

Transnet Freight Rail RME, a division of

TRANSNET SOC LTD

Registration Number 1990/000900/30

[hereinafter referred to as **Transnet**]

REQUEST FOR QUOTATION [RFQ] No ERAC-RCB-20597-TP-001

FOR THE SUPPLY OF: VARIOUS ELECTRICAL LIGHT FITTINGS

FOR DELIVERY TO: PORT OF RICHARDS BAY

ISSUE DATE: 16 FEBRUARY 2016 - 24 FEBRUARY 2016

CLOSING DATE: 25 FEBRUARY 2016

CLOSING TIME: 10:00

"PREVIEW COPY ONLY"

Section 1
NOTICE TO BIDDERS

Quotations which must be completed as indicated in Section 2 of this RFQ are to be submitted as follows:

METHOD: Tender box / fax / e-mail

CLOSING VENUE: Transnet Freight Rail RME,
The Chairman of the Acquisition Council,
Inyanda House 1, 21 Wellington Road,
Parktown, Gauteng

Fax numbers and e-mail details are as follows:
Fax numbers: 011 774 9780, 011 774 9129 or 011 774 9186 and
E-mail: Nomsa.Maseko@transnet.net

Note: Contact numbers to verify if your tender was received in good order: 011 584 9202 or 011 544 9484.

1 Responses to RFQ

Responses to this RFQ [Quotations] must not include documents or reference relating to any other quotation or proposal. Any additional conditions must be embodied in an accompanying letter.

2 Broad-Based Black Economic Empowerment [B-BBEE]

Transnet fully endorses and supports the Government's Broad-Based Black Economic Empowerment Programme and it would therefore prefer to do business with local business enterprises who share these same values. As described in more detail in the attached B-BBEE Claim Form Transnet will allow a "preference" to companies who provide a valid B-BBEE Verification Certificate.

The value of this bid is estimated to exceed R1 000 000 (all applicable taxes included); and therefore the **90/10** system shall be applicable.

Respondents are required to complete Annexure A [the B-BBEE Preference Point Claim Form] and submit it together with proof of their B-BBEE Status as stipulated in the Claim Form in order to obtain preference points for their B-BBEE status.

Note: Failure to submit a valid and original B-BBEE certificate or a certified copy thereof at the Closing Date of this RFQ will result in a score of zero being allocated for B-BBEE.

3 Communication

Respondents are warned that a response will be liable for disqualification should any attempt be made by a Respondent either directly or indirectly to canvass any officer(s) or employee of Transnet in respect of this RFQ between the closing date and the date of the award of the business.

A Respondent may, however, before the closing date and time, direct any written enquiries relating to the RFQ to the following Transnet employee:

Name: Thobile Phutini

Email: thobile.phutini@transnet.net

Telephone: 035 906 7282

Respondents may also, at any time after the closing date of the RFQ, communicate with the Regional Supply Chain Manager (Lizelle Smith) on any matter relating to its RFQ response:

Telephone 035 906 7305

Email: lizelle.smith@transnet.net

4 Legal Compliance

The successful Respondent shall be in full and complete compliance with any and all applicable national and local laws and regulations.

5 Changes to Quotations

Changes by the Respondent to its submission will not be considered after the closing date and time.

6 Pricing

All prices must be quoted in South African Rand on a fixed price basis, excluding VAT.

7 Prices Subject to Confirmation

Prices quoted which are subject to confirmation will not be considered.

8 Binding Offer

Any Quotation furnished pursuant to this Request shall be deemed to be an offer. Any exceptions to this statement must be clearly and specifically indicated.

9 Disclaimers

Transnet is not committed to any course of action as a result of its issuance of this RFQ and/or its receipt of a Quotation in response to it. Please note that Transnet reserves the right to:

- modify the RFQ's goods / service(s) and request Respondents to re-bid on any changes;
- reject any Quotation which does not conform to instructions and specifications which are detailed herein;
- disqualify Quotations submitted after the stated submission deadline;
- not necessarily accept the lowest priced Quotation or an alternative bid;
- reject all Quotations, if it so decides;
- place an order in connection with this Quotation at any time after the RFQ's closing date;
- award only a portion of the proposed goods / service/s which are reflected in the scope of this RFQ;
- split the award of the order/s between more than one Supplier/Service Provider should it at Transnet's discretion be more advantageous in terms of, amongst others, cost or developmental considerations ;
or
- make no award at all.

Should a contract be awarded on the strength of information furnished by the Respondent, which after conclusion of the contract, is proved to have been incorrect, Transnet reserves the right to cancel the contract.

Transnet reserves the right to award business to the highest scoring bidder/s unless objective criteria justify the award to another bidder.

Transnet reserves the right to conduct Post Tender Negotiations (PTN) with selected Respondents or any number of short-listed Respondents, such PTN to include, at Transnet's discretion, any evaluation criteria listed in the RFQ document.

Should the preferred bidder fail to sign or commence with the contract within a reasonable period after being requested to do so, Transnet reserves the right to award the business to the next highest ranked bidder, provided that he/she is still prepared to provide the required goods at the quoted price.

10 Specification/Scope of Work

Refer to Annexure B for specification of goods

**Transnet urges its clients, suppliers and the general public to report any fraud or corruption to
TIP-OFFS ANONYMOUS: 0800 003 056**

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**SECTION 2
EVALUATION CRITERIA AND RETURNABLE DOCUMENTS**

1 Evaluation Criteria

Transnet will utilise the following criteria [not necessarily in this order] in choosing a Supplier/Service Provider, if so required:

Criterion/Criteria	Explanation
Administrative responsiveness	Completeness of response and returnable documents
Substantive responsiveness	<p>Prequalification criteria, if any, must be met and whether the Bid materially complies with the scope and/or specification given.</p> <ul style="list-style-type: none"> • Compliance to specification - Technical datasheet or specification of goods offered to be submitted with the tender document • All items on the Pricing Schedule should be priced; if not it will result in a bid being disqualified • To facilitate like-for-like comparison bidders must submit pricing strictly in accordance with this price schedule and not utilise a different format. Deviation from this pricing schedule could result in a bid being disqualified
Final weighted evaluation based on 90/10 preference point	<ul style="list-style-type: none"> • Pricing and price basis [firm] • B-BBEE status of company - Preference points will be awarded to a bidder for attaining the B-BBEE status level of contribution in accordance with the table indicated in Annexure A: B-BBEE Claim Form.

2 Validity Period

Transnet desires a validity period of 90 [ninety] Business Days from the closing date of this RFQ.

This RFQ is valid until _____.

3 Disclosure of Price - Quoted

Respondents must indicate here whether Transnet may disclose their quoted prices and conditions to other Respondents:

YES NO

4 Returnable Documents

Returnable Documents means all the documents, Sections and Annexures, as listed in the tables below.

All Returnable Sections, as indicated in the header and footer of the relevant pages, must be signed, stamped and dated by the Respondent.

- a) Respondents are required to submit with their Quotations the **mandatory Returnable Documents**, as detailed below.

Failure to provide all these Mandatory Returnable Documents at the Closing Date and time of this RFQ will result in a Respondent's disqualification. Respondents are therefore urged to ensure that all these Documents are returned with their Quotations.

