



REPUBLIC OF NAMIBIA

MINISTRY OF JUSTICE AND LABOUR RELATIONS

JUSTICE

Request of Quotation for Works

**ELECTRICAL RENOVATION OF HOUSE: ERF 0838-
OSHAKATI EAST**

Procurement Reference No: W/RFQ/35-05/2025

DIRECTORATE: CENTRAL ADMINISTRATION

Ministry of Justice and Labor Relations Private Bag 13302, Windhoek, Tel: 061-2805271/081 160 1663

[E-mail: info.procurement@moj.gov.na](mailto:info.procurement@moj.gov.na)

NB!! This document should be fully completed and all pages to be initialed by bidders.

Closing Date: 29 August 2025 @12h00



REPUBLIC OF NAMIBIA
MINISTRY OF JUSTICE AND LABOUR RELATIONS

JUSTICE

Letter of Invitation

04 August 2025

Dear Sir/Madam

The **Ministry of Justice and Labour Relations** invite you to submit your quotation for the listed works described in detail hereunder. Your offer should be indicated on this form with any annexure which you may wish to enclose and should be addressed to **Procurement Management Unit, Ministry of Justice and Labour Relations in the bidding box located at the entrance foyer, Talla's, Building Independence Avenue. Your Offer/Quotation should state the bid description and reference No: W/RFQ/35-05/2025.**

Your quotation should reach the **Ministry of Justice and Labour Relations** on or before **29 August 2025** latest by **12:00**. Bidders are urged to initial each page and ensure that all space provided in this document are completed. Furthermore, biddings must indicate no quote for services that they cannot render. Failure to adhere to instructions, your bid may be disqualified.

Queries, if any, should be addressed to Head of PMU **Mr. Paul Daniels 061 280 5308 /5271**. Please prepare and submit your quotation in accordance with the instructions given or inform the undersigned if you will not be submitting a quotation.

Mr. Paul Daniels, Head of Procurement Management Unit:

Date... 04/08/2025

Signature.....

An oval-shaped official stamp. The outer ring contains the text 'MINISTRY OF JUSTICE AND LABOUR RELATIONS' at the top and 'PROCUREMENT MANAGEMENT UNIT' at the bottom. The inner part of the stamp contains the word 'SECRETARIAT' at the top, the date '2025-08-04' in the center, and the name 'PAUL DANIELS' at the bottom. A signature is written over the stamp.

SECTION I: INSTRUCTIONS TO BIDDERS

1. Rights of Public Entity

The *Ministry of Justice and Labour Relation* reserves the right to:

- a) To split the contract as per the lowest evaluated cost item where applicable
- b) To accept or reject any quotation.
- c) To cancel the quotation process and reject all quotations at any time prior to contract award.
- d) Reduce or increase the quantity of items where applicable.
- e) Cancel bid not finalised with (2025/2026) financial year.

2. Preparation of Quotations

You are requested to quote for the works mentioned in Section III, by completing, signing, and returning:

- (a) the Quotation Letter in Section II with its annex for Bid Securing Declaration, where applicable.
- (b) the Priced Activity Schedule in Section IV.
- (c) the Specifications and Compliance Sheet in Section V; and
- (d) any other attachment as deemed appropriate.

You are advised to carefully read the complete Request for Quotations document, including the Special Conditions of Contract in Section VII, before preparing your Quotation. The standard forms in this document may be retyped for completion but the Bidder is responsible for their accurate reproduction.

3. Validity of Quotations

(a) The quotation validity period shall be for **120** days from the date of submission deadline.

(b) Bid Validity period is **120** days.

4. Eligibility Criteria

To be eligible to participate in this Quotation exercise, you should:

- (a) Have a valid certified copy of Company Registration Certificate/ Founding Statement or Memorandum of Association. **(Should be in Core Business)**
- (b) Have valid original or certified copy of Good Standing Tax Certificate **(Should be valid upon bid closing date)**.
- (c) Have a certified copy or original valid Good Standing Social Security Certificate; **(Should be valid upon bid closing date)**
- (d) Have a valid certified Affirmative Action Compliance Certificate or confirmation letter from the Employment Equity Commission indicating that the employer did submit the report for the period following from the date when the certificate was issued, proof from Employment Equity Commissioner that bidder is not a relevant employer, or exemption issued in terms of Section 42 of the Affirmative Action Act, 1998, (Valid for a period of 1 year). **(Should be valid upon bid closing date)**
- (e) Have a valid certified copy of a certificate indicating SME Status (for Bid reserved for SME); **(Should be valid upon bid closing date) (Optional)**

- (f) Submit signed Bid – Securing Declaration
- (g) Have a Written Undertaking as contemplated in **section 138(2) of the Labour Act, 2007.**
- (h) This bid is restricted to all Suppliers/Bidders in line with constructions & Electrical Installation.
- (i) **Site visit is compulsory, failure to attend will result in disqualification.**
Site Date: 15 August 2025
Time: 10H00 AM
Erf: 0838, Rassblaar street
Contact Person: Mr. M Lumingu- 081 128 2511

NB: Copies should be certified by the Namibian Police or commissioner of Oath. Failure to provide certified copies or originals of the above mandatory documents will result in disqualification of your bid.

5. Bid Security

Bidders are required to submit a Bid Security/subscribe to a Bid Securing Declaration for this procurement process. The Bidder shall furnish as part of its quotation, a Bid Security as per the format contained in Schedule 1 of this document for an amount of NAD...N/A...[based on 0.05% - 2% of your budget estimate for the procurement] OR ...N/A...% [insert percentage within the following range: 0.05% - 2% of the quoted price] valid up toN/A..... [validity period of bid security must be 30 days beyond the quotation validity period] N/A

6. Works Completion Period

The completion period for works shall be **60 working days** after acceptance and issue of Purchase Order. Deviation in completion period shall not be accepted/shall be considered if such deviation is reasonable.

7. Sealing and Marking of Quotations

Quotations should be **sealed** in a single envelope, clearly marked with the Procurement Reference Number, addressed to the Public Entity with the Bidder's name at the back of the envelope.

8. Submission of Quotations

Quotations should be deposited in the Quotation/Tender Box located at **the Procurement Box, located at the entrance foyer, Talla's Building not later than 20 August 2025 12h00.** Quotations by post or hand delivered should reach by the same date and time at latest. Late quotations will be rejected.

N/B Quotations received by e-mail will not be considered.

9. Opening of Quotations

Quotations will be opened internally by the Public Entity immediately after the closing time referred to in section 8 above. A record of the Opening report stating the name of the bidders, the amount, will be available to any bidder on request within three working days after the Opening.

10. Evaluation of Quotations

The Public Entity shall have the right to request for clarifications in writing during evaluation. Offers that are substantially responsive shall be compared based on evaluated cost, subject to Margin of Preference where applicable, to determine the lowest evaluated quotation.

NB: Bids will be evaluated against the established project cost estimate. Only those falling within a range of 10% below to 10% above the project cost estimate will be considered responsive.

11. Technical Compliance

The Specifications and Compliance Sheet details the minimum specifications of the works to be carried out. The specifications must be met, but no credit will be given for exceeding the specifications.

