffalo Park Cricket Stadium in East London. Fortem is assisted by Robberts & Marshall Structural Engineers (Pty) Ltd (RMSE).

The site inspection and structural analysis were performed by the following structural engineers:

- John Robberts (RMSE)
- Joshua van der Meer (Fortem)

This report was prepared by the inspectors above together with Hans Koorn from Fortem.

The structural assessment comprised the following:

1. Visual site inspection assessing the condition of the masts, measuring accessible dimensions and obtaining background information.
2. Point cloud scanning to obtain additional dimensions and verify manual measurements.
3. Non-destructive testing (NDT) to check for cracking, measure the mast shell thickness and assess the condition of the headframe.
4. Numerical analyses based on the measured data.

No material testing was performed. Foundations were not assessed due to insufficient information available.

2 Site observations

2.1 General

The numbering of the masts adopted for this report is shown in Appendix A. Photographs taken during the site inspection are presented in Appendix B. The measurements taken on site (see Appendix D) show some minor differences but all four masts can be considered identical above the foundations.

It is estimated that masts were constructed in 1990, i.e. having a current service life of 35 years. No drawings of the masts or foundations could be found. Portraits in the stadium offices show photos of the masts during construction (Photo 1 and Photo 2). The portraits were donated by Sviridov De Waal & Associates, who were most likely the Civil and Structural engineers responsible for the design of the masts and the foundations. Two of the mast have piled foundations as follows:

- Mast M3 (northwest): 8 x 420 mm diameter bored piles
- Mast M4 (northeast): 3 x 1080 mm diameter bored piles

2.2 Masts

The masts are galvanized and painted on the outside. Although the paint is deteriorating in some places, very little corrosion is visible on the masts. At some of the masts the plates strengthening the weld at the slip joints are corroding (see Photo 12). It is likely that the corrosion protection to the strengthening plates was not properly applied following manufacture.

2.3 Base plates and anchor bolts

Typical base plate and anchor bolt details are shown in Figure 1 and are based on the site measurements.

