



# public works

Department:  
Public Works  
REPUBLIC OF SOUTH AFRICA

**REFERENCE NUMBER: 3267375**

**TERMS OF REFERENCE FOR 12 MONTHS SERVICE OF MECHANICAL AND ELECTRICAL INSTALLATIONS IN THE BELOW RENTED HOUSES SITUATED AT HOUSE 296 SANFORD STREET, UNIT 54 WATERKLOOF 101 ESTATE, UNIT 56 WATERKLOOF, 101 ESTATE, 100 OCTANS AVENUE, UNIT 201 EMBASSY TOWERS, 175 EMPIRE PLACE SANDHURST, UNIT 29 WEST END ESTATE, 9 WESTMINISTER AVENUE, BRYANSTON JHB, 40 AVONDALE CRESTCENT, MIDSTREAM ESTATE, EXT 11, OLIFANTSFONTEIN, 34 BOND PLACE, MIDSTREAM ESTATE, EXT 3, OLIFANTSFONTEIN**

## 1 PURPOSE

To service monitoring systems to a good working condition for Rental Houses accommodation. Companies to bid for the repairs of the house at a reasonable cost for market related and of a good quality.

## 2 ABOUT THE DEPARTMENT

The mandate of the Department of Public Works and Infrastructure (DPWI) is to provide service and maintain ministerial accommodation.

## 3 SCOPE OF WORK

<b>Access control</b>		
1	The supply of voltage must be correct to all parts of the system of mechanical and electrical installation.	
2	Service and repair existing access control/electrical and mechanical installation to a good working condition as per bill of quantities	
3	Check/repair gate, garage doors, laundry equipment lights and air conditioning system	
3	Check power specification and power cable properly installed	
4	Check operationally of electric fence, gate, garage doors, intercom, alarm and doorbell regularly	
5	Lubricate any moving parts and remove any build-up residue	
6	Clear debris and vegetation along the electric fence line.	
7	Clean the system and tightened loose connections and brackets	

8	Replacement of faulty component, shall be made good to match the existing	
9	Allow cleaning on-site inspection.	
10	Test the system	
11	Create check list and Complete job card for job completion	

### 3.1 All work to be coordinated with the DPWI.

## 1 MINIMUM REQUIREMENTS APPLICABLE TO THIS BID

### 4.1 Administrative responsiveness Criteria

Failure to comply with the criteria state hereunder shall result in the tender offer being disqualified from further consideration:

- 4.1.1 Bid form must be properly received on the bid closing date and time specified on the invitation, fully completed and signed in ink.
- 4.1.2 Submission of PA-11: Declaration of interest and bidder's past supply chain Management practices.
- 4.1.3 Submission of PA-29: Certificate of Independent Bid Determination.
- 4.1.4 Provide proof of a registration on the National Treasury Central Suppliers Database by completing the invitation to bid form PA 32 with supplier registration number and unique registration reference number
- 4.1.5 It is estimated that potentially emerging enterprises should have **1ME, or EB** to satisfy the criteria stated in the Tender Data.
- 4.1.6 Letter of a good standing from the department of labour
- 4.1.7 Company must have traceable experience in working with access control systems.
- 4.1.8 certified copy of **COC** for electric fencing must be attached be attached.
- 4.1.9 The company to have necessary equipment to work.

4.1.10 All personnel deployed to this site to be of sober habits as SAPS is at liberty to refuse entry.

4.1.11 All personnel deployed to site must always adhere to covid-19 and safety regulations.

4.1.12 The successfully bidder will be subjected to undergo for security screening process and if there is any criminal record detected, the department has a right not to appoint.

## 5. ALL POTENTIAL SERVICE PROVIDER TO NOTE THE FOLLOWING:

5.1 The service provider must have the companies must have all necessary equipment to do work.

5.2 Upon completion photographic images of work done on site should be handed to DPW. No final payment will be made if the said report is not submitted to DPW.