12. Prices and Currency of Payment

Prices for the execution of works shall be fixed in Namibian Dollars as quoted.

Quotations shall cover all costs of labour, materials, equipment, overheads, profits, and all associated costs for performing the works, and shall include all duties. The whole cost of performing the works shall be included in the items stated, and the cost of any incidental works shall be deemed to be included in the prices quoted.

13. Margin of Preference

13.1 The applicable margins of preference and their application methodology are as follows: *N/A*

13.2 Bidders applying for the Margin of Preference shall submit, **upon request**, evidence of:

14. Award of Contract

The Bidder having submitted the lowest evaluated responsive quotation that falls within the estimated project budget and qualified to perform the works shall be selected for award of contract. Award of contract shall be by issue of a Purchase Order/Letter of Acceptance in accordance with terms and conditions contained in Section VI: Contract Agreement and General Conditions of Contract.

15. Performance Security

The successful bidder shall upon acceptance of its offer submit a Performance Security/guarantee as per the format contained in the Schedule for an amount of **10 %** of the contract price.

16. Notification of Award and Debriefing

The Public Entity shall after award of contract promptly inform all unsuccessful bidders in writing of the name and address of the successful bidder and the contract amount and post a notice of award on its website within 7 days. Furthermore, the Public Entity shall attend to all requests for debriefing made in writing within seven days of the unsuccessful bidders being informed of the award.

SECTION II: QUOTATION LETTER

(To be completed by Bidders)

[Complete this form with all the requested details and submit it as the first page of your quotation with the Priced Activity Schedule and documents requested above. A signature and authorisation on this form will confirm that the terms and conditions of the RFQ prevail over any attachments. **If your quotation is not authorised, it will be rejected.**

Quotation addressed to:	Ministry of Justice and Labour Relation
Procurement Reference Number:	W/RFQ/35-05/2025
Subject matter of Procurement:	Electrical Renovation of House: Erf 0838, Oshakati East

We offer to execute the Works detailed in the Statement of Requirements, in accordance with the terms and conditions stated in your Request for Sealed Quotations referenced above.

We confirm that we are eligible to participate in this Quotation exercise and meet the eligibility criteria specified in Section 1: Instructions to Bidders

We undertake to abide by the Conduct of Bidders and Suppliers as provided under the Public Procurement Act during the procurement process and the execution of any resulting contract.

We have read and understood the content of the *Bid Security / Bid Securing Declaration* (BSD) attached hereto and subscribe fully to the terms and conditions contained therein. We further understand that this subscription shall be construed as a Bid Securing Declaration which could lead to disqualification on the grounds mentioned in the BSD.

The validity period of our Quotation is _____ days from the date of the bid submission deadline.

We confirm that the prices quoted in the Priced Activity Schedule are fixed and firm and will not be subject to revision or variation if we are awarded the contract **prior to the expiry** date of the quotation validity.

Works will commence within _____ days from date of issue of Purchase Order/ Letter of Acceptance.

Works will be completed within _____ [Bidder to insert number] days from date of issue of Purchase Order/ Letter of acceptance.

We declare that we “qualify/do not qualify” for Margin of Preference applicable to small and medium enterprises and shall upon request submit documentary evidence in this respect.

Quotation Authorised by:

Name of Bidder		Company's Address and seal	
Contact Person			
Name of Person Authorising the Quotation:		Position:	Signature:
Date		Phone No./E-mail	

BID SECURING DECLARATION

(Section 45 of Act) (Regulation 37(5) and 56(2))

Date:[Day/Month/year]

Procurement Ref No.: W/RFQ/35-05/2025

To: Ministry of Justice, Talla's Building, Independence Avenue, WINDHOEK

I/We* understand that in terms of section 45 of the Act a public entity must include in the bidding document the requirement for a declaration as an alternative form of bid security.

I/We* accept that under section 45 of the Act, I/we* may be suspended or disqualified in the event of

- (a) a modification or withdrawal of a bid after the deadline for submission of bids during the period of validity.
- (b) refusal by a bidder to accept a correction of an error appearing on the face of a bid.
- (c) failure to sign a procurement contract in accordance with the terms and conditions set forth in the bidding document, should I/We* be successful bidder; or
- (d) failure to provide security for the performance of the procurement contract if required to do so by the bidding document.

I/We* understand this bid securing declaration ceases to be valid if I am/We are* not the successful Bidder.

Signed:

.....

[insert signature of person whose name and capacity are shown]

Capacity of.....

[indicate legal capacity of person(s) signing the Bid Securing Declaration]

Name:

.....

[insert complete name of person signing the Bid Securing Declaration]

Duly authorized to sign the bid for and on behalf of: *[insert complete name of Bidder]*

Dated on _____ **day of** _____

Signature _____

Corporate Seal (where appropriate)

[Note*: In case of a joint venture, the bid securing declaration must be in the name of all partners to the joint venture that submits the bid. **Delete if not applicable / appropriate*



Republic of Namibia

Ministry of Justice and Labour Relations

Written Undertaking in terms of Section 138 of the Labour Act, 2015 and Section 50(2)(D) of the Public Procurement Act, 2015

1. EMPLOYERS DETAILS

Company Trade Name.....

Registration Number

Vat Number:

Industry/Sector:

Place of Business.....

Physical Address.....

Tell No.....

Fax No.....

Email Address.....

Postal Address.....

Full name of Owner/Accounting Officer.....

.....

Email Address.....

2. PROCUREMENT DETAILS

Procurement Reference No.....

Procurement Description:

.....

Anticipated Contract Duration:

Location where work will be done, good/services will be delivered:

.....

3. UNDERTAKING

I *[insert full name]*, owner/representative.

of *[insert full name of company]*

hereby undertake in writing that my company will at all relevant times comply fully with the relevant provisions of the Labour Act and the Terms and Conditions of Collective Agreements as applicable.

I am fully aware that failure to abide to such shall lead to the action as stipulated in section 138 of the labour Act, 2007, which include but not limited to the cancellation of the contract/licence/grant/permit or concession.

Signature:

Date:

Seal:.....

Please take note:

1. *A labour inspector may conduct unannounced inspections to assess the level of compliance.*
2. *This undertaking must be displayed at the workplace where it will be readily accessible and visible by the employees rendering service(s) in relations to the goods and services being procured under this contract.*

A. SCOPE OF WORKS, SPECIFICATIONS AND PERFORMANCE REQUIREMENTS:

ELECTRICAL RENOVATION OF HOUSE: ERF 0838, OSHAKATI EAST

Site visit is compulsory, failure to attend will result in disqualification.

Site Date: 15 August 2025

Time: 10H00 AM

Erf: 0838, Rassblaar Street

Contact Person: Mr. M Lumingu- 081 128 2511

SECTION IV: PRICED ACTIVITY SCHEDULE

Procurement Reference Number: W/RFQ/35-05/2025

Item No	Brief Description of Works	Quantity	Unit of Measure	Unit Price (N\$)	Total Price (N\$)
1.	NB: See attached Annexure B for pricing purposes				
				VAT 15%	
				GRANT TOTAL	

NB: Bids will be evaluated against the established project cost estimate. Only those falling within a range of 10% below to 10% above the project cost estimate will be considered responsive.