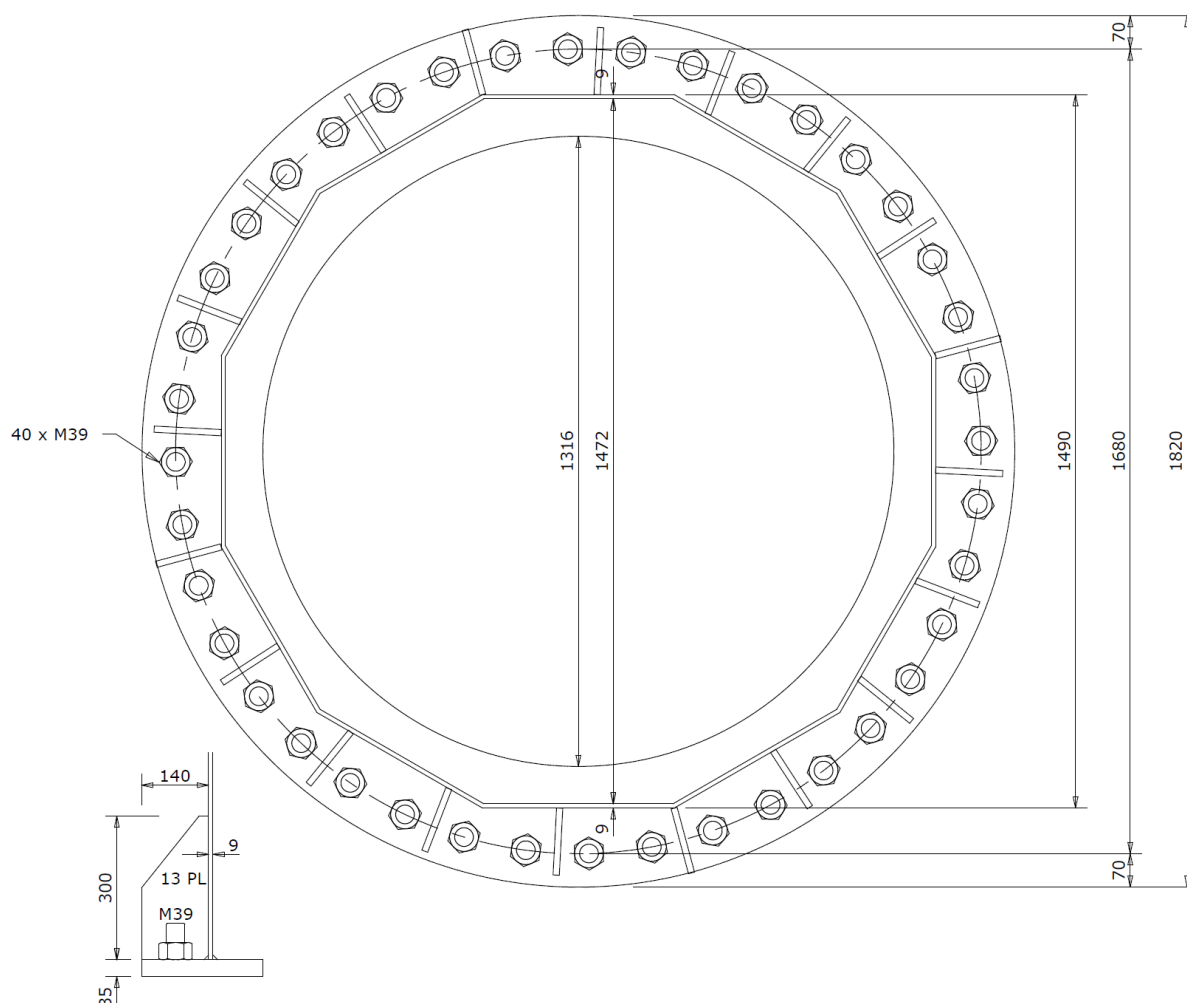


Figure 1 : Typical base plate layout

The baseplates of masts M1, M2 and M4 are lower than the surrounding ground level (see Photo 4, Photo 7, Photo 10). This has the potential for standing water that will cause corrosion of the steel.

The void between the bottom of the baseplate and the top of the concrete plinth has been grouted for all masts. On all the masts the grouting on the inside of the mast was either poor or absent. Drainage to allow water inside to mast to escape is not provided.

The outside grout with the worst condition is at M3 (Photo 9). Some of the grout has broken away and corrosion is visible at the underside of the baseplate. This is indicative of moisture present at the interface between the grout and baseplate.

Although corrosion of the bolts inside the grout could not be observed, there is a high probability that these bolts are corroded. This view is based on recent observations at other masts under similar grouting conditions. The true state of the bolts can only be assessed if the mast is removed and the grout has be broken up, which is not a feasible inspection option.

3 Non-destructive testing (NDT) and inspection of headframe

3.1 Purpose

Non-destructive testing (NDT) of the masts was conducted by Emmanuel NDT between 18 and 20 August 2025. Their detailed results are presented in their reports listed as Reference [1]. A summary of their findings is presented in this section.

The primary purpose of the NDT was to:

1. Check for any cracks in the mast, welds or anchor bolts.
2. Measure the thickness of each mast segment.
3. Report on the condition of the platform and headframe components.

The base of the mast is usually the highest stressed part of the mast and the NDT for potential cracking focusses on these areas. Areas checked include:

- All welds at the connection between the mast and baseplate.
- All welds between where the stiffeners connect to the mast and baseplate.
- Long seam welds in the first segment at ground level.
- Welds around the door opening.

Cracks in steel are detected using a magnetic particle inspection (MPI). This procedure requires the steel surface to be free of paint which was removed using sandblasting. The sandblasting equipment has a limited reach in height which determined the extent of the investigation. To inspect higher parts of the mast would require scaffolding to be erected. However, this was not considered necessary for the purposes of this investigation.

The anchor bolts were checked for potential cracking using ultrasonic tests. The purpose of these tests is to confirm that corrosion did not initiate any cracking of the bolts. The area most susceptible to corrosion is the grouted region, upward from the interface with the concrete plinth.

3.2 NDT Results

No cracks were observed in the areas inspected. However, several defects were identified in the welding of the stiffeners (see Photo 13 and Photo 14). These defects originated during manufacture and should have been repaired before the mast was erected on site. These defects lead to increased local stresses that reduce the fatigue life of the mast. The number of stiffeners failing the inspection is summarized in Table 1 for each mast.

No cracking could be observed for any of the anchor bolts tested. The lengths vary approximately between 1.2 m and 1.7 m.

Table 1: Summary of NDT results

NDT results	Mast			
	1	2	3	4
Number of stiffener welds failing (Total of 20 stiffeners)	5 25%	5 25%	15 75%	8 40%
Typical anchor bolt lengths (mm)	1 645	1 226	1 675	1 226
Minimum = 1 226	1 707	1 422	1 707	1 678
Maximum = 1 707		1 647		

3.3 Condition of headframe

The following observations were made by the NDT inspector following the inspection of the headframe:

1. Corrosion is present on the cross-arm members and their attachments/supports (Photo 15, Photo 16 and Photo 17).
2. Several of the nuts show corrosion (Photo 18 and Photo 23).
3. Handrails and verticals supporting the handrail are severely corroded (Photo 20 and Photo 21).
4. The platform beams supporting the walkway are severely corroded (Photo 19).
5. The cat ladders are also corroded (Photo 22).