## 6. REPONSIBILITIES

6.1 **DPW:** The departmental officials, who are involved in maintenance project will be responsible for:

- Providing the necessary detail and information arrangements in a form of a Project Plan that the required service requirements are understood
- Rendering all reasonable assistance in executing the service
- Granting the service providers access to the areas.

6.2 **SERVICE PROVIDER:** The personnel, who is involved in maintenance project will be responsible for:

- Executing services as stipulated in the terms of reference
- Timeous delivery of services as stipulated on approved Projects Execution Plan.
- Upon request from the Department remove any resource employed from site should the service rendered by the resource not be in accordance with Departmental requirements.

- Submission of the closeout report of the closeout report as stated in clause 5.2
- Timeous submission of correct detailed invoices for services rendered in order for payments to be affected by DPW within 30 days of receipt as per Bid stipulation.
- Any additional infrastructure required by tenderer will be for their own account
- Any damage to the property, will be at the cost of the service provider

## **7. ENQUIRIES:**

**Technical queries**

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## 12 MONTHS SERVICING AND MAINTENANCE OF MECHANICAL AND ELECTRICAL INTALLATION

REFERENCE NUMBER :

### SCHEDULE ONE ( 1 ) SCHEDULED MATERIAL

12 MONTHS SERVICING AND REPAIR OF ACCESS CONTROL IN WATERKLOOF MINISTERIAL HOUSES  
WILL BE MADE AVAILBLE ON DEMAND AND TO THE SUCCESSFUL BIDDER

ALL MATERIALS ARE TO BE OFF SOUTH AFRICAN MANUFACTURE AND SABS APPROVED. PROOF OF MATERIALS SOURCED TO BE ATTACHED TO THIS TENDER.

ITEM	DESCRIPTION	QTY	UNIT PRICE	TOTAL PRICE
<b>1:AUTOMATED GATES</b>				
<b>1.1 Sliding Gates</b>				
a.	Centurion D5 Motor -complete	ea		
b.	Centurion D10 Motor -complete	ea		
<b>1.2 Electrical Installation</b>				
a.	1.5 mm cable 2 core	p/m		
b.	2.5 mm cable 2 core	p/m		
c.	4mm cable 3 core	p/m		
d.	10mm cable 3 core	p/m		
e.	16 mm cable 3 core	p/m		
f.	25 mm cable 3 core	p/m		
<b>1.3 Transmitters</b>				
a.	Nova 4 button remote	ea		
b.	Nova 4 button pad	ea		
c.	Nova 3 button remote	ea		
d.	Nova 3 button pad	ea		
e.	Nova 2 button remote	ea		
f.	Nova 2 button pad	ea		
<b>1.4 Controllers</b>				
a.	Centurion D5	ea		

b	Centurion D10 smart		ea		
c	Centurion A10		ea		
d	Gemini 24V DC		ea		
			ea		
1.5	<b>Origin Sensors</b>				
a	Centurion D5 sensor		ea		
b	Centurion D10 sensor		ea		
c	Gemini 24V DC sensor		ea		
d	Centurion D20 sensor		ea		
e	D5 EVO power supply		ea		
f	D10 smart power supply		ea		
g	Gemini power supply		ea		
h	Blue motor power supply		ea		
i	Garage door motor charger 24V		ea		