Priced Activity Schedule Authorised By:

Name:		Signature:	
Position:		Date:	
Authorised for and on behalf of:		Company	

SECTION V: SPECIFICATIONS AND COMPLIANCE SHEET

Procurement Reference Number: W/RFQ/35-05/2025

[Bidders should complete columns C and D with the specifications and performance of the Works offered. Also, state “comply” or “not comply” and give details of any non-compliance/deviation to the specifications required. Attach detailed technical literature if required. Authorise the specifications offered in the signature block below]

Request for Security System			
Item No	Specifications and Performance Required	Compliance of Specifications and Performance Offered	Details of Non-Compliance/ Deviation (If applicable)
A*	B*	C	D
1.			
2.			
3.			
4.			

Specifications and Compliance Sheet Authorised By:

Name:		Signature:	
Position:		Date:	
Authorised for and on behalf of:		Company	

SECTION VI: GENERAL CONDITIONS OF CONTRACT AND CONTRACT AGREEMENT

Any resulting contract shall be placed by means of a Purchase Order/Letter of Acceptance and shall be subject to the General Conditions of Contract (GCC) for the Procurement of Goods (Ref. **G/RFQ-WCC) Ministry of Justice and Labour Relation; Private Bag 13302; Windhoek:** except were modified by the Special Conditions below.

SECTION VI: CONTRACT AGREEMENT

Any resulting contract shall be placed by means of a **Purchase Order** and shall be subject to the General Conditions of Contract (GCC) for the Procurement of Works except were modified by the Special Conditions below.

SECTION VIII SPECIAL CONDITIONS OF CONTRACT

Procurement Reference Number: **W/RFQ/35-05/2025**

The clause numbers given in the first column correspond to the relevant clause number of the General Conditions of Contract.

GCC Clause Reference	Special Conditions
Project Manager GCC 1.1(y)	The Project Manager is: Mr. P. Sitwala
Site GCC 1.1(aa)	The Site is located at Oshakati East
Start Date GCC 1.1(dd)	The Start Date shall be: _____
The Works GCC 1.1(h)	The Works consist of: _____
Language and Law GCC 3.1	The language of the contract is English. The law that applies to the Contract is the law of Namibia.
Project Manager's Decisions 4.1	The Project Manager shall obtain specific approval from the Employer before carrying out any of his duties under the Contract which in the Project Manager's opinion will cause the amount finally due under the Contract to exceed the Contract Price or will give entitlement to extension of time. This requirement shall be waived in an emergency affecting safety of personnel or the Works or adjacent property.
Notices GCC 6	Any notice shall be sent to the following addresses: For the Employer, the address shall be as given on the page 2 of this Bidding Document and the contact's name shall be: _Mr Paul Daniels; Ministry of Justice and labour Relations; Private Bag 13302 Windhoek; Talla's building Independence Avenue Tel 061

GCC Clause Reference	Special Conditions
	<p>2805271/5308</p> <p>For the Contractor, the address shall be as given on the first page of the Purchase Order/Letter of Acceptance and the contact's name shall be</p> <p>_____</p> <p>_____</p>
<p>Insurance GCC 13.1</p>	<p>Except for the cover mentioned in (d)(i) hereunder, the other insurance covers shall be in the joint names of the Contractor and the Employer and the minimum insurance amounts shall be:</p> <ul style="list-style-type: none"> a) for the Works, Plant and Materials: b) for loss or damage to Equipment: c) for loss or damage to property (except the Works, Plant, Materials, and Equipment) in connection with Contract <i>for an amount representing the value of the properties that are exposed to the action of the contractor in the execution of the works. It will extend to the property of the Procuring Entity as well).</i> d) for personal injury or death: <ul style="list-style-type: none"> (i) of the Contractor's employees: <i>[The Contractor shall take an adequate insurance cover for its employees for any claim arising in the execution of the works].</i> (ii) of other people: <i>[This cover shall be for an adequate amount for Third Party extended to the Employer and its representatives].</i> (e) for loss or damage to materials on-site and for which payment have been included in the Interim Payment Certificate, where applicable. <p>The Contractor shall choose to take the insurance covers indicated above as separate covers or a combination of the Contractor's All Risks coupled with the Employer's liability and First Loss Burglary, after approval of the Employer. All insurance covers shall be of nil or the minimum possible deductibles at sole expense of the contractor.</p>
<p>Intended Completion Date GCC 16.1</p>	<p>The Intended Completion Date for the whole of the Works shall be:</p>
<p>Possession of the Site GCC 20.1</p>	<p>The Site Possession Date shall be Upon award</p>
<p>Procedure for Disputes GCC 24</p>	<p>No Adjudicator shall be appointed under the contract and arbitration shall not apply. If any dispute arises between the Employer and the Contractor in connection with or arising out of the Contract, the parties</p>

GCC Clause Reference	Special Conditions
	shall seek to resolve any such dispute by amicable agreement. If the parties fail to resolve such dispute by amicable agreement, within 14 days after one party has notified the other in writing of the dispute, then the dispute shall be referred to court by either party.
Program GCC 25.1	The Contractor shall submit for approval a Program for the Works within N/A days from the date of the Letter of Acceptance or issue of Purchase Order Agreement.
GCC 25.3	Program updates <i>[shall]</i> be required.
Defects Liability Period GCC 33.1	The Defects Liability Period is: <i>[One year]</i> days
Payment Certificates GCC 39.7	“A single statement of the estimated value of the work executed shall be submitted on completion of the Works. The Project Manager shall check the statement and certify the amount to be paid to the Contractor”.
Payments GCC 40	The amount certified by the Project Manager shall be paid in full within 30 days of receipt by the Employer of an invoice, supported by: (a) the payment certificate; and (b) a certificate of Completion of the Works.
Adverse weather Conditions GCC 41.1 (I)	<i>[Its rain season]</i>
Price Adjustment GCC 44.	The Contract is not subject to price adjustment.
Retention GCC 45.	(i) no proportion of any payments shall be retained* or (ii) 10% of the amount shall be retained from any payment. Half of the retention money will be released after formal taking over of the Works and the remaining shall be released after the Defect Liability Period subject to the Contractor making good all defects. * * Delete as appropriate
Liquidated Damages GCC 46.1	The liquidated damages for the whole of the Works are <i>[10%]</i> per day. The maximum number of liquidated damages for the whole of the Works is <i>[10 % of the quoted price]</i> .
Performance Security GCC 49.1	(i) A Performance Security in the form of a Bank Guarantee representing <i>[10%]</i> of the final contract price shall be required. *
GCC 56.1	“As built” drawings or operating and maintenance manuals <i>[are not]</i> required.
GCC 59.1	The percentage to apply to the value of the work not completed, representing the Employer’s additional cost for completing the Works, is: <i>[NA]</i>

SCHEDULE 3: QUOTATION CHECKLIST SCHEDULE

Public Entity to update this checklist to ensure that it contains the document required from Bidder for the specific procurement.