Please confirm submission of these mandatory Returnable Documents by so indicating [Yes or No] in the tables below:

Mandatory Returnable Documents	Submitted [Yes or No]
SECTION 3 : Quotation Form	
Technical data sheet/specification of goods offered to be submitted	

- b) In addition to the requirements of section (a) above, Respondents are further required to submit with their Quotations the following **essential Returnable Documents** as detailed below.

Failure to provide all these Returnable Documents may result in a Respondent's disqualification. Respondents are therefore urged to ensure that all these documents are returned with their Quotations.

Essential Returnable Documents	Submitted [Yes or No]
SECTION 2 : Evaluation criteria and list of returnable documents	
- SECTION 4 : RFQ Declaration and Breach of Law Form	
- Valid and original, or a certified copy, of your entity's B-BBEE Verification Certification as per the requirements stipulated in Annexure A: B-BBEE Claims Form Note: failure to provide these required documents at the closing date and time of the RFQ will result in an automatic score of zero being allocated for preference	
- Original valid Tax Clearance Certificate [Consortia / Joint Ventures must submit a separate Tax Clearance Certificate for each party]	
ANNEXURE A – B-BBEE Preference Points Claim Form	

CONTINUED VALIDITY OF RETURNABLE DOCUMENTS

The successful Respondent will be required to ensure the validity of all returnable documents, including but not limited to its Tax Clearance Certificate and valid B-BBEE Verification Certificate, for the duration of any contract emanating from this RFQ. Should the Respondent be awarded the contract [**the Agreement**] and fail to present Transnet with such renewals as and when they become due, Transnet shall be entitled, in addition to any other rights and remedies that it may have in terms of the eventual Agreement, to terminate such Agreement forthwith without any liability and without prejudice to any claims which Transnet may have for damages against the Respondent.

SECTION 3 QUOTATION FORM

I/We _____
hereby offer to supply the goods/services at the prices quoted in the Price Schedule below, in accordance with the conditions related thereto.

I/We agree to be bound by those terms and conditions in:

- the Standard RFQ Terms and Conditions for the Supply of Goods or Services to Transnet; and
- any other standard or special conditions mentioned and/or embodied in this Request for Quotation.

I/We accept that unless Transnet should otherwise decide and so inform me/us, this Quotation [and, if any, its covering letter and any subsequent exchange of correspondence], together with Transnet's acceptance thereof shall constitute a binding contract between Transnet and me/us.

I/We further agree that if, after I/we have been notified of the acceptance of my/our Quotation, I/we fail to deliver the said goods/service/s within the delivery lead-time quoted, Transnet may, without prejudice to any other legal remedy which it may have, cancel the order and recover from me/us any expenses incurred by Transnet in calling for Quotations afresh and/or having to accept any less favourable offer.

Price Schedule

I/We quote as follows for the goods required, on a "delivered nominated destination" basis, excluding VAT:

Item No	Description of Goods / Services	Unit of Measure	Quantity	Unit Price (ZAR)	Total Price (ZAR)
1	Beka or equivalent UP-lighter LED pace 645 rated IP66	Each	72		
2	Type Beka or equivalent EX-LED Emergency Emergency Exit- Lisu P LED	Each	11		
3	E-Beka or Equivalent LED lume mazi streetlight luminaire 80/122-IP65 rated fiberglass pole mounted	Each	31		
4	E1-Beka or equivalent 9 meter fiberglass pole to take one LED lume 80/122 IP65 light fittings with single spigot version	Each	24		
5	E-2 Beka or equivalent 9meter fiberglass pole to take two LED Lume 80/122 IP65 light fittings with double spigot version.	Each	4		
6	A-Beka or Equivalent surface mounted A Dari Surface Mounted LED 35W (WHITE LED's)	Each	6		

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Item No	Description of Goods /Services	Unit of Measure	Quantity	Unit Price (ZAR)	Total Price (ZAR)
7	A1-Beka or Equivalent surface mounted A1 Dari Surface Mounted LED 35W(White LED)	Each	11		
8	B-Beka or equivalent to series 30-31020-20w LED bulkhead with helicoils	Each	23		
9	B1-Beka or equivalent to series 30-31020-20w LED bulkhead with helicoils emergency version 1 hour	Each	14		
10	C-Beka or equivalent series 52-52012-18w LED bulkhead with helicoils	Each	38		
11	D-Beka or Equivalent LED tec 108w Lowbay lights IP65	Each	31		
12	F-Beka or equivalent IP65 rated 1X54w dust and moisture proof completed with T5 lamps and electronic ballast	Each	6		
13	G-Beka or equivalent brite LED 30w IP65 rated bollard luminaries	Each	41		
14	G1-1 Beka or equivalent Zela post top 37w, 5.2 meter fiberglass pole completed with internal breakers cabling and accessories	Each	16		

Delivery Lead-Time from date of purchase order: _____ [days/weeks]

Notes to Pricing:

- All Prices must be quoted in South African Rand, exclusive of VAT
- All items on the Pricing Schedule should be priced; if not it will result in a bid being disqualified
- To facilitate like-for-like comparison bidders must submit pricing strictly in accordance with this price schedule and not use a different format. Deviation from this pricing schedule could result in a bid being disqualified
- Prices are to be quoted on a delivery basis to Richards Bay

Please note that should you have offered a discounted price(s), Transnet will only consider such price discount(s) in the final evaluation stage if offered on an unconditional basis.

By signing this Quotation Form the Respondent is deemed to acknowledge that he/she has made himself/herself thoroughly familiar, and agrees, with all the conditions governing this RFQ, including those contained in any printed form stated to form part hereof, including but not limited to the documents stated below and Transnet SOC Ltd will recognise no claim for relief based on an allegation that the Respondent overlooked any such condition or failed properly to take it into account for the purpose of calculating tendered prices or otherwise:

- Specifications and drawings included in this RFQ - if applicable; and

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2. The following documents all of which are available on Transnet’s website or upon request:

- 2.1. General Bid Conditions;
- 2.2. Standard RFQ Terms and Conditions for the Supply of Goods or Services to Transnet;
- 2.3. Supplier Integrity Pact;
- 2.4. Vendor Application Form and all supporting documents (first time vendors only)

Alternatively, for all existing vendors, please provide vendor number(s) here:

Transnet Operating Division	Unique Vendor Number	Yes / No
Transnet Group		
TFR, etc.		

In the Yes/No column above, please confirm that all the information e.g. company address and contact details, banking details etc. are still correct as at the time of allocation of the vendor number(s). Alternatively, Respondents are required to provide the updated information with their bid submission.