The photos presented in Appendix C were selected to be representative of the defects and does not represent all the defects. According to the NDT inspector [2], the issues listed above are common to all the masts. Extreme caution should be exercised by any workers using the platforms to perform maintenance on the lights.

During a meeting with the NDT team from Emmanuel, the following were concluded:

1. The thinner steel members—such as the handrails, platform support beams and cat ladders—are corroded beyond repair and should be replaced. This implies that the entire platform needs to be replaced.

2. If the intent is to reuse the headframe, all components need to be properly cleaned, inspected and repaired, where necessary. This includes all supports and attachments to the crossarms. The following issues need to be considered:
 - a. The platform needs to be replaced prior to performing any work on the headframe.
 - b. Sand blasting is ideal to clean the steel but working at heights with the sand blasting equipment will be a challenge.
 - c. Access to some components may be difficult.
 - d. There is a risk that a defect remains undetected.
3. Considering the above challenges, it may be more efficient to replace the entire headframe and platform. It appears as if the headframe is one section that fits over the mast with a slip joint. It is known that these slip joints are very difficult to separate after construction. Detaching the existing headframe and attaching the new headframe requires careful consideration.

4 Point cloud survey results

Dimensions required for the analyses are primarily obtained from the point cloud scan and summarized in Appendix E. Critical dimensions are cross-checked to the inspection results by the authors (Appendix D).

The survey measures the horizontal deflections at the top of each mast (see Appendix E). The largest deflection is 332 mm for mast M2. Expressed as a percentage of the height, the deflection is 0.38%.

The primary concern is that this deflection is caused by differential settlement of the foundation. This would typically occur when the wind load on the mast causes the bearing capacity of the foundation to be exceeded.

The AASHTO 2015 specifications (Cl. 10.4.2.1) allow a 2.5% deflection when the mast is subjected to self-weight loads. This is the appropriate load case to consider when the deflections are measured. The measured deflection (332 mm) for Mast M2 is therefore less than the allowable deflection of 883 mm and of no concern.

5 Numerical assessment

5.1 Wind loads for fatigue analysis

The fatigue assessment of the masts is conducted in compliance with the requirements of the *AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals*, 6th Edition, 2015 Revision [4]. This code is selected because it is the only widely accredited standard that specifically covers fatigue of tall luminaire support structures commonly located at sports stadia. It is noted that the corresponding South African design document, SANS 10225:2021, *The design and construction of lighting masts*, [3] does not address fatigue.

One of the primary input parameters to be selected for the analysis of fatigue is the magnitude of the yearly mean wind velocity and, hence, the static pressure range P_{FLS} to be applied to the structure. It is important to note that the P_{FLS} accounts for several factors not usually considered when converting wind speed to pressure, such as:

- a) Replacing a variable amplitude spectrum by a single equivalent constant amplitude load.
- b) Including the effects of vibrations induced by vortex shedding.
- c) A constant value of the P_{FLS} is applied to the structure, i.e. it is not dependent on the height above a reference level.

It is therefore clear that the P_{FLS} cannot be derived from a given wind speed using an appropriate expression because such an expression does not exist – only the values provided by the AASHTO Specifications can be used. Hence, we decided to use the P_{FLS} values prescribed by AASHTO Specifications for the fatigue analysis.

Since the Specifications only provides two values of the P_{FLS} for use over the entire USA (for the applicable fatigue importance category) and since the minimum value is only 8.8% less than the maximum value, the maximum value was selected.

5.2 Fatigue resistance

The fatigue resistance for steel depends on the stress range and the number of cycles. The higher the stress range, the lower the number of cycles it can resist. There exists a limit, defined as the constant-amplitude fatigue threshold (CAFT), where an infinite number of repetitions can be resisted without fatigue failure provided the stress range remains below this limit. It is common practice to design structural members so that the applied loads do not exceed the CAFT.

When designing for fatigue, the design code of practice must define the wind load (e.g. P_{FLS}), the CAFT, as well as the structural analysis procedures to be followed to determine the element stresses. The AASHTO Specifications were selected for this purpose.