Procurement Reference No.: W/RFQ/35-05/2025

Description	Attached	Not Attached
Quotation letter attached		
Priced Activity Schedules attached		
Specification and Compliance Sheet attached		
Bid Securing Declaration attached		
Certified Mandatory documents attached		
Quotation on bidder's letterhead attached		
Document is duly completed and initialled at each page		
The principal of business: Construction Works		

Disclaimer: *The list defined above is meant to assist the Bidder in submitting the relevant documents and shall not be a ground for the bidder to justify its non-submission of major documents for its quotation to be responsive. The onus remains on the Bidder to ascertain that it has submitted all the documents that have been requested and are needed for its submission to be complete and responsive.*

- ANNEXURE B -

ELECTRICAL RENOVATIONS OF HOUSE, ERF. 0838, BM 82/66 - OSHAKATI EAST

ITEM NO	DESCRIPTION	QTY	UNIT	PRICE N\$	AMOUNT N\$
	<p>GENERAL INFORMATION</p> <p><u>Technical Standards and Regulations</u></p> <p>The following Standards, Acts and Regulations shall take precedence and used as reference, but not limited to the following;</p> <p>a). All work, equipment and materials to be supplied and installed shall comply with the terms, provisions and specifications of the latest amendment or edition of the following and shall be suitable and designed for its intended applications and must comply to latest versions of relevant NAMS / ISO / IEC / SANS / NRS or BSS specifications, but not limited to:</p> <p>b). Regulations Relating to the Health and Safety of Employees at Work, Labour Act (Act 11 of 2007),</p> <p>c). SANS 10400: Code of Practice for the application of the National Building Regulations,</p> <p>d). SANS 10142-1: The wiring of premises, low-voltage installations.</p> <p>e). IEC 60335-2-97:2002: Household and similar electrical appliances – Safety – Part 2-97: Particular requirements for drives for rolling shutters, awnings, blinds and similar equipment.</p> <p>f). IEC / BS EN 60839-11-1:2013 standards requirements (Alarm and electronic security systems - Part 11-1: Electronic access control systems - System and components requirements).</p> <p>g) Any other regional or local authority by-laws etc.</p> <p>h) NB.: Performance of all new installations SHALL be continuously monitored for atleast four (4) weeks after initial completion. Materials and workmanship of all repairs MUST be guaranteed for atleast six (6) months, thereafter a final completion can be considered!</p>				

ITEM NO	DESCRIPTION	QTY	UNIT	PRICE N\$	AMOUNT N\$
	Bill No. 2 VOLUME 3 - (ELECTRICAL) GENERAL REPAIRS AND LOW TENSION				
	<u>ORDINARY EXCAVATION, FILLING, ETC.</u>				
	<u>Excavation in soft earth / trench for laying of LV electrical cable to a minimum depth of 600mm below final natural ground level, but not exceeding 1000mm deep' :</u>				
2.301	Trenches and holes	7,5	m ³		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Modified AASHTO density in layers not exceeding 50mm thick :</u>				
#####	Backfilling to trenches, holes, etc.	7,5	m ³		
	<u>SUNDRIES</u>				
	<u>Cable Warning Tapes</u>				
#####	Underground non-adhesive PVC cable warning tape placed 150mm above cables sleeves in excavations, supplied in a 500m x 150mm wide roll, with 'skulls and cross-bones or danger sign / lightning flash' printed on as well as lettering notices 'DANGER / GEVAAR / INGOZI, ELECTRIC CABLE / ELECTRIESE KABEL' as per SANS 1186.	50	m		
	<u>Cable Route Markers</u>				
2.304	150x150mm top, 215x215mm base, 315mm high reinforced concrete casted block cable route marker, with a blank 100x100mm Aluminium plate insert. Concrete block to help indicate direction of a burried cable.	1	No		

E-S

ITEM NO	DESCRIPTION	QTY	UNIT	PRICE N\$	AMOUNT N\$
	<u>CHASING IN BRICK WALLS, (PIPES, ETC., ELSEWHERE MEASURED)</u>				
	<u>Chasing in of galvanised/PVC pipes, channels, trunking, etc. in a straight line :</u>				
2.305	20mm - 25mm PVC conduits/sleeves/pipes chased in	37	m		
2.306	32mm - 50mm PVC conduits/sleeves/pipes chased in	3	m		
	<u>CONCRETE BASES, SUNDRY REPAIRS, ETC.</u>				
	<u>Cutting through surface beds, Interlocking paving, slasto or precast slab pavings :</u>				
2.307	Cut through 100mm concrete surface bed 500mm wide and later make good filling, apply soil insecticide and make good damp proof membrane and concrete surface bed, or lift up interlocking paving stones, slasto or precast paving slabs, set aside for re-use, scarify and compact existing surface under, provide and lay additional base course and clean sand bedding as necessary and re-lay paving stones, slasto or paving slabs	2	m		
	<u>MAKING GOOD OF FINISHES AND REPAIRS TO EXISTING PLASTERED SURFACES</u>				
	<u>One coat internal compo plaster steel trowelled smooth:</u>				
2.308	Cement replastering of wall chasing to match existing	40	m		
	<u>SAFELY TAKING DOWN, REMOVING, STORING AND SETTING ASIDE FOR RE-USE LATER, HANDING-OVER TO CLIENT'S DISPOSAL YARD AND INSTALL OR RE-FIX</u>				
2.309	Removal of metallic/PVC trunking, channels and pipes	50	m		
2.310	Removal of old wiring circuit fall out	100	m		
2.311	Removal of old light fittings	17	No		

ES

ITEM NO	DESCRIPTION	QTY	UNIT	PRICE N\$	AMOUNT N\$
	<u>RIGID PVC CONDUITS AND SLEEVES</u>				
	<u>Surface mounted to brickwork, concrete, steel, wood, roof members in ceiling void or similar etc., not exceeding 3000mm above floor level, complete with suitable installations/mounting accessories i.e coupling's, saddles, adaptors, bushes, nuts etc. SANS 61386-21 :</u>				
2.312	20mm Diameter	75	m		
2.313	25mm Diameter	20	m		
	<u>Chased and/or fixed in brickwork not exceeding 3000mm above floor level (making good of chase by others) :</u>				
2.314	20mm Diameter	30	m		
	<u>Laid in ground supplied complete with necessary installation accessories i.e. coupling's etc (excavations measured elsewhere) :</u>				
2.315	25mm Diameter	80	m		
	<u>Unplasticised polyvinyl chloride (uPVC) sleeve piping including short lengths and jointing, chased into wall and or laid in trench (chasing, making good, trenching, backfilling measured elsewhere)</u>				
2.316	50mm Diameter	6	m		
	<u>Extra on uPVC piping for:</u>				
2.317	50mm Diameter long radius bend	2	No		