SIGNED at _____ on this _____ day of _____ 20__

SIGNATURE OF WITNESSES

ADDRESS OF WITNESSES

1 _____
Name _____

2 _____
Name _____

SIGNATURE OF RESPONDENT’S AUTHORISED REPRESENTATIVE: _____

NAME: _____

DESIGNATION: _____

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SECTION 4

RFQ DECLARATION AND BREACH OF LAW FORM

NAME OF ENTITY: _____

We _____ do hereby certify that:

1. Transnet has supplied and we have received appropriate responses to any/all questions [as applicable] which were submitted by ourselves for RFQ Clarification purposes;
2. we have received all information we deemed necessary for the completion of this Request for Quotation [RFQ];
3. we have been provided with sufficient access to the existing Transnet facilities/sites and any and all relevant information relevant to the Supply of the Goods as well as Transnet information and Employees, and has had sufficient time in which to conduct and perform a thorough due diligence of Transnet's operations and business requirements and assets used by Transnet. Transnet will therefore not consider or permit any pre- or post-contract verification or any related adjustment to pricing, service levels or any other provisions/conditions based on any incorrect assumptions made by the Respondent in arriving at his Bid Price.
4. at no stage have we received additional information relating to the subject matter of this RFQ from Transnet sources, other than information formally received from the designated Transnet contact(s) as nominated in the RFQ documents;
5. we are satisfied, insofar as our entity is concerned, that the processes and procedures adopted by Transnet in issuing this RFQ and the requirements requested from Bidders in responding to this RFQ have been conducted in a fair and transparent manner; and
6. furthermore, we declare that a family, business and/or social relationship **exists / does not exist** [delete as applicable] between an owner / member / director / partner / shareholder of our entity and an employee or board member of the Transnet Group including any person who may be involved in the evaluation and/or adjudication of this Bid.
7. In addition, we declare that an owner / member / director / partner / shareholder of our entity **is / is not** [delete as applicable] an employee or board member of the Transnet Group.
8. If such a relationship as indicated in paragraph 6 and/or 7 exists, the Respondent is to complete the following section:

FULL NAME OF OWNER/MEMBER/DIRECTOR/
PARTNER/SHAREHOLDER:

ADDRESS:

Indicate nature of relationship with Transnet:

[Failure to furnish complete and accurate information in this regard will lead to the disqualification of a response and may preclude a Respondent from doing future business with Transnet]

9. We declare, to the extent that we are aware or become aware of any relationship between ourselves and Transnet [other than any existing and appropriate business relationship with Transnet] which could unfairly advantage our entity in the forthcoming adjudication process, we shall notify Transnet immediately in writing of such circumstances.

BREACH OF LAW

10. We further hereby certify that I/we ~~have~~ **have not been** [delete as applicable] found guilty during the preceding 5 [five] years of a serious breach of law, including but not limited to a breach of the Competition Act, 89 of 1998, by a court of law, tribunal or other administrative body. The type of breach that the Respondent is required to disclose excludes relatively minor offences or misdemeanours, e.g. traffic offences. This includes the imposition of an administrative fine or penalty.

Where found guilty of such a serious breach, please disclose:

NATURE OF BREACH:

DATE OF BREACH: _____

Furthermore, I/we acknowledge that Transnet SOC Ltd reserves the right to exclude any Respondent from the bidding process, should that person or entity have been found guilty of a serious breach of law, tribunal or regulatory obligation.

SIGNED at _____ on this _____ day of _____ 20____

For and on behalf of _____ duly authorised hereby	AS WITNESS:
Name:	Name:
Position:	Position:
Signature:	Signature:
Date:	Registration No of Company/CC _____
Place:	Registration Name of Company/CC _____

**SUPPLY AND DELIVERY OF
VARIOUS ELECTRICAL LIGHT FITTINGS**

ANNEXURE A: B-BBEE PREFERENCE POINTS CLAIM FORM

This preference form contains general information and serves as a claim for preference points for Broad-Based Black Economic Empowerment [**B-BBEE**] Status Level of Contribution.

1. INTRODUCTION

- 1.1 A total of 10 preference points shall be awarded for B-BBEE Status Level of Contribution.
- 1.2 Failure on the part of a Bidder to fill in and/or to sign this form and submit a B-BBEE Verification Certificate from a Verification Agency accredited by the South African Accreditation System [**SANAS**] or a Registered Auditor approved by the Independent Regulatory Board of Auditors [**IRBA**] or an Accounting Officer as contemplated in the Close Corporation Act [**CCA**] together with the bid will be interpreted to mean that preference points for B-BBEE Status Level of Contribution are not claimed.
- 1.3 Transnet reserves the right to require of a Bidder, either before a Bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by Transnet.

2. GENERAL DEFINITIONS

- 2.1 "**all applicable taxes**" include value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies;
- 2.2 "**B-BBEE**" means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- 2.3 "**B-BBEE status of contributor**" means the B-BBEE status received by a measured entity based on its overall performance using the relevant scorecard contained in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- 2.4 "**Bid**" means a written offer in a prescribed or stipulated form in response to an invitation by Transnet for the provision of goods, works or services;
- 2.5 "**Broad-Based Black Economic Empowerment Act**" means the Broad-Based Black Economic Empowerment Act, 2003 [Act No. 53 of 2003];
- 2.6 "**comparative price**" means the price after the factors of a non-firm price and all unconditional discounts that can be utilised have been taken into consideration;
- 2.7 "**consortium or joint venture**" means an association of persons for the purpose of combining their expertise, property, capital, efforts, skills and knowledge in an activity for the execution of a

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- contract;
- 2.8 **"contract"** means the agreement that results from the acceptance of a bid by Transnet;
- 2.9 **"EME"** means any enterprise with an annual total revenue of R5 [five] million or less as per the 2007 version of the B-BBEE Codes of Good Practice and means any enterprise with an annual total revenue of R10 [ten] million or less as per the Revised Codes of Good Practice issued on 11 October 2013 in terms of Government Gazette No. 36928;
- 2.10 **"firm price"** means the price that is only subject to adjustments in accordance with the actual increase or decrease resulting from the change, imposition, or abolition of customs and excise duty and any other duty, levy, or tax, which, in terms of the law or regulation, is binding on the contractor and demonstrably has an influence on the price of any supplies, or the rendering costs of any service, for the execution of the contract;
- 2.11 **"functionality"** means the measurement according to predetermined norms, as set out in the bid documents, of a service or commodity that is designed to be practical and useful, working or operating, taking into account, among other factors, the quality, reliability, viability and durability of a service and the technical capacity and ability of a bidder;
- 2.12 **"non-firm prices"** means all prices other than "firm" prices;
- 2.13 **"person"** includes reference to a juristic person;
- 2.14 **"QSE"** means any enterprise with an annual total revenue between R5 [five] million and R35 [thirty five] million as per the 2007 version of the B-BBEE Codes of Good Practice and means any enterprise with an annual total revenue of between R10 [ten] million and R50 [fifty] million as per the Revised Codes of Good Practice issued on 11 October 2013 in terms of Government Gazette No. 36928
- 2.15 **"rand value"** means the total estimated value of a contract in South African currency, calculated at the time of bid invitations, and includes all applicable taxes and excise duties;
- 2.16 **"subcontract"** means the primary contractor's assigning or leasing or making out work to, or employing another person to support such primary contractor in the execution of part of a project in terms of the contract;
- 2.17 **"total revenue"** bears the same meaning assigned to this expression in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Empowerment Act and promulgated in the Government Gazette on 9 February 2007;
- 2.18 **"trust"** means the arrangement through which the property of one person is made over or bequeathed to a trustee to administer such property for the benefit of another person; and
- 2.19 **"trustee"** means any person, including the founder of a trust, to whom property is bequeathed in order for such property to be administered for the benefit of another person.