The assessment applied here has two possible outcomes:

1. The stresses in a structural element fall below the CAFT so that the particular element should be able to resist an infinite number of load cycles.
2. The stresses in a structural element exceed the CAFT. The element has a limited number of load cycles remaining before failure. To determine the remaining life, an estimate must be made regarding the magnitude and number of load cycles the element has experienced to date. Historical wind records or field measurements are required. Obtaining the data and performing the additional analysis is a very onerous task with much uncertainty. Without performing this analysis all that can be said is that there is a limited design life of unknown duration and a failure could occur at any point in time. Failure is not immediate. Cracking initiates at locations with stresses concentrations and the crack grows over time until failure occurs. These cracks are not always visible with the naked eye.

5.3 Assessment results

The fatigue assessment results are summarized in Table 2 with the detail results presented in Appendix E. A check fails if the CAFT limit is exceeded by more than 5%. The following can be observed from the results:

1. All masts fail the check for the weld between the mast and baseplate.
2. Two masts fail the check in the weld at the top of the stiffener.
3. All masts fail one check at the door opening.

Table 2: Summary of fatigue analysis results

Location of stress check	No. of masts failing*
1. Stresses in welds in the base of the mast:	
a. Weld between the mast and the base plate.	4
b. Weld between the mast and the stiffener, at the top of the stiffener.	2
c. Weld between the mast and the stiffener, at the bottom of the stiffener.	0
2. Weld between mast and door frame (reinforcement):	
a. At toe (bottom)	0
b. At root (top)	4
3. Anchor bolts	0
*A check fails if the limit is exceeded by more than 5%.	

6 Conclusions

It is estimated that the mast has been in service for 35 years to date. Older lighting masts designed to South African design codes of practice [3], were not designed for fatigue. This is confirmed when applying more modern design codes such as AASTHO [4].

Although no fatigue cracking was observed during the NDT check, the following areas are a concern regarding the remaining fatigue life of the masts:

1. Manufacturing defects were observed at the top of the stiffeners. These defects increase local stresses that could reduce the fatigue life of the mast. The analysis results show that these areas have no spare capacity in fatigue.
2. The analysis results indicate that the welds between the mast and the baseplate exceed the fatigue limit by 63% while the stress limit below the door is exceeded by 79%.

The grouting intended to protect the anchor bolts is in a poor condition. Although no visible corrosion of the anchor bolts could be observed, the poor drainage around the bases and the corrosion visible below the baseplate imply that there is a risk of corrosion. This view is based on recent observations at other masts under similar conditions. The risk is further increased by the fact that the analysis results that show there is no reserve fatigue capacity for the anchor bolts.

The platform elements (handrails, platform support beams and cat ladders) are corroded beyond repair and the entire platform should be replaced. Extreme caution should be exercised in the interim by any workers using the platforms to perform maintenance on the lights.

Corrosion is present on the cross-arm members of the headframe. This includes attachments, supports and bolts. Cleaning, inspecting and repair will be challenging and there is a risk that defects may remain undetected. It may be more efficient to replace the entire headframe together with the platform.

There is a risk that fatigue cracking will increase as the masts get older. Cracking initiates at locations with stress concentrations and the crack grows over time until failure occurs. These cracks are not always visible with the naked eye.

Based on the conclusions above, our recommendation would be to replace the entire mast and not just the platform and headframe. A new headframe and platform will have a service life of at least 25 to 30 years. This benefit is lost if the existing masts are retained; with the risk of failure remaining high because its fatigue limit is exceeded. Given the cost of the construction (e.g. craneage) it would also not be economical to retain the existing masts for only a few years before they must be replaced. This recommendation also ensures that the risk of a potential structural collapse is minimized.

7 Data relevant to the provision of new masts

It is our opinion that the existing foundations can be reused when replacing the existing masts, provided the load effects on the foundations remain the same. This can be achieved by ensuring the wind areas, and moments of these areas about the base, are not greater than before. The wind areas can be defined in terms of either the frontal projected area (FPA) as shown in Table 3, or the effective projected area (EPA) as given in Appendix E.

Table 3: Limiting areas for new masts

Limiting areas	M1	M2	M3	M4
Frontal projected area (FPA) (m ²)	72.4	72.2	74.2	73.2
Moment of FPA about base (m ³)	1 905	1 899	1 950	1 902

Once the old masts have been removed, the existing anchor bolts need to be inspected to ensure they are suitable for reuse.

All data referenced in this report can be download by using the following link:

[Buffalo Park Data](#)

The data is arranged as set out in Table 4.

Table 4: Organization of data folders

Folder structure	Description
1. Inspections Photos General Photos M1 Photos M2 Photos M3 Photos M4	Inspection by Fortem and RMSE
2. NDT & Mapping Reports Photos	Testing and mapping by RBI-Tech
3. Point Cloud Scan Drawings	Survey performed by Trail Surveys
4. Assessment Report	Structural assessment report by Fortem and RMSE. Excel spreadsheet with site data and calculation of wind areas.