ES

ITEM NO	DESCRIPTION	QTY	UNIT	PRICE N\$	AMOUNT N\$
	<u>GALVINISED / ALUMINIUM / PVC CHANNELS</u> <u>WIRING CHANNELS, TRUNKING, POWER</u> <u>SKIRTING AND CABLE RETICULATION</u> <u>MANAGEMENT SYSTEM</u> <u>Light Duty Galvinised Wiring Cable Trunking / Channel /</u> <u>Cable Tray Perforated / Welded Wire Mesh, surface</u> <u>mounted to brickwork, concrete, steel, wood, fixed furniture,</u> <u>roof members, etc, not exceeding 3000 mm above floor level</u>				
2,318	P2000 / 41 x 41mm galvanised channel / trunking complete with with lid etc,	6	m		
	<u>WIRING AND CABLES</u> <u>Bare copper wires as Protective Earth conductor :</u>				
2,319	16mm ²	20	m		
	<u>SANS 1507 Underground Copper electrical cable PVC</u> <u>insulated PVC bedded armored (SWA) PVC sheathed</u> <u>600/1000V cables installed :</u>				
2,320	2 Core 16mm ²	20	m		
	<u>Cable terminations of the following cables</u>				
2,321	2 Core 16mm ²	2	No		
	<u>SANS 1213, Metal Cable terminations, complete with</u> <u>rubber shroud :</u>				
2,322	No 2 gland & shroud	2	No		

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ITEM NO	DESCRIPTION	QTY	UNIT	PRICE N\$	AMOUNT N\$
	<u>3M Cable Joints PVC "Pratley" or "Scotchcast joint kit resin" to the following :</u>				
2.323	2 Core 16mm ² cable splicing joint kit	1	No		
	<u>SANS 1507-2, Surfex cables installed, 300/500V:</u>				
2.324	2.5mm ² Surfex cable 4core + Earth (supply for gate lights & intercom)	35	m		
	<u>Multi-pairs Stranded Security Alarm Communication Cable</u>				
2.325	8 Core, 4 pairs of stranded alarm communication cable,	25	m		
	<u>CABLE TERMINATIONS OF THE FOLLOWING CABLES</u>				
	<u>SANS 1213, Nylon / PVC Compression Glands:</u>				
2.326	No 1 glands	10	No		
	<u>SWITCHES</u>				
	<u>16Amp switches similar or equivalent to "Crabtree Classic series" :</u>				
2.327	1L One/Two way switch without cover plate	12	No		
2.328	2L One/Two way switch without cover plate	6	No		
2.329	3L One way switch without cover plate	2	No		
	<u>Daylight, Dimmer and Motion Sensing switches :</u>				
2.330	6 Amp 360 Degree surface mount PIR motion sensor switch	2	No		

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ITEM NO	DESCRIPTION	QTY	UNIT	PRICE N\$	AMOUNT N\$
2.331	16 Amp including mounting bracket installed in a surface mounted round / rectangular UV resistant polycarbonate visor empty IP44 bulkhead	1	No		
	<u>Cover only for one lever switch :</u>				
2.332	100x50mm Steel coverplate for above switch	12	No		
	<u>Cover only for two lever switch :</u>				
2.333	100x50mm Steel coverplate for above switch	6	No		
	<u>Cover only for three lever switch :</u>				
2.334	100x50mm Steel coverplate for above switch	2	No		
	<u>SOCKET OUTLETS</u>				
	<u>Flush mounted Socket outlet, similar or equivalent to "Crabtree Classic range:</u>				
2.335	100 x 100mm, 16A standard single outlet switched socket SANS 164-1 without cover plate	7	No		
2.336	100 x 100mm, 16A standard double outlet switched socket SANS 164-1 without cover plate	6	No		
2.337	100 x 100mm, 16A switched socket & USB outlet combination (standard 164-1 & V-Slimline/Schuko 164-2/6 & USB IEC 60950-1) without cover plate	7	No		
	<u>Cover only to single, double & or combination outlet 100mm x 100mm :</u>				
2.338	100x100mm Steel coverplate for above single switched socket outlet	7	No		

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ITEM NO	DESCRIPTION	QTY	UNIT	PRICE N\$	AMOUNT N\$
2.339	100x100mm Steel coverplate for above double and combination switched socket outlet	13	No		
	<u>Replace or install the following galvanised Steel extension or wall boxes :</u>				
2.340	100 x 50mm wall box	20	No		
2.341	100 x 100mm wall box	24	No		
	<u>Metallic & PVC surface "EGA" boxes :</u>				
2.342	100 x 100mm Antenna / Satellite F-type TV connector outlet complete with cover plate	3	No		
	<u>Draw boxes miscellaneous junctions :</u>				
2.343	20 - 25mm multi-way PVC conduit round loop in-box, complete with round self locating blank cover plate / lid (chased into wall or surface mounted)	30	No		
	<u>MINIATURE CIRCUIT BREAKER 3kA, "CBI QA RANGE"</u>				
	<u>Single pole, SANS 60947-2 :</u>				
2.344	10 Amp (lights/hand-dryer/extraction fan), '13mm module, Curve C'	8	No		
2.345	15-25 Amp (socket outlet / AC's / stove), '13mm module, Curve C'	7	No		
2.346	30-35 Amp (mains sub-DB), '13mm module, Curve C'	2	No		
2.347	63 Amp (mains), '13mm module, Curve C'	1	No		

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ITEM NO	DESCRIPTION	QTY	UNIT	PRICE N\$	AMOUNT N\$
2.348	<u>Double pole, SANS 60947-2 :</u> 20 Amp (geyser/water heater), '26mm module, Curve C'	1	No		
	<u>MINIATURE COMMERCIAL EARTH LEAKAGE PROTECTION DEVICE UNIT WITH/OUT OVERLOAD PROTECTION 3kA "CBI QA RANGE"</u>				
2.349	<u>Two pole, IEC/EN 61008-1 & 2-1:</u> 63 Amp, 30mA ELU, similar to 'CBI QA17A, 26mm module'	2	No		
	<u>SAFETY BLANKS INSTALLED FOR COVERING</u>				
2.350	Safety blank ("Samite")	2	No		
	<u>Circuit Breaker Mounting Rails / Plates</u>				
2.351	Miniature adaptor module plates	2	No		
	<u>PROGRAMMABLE TIMERS 230V AC, IEC 60669-1</u>				
2.352	24/7 digital programmable timer suitable for use with up to 3.5kW rated electric water heaters/geysers similar to 'TopTronics / HellermannTyton TDDGT' or equivalent approved.	1	No		

ITEM NO	DESCRIPTION	QTY	UNIT	PRICE N\$	AMOUNT N\$
	<u>MINIATURE SURGE PROTECTION DEVICES</u>				
	<u>Two pole, 10kA, 275V, SANS 61643-1 Class II:</u>				
2.353	2-pole (1 pole & neutral), 10kA, 8/20µs Class II, Surge Protection Device with LED indications, similar to 'CBI QFLN-2(13), 26mm module'	2	No		
	<u>HYGIENE PRODUCTS SUPPLIED AND INSTALLED:</u>				
	<u>EXTRACTION AND VENTILATION FANS</u>				
	<u>SUITABLE FOR BATH, RESTING ROOMS,</u>				
	<u>STORAGE ROOMS OR ROOMS WITHOUT</u>				
	<u>WINDOWS</u>				
	<u>Wall / Ceiling Mount Room Extractor Fan, 230V</u>				
2.354	Standard 180m ³ /h, 22W, IP20 axial bathroom extractor fan, 240mm square cut-out, complete with a pilot light and infrared sensor, 230V. Similar to 'Eurolux F43 extractor fans series' or equivalent approved.	1	No		
	<u>BULKHEAD OUTDOOR / INDOOR LIGHT FITTING</u>				
	<u>Round bulkhead fitting with white reflector and clear polycarbonate diffuser similar or equal to "LASCON B10 / Eurolux B177"</u>				
2.355	60W ES-E40/BC-B22, 230V, IP55 rated, 190/230mm diameter, outdoor wall bulkhead light fitting, clear polycarbonate diffuser fitted in a Die Cast Aluminium base, complete with a Brass/Porcelain bulb/lamp holder only.	21	No		
	<u>Ceiling mount globe / oval budget light fitting complete with spherical bowl and bowl fitting gallery screwneck 100mm diameter:</u>				
2.356	Budget light complete with 180mm polycarbonate oval bowl and Brass/Porcelain bulb holder only. "BC / ES" rated for 60W.	3	No		