3. ADJUDICATION USING A POINT SYSTEM

- 3.1 The Bidder obtaining the highest number of total points for the evaluation criteria as enumerated

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in Section 2 of the RFP will be awarded the contract, unless objective criteria justifies the award to another bidder.

- 3.2 Preference points shall be calculated after prices have been brought to a comparative basis taking into account all factors of non-firm prices and all unconditional discounts.
- 3.3 Points scored will be rounded off to 2 [two] decimal places.
- 3.4 In the event of equal points scored, the Bid will be awarded to the Bidder scoring the highest number of preference points for B-BBEE.
- 3.5 However, when functionality is part of the evaluation process and two or more Bids have scored equal points including equal preference points for B-BBEE, the successful Bid will be the one scoring the highest score for functionality.
- 3.6 Should two or more Bids be equal in all respects, the award shall be decided by the drawing of lots.

4. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTION

- 4.1 In terms of the Preferential Procurement Regulations, 2011, preference points shall be awarded to a Bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

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

- 4.2 Bidders who qualify as EMEs in terms of the 2007 version of the Codes of Good Practice must submit a certificate issued by an Accounting Officer as contemplated in the CCA or a Verification Agency accredited by SANAS or a Registered Auditor. Registered auditors do not need to meet the prerequisite for INDA's approval for the purpose of conducting verification and issuing EME's with B-BBEE Status Level Certificates.
- 4.3 Bidders who qualify as EMEs in terms of the Revised Codes of Good Practice issued on 11 October 2013 in terms of Government Gazette No. 36928 are only required to obtain a sworn affidavit on an annual basis confirming that the entity has an Annual Total Revenue of R10 million or less and the entity's Level of Black ownership.
- 4.4 In terms of the 2007 version of the Codes of Good Practice, Bidders other than EMEs must submit their original and valid B-BBEE status level verification certificate or a certified copy thereof,

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- substantiating their B-BBEE rating issued by a Registered Auditor approved by IRBA or a Verification Agency accredited by SANAS.
- 4.5 The Department of Trade and Industry recently revised the Codes of Good Practice on 11 October 2013 [Government Gazette No. 36928]. The Revised Codes will replace the Black Economic Empowerment Codes of Good Practice issued on 9 February 2007. The Revised Codes provide for a transitional period ending 30 April 2015. During the transitional period, companies may elect to be measured in terms of the Revised Codes or the 2007 version of the Codes. Companies which are governed by Sector-specific Codes will be measured in terms of those Sector Codes.
- 4.6 As such, Transnet will accept B-BBEE certificates issued based on the Revised Codes. Transnet will also continue to accept B-BBEE certificates issued in terms of the 2007 version of the Codes provided it was issued before 1 May 2015. Thereafter, Transnet will only accept B-BBEE certificates issued based on the Revised Codes.
- 4.7 In terms of the Revised Codes of Good Practice, Bidders who qualify as QSEs must comply with all the elements of B-BBEE for the purposes of measurement. QSEs that are at least 51% or 100% Black owned are only required to obtain a sworn affidavit on an annual basis confirming that the entity has an Annual Total Revenue of R50 million or less and the entity's Level of Black ownership. Large enterprises must submit their original and valid B-BBEE status level verification certificate or a certified copy thereof substantiating their B-BBEE rating issued by a Registered Auditor approved by IRBA or a Verification Agency accredited by SANAS.
- 4.8 A trust, consortium or joint venture will qualify for points for its B-BBEE status level as a legal entity, provided that the entity submits its B-BBEE status level certificate.
- 4.9 A trust, consortium or joint venture will qualify for points for their B-BBEE status level as an unincorporated entity, provided that the entity submits their consolidated B-BBEE scorecard as if they were a group structure and that such a consolidated B-BBEE scorecard is prepared for every separate bid.
- 4.10 Tertiary institutions and public entities will be required to submit their B-BBEE status level certificates in terms of the specialised scorecard contained in the B-BBEE Codes of Good Practice.
- 4.11 A person will not be awarded points for B-BBEE status level if it is indicated in the Bid documents that such a Bidder intends subcontracting more than 25% [twenty-five per cent] of the value of the contract to any other enterprise that does not qualify for at least the same number of points that such a Bidder qualifies for, unless the intended subcontractor is an EME that has the capability and ability to execute the subcontract.
- 4.12 A person awarded a contract may not subcontract more than 25% [twenty-five per cent] of the value of the contract to any other enterprise that does not have an equal or higher B-BBEE status level than the person concerned, unless the contract is subcontracted to an EME that has the capability and ability to execute the subcontract.
- 4.13 Bidders are to note that in terms of paragraph 2.6 of Statement 000 of the Revised Codes of Good Practice issued on 11 October 2013 in terms of Government Gazette No. 36928, any representation made by an entity about its B-BBEE compliance must be supported by suitable

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evidence or documentation. As such, Transnet reserves the right to request such evidence or documentation from Bidders in order to verify any B-BBEE recognition claimed.

5. B-BBEE STATUS AND SUBCONTRACTING

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

B-BBEE Status Level of Contributor _____ = _____ [maximum of 10 points]

Note: Points claimed in respect of this paragraph 5.1 must be in accordance with the table reflected in paragraph 4.1 above and must be substantiated by means of a B-BBEE certificate issued by a Verification Agency accredited by SARS or a Registered Auditor approved by IRBA or a sworn affidavit in the case of an EME or QSE.

5.2 Subcontracting:

Will any portion of the contract be subcontracted? YES/NO [delete which is not applicable]

If YES, indicate:

- (i) What percentage of the contract will be subcontracted?%
- (ii) The name of the subcontractor
- (iii) The B-BBEE status level of the subcontractor
- (iv) Is the subcontractor an EME? YES/NO

5.3 Declaration with regard to Company/Firm

- (i) Name of Company/Firm
- (ii) VAT registration number
- (iii) Company registration number
- (iv) Type of Company / Firm [TICK APPLICABLE BOX]
 - Partnership/Joint Venture/Consortium
 - One person business/sole propriety
 - Close Corporations
 - Company (Pty) Ltd
- (v) Describe Principal Business Activities

.....

.....
- (vi) Company Classification [TICK APPLICABLE BOX]
 - Manufacturer
 - Supplier
 - Professional Service Provider

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- Other Service Providers, e.g Transporter, etc
- (vii) Total number of years the company/firm has been in business.....

BID DECLARATION

I/we, the undersigned, who warrants that he/she is duly authorised to do so on behalf of the company/firm, certify that points claimed, based on the B-BBEE status level of contribution indicated in paragraph 4 above, qualifies the company/firm for the preference(s) shown and I / we acknowledge that:

- (i) The information furnished is true and correct.
- (ii) In the event of a contract being awarded as a result of points claimed as shown in paragraph 6 above, the contractor may be required to furnish documentary proof to the satisfaction of Transnet that the claims are correct.
- (iii) If the B-BBEE status level of contribution has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, Transnet may, in addition to any other remedy it may have:
 - (a) disqualify the person from the bidding process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) restrict the Bidder or contractor, its shareholders and directors, and/or associated entities, or only the shareholders and directors who acted in a fraudulent manner, from obtaining business from Transnet for a period not exceeding 10 years, after the *audi alteram partem* [hear the other side] rule has been applied; and/or
 - (e) forward the matter for criminal prosecution.