1.6	Ancillary Equipment				
a	Light fuse 3A		ea		
b	Motor fuse 30A ATO		ea		
c	Anti Theft bracket		ea		
d	Side covers		ea		
e	Foundation plate		ea		
f	12V 7.2 Ah Battery		ea		
g	12V 10 Ah Battery		ea		
h	24v 7.2 Ah Battery		ea		
i	2A 12V charger		ea		
j	5A 24V Charger		ea		
k	Locakable manual release access door		ea		
l	Encoder sensor		ea		
m	Gear box oil		p/l		
n	Round bar track installed		ea		
o	Gate rack fully installed-metal		ea		
p	Gate rack fully installed high density plastic		ea		
q	Rollers fully installed		ea		
r	Roller guides set of 4 – fully installed 8mm		ea		
s	Roller guideset of 4 – fully installed up 12mm		ea		
t	Roller guides set of 4 – fully installed up 16mm		ea		
u	Gearbox for sliding gate		ea		
v	Arms /Linkages for gate motor		ea		
w	Alignment of gate track inclusive of welding and angle iron or 8mm round bar		ea		
x	Steel gate wheels 60mm set of 4		ea		
y	Steel gate wheels 80mm set of 4		ea		
z	Steel gate wheels 100mm set of 4		ea		

2	ELECTRIC FENCING				
a	Clearance of fence of debris and vegetation		p/cum		
b	Fence posts		ea		
c	outriggers bracketed with plate		ea		
d	Fencing bracket off set triple anti dig		ea		
e	Fencing bracket off set triple live up		ea		
f	Fencing bracket off set single live up		ea		
g	Fencing bracket off set double live up		ea		
h	Fencing bracket off set double		ea		
i	Earth Spike		ea		
j	Earth and polarity testing		ea		
k	Battery 12V SLA 7.2AH		ea		
l	12V power supply		ea		
m	Certificate of Compliance		ea		
n	Surge suppressors		ea		
o	Fuses		ea		
p	Combo tensioner hybrid-BB 120kg		ea		
q	Combo tensioner hybrid-BD 150kg		ea		
r	Combo tensioner hybrid-DB 450kg		ea		
s	Combo tensioner hybrid-porcelain		ea		
t	Combo tensioner hybrid-standard		ea		
u	S- hook		ea		
v	S- hook through hole		ea		
w	Standard tensioner		ea		
x	U- hook		ea		
y	Wire strainer heavy duty		ea		
z	Wire strainer heavy duty-plastic		ea		

aa	Wire strainer heavy duty -porcelain			ea		
bb	Strainer post end and corner			ea		
cc	Strainer post stays			ea		
dd	Y pivot -galvanised			ea		
ee	Gate handle with spring hook			ea		
ff	Alarm strobe light			ea		
gg	Earth Spike anodised			ea		
hh	Fence light -timed			ea		
ii	Earthing rod			ea		
jj	Braided wire strands aluminium			p/m		
kk	Braided wire strands steel			p/m		
ll	Gate contacts			ea		
mm	06mm ferrules			ea		
nn	Crimps			ea		
oo	Spring Hook large tail			ea		
pp	Spring Comp			ea		
qq	Braided wire strands anodised			p/m		
uu	Joint clamps			ea		
vv	Warning signs- installed			ea		
ww	Pilot lights			ea		
xx	Merlin Energiser 8J Stealth			ea		
yy	JVA Z14 Energiser			ea		
zz	Cable HT Slimline Black			ea		
ab	Sound devices-siren			ea		
ac	Sherlo ZCH Code hopping			ea		
ad	Sherlo ZCH Code 2 button hopping			ea		
ae	Bobbins			ea		
af	Strobe Light			ea		
ag	By-pass switch/tag			ea		
ah	Busbar insulator			ea		
ai	Nail on insulator			ea		
aj	Picket clip rope wire			p/m		
ak	Picket insulator			ea		
al	Picket insulator clip-porcelain fastner			ea		
am	Porcelain insulator			ea		