ITEM NO	DESCRIPTION	QTY	UNIT	PRICE NS	AMOUNT NS
	<u>BULKHEAD INDUSTRIAL OUTDOOR LIGHT FITTING</u> <u>Oval Aluminium bulkhead eye-lid/grid type fitting with white reflector and clear polycarbonate diffuser similar or equal to "LASCON B9 / Eurolux B48"</u>				
2.357	60W ES-E40/BC-B22, 230V, IP65 rated, 280/160mm diameter, outdoor wall bulkhead light fitting, clear polycarbonate diffuser fitted in a Die Cast Aluminium base, complete with a Brass/Porcelain bulb holder only.	3	No		
	<u>LAMPS / BULBS / TUBES</u> <u>LED Energy saving bulbs "BC" or "ES"</u>				
2.358	Eurolux 10W cool/warm white E27/B22 opal globe LED, 230V AC, an alternative equivalent to Osram Energy Saver 15W, B22/E27 base - Compact Fluorescent (CFL) light bulb.	28	No		
	<u>SURFACE CLOSED CHANNEL FITTINGS COMPLETE WITH TUBES HOLDERS COMMERCIAL TYPE</u> <u>Surface mounted double closed channel light fittings, wired for LED complete with G13 tube holders, equivalent to "Eurolux PR40L / Radiant double closed channel T8, 2x G13 open channel light fitting wired for LED tubes" :</u>				
2.359	2x G13, IP20 rated for 36W, 4ft (1240mm) wired for LED tubes.	3	No		

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ITEM NO	DESCRIPTION	QTY	UNIT	PRICE N\$	AMOUNT N\$
	<p><u>TUBES</u></p> <p><u>4ft, 18 Watt, 230V AC, T8 coolwhite LED light tube an alternatives of fluorescent lamps with an estimate service life of over 20 000 Hrs:</u></p>				
2.360	Eurolux / Radiant 18W, 4ft (1214mm), 230V AC, opal grow tube G13 tube base, 4000K colour temperature, 3300Lumens, T8 LED glass tube.	6	No		
	<p><u>DECORATIVE CEILING MOUNT FANS WITH LIGHTS</u></p> <p><u>Suitable for installations into hotels, conference rooms, reception areas, offices, reisdentials etc . The fittings shall be equal or similar to:</u></p>				
2.361	Eurolux F4 series fan comet 52" (1300mm) diameter, 5-blades ceiling fan' pressed Steel fitting material, with a frosted glass shaped shade lens with non-PVC lampholder, rated for 2x40W, IP20, 230V, E14 golfball lamps and a 60W fan motor for 3-fan forward & reverse fan speed. Complete supplied with a remote controller, pull string switches, light bulbs and spare glasses.	2	No		
	<p><u>DOMESTIC COOKER-HOOD AND EXTRACTION FANS INSTALLED</u></p>				
2.362	600mm standard domestic slimline stainless Steel cooker-hood, 230V AC rated for atleast 250m ³ /h flow rate. Complete with Aluminium and Charcoal filters, push control buttons for lights, single 3-speed fan settings.	1	No		

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ITEM NO	DESCRIPTION	QTY	UNIT	PRICE N\$	AMOUNT N\$
	<u>DISCONNECT, REMOVE, REINSTALL AND RECONNECT SWITCHES OF VARIOUS SWITCHES</u>				
2.363	Light switches for above	20	No		
	<u>EARTHING AND BONDING</u>				
2.364	Earthing of exposed metal structures with a 50mm ² (measured elsewhere) copper wire in connected to a 16mm ² , 1,6m long earth spike / electrode, driven below ground level, all conductor terminations fitted with suitable bolts, nuts and lugs for proper and tight installations etc and installed in accordance with SANS 10199.	5	No		
2.365	Earthing and bonding of roof, downpipe, gutter, antenna, cable wireways and TV / network dish (per bumper strap of connection, not exceeding 1 metre).	8	No		
2.366	Bond geyser/water heater's waste pipes to hot & cold water pipes (not exceeding 1 metre length).	1	No		
	<u>INSTALL AND CONNECT ISOLATOR, EARTH LEAKAGE OR CIRCUIT BREAKER AT DB, MATERIAL SUPPLIED BY OTHERS</u>				
2.367	Single pole	18	No		
2.368	Double pole	6	No		

ITEM NO	DESCRIPTION	QTY	UNIT	PRICE NS	AMOUNT NS
	<u>REWIRING OF EXISTING LIGHT CIRCUIT</u>				
2.369	Rewiring of light circuit to meet standard of wiring, by means of 2 x 2.5mm ² PVC insulated wires plus 2.5mm ² protective earth wire. The price shall be given <u>per metre circuit-run</u> , all necessary connections to appliances etc. Termination work at the distribution board as well as drawing in of wires into wireways/conduits shall be INCLUDED	400	m		
	<u>INTALLATIONS OF LIGHT FITTINGS OF VARIOUS TYPES AS MENTIONED PREVIOUSLY</u>				
2.370	Install and connect all light and similar fittings	29	No		
	<u>DISCONNECT, REMOVE, REINSTALL AND RECONNECTING OF SOCKET OUTLET POINTS</u>				
2.371	Wiring of all mentioned socket circuits by means of 2 x 4mm ² PVC insulated wires plus 2.5mm ² protective earth wire. The price shall be given <u>per metre circuit-run</u> . Termination works at the distribution board as well as drawing in of wires into conduits/wireways and connections shall be included	200	m		
2.372	Installing of switched single, dual / combination switched sockets	20	No		
	<u>STOVE OUTLET POINT</u>				
2.373	Switched double pole stove isolator, complete with steel coverplate and ON indication light	1	No		
2-374	Stove circuit rewiring by means of 2 x 6mm ² PVC wires plus 4mm ² protective earth wire. The price shall be given <u>per metre circuit-run</u> , all necessary connections etc. Termination work at the distribution board as well as drawing in of wires into conduits shall be INCLUDED	15	m		