WITNESSES:

1.

.....

2.

.....

SIGNATURE OF BIDDER

DATE:.....

COMPANY NAME:

ADDRESS:.....

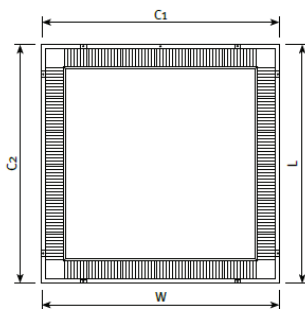
ANNEXURE B: SPECIFICATION OF GOODS

SPECIFICATION: 4116167-01

TYPE: A and A1 – DARI Surface mounted LED fluorescent (Item 6, 7 on the Pricing Schedule)

The LED Panel luminaire must be supplied with LED’s with a CRI > 80 and make use of 4000k – neutral white LED’s. It must have a complete circuit wattage of between 35 Watts (for the 600 x 600 version) 3080 lumen. The luminaire must consist of a single enclosed housing with non-colouring opaque acrylic diffuser and a white (White RAL 9016) polycarbonate body frame. The inner module must be no more than 70mm in depth Long useful lifetime of the LEDs (50 000hrs @ Tq 25°C, L70) Light colour: neutral white light (4000K) Ambient temperature range of -10 to 40°C The assembly and testing of the LED luminaire shall be undertaken within an ISO 9001 certified factory, in South Africa Made in accordance to EN 60598 and EN 62262 Surface mounted version. Emergency version must have self-testing I hour gear Dimensions: strictly as drawing below

DIMENSIONS



Dari	600x600	600x1200
L	595mm	1195mm
W	595mm	1195mm
H	69,5mm	69,5mm
C1 (Cut-out)	575mm	1175mm
C2 (Cut-out)	575mm	575mm

This is the insert that goes into the surface box

TYPE: B and B1- LED Bulkhead – Series 31020 (Item 8 & 9 on the Pricing Schedule)

The luminaire shall consist of a high-pressure die-cast aluminium base and trim ring, and an opal high-impact acrylic diffuser. It shall be designed to operate LED and must be a 20 watt version with 2000 lumens. The LED is to be 4000k – neutral white with a CRI > 70 The luminaire shall bear the SANS 60598-1 safety mark and have a Ta rating of 35 degrees The luminaire shall have a degree of protection that complies with SANS 60598-2-1: (IP65)

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All base castings shall be manufactured from marine grade EN 1706 AC- 44300 high pressure die-cast aluminium, finished both outside and inside in white epoxy powder coating for added protection and reflectivity. It shall be simple to install due to four mounting holes provided outside the lamp compartment through lugs that form part of the base casting. The trim ring casting shall be mounted onto the base casting by 4 stainless steel M5 Allen head screws, located outside the lamp compartment. The fixing holes shall be supplied with stainless steel helicoil inserts.

An opal non-discolouring high-impact acrylic injection moulded diffuser shall be used. It shall offer excellent vandal resistance, be highly translucent and shall not discolour even when subjected to the harshest UV environments. A silicon sponge gasket shall be fitted into a special groove in the diffuser to prevent damage to the gasket during installation and to achieve the certified ingress protection rating of IP 65.

The trim ring casting shall be manufactured from high-pressure die-cast aluminium and shall be finished in a special multi-stage epoxy powder surface coating. The trim ring is to have 16 supports pressing own on the SPECIFICATION: 4116167-02

Diffuser when closed.

The LED useful lifetime shall be a minimum of 50 000hrs (L80). The LED shall be an effective high-power LEDs, 4 000K at a colour rendering index of minimum 70.

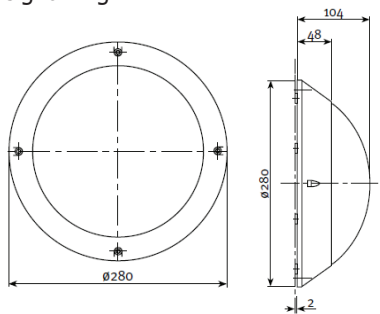
Emergency version is to be incorporated in the luminaire 1 hour self-testing version.

The control gear shall be mounted directly onto the base casting, ensuring cool operation. It shall be suitable for operation with the specified rating of the lamp on a 230V +3%/-10% 50Hz single phase system. All inter-connecting wiring shall be Teflon® insulated with protective sleeving to prevent damage by possible abrasion. All external screws, bolts and metals shall be stainless steel or non-corrosive material. Mains connections shall be by means of a suitable screw terminal block with a wire clamping contact. The luminaire shall be power factor corrected to a minimum of 0,9 and shall be supplied with a 300mm supply lead.

The luminaire must be manufactured in South Africa in an ISO 9001 facility.

Dimensions: strictly as drawing below

Weight: 2kg



TYPE: C LED Bulkhead – Series 52018 (Item 10 on the Pricing Schedule)

The luminaire shall consist of a high-pressure die-cast aluminium base and trim ring, and an opal high-impact acrylic diffuser. It shall be designed to operate 16 LED's and must be an 18 watt version with 2360 lumens. The LED is to be 4000k – neutral white with a CRI > 70

The luminaire shall bear the SANS 60598-1 safety mark and have a Ta rating of 35 degrees

The luminaire shall have a degree of protection that complies with SANS 60598-2-1: (IP65)

All base castings shall be manufactured from marine grade EN 1706 AC-44300 high pressure die-cast aluminium, finished both outside and inside in white epoxy powder coating for added protection and reflectivity. It shall be simple to install due to four mounting holes provided outside the lamp compartment through lugs that form part of the base casting. The trim ring casting shall be mounted onto the base casting by 4 stainless steel M5 Allen head screws, located outside the lamp compartment. The fixing holes shall be supplied with stainless steel helicoil inserts.

An opal non-discolouring high-impact acrylic injection moulded diffuser shall be used. It shall offer excellent vandal resistance, be highly translucent and shall not discolour even when subjected to the harshest UV environments. A silicon sponge gasket shall be fitted into a special groove in the diffuser to prevent damage to the gasket during installation and to achieve the certified ingress protection rating of IP 65.

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The trim ring casting shall be manufactured from high-pressure die-cast aluminium and shall be finished in a special multi-stage epoxy powder surface coating. The trim ring is to have 22 supports pressing own on the diffuser when closed.

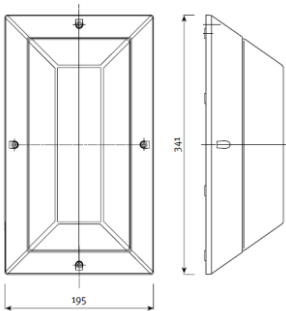
The LED useful lifetime shall be a minimum of 50 000hrs (L80). The LED shall be an effective high-power LEDs, 4 000K at a colour rendering index of minimum 70.