8 References

- [1] Emmanuel NDT. Buffalo Park Cricket Stadium, East London, Lightning Mast #1 to #4, 18 to 20 August 2025.
- [2] Teams Meeting on 2025-09-26 between Pieter Dryer, Mike Ranthokho, Joshua van der Meer and John Robberts.
- [3] SANS 10225. The design and construction of lighting poles, Edition 1.2, Standards South Africa, Pretoria, 2012.
- [4] AASHTO 2015. Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 6th ed., American Association of State Highway and Transportation Officials Washington, D.C.

A Site layout and mast numbering

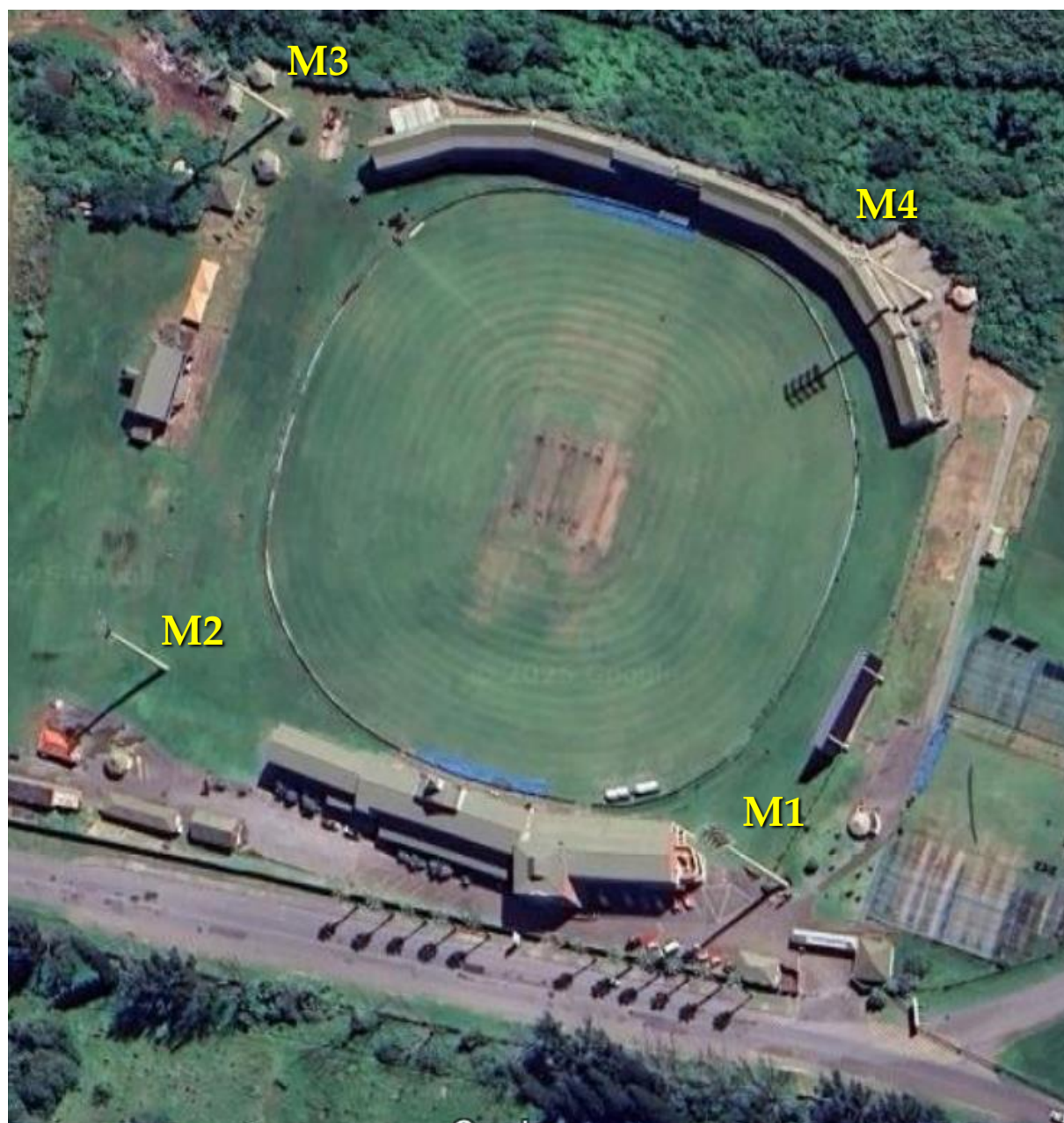


Figure 2 : Google Maps view of Buffalo Park Cricket Stadium

B Photos taken during site visit

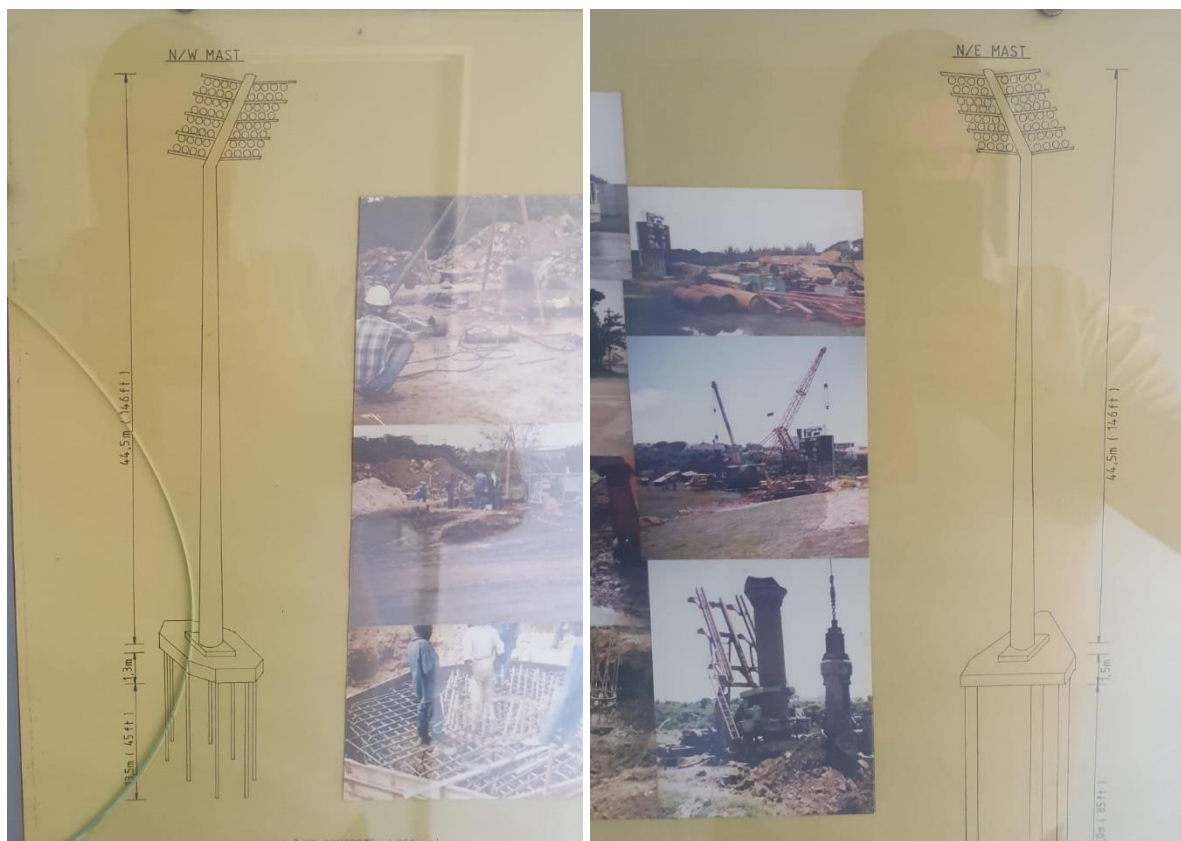


Photo 1: Portrait of the northwest (M3) and northeast (M4) masts during construction



Photo 2: Portrait of the southwest (M2) and southeast masts (M1) during construction