ITEM NO	DESCRIPTION	QTY	UNIT	PRICE N\$	AMOUNT N\$
	<u>WEATHERPROOF AND GEYSERS / AIR CONDITIONERS / WASHING MACHINES / ELECTRIC POWER SUPPLY POINT CONNECTIONS</u> <u>SANS 1507-2, Surfex cables installed, 300/500V:</u>				
2.375	Withdraw existing geyser / air conditioner / gate motor circuitry and rewire with new circuit wiring, consisting of a 2 core 4mm ² + earth Surfex cable (<u>invoiced per metre run</u>), installed into wireway conduits (measured elsewhere)	40	m		
2.376	Install IEC 60947-3 enclosed IP66 weatherproof pad-lockable, 165x82mm, 32A/230V AC rated electrical isolator double-pole switch disconnector,	2	No		
2.377	Replace 20mm sprague connection with 20mm flexible "Kopex" connection per metre length including disconnection and reconnection of conductors and 2 x glands	1	No		
	<u>CABLE CONNECTION TO MAIN POWER OVERHEAD DISTRIBUTION LINE</u> <u>Including fastening of cable and kicker pipes onto standard municipal wooden pole with 304/316 Stainless Steel strappers, galvanised Steel saddles or wire clamps. Wires and trenching shall be EXCLUDED:</u>				
2.378	Single-phase + neutral, including official application for power disconnection/reconnections,	1	No		
2.379	Allow for the supply authority to disconnect, remove, shift, re/install and re/connect an existing old single-phase pre-paid meter to a new position, including issuing of new Certification of Compliance (CoC) with the local power supply authority (Oshakati Premier Electric) for the whole electrical installations,	1	No		

ITEM NO	DESCRIPTION	QTY	UNIT	PRICE N\$	AMOUNT N\$
	<u>SUPPLY AND INSTALLATION OF CABLE ENTRY SLEEVES AND CHANNELS</u>				
2.380	Internal supply mains from meterboard to DB consisting of 2 x 16mm ² PVC insulated conductors and 1 x 16mm ² BC earth wire per metre run	1	m		
	<u>METER BOARDS, DISTRIBUTION BOARDS, SUPPLY MAINS AND KIOSKS</u>				
	<u>Electrical Distribution Boards & Pre-paid Meters:</u>				
2.381	Replace indoor distribution board face-plate	2	No		
2.382	Provisions for a digital pre-paid meter unit complete with base	1	Each		
2.383	Provision for 'Pre-paid electricity credit units' on a single-phase pre-paid meter, loaded on after initial completion of works	100	kWh		
2.384	Rewiring of the single-phase distribution board to standard, allow for phase & load balancing, earthing, functional testing etc. NB. Wiring colour coding must be adhered to and only insulated Copper bus-bars rated for continuous 60A shall be permitted for loop connections within the DB.	2	No		
2.385	Disconnect, remove, re/install and re/connect cable at single-phase distribution board	1	No		
2.386	Labeling of single-phase distribution board	2	No		
TOTAL CARRIED FORWARD TO SUMMARY OF SECTIONS				BILL TOTAL N\$	

ITEM NO	DESCRIPTION	QTY	UNIT	PRICE N\$	AMOUNT N\$
	<p>Bill No. 3 (SECURITY SYSTEMS) - DOMESTIC AND INDUSTRIAL SLIDING GATE MOTOR</p> <p>a) <u>General Notes & Motor Requirements</u></p> <p>i) A max of 500kg rated gate mass electric driven domestic-light industrial sliding door motor system, complete with motor housing cabinet be made of rugged high quality UV resistant PVC enclosure, capable to withstand continuous and prolonged harsh environment.</p> <p>ii) Cabinet must offer good enclosing IP54 rating protection to both electrical controllers and related components against dust, insects and moisture.</p> <p>iii) Motor enclosure must be an anti-theft housing with lockable access door.</p> <p>iv) Gate motor unit mounting plinth and base height to be not less than 0.5m above natural ground level.</p> <p>vi) Product and workmanship must carry a warranty or guarantee of not less than 12 months after satisfactory inspections and handing over.</p> <p>b) <u>Electrical Requirements:</u></p> <p>i) System Input Voltage of 230V AC, 50Hz. Driving motor power supply of 24V DC, battery driven with good battery backups, so that in the event of power failure, the system can still operate from the back-up supply.</p> <p>c) <u>Controls:</u></p> <p>i) The automatic operation of the system will be achieved by incorporating the following;</p> <p>ii) Intelligent wireless user friendly interface (without LCD) for easy and secure set-up, configuring and capable to log alarm and fault events reporting etc.</p>				

iii) Build-in rolling code multi-channel receiver with good code storage memory user capacities, supplied with minimum two (2) 4-buttons NOVA rolling code remote transmitters.

v) Electronic anti-collision safety detection ability and ability to automatically reverse upon collision.

vi) Must have wired infrared safety beams to prevent gate closing when an obstacle is on the gate way.

d) **Drive Mechanism:**

i) Powerful high torque DC powered drive motor.

ii) Must have a lockable door with key release for manual override option.

e) **Intruder Access to Motor and Internal Components :**

i) To reduce the risk of an intruder gaining access to the motor and internal components, the motor must be supplied with the original manufacturer's secure theft-resistant motor bracket cage mechanism, made out of galvanised Steel and supplied as complete with an intergrated padlock system and set of keys.

f) **Cabling & Communications:**

i) Sleeve conduits housing power supply cable as well as any communications cables is strictly to be 25mm Ø PVC type as measured elsewhere.

ii) Infrared safety beams to be hard wired using Cat5 FTP twisted pair multi core or similar alarm communication cable completely housed in a 25mm Ø PVC conduit (all measured elsewhere).

g) **Rack Rail:**

i) A 5m long Steel rack or as per gate length (nylon racks SHALL NOT be accepted), neatly welded to the gate and incorporating end stops fixed to rail.

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ITEM NO	DESCRIPTION	QTY	UNIT	PRICE N\$	AMOUNT N\$
	ii) Atleast a 16mmØ Steel round bar must be used as a direct rail for v-grooved gate wheels (operating v-grooved gate roller wheels directly on Steel angle iron SHALL NOT be accepted), neatly welded to the angle-iron and incorporating sliding gate end stops.				
	h) <u>Motor Plinth:</u>				
	i) On average physical dimensions of not less than the area of the motor baseplate area, preferable of 400x300mm and height of not less than 500mm above natural ground level. A minimum of 25MPa of concrete or similar fabricated and corrosion treated Steel structure with atleast 4x12mm rawl or u-bolts anchored into concrete or as per manufacturer's requirements / recommendations.				
3.001	Supply and deliver a new sliding gate motor operator strictly "Centurion D5 Smart" sliding gate motor,	1	Each		
3.002	Supply and deliver accessories compatible with, Centurion D5 SMART gate motor; a Centurion anti-theft galvinised Steel bracket / cage with an intergrated lock and set of keys, 2x sets of 4-buttoned NOVA remote transmitters, Steel rail/racks, 16mmØ round bar, rechargeble 12V DC 8AHr back-up batteries, wired infra-red safety beams, etc	1	Sum		
3.003	Labour Installation, other accessories, motor plinth, remote learning and commissioning of the complete sliding gate motor system, including anti-rust paint touch-ups, site clearing, handing over of product/user manuals, warning labels / stickers, user training etc	1	Sum		
3.004	Any other,				
TOTAL CARRIED FORWARD TO SUMMARY OF SECTIONS				BILL TOTAL N\$	