The control gear shall be mounted directly onto the base casting, ensuring cool operation. It shall be suitable for operation with the specified rating of the lamp on a 230V +3%/-10% 50Hz single phase system. All inter-connecting wiring shall be Teflon® insulated with protective sleeving to prevent damage by possible abrasion. All external screws, bolts and metals shall be stainless steel or non-corrosive material. Mains connections shall be by means of a suitable screw terminal block with a wire clamping contact. The luminaire shall be power factor corrected to a minimum of 0,9 and shall be supplied with a 300mm supply lead.

The luminaire must be manufactured in South Africa in an ISO 9001 facility.

Dimensions: strictly as drawing below

Weight: 2.2kg



Specification: 4116167-03

TYPE: D LED Lowbay – LEDtec 108w (Item 11 on the Pricing Schedule)

The LED lowbay luminaire must be supplied with 48 x (4000k – neutral white) LED's with a CRI > 70 and have a complete circuit wattage of 108 Watts and a lumen output of 12000 lumen.

The luminaire consists of an IP 66 protected LED engine, which is thermally separated from the power supply/driver compartment. Ease of installation is facilitated by the external mounting lugs and a hingeable connector plate.

The luminaire housing is manufactured from stainless steel (3cr12), epoxy powder coated to Schreder's renowned specification for exterior finishes.

The protector is manufactured from high-impact clear flat glass (IK08). The luminaire bears the SANS 60598 mark.

The lowbay is designed to operate LED light sources of 108W in an ambient temperature environment of up to 35°C, without reducing the LED lifetime of 90 000 hours with 30% light depreciation (L70). The LEDs are effective high-power LEDs, 4000K at a colour rendering index ≥ 70 .

To maximize the reliability of the LEDs, the photometric engine is completely sealed to IP 66. This ensures that the photometric performance is maintained over time (LED Safe). Electronic temperature monitoring prevents overheating of LEDs and power supply, positioned directly next to LEDs (ThermiX®).

Optical compartment tightness level: IP 66

Control gear tightness level: IP 66

Impact resistance (glass): IK 08

Nominal voltage: 108-305V - 50Hz

Electrical class: I

Weight (total): 11.2 kg

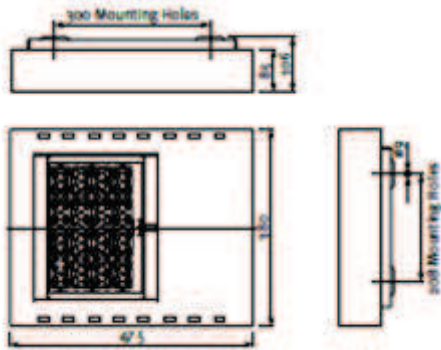
Dimensions strictly to drawing below

The luminaire must be manufactured in South Africa in an ISO 9001 facility

Luminaire to bear the SANS 60598

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TYPE: E - LED STREETLIGHT: LEDlume Maxi 122w (Item 3 on the Pricing Schedule)

The LED streetlight luminaire must be supplied with 80 x (4000K – neutral white) LED's with a CRI > 70 and have a complete circuit wattage of 122 Watts and a lumen output of 115980 lumen. The luminaire may only have an IP rating of IP 66. The luminaire must only be manufactured from Marine grade (EN 1706 AC-44300) die cast aluminium and must consist of two Separate pieces. The luminaire must also have 3 separate compartments, a lamp compartment, gear compartment and a spigot compartment. The spigot mounting compartment shall be suitable for side entry and have a spigot entry that complies with SANS 1088 - 42mm x 125mm only. This compartment is attached to the spigot by two stainless steel screw. The lamp and control gear section will hinge on this compartment on a stainless steel bar hinging mechanism. It will be shut by means of two stainless steel latches.

The lamp and gear compartment must have cooling fins above the lamp compartment that are designed in such a manner as to prevent dirt accumulation. The cooling rib height to width ratio may not exceed 0.7. The LED's are to be covered by a flat tempered glass with an IK07 rating. Each LED must be covered with a lens that provides the required distribution – 5102 lenses to be used. The power supply (which is mounted within the luminaire in its own IP 66 separated compartment) must be able to operate between 198-265VAC at 50Hz on single phase system. It must comply with EMC – EN55015 and EN 61347-1. It must be able to operate between -15 deg to +60 deg case temperature. It must have the same life as the LED's. It must be power factor corrected to >95 and have a efficiency of >89% The PCB board must have temperature monitoring sensors incorporated within. The luminaire must have a SPECIFICATION: 4116167-04

Ta rating of 35 Degrees. The luminaire is to be provided with a 20 KVA surge protection device. The luminaire must automatically disconnect when hinged open.

Mass 12.4 kg

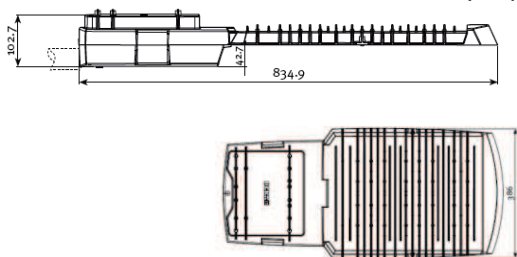
Dimensions: 834.9x386

Windage area: 0.045m squared

The luminaire must be manufactured in South Africa in an ISO 9001 facility.

It must have the SANS/IEC 60598-2-3 mark

Luminaire is to match LED luminaires already supplied to client



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TYPE: E1 - FIBREGLASS STREETLIGHT POLE – Single streetlight (Item 4 on the Pricing Schedule):

10.4m total length GRP fibreglass streetlight pole (K187690/bmk). The pole must be manufactured to accommodate one streetlight luminaires. The Pole is to be manufactured using a filament winding process, whereby continuous glass roving's are led through a polyester resin bath and wound at an even tension onto a rotating mandrel. The glass to resin ratio must only be 70:30 The grey gel coat polyester resin that finishes off the pole, must comply with the requirements of SANS 1749 (SABS certificate to be provided). This pole must be manufactured in an ISO 9002 approved facility (Proof to be provided).The heavy duty tamper resistant access door must manufactured from glass filled nylon impregnated in the same colour as that of the surface coat. It must be secured by a large stainless steel plate at the back of this door cover. The screws must be stainless steel allen head screws.

The pole is to be provided with a 5amp MCB, 300 x 300x1.6 HDG baseplate and a glandplate with two cut outs and MCB facility.

The pole is to come complete with a one way stainless steel spigot that is moulded into the pole

TYPE: E2 - FIBREGLASS STREETLIGHT POLE – Double streetlight (Item 5 on the Pricing Schedule):

10.4m total length Extra heavy duty GRP fibreglass streetlight pole (K187690/bmk). The pole is to be wound 30% stronger to accommodate two streetlight luminaires. The Pole is to be manufactured using a filament winding process, whereby continuous glass roving's are led through a polyester resin bath and wound at an even tension onto a rotating mandrel. The glass to resin ratio must only be 70:30 The grey gel coat polyester resin that finishes off the pole, must comply with the requirements of SANS 1749 (SABS certificate to be provided). This pole must be manufactured in an ISO 9002 approved facility (Proof to be provided).The heavy duty tamper resistant access door must manufactured from glass filled nylon impregnated in the same colour as that of the surface coat. It must be secured by a large stainless steel plate at the back of this door cover. The screws must be stainless steel allen head screws.