an	Porcelain insulaor-strain			ea		
ao	Strain insulator- Jumbo			ea		
ap	Strain insulator-Ultra			ea		
aq	Tension bobbin insulator			ea		
ar	Wooden post insulator			ea		
as	Y Standard insulator			ea		
at	Line clamp bolt type			ea		
au	Line clamp claw type			ea		
av	Line clamp U type 8mm			ea		
aw	Enclosure : Aluminium large			ea		
ax	Enclosure : Reinforced fibre X large			ea		
ay	Druid one zone - keypad			ea		
az	Druid two zone - keypad			ea		
bb	Tag for by pass			ea		
bc	Single pole lightning protector			ea		
bd	Druid 25 LCD Dual zone 5 Joule			ea		
be	Druid 114 LCD Dual zone 14 Joule			ea		
bf	Druid 28 LCD Dual zone 8 Joule			ea		
bg	Solid galvanised wire			p/m		
bh	Stranded galvanised wire			p/m		
bi	Stranded galvanised wire XL			p/m		
bj	Merlin Stealth M283-x-8 Joule			ea		
bk	Test system and report back			ea		

<b>3</b>	<b>Electrical installation</b>				
a	E 27 led 6- 10w		ea		
b	E 27 led 11-15w		ea		
c	PL 9-18w		ea		
d	G23 6-15w		ea		
e	Florecent ballast 10-20w		ea		
f	Down light straight		ea		
g	Down light 380 eye ball		ea		
i	Flood light 50w		ea		
j	Flood light 100w		ea		
k	Geys'er thermostat 0-90		ea		
l	Geys'er element 2kw		ea		
m	Geys'er element 3kw		ea		
n	Oven element 2kw		ea		
o	Oven element 3kw		ea		

<b>4</b>	<b>Mechanical installation</b>				
a	12 000 btu major service		ea		
b	18 000 btu major service		ea		
c	24 000btu major service		ea		
d	12 btu compressor		ea		
e	18 000 btu compressor		ea		
f	12 000 btu fan motor		ea		
g	12 000 btu fan motor		ea		
h	12 000 btu fan motor		ea		
i	Thermostat		ea		
j	Communication cable		p/m		
k	PC board		ea		
l	Remote control		ea		
<b>5</b>	<b>Electrical installation</b>				
a	circuit breaker 10a		ea		
b	circuit breaker 15a		ea		
c	Circuit beaker 25a		ea		
d	Circuit breaker 32a		ea		
e	Circuit breaker 50a		ea		
f	Circuit breaker 60a single pole		ea		
g	Circuit breaker 60a double pole		ea		
i	Circuit breaker 63a single pole		ea		
j	Circuit breaker 63a double pole		ea		
k	Earth leakage 63a single pole		ea		
l	Earth leakage 63a double pole		p/m		
m	pvc conduit 20mm		ea		
n	One lever one way		ea		
o	Two lever		ea		
p	Three lever		ea		
q	Single socket 100 x 100 3pin		ea		
r	Double socket 100 x 100 3pin		ea		
s	100 x 100 usb		ea		
<b>6</b>	<b>Laundry and kitchen equipment</b>				
a	Thermostat		ea		
b	Refrigerant		ea		
c	waswing machine/tumble dryer/dish washer door switch		ea		
d	waswing machine/tumble dryer/dish washer switch		ea		
e	Silicon wire 2.5mm		ea		
f	silicon wire 4mm		ea		

g	Electric motor 0,5 to 0,75 kw		ea		
h	Drain pump		ea		
i	Electronic pc boards		ea		
j	Valve(inlet of outlet)		ea		
k	Basket		ea		
l	Gear case		ea		
m	Pilot light		ea		
n	Solihoid		ea		
o	Drum belt		ea		
p	Tensioners		ea		
q	Idler		ea		
r	Blower		ea		
s	Heating element		ea		
t	Filter		ea		
u	Temperature control		ea		
v	Exhaust system		ea		
w	Door seal		ea		
x	Timer		ea		
y	Relay		ea		
z	Hoses		ea		
aa	Water pump		ea		
ab	Capacitor		ea		
ac	Defrost heater		ea		
ad	Fuse		ea		
ae	PC board		ea		
af	1/5HP		ea		
ag	1/6HP		ea		
ah	1/3HP		ea		
ai	1/12HP		ea		
aj	Electricstove hob 60cm solid 4 x plates		ea		
ak	Electricstove hob 90cm solid 6 x plates		ea		
al	Gas stove hob 90cm 6 x plates		ea		
am	4 heat Switches		ea		
an	Thermostatic controls		ea		
ao	Solid plate		ea		
ap	Control panel		ea		
aq	Oven glass		ea		
ar	Burner orifice		ea		
as	Nozzle		ea		
at	regulator	ea			
au	LPG hose pipeGas cock valve		ea		