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ITEM NO	DESCRIPTION	QTY	UNIT	PRICE N\$	AMOUNT N\$
	Bill No. 4 (SECURITY SYSTEMS) - ANALOQUE VIDEO INTERCOMS				
a)	<u>General Notes & Requirements</u>				
i)	System to be surface mounted for easy installation and maintenance.				
ii)	Gate station point and Display unit points are roughly <u>25m</u> apart, provision for underground sleeving is measured elsewhere.				
iii)	The gate opening function within the intercom system to be incorporated.				
iv)	Any outdoor unit/installation must be IP44/54 weather resistant rated and whole system must be capable to operate safely under harsh local weather conditions of up to 40°C.				
v)	System must be suitable for the intended purpose meeting the international IEC / BS EN 60839-11-1:2013 standards requirements (Alarm and electronic security systems - Part 11-1: Electronic access control systems - System and components requirements).				
vi)	Product and workmanship must carry a warranty or guarantee of not less than 12 (twelve) months after satisfactory inspections and handing over.				
b)	<u>Gate Station</u>				
i)	A hands-free audio through a 'TALK / CALL' button unit comprising of a wide angle colour night view camera lens, suitably made for outdoor use. Unit to be supplied and surface mounted within a suitable 'rain-shield' at a suitable height as per manufacturer recommendations and client requests.				

ITEM NO	DESCRIPTION	QTY	UNIT	PRICE N\$	AMOUNT N\$
c)	<u>Receiver Display Monitor Screen</u>				
i)	A hands-free colour and clear audio LED / TFT display monitor unit size not less than 7 Inch wide, to be installed or fixed inside the house, preferable in a sitting room at a suitable height or as may be directed by the client.				
d)	<u>Power Supply</u>				
i)	The unit's power supply must be suitable and compatible for use with the existing available standard power point and supply of 230V AC, 50Hz.				
e)	<u>Cabling and Connections</u>				
i)	The outdoor gate station and the indoor display must be wired with a Category 5 (CAT5) foil shielded twisted pair communication cable as per manufacturer's recommendations. The cabling's must be routed and housed within a PVC conduit neatly burried into ground (measured elsewhere).				
4.001	Supply and deliver of a new 4-wire colour handsfree, 7 inch videophone Intercom System, complete with an outdoor type gate camera unit and an indoor type video-audio monitor, similar to "Kocom KC-MC24 & KCV-A374" or similar approved, for surface mount installations.	1	No		
4.002	Rainshield for outdoor gate station unit	1	No		
4.003	Labour Installation, other accessories, testing and commissioning of the complete gate intercom system, including site clearance, user manuals, user training etc	1	Sum		
4.004	Any other,				
TOTAL CARRIED FORWARD TO SUMMARY OF SECTIONS				BILL TOTAL N\$	

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ITEM NO	DESCRIPTION	QTY	UNIT	PRICE NS	AMOUNT NS
	Bill No. 5 SECURITY SYSTEMS - (ELECTRIC FENCE)				
a)	<u>Property Description</u>				
i)	Residential property situated in urban area, near a public road and neighbouring three private residential propertis.				
ii)	The existing residential property boundary brick wall with height of 1.8m high, with a wall total boundary perimeter of 195m. Comprising of one (1) standard domestic sliding gate and one (1) pedestrian gate.				
b)	<u>Electrified Fencing Barrier</u>				
i)	A 4 Joule, single output energy via a 0.5kΩ load, capable to deliver a maximum open circuit Voltage of up to 8000 V, required electric fence energiser must be similar or equivalent to "Nemtek Wizord 4i" energiser, 230V AC, 50Hz single zone with a 12V DC, 8Ahr backup battery system.				
ii)	Property boundary brick wall with height of 1.8m high, requires electrified fence wires of atleast 1.2mm stranded galvinised fence wires, with atleast eight (8) lines, fence wires to be supported by steel powder coated galvinised square tubes suitable for use in dry climate environment, materials must be ideal for use on brick walls etc.				
c)	<u>Energiser & Installations</u>				
i)	Complete installation system to include, but not limited to; fence energiser, siren, strobe, GSM dialer module/system easily connectable to an armed response radio, earth spike electrodes, lighting protection, HT cables, trace wires, gate connections, gate/corner/intermediate posts, stays, insulators, tensioners, warning signs etc				
ii)	Only if necessary, tree branches and vegetation's from or near fence electric wires must be removed, trimmed/freed.				

ITEM NO	DESCRIPTION	QTY	UNIT	PRICE N\$	AMOUNT N\$
	<p>iii) Ensure firm / health electrical connections of HT cables, stranded fence trace wires, installed earth spike connections consisting of at least 3x 'Copper clad earth spikes, 1.2m, 10mm, driven into ground as close as possible to the energiser in a crow-foot layout, 1.5m apart as per regulations. Also, there must be an earth spike driven into ground along the fence, at distance not exceeding 30m distance apart. NB. All fence energiser's earth electrodes must preferably be 10m away from any earthing system's of OPE supply.</p> <p>iv) Ensure wires between the energizer and fence are safely sleeved in secured/buried PVC conduits of 25mm Ø (measured elsewhere).</p> <p>vi) Product and workmanship must carry a warranty or guarantee of not less than 6 months after satisfactory inspections and handing over.</p> <p>d) <u>Warning Signs</u></p> <p>i) Ensure there are IEC 60335-276 compliant UV protected electric fencing yellow warning signs (with a symbol of a hand touching a wire with flashes), securely installed along the fence on both the public road, neighboring properties sides and also on gate ways. Spacing between warning signs not to exceed 10m apart.</p>				
5.001	Copper/hot dipped galvanised steel, 10mm Ø, 1.2m long earth electrode spike complete with lugs, washers & nuts	10	No		
5.002	Double pole lighting protector devices	1	Sum		
5.003	1.2mm (128m/kg) stranded galvinised trace wires for a 158m boundary perimeter, 7-wire system, complete with required ferrules etc	12	kg		
5.004	Yellow warning signs	25	No		
5.005	HT cables	60	m		
5.006	Gate posts, complete with mounting accessories, insulators, tensioners, springs, stays, hooks etc	4	No		

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ITEM NO	DESCRIPTION	QTY	UNIT	PRICE N\$	AMOUNT N\$
5.007	Corner & intermediate galvanised square tube/flat bar wall posts, complete with mounting accessories, insulators, tensioners, springs, stays, hooks etc	81	No		
5.008	Electric fence energiser, 4 Joules powered by 230V AC mains complete with built-in lightning & power surge protection, easily connectable to armed response radio or GSM module, supplied with siren & strobe back up battery preferable of Lithium ion phospahte (LifePO4) with built in battery Monitor System (BMS), leak proof and maintenance free batteries, 12V, 7.2Ah.	1	No		
5.009	Nemtek Fence meter and fence scope multi-tool, all with LCD displays	1	Each		
5.010	Single zone remote wall mountable keypad, suitable for use with supplied fence energiser unit	1	No		
5.011	8 Core, 4 pairs of stranded alarm communication cable, PVC sleeved	100	m		
5.012	Labour: Installations, repairs, accessories and commissioning of the complete electric fencing system, including, testing, site cleaning, product/user manuals, user training etc	1	Sum		
5.013	Any other,				
TOTAL CARRIED FORWARD TO SUMMARY OF SECTIONS				BILL TOTAL N\$	

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