The pole is to be provided with a 2x 5amp MCB, a 300x300x1.6 HDG baseplate and a glandplate with two cut outs and MCB facility.

The pole is to come complete with a two way stainless steel spigot that is moulded into the pole

Total length of pole (m)	Height of pole above ground (m)	Diameter of pole at ground level (mm)	Load to be applied in pole-top deflection test (N)	Maximum permitted deflection in pole-top deflection test (mm)
10.4	9.0	218	294.3	450

TYPE: F Weather proof fluorescent – VLN 1x 54w (Item 12 on the Pricing Schedule):

Specification: 4116167-05

The weather proof fitting must be provided with 1 x 54w T5 lamp – 4450 lumens.

The luminaire shall consist of an injection-moulded, flame-retardant polycarbonate housing and prismatic diffuser. The powder coated white reflector and control gear tray, upon which all electrical components are mounted, shall be secured by means of multiple twist lock latches to secure the reflector to the housing. The silicon sponge seal shall be moulded into the housing to ensure an optimal seal between the housing and the prismatic diffuser. Two of the stainless steel latches shall facilitate the hinging of the diffuser and shall ensure correct alignment when closing the diffuser. It shall be designed to operate 1 x 54w fluorescent lamp

The luminaire shall bear the SANS 475 performance mark and the SANS 60598-2-1 safety mark.

The luminaire shall have a degree of protection that complies with SANS 60598-2-1.(IP65 rating)

The body shall be manufactured from injection-moulded, flame-retardant polycarbonate material. Mounting shall be facilitated through removable external stainless steel mounting brackets, which can accommodate either surface or suspension mounting.

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A 20mm gland entry shall be provided at one end with a knock out at the opposite end, making it suitable for surface or through wiring. A silicon sponge gasket shall be fitted into a special groove in the housing. This, in conjunction with the tongue provided on the diffuser, shall ensure the optimal sealing of the total enclosure, thereby maintaining the certified IP65 ingress protection rating.

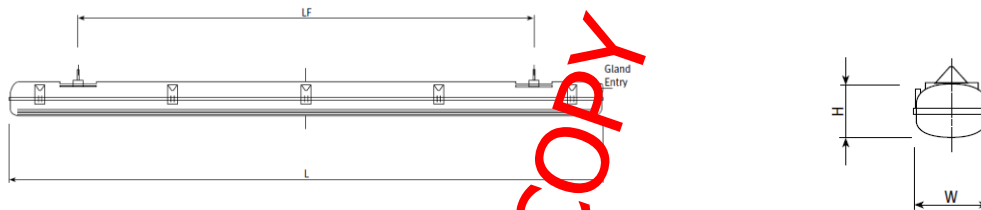
The diffuser shall be manufactured from the same material as the housing, thus ensuring the flame-retardant integrity of the luminaire. The highly effective internal prisms of the diffuser shall ensure an optimal distribution of more than 80%. The diffuser shall be secured in place through multiple sprung stainless steel clips which shall ensure the integrity of the IP rating. Two of these clips shall keep the diffuser attached to the luminaire when hinged open, for ease of lamp replacement.

The ballast and all auxiliary components shall be mounted on the reverse side of the powder coated steel reflector and shall be accessible for maintenance. The internal reflector and control gear tray shall be attached to the body of the luminaire by multiple wingnut shaped fasteners. Two removable control gear tray straps shall suspend the reflector and control gear tray when released from the body, for ease of maintenance. The electronic control gear shall be suitable for operation with the specified lamps on a 230V +3%/-10% at 50Hz, single phase supply. All control gear components shall be removable and bear the relevant SABS mark. Mains connections shall be by means of a suitable screw terminal block with a wire clamping contact. The luminaire shall be power factor corrected to a minimum of 0,9.

Weight (total): 1.7 kg

Dimensions strictly to drawing below

The luminaire must be supplied by a South Africa in an ISO 9001 facility



L mm	W mm	H mm	LF mm	Clips
1270	86	90	900	8

TYPE: G LED Bollard – Brite LED30w (Item 13 on the Pricing Schedule):

The LED buried bollard flat top luminaire must be supplied with 24 x (4500k white) LED's with a CRI > 80 and have a complete circuit wattage of 30 Watts and a lumen output of 2808 lumen.

The luminaire shall consist of a head assembly containing the LED's and optics, as well as a pole base assembly containing the control gear. The pole base assembly shall be manufactured from glass filament wound GRP fibreglass.

The luminaire shall bear the SANS 60598-2-3 safety mark and the SANS 475 performance mark.

The luminaire shall have a degree of protection that complies with SANS 60598-2-3: (IP66 rating)

The bollard head assembly shall be manufactured from three marine grade (EN 1706 AC-47300) high pressure die cast aluminium castings consisting of the base casting which shall be fixed permanently to the pole, the top casting which compresses the gasket system by three tie bars and the dome trim casting.

The Specification: 4116167-06

Trim casting shall be held to the top casting with a special anti-twist device and one stainless steel captive Allen head screw.

The bollard lens shall be manufactured from a high temperature, non-discolouring clear impact resistant acrylic with a wall thickness of not less than 8mm. It shall be seamless and smooth on both the inside and outside. The gasket system shall ensure that the bollard head assembly is completely sealed from the pole base assembly to ensure that no humidity or dust from the pole assembly rises into the lamp compartment.

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The optical system used in conjunction with the clear diffuser version shall consist of a bead blasted aluminium louvre system providing quality low-level lighting and glare control.

The LED useful lifetime shall be a minimum of 50 000hrs. The LED shall be an effective high-power OSRAM LED, 4 500K at a colour rendering index of minimum 80.

The control gear shall be incorporated inside the pole base assembly and shall be mounted on a 2mm stainless steel gear tray which shall be held to the base casting with two captive screws for ease of maintenance. It shall be suitable for operation with the specified rating of the lamp on a 230V+3%/-10% 50 Hz single phase system. All control gear components shall be removable and bear the relevant mark. All internal wiring shall be Teflon® coated with protective sleeving to prevent damage by possible abrasion. All screws, bolts and metal parts shall be stainless steel or non-corrosive material. Mains connections shall be by means of a suitable screw terminal block with a wire clamping contact. Igniters, where applicable, shall be of the superposed pulse type. The luminaire shall be power factor corrected to a minimum of 0,9.

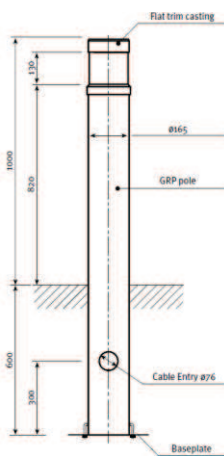
Optical compartment tightness level: IP 66

Electrical class: I

Weight (total): 11 kg

Dimensions strictly to drawing below

The luminaire must be manufactured in South Africa in an ISO 9001 facility



TYPE: G1 LED post top and pole – Zela 37W and K187645 Pole (Item 14 on the Pricing Schedule):

The LED Post top luminaire must be supplied with 16 LED's with a CRI > 70 and make use of 4000k – neutral white LED's. It must have a complete circuit wattage of 37 Watts and a lumen output of 4128 lumen. No other wattage will be accepted.