av	Knob switch		ea			
aw	Gas lighter		ea			
ax	Control valve		ea			
ay	Nipple		ea			
az	Cylinder burner plate		ea			

7	AUTOMATED GARAGE DOORS				
a	Garage door remote 4 button		ea		
b	Remote button pad		ea		
c	Batteries for remotes		ea		
d	12 V battery 7 AH		ea		
e	Multifunctional push button control		ea		
f	Wall attachment bracket		ea		
g	Door attachment bracket		ea		
i	PLC board		ea		
j	Traveler assembly		ea		
k	Light fuse 5A to 10 A		ea		
l	Emergency release cord		ea		
m	Connecting straight arm		ea		
n	Connecting bent arm		ea		
o	Aerial		ea		
p	Proximity sensors		ea		
q	Remote receiver		ea		
r	Lubrication of moving parts		ea		
s	Replacement of rollers		ea		
t	Reaplacement of wheels		ea		
u	Reprogramming remotes		ea		
v	Centurion garage door motor		ea		
w	24v garage door motor		ea		
x	Gemini garage door motor		ea		
y	24v battery 4AH		ea		

**8: CERTIFICATE OF COMPLIANCE**

a.	Testing of Installation and Issue of a full Compliance certificate in accordance with OHS Act and SANS 10142 Code of Practice for Electrical Installations.	1			
b.	Testing of Installation and Issue of a partial Compliance certificate in accordance with OHS Act and SANS 10142 Code of Practice for Electrical Installations.	1			

**SCHEDULE ONE (1) TOTAL CARRIED TO SUMMARY PAGE**

**SCHEDULE TWO (2) NON SCHEDULED MATERIAL AND LABOUR RATES FOR THE DURATION OF THE CONTRACT.**

ITEM	DESCRIPTION	QTY	RATE	Total
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**9: MATERIAL**  
**MATERIAL: MARK - UP ON ALLOWANCE FOR NON-SCHEDULE MATERIAL CALCULATED AT 20%**

9.1		1	20%	20%
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**10: LABOUR**

10.1	LABOUR: NORMAL WORKING HOURS			
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10.1.1	Skilled Artisan	1		
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10.1.2	General Assistance	1		
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10.2	LABOUR: OVERTIME, SUNDAY AND PUBLIC HOLIDAYS			
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10.2.1	Skilled Artisan	1		
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10.2.2	General Assistance	1		
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**SCHEDULE TWO (2) TOTAL CARRIED TO SUMMARY PAGE**

**SCHEDULE THREE (3) TRANSPORT INSIDE CORE AREA FOR THE DURATION OF THE CONTRACT.**

ITEM	DESCRIPTION	QTY		
11: TRANSPORT				

11.1	Transport for travelling inside core define area ( Core define area is the District(30km return trip, outside this area the cost is on the contractor. )		1	
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**SCHEDULE THREE (3) TOTAL CARRIED TO SUMMARY PAGE**

**SUMMARY PAGE**

1.	Total brought forward from Schedule One (1)
2.	Total brought forward from Schedule Two Labour Rates (2)
3	Total brought forward from Schedule Three : Transport

**TOTAL IN WORDS:**

**SUB TOTAL**

**VAT**

**TOTAL CARRIED FORWARD TO TENDER FORM DPW-07(EC)**

**TOTAL IN WORDS:**