Photo 3:M1



Photo 4: M1



Photo 5: M1



Photo 6: M2



Photo 7: M2



Photo 8: M3



Photo 9: M3 – Corrosion on baseplate



Photo 10: M4



Photo 11: M4



Photo 12: M4 - Corrosion on weld strengthening plates

C Photos provided by NDT inspector

The photographs in this section were provided by the NDT team



Photo 13: Weld defect at stiffener



Photo 14: Weld defect at stiffener



Photo 15: Corrosion on cross-arm attachment



Photo 16: Corrosion on web of cross-arm support



Photo 17:M1 – Corrosion on member



Photo 18: M1 – Corrosion of nut

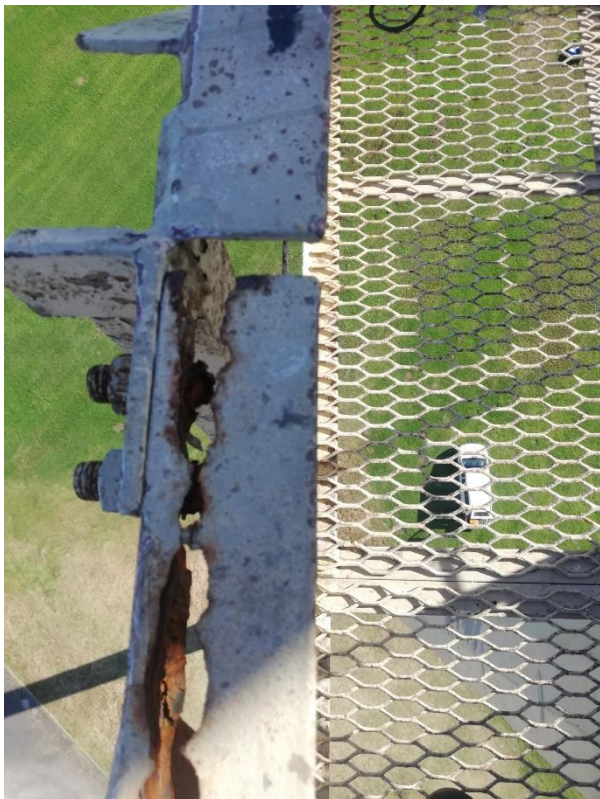


Photo 19: Corrosion on platform walkway support



Photo 20: Corrosion on handrail vertical



Photo 21: Corrosion of handrail



Photo 22: Corrosion on cat ladders



Photo 23: Corrosion on nuts

D Site inspection data

Parameter	M1		M2		M3		M4	
Mast								
Number of flat sides	12		12		12		12	
Number of segments ¹	3		3		3		3	
Thickness of wall at bottom (mm)	Not measured		Not measured		Not measured		Not measured	
Flat side to BP edge (mm)								
Width inside - across flats (mm)	1 470	(1478, 1461)	1 473	(1471, 1460,1488 @ about 200 mm from base)	1 472	(1464, 1479)	1 475	(1452, 1489, 1485)
Circumference (mm)	4 780	Above stiffeners					4 785	Above stiffeners
Corrosion protection	Galvanized and painted		Galvanized and painted		Galvanized and painted		Galvanized and painted	
Seam welds no:	2		2		2		2	
Size/type	Butt joint, full penetration		Butt joint, full penetration		Butt joint, full penetration		Butt joint, full penetration	
Corrosion or cracking?	Corrosion locally at strengthening plates welded at at the first slip joint. Paint is peeling in places. No visible cracking.		Paint is peeling in places. No visible cracking.		Corrosion locally at strengthening plates welded at at the first slip joint. Paint is peeling in places. No visible cracking.		Corrosion locally at strengthening plates welded at at the first slip joint. Paint is peeling in places. No visible cracking. It appears as if a fire occurred on the inside of	
Baseplate								
Thickness (mm)	35	(36.13, 36.15)	35	(36.6, 35.6, 37.7)	35	(36, 35.46, 35.83)	35	(36.02, 37.23)
Circumference (mm)					5 725		5740	
Diameter (mm)	0	Calculated			1 822	Calculated	1 827	Calculated
Diameter of concentric opening (mm)	1 318	(1319, 1317)	1 320	(1322, 1317)	1 312	(1319, 1304)	1 313	(1316, 1310)
Mast-base joint type ²	Butt joint, full penetration		Butt joint, full penetration		Butt joint, full penetration		Butt joint, full penetration	
Weld leg size (mm)	8	(7.5, 8.9, 10)	13	(15, 13, 14)	9	(9, 10, 11)	9	(9, 10, 11)
Corrosion or cracking?	Non visible		Non visible					
Anchor bolts and nuts								
Number	40		40		40		40	
Diameter (mm)	39	(37.2, 37.6, 37)	39	(37.5, 37.5)	39	(37.8, 37.5, Nut 60)	39	(37.3, 37.1)
Pitch centre diameter PCD (mm)								
Markings for material class	Non visible		Non visible		Non visible			
Grouted?	Outside but not inside		Outside but not inside		Outside but not inside		Outside, poorly inside	
Depth top of plinth to bottom of BP (mm)	80		50		65		60	
Corrosion or cracking?	Grout spalling. Corrosion inside grout suspected		Not visible		Grout spalling. Moisture visible. Corrosion inside grout suspected		Grout spalling. Moisture visible. Corrosion inside grout suspected	
Stiffeners								
Number	20		20		20		20	
Height (mm)	300		303		300		300	
Width (mm)	140		145		140		140	
Thickness (mm)	13	(13.21, 12.99)	13	(13.1, 12.97, 13.06)	13	(12.99, 13.08)	13	
Plinth								
Plinth shape	Not visible		Not visible		Square		Square	
Circumference (mm)					N/A		N/A	
Dimensions (m)					2 420 x 2 440		2 400 x 2 400	
Height above foundation (mm)					300		Not visible	
Corrosion or cracking?					Non observed		Non observed	
Foundation								
Foundation shape	Not visible		Not visible		Octagon		Not visible	
Dimensions (mm)					(1820, 1860 side)			
Corrosion or cracking?					Non observed			
Headframe								
Total number of lights	80		80		80		80	
Number of cross-arms	5	Incl. platform	5	Incl. platform	5	Incl. platform	5	Incl. platform
Number of lights per cross-arm	16		16		16		16	
Door opening (bottom)								
Height-outside of door frame (mm)	1 032	1000 inside	1030	996 inside	1030		1 032	1000 inside
Width-outside of door frame (mm)	532	500 inside	531	499 inside	538	505 inside	537	505 inside
Frame depth (mm)	200		200		200		200	
Thickness of frame (mm)	16	(16.97, 16.75)	16	(16.82, 16.95)	16	(16.9, 17.2)	16	(16.5)
Distance top of BP to bottom of frame (mm)	500		500		500		500	
Notes								
1. Excluding short segment below platform which is part of the headframe.								
2. See figure in report for types of mast to base plate connections.								