The luminaire must consist of 3 separated compartments, the Spigot compartment, the lamp LED compartment and the gear compartment. The luminaire may only have an IP rating of 66 (Certified by a recognised authority) for the LED compartment and the gear compartment. The luminaire top cover must be round in shape with a slight curve. It must be manufactured from a Plasmid material that is UV resistant. The luminaire must be glare free and the LED's must shine upward in its IP66 enclosure onto a highly efficient glare free white reflector.

The diffuser must be tapered from the top lid downwards to the spigot housing. The material must be high impact and clear with an IK 08 rating.

The luminaire spigot must only be manufactured from marine grade die cast aluminium (EN 1706 AC-47000 grade) only. (The spigot mounting compartment shall be suitable for bottom entry and have a spigot entry that complies with SANS 1088 (76 Diameter). This spigot compartment is attached to the optical department by two stainless steel screw.

The lifetime of the power supply or driver shall be 100 000hrs with 90% survival over the lifetime

The LED's are to be covered by a Tapered PMMA protector with an impact resistance of IK08 rating.

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Specification: 4116167-07

The luminaire supplied must give a symmetrical distribution.

The power supply (which is mounted within the luminaire in its own IP 66 separated compartment) must be able to operate between 185- 285 VAC at 50Hz on single phase system. It must comply with EMC – EN55015 an EN 61347-1. It must be able to operate between -15 deg to +60 deg case temperature. It must have the same life as the LED's. It must be power factor corrected to >95 and have a efficiency of >89%

The PCB board must have a form of temperature monitoring sensors incorporated within. The luminaire must have a Ta rating of 35 Degrees (Certified by an independent Authorised authority). The luminaire is to be provided with a 10kV/10kA surge protection device.

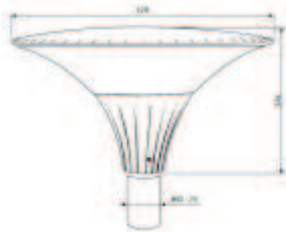
Various components such as the aluminium housings, PMMA protectors, silicon gaskets, top covers and stainless steel latches/clips shall be manufactured in South Africa, in line with the government directive of local manufacturing support. The assembly and testing of the LED luminaire shall be undertaken within an ISO 9001 certified factory, in South Africa. The luminaire must bear the SANS 60598-2-3 mark (Proof will be required)

Optical compartment tightness level: IP 66

Electrical class: I

Weight (total): 4.9 kg

Dimensions strictly to drawing below



Pole:

5.2 total length GRP fibreglass streetlight pole (K187545/bmk). The pole must be manufactured to accommodate one streetlight luminaires. The Pole is to be manufactured using a filament winding process, whereby continuous glass roving's are led through a polyester resin bath and wound at an even tension onto a rotating mandrel. The glass to resin ratio must only be 70:30 The grey gel coat polyester resin that finishes off the pole, must comply with the requirements of SANS 1749 (SABS certificate to be provided). This pole must be manufactured in an ISO 9002 approved facility (Proof to be provided).The heavy duty tamper resistant access door must manufactured from glass filled nylon impregnated in the same colour as that of the surface coat. It must be secured by a large stainless steel plate at the back of this door cover. The screws must be stainless steel allen head screws.

The pole is to be provided with a 5amp MCB, 300 x 300x1.6 HDG baseplate and a glandplate with two cut outs and MCB facility.

Total length of pole (m)	Height of pole above ground (m)	Diameter of pole at ground level (mm)	Load to be applied in pole-top deflection test (N)	Maximum permitted deflection in pole-top deflection test (mm)
5.2	4.5	155	182.3	225

TYPE: Uplighter LED – LED pace 645 (Item 1 on the Pricing Schedule):

The LED buried uplighter must be 26 circuit watts (5000K) with a lumen output of 2400 lumens.

The luminaire shall be installed into a recessed non-metallic mounting box, to form a flush mounted finish.

The high efficiency optical systems shall be available in a Middle beam distribution. The front glass shall be a 10mm flush safety glass, capable of bearing a load of 500kg, to which a silicon gasket shall be secured. The stainless steel retaining frame shall be secured to the luminaire housing with interspersed stainless steel screws, which shall form an IP

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67 seal in conjunction with the silicon gasket of the front glass.

The luminaire shall bear the SANS 60598-2-1 safety mark.

The control gear shall be integral. All inter-connecting wiring shall be Teflon® insulated with protective sleeving to prevent damage by possible abrasion. All external screws, bolts and metals shall be stainless steel or of non-corrosive material. It shall be power factor corrected to 0,9.

Optical compartment tightness level: IP 67

Nominal voltage: 230V – 50Hz

Electrical class: I

Correlated colour temperature (CCT): Neutral white light (5000K, CRI ≥70)

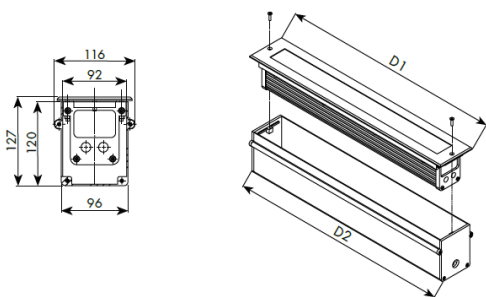
Materials: Body: Extruded aluminium

Standard finish: Stainless steel

SPECIFICATION: 4116167-08

Dimensions strictly to drawing below

	D1	D2
LEDpace 645	645mm	640mm



Specification: 4116167-09

TYPE: EMERGENCY EXIT – LISU P LED exit luminaire (Item 2 on the Pricing Schedule):

Single-sided wall mounted

Synthetic housing shall be manufactured to EN 60598-1 and EN 60695-2-10 (850°C). Array of 20/40 high-brightness LEDs, shall provide excellent uniformity. Multiple circuits shall result in no single point of failure. The NiMH battery shall have no memory effect, and shall contain no Cadmium and shall have double the capacity of NiCad batteries.

The LISU range shall be built to EN 60598-2,22 standards and shall comply with EN 1838 standards: EN 60598-1,EN 60695-2-10

(Integrated clip-on wall mount plate with plug-in terminal block.)

Emergency Lumen Output: Single 60lm

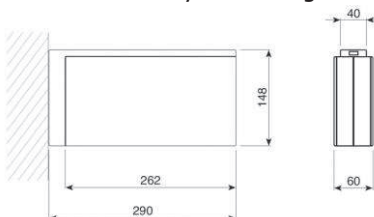
Nominal voltage: 230V – 50Hz

Electrical class: 2

Signage Type: RT1308

Standard finish: White – RAL 9003

Dimensions strictly to drawing below:



Respondent's Signature

Date & Company Stamp