E Analysis results

Parameter	M1	M2	M3	M4
Mast				
Outside diameter across corners at the bottom of the mast (mm)	1 499	1 512	1 520	1 543
Inside diameter across flats at the bottom of the mast (mm)	1 430	1 442	1 450	1 472
Thickness of the mast wall at the bottom (mm)	9.0	9.0	9.0	9.0
Total assembly height (mast + spine) (mm)	43 034	43 378	43 425	43 140
Headframe				
Number of Lights	80	80	80	80
Baseplate				
Number of bolts	40	40	40	40
PCD (mm)	1 680	1 680	1 680	1 680
Baseplate diameter (mm)	1 820	1 820	1 820	1 820
Baseplate thickness (mm)	35	35	35	35
Bolt size (mm)	M39	M39	M39	M39
Fatigue wind loads				
EPA (m ²)	85.4	84.9	86.9	85.1
EPA moment (m ³)	2 133.2	2 130.6	2 175.1	2 081.2
Shear force (kN)	29.0	28.9	29.5	28.9
Moment (kN.m)	788.1	784.1	803.8	777.1
Fatigue stresses in mast				
Stress range at base of mast (MPa)	50.5	50.3	52.1	49.8
CAFT limit - Detail 6.2(1) Top of stiffener (MPa)	48	48	48	48
Stress/resistance ratio	1.05	1.05	1.09	1.04
CAFT limit - Detail 6.2(2) Mast-baseplate (MPa)	31	31	31	31
Stress/resistance ratio	1.63	1.62	1.68	1.61
CAFT limit - Detail 6.3 Bottom of stiffener (MPa)	69	69	69	69
Stress/resistance ratio	0.73	0.73	0.76	0.72
Stress range at door toe (MPa) - bottom	49.4	49.2	49.4	48.8
CAFT limit - Detail 3.2(2)	48	48	48	48
Stress/resistance ratio	1.03	1.03	1.03	1.02
Stress range at door root (MPa) - top	197.8	196.8	197.8	195.0
CAFT limit - Detail 3.2(1)	110	110	110	110
Stress/resistance ratio	1.80	1.79	1.80	1.77
Fatigue stresses in anchor bolts				
Stress Range Δf (MPa)	48.1	47.8	48.1	47.4
Fatigue Resistance ΔF_{TH} (MPa)	48.0	48.0	48.0	48.0
Stress/resistance ratio $\Delta f / \Delta F_{TH}$	1.00	1.00	1.00	0.99
Bolt Tensile Stress Area (mm ²)	975.8	975.8	975.8	975.8
Bolt Force Range (kN)	46.9	46.7	46.9	46.3
Deflections				
Horizontal deviation (mm)	114	332	153	50
measured at height (mm)	35 264	35 338	35 365	35 240
AASHTO 2015: 2.5% for self-weight (mm)	882	883	884	881
Ratio	0.13	0.38	0.17	0.06

C4 (Site Information) ANNEXURE D: SITE SURVEY, EXISTING ELECTRICAL SINGLE-LINE DIAGRAMS AND SUPPLY INFORMATION

TO BE DONE BY SUCCESSFUL TENDERER AS PART OF INITIAL INVESTIGATION