



public works
& infrastructure

Department:
Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA

STANDARD TERMS OF REFERENCE FOR MAINTENANCE, REPAIRS AT HOUSE NO 153 CYGNUS STREET, WATERKLOOF, PRETORIA

ID: 3216183

T17/30/08/24

1 PURPOSE

To invite companies to bid for the once off maintenance, repairs as per scope of work provided for House No 153 Cygnus Street, Waterkloof, Pretoria

2 ABOUT THE DEPARTMENT

The mandate of the department of public works & infrastructure (dpwi) is, *inter alia*, to repair and waterproofing of reinforced concrete roof slab, Restoration of wooden doors and frames and window frames, external and internal Painting plastered and previously painted brick boundary walls, painting of steel work, fixing of retractable patio roof, Electrical power wiring, Rewiring of fence security, cameras, Doorbell, intercom and other electrical installations

SCOPE OF work

3.1 The PEP to be prepared as soon as SCM process has been completed.

3.2 All work to be coordinated with DPWI (project manager responsible on site) and SAPS (access to be arranged with SAPS prior security cleared appointed service provider can resume with work on site)

3 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 Submission of a complete Price Schedule

4.1.6 Submission of a copy of the insurance

4.1.7 **2ME, 2GB, 2 EP or 2EB** or higher and satisfy the criteria stated in the Tender Data.

4.1.8 Certified copy of the Contractor or Technician's Psira certificate.

- 4.1.9 Certified copy of electrical trade test certificate and wireman's license must be attached
- 4.1.10 Certified copy of air conditioning trade test must be attached
- 4.1.11 Letter of good standing from department of labour must be attached

4.2 Infrastructure Requirements

The following resource requirements must be complied with and be included in the Bid price:

- 4.2.1 To ensure that all the required repairs are covered
- 4.2.2 Ensure Act 205 compliance and Engineering certification is supplied to the Department
- 4.2.3 All material, travelling and labour must be included at the cost of the tenderer
- 4.2.4 Must comply with the Occupational Health and Safety regulations
- 4.2.5 The Service Provider shall be liable for the Security of all the material and equipment's for the period of the project.

5. ALL POTENTIAL SERVICE PROVIDER TO NOTE THE FOLLOWING:

- 5.1 The service provider must have the companies' liabilities and insurance.
- 5.2 Upon completion of the project, a close-out report with photographic images of the focal points of the project should be handed to DPW. No final payment will be made if the said report is not submitted to DPW.

6. RESPONSIBILITIES

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

- Executing services as stipulated in the terms of reference
- Keep site safe and clean at all times especially after hours
- 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 as stated in clause 5.2
- Timeous submission of correct detailed invoices for services rendered in order for payments to be effected by DPW within 30 days of receipt as per Bid stipulation.
- Any additional work not approved by the DPWI will be for their own account
- Any damage to the structure or pavement will be at the cost of the service provider
- The DPWI has the right to reduce the scope as in when required.

7. ENQUIRIES:

Technical queries

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NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
1	THE FOLLOWING OR THE BELOW WORK HAS TO BE DONE AT 153 CYGNUS STREET IN WATERKLOOF					
1.1	WATERPROOFING OF LEAKING CLAY TILED ROOF. WATERPROOFING OF LEAKING REINFORCED CONCRETE ROOF SLAB REPLACEMENT OF WATER DAMAGED KITCHENETTE CUPBOARDS. REPLACEMENT OF WOODEN FLOORING DUE TO WATER LEAKAGES. REPAIRS TO LIFTING PAVING DUE TO TREE ROOTS. REPLACING WATER DAMAGED CEILING. VARNISHING OF WOODEN WINDOW FRAMES, DOOR FRAMES AND WOODEN DOORS. PAINTING OF THE MAIN HOUSE INTERNAL AND EXTERNAL WALLS. PAINTING OF BOUNDARY AND RETAINING WALLS. PAINTING OF STAINLESS STEEL HANDRAILS. OF CCTV CAMERAS AND MONITORING SYSTEM. MAINTENANCE ELECTRICAL REPLACEMENT OF WORN/OUT VINYL FLOORING WITH FLOOR TILES					
1.2	THE BELOW AND ALL NECESSARY PRECAUTIONS ARE TO BE FOLLOWED AND ADHERED TO AT ALL TIMES, NO WORK NOT INCLUDED IN THE ATTACHED BOQ WILL NOT EXECUTED UNTIL AND UNLESS WRITTEN APPROVAL IS RECIEVED FROM THE PROJECT MANAGER.					
1.3	IT IS THE RESPONSIBILITY OF THE SERVICE PROVIDER TO KEEP SITE SAFE, CLEAN FOR HIS EMPLOYEES AND CLIENTS AND CLEARING OF ALL RUBBLE FROM SITE.					
1.4	THE RESPONSIBLE SERVICE PROVIDER WILL REGISTER ELECTRICAL AND WATER METER READING WHEN OCCUPYING SITE AND AT THE TIME OF HANDING OVER THE SITE TO THE DEPARTMENT FOR RECORD PURPOSES.					
1.5	THE RESPONSIBLE SERVICE PROVIDER WILL SUBMIT THE FOLLOWING DOCUMENTS TO PROJECT MANAGER AFTER THE COMPLETION OF WORK OR HANDING OVER SITE: PICTURES FOR THE EXECUTION OF THE WORK. NEW SET OF KEYS OF THE PROPERTY. ROOF GUARANTEE CERTIFICATE FOR A PERIOD OF 5 YEARS. CERTIFICATE OF COMPLIANCE AND A CERTIFIED COPY OF WIREMANS LISENCE.					
1.6	THE RESPONSIBLE SERVICE PROVIDER WILL: COMPLY AND ADHERE TO ALL LOCAL AND NATIONAL BUILDING REGULATIONS COMPLY TO OCCUPATIONAL HEALTH AND SAFETY ACT SERVICE PROVIDERS'S PERSONNEL ON SITE SHOULD BE IDENTIFYABLE DURING THE PROJECT PERIOD/ DURATION					

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
2	SECTION A					
2.1	PREPARATIONS AND REMOVALS UNDERTAKEN					
2.1.1	Dropped sheets to be used for the entire project period and it is the responsibility of the contractor to protect all the items within the property during this period.				Item	
2.1.2	The site to be kept safe, clean and clear of all rubble. All rubble is to be removed from site to a suitable dumping area.				Item	
2.1.3	Make a provision for scaffolding to be used on site during waterproofing and on the roof.				Item	
2.2	REMOVE ROOF COVERING, ETC				Sub Total	
2.2.1	Taking down and removing roofs, floors, ceilings, etc					
2.2.1.1	Remove old damaged and broken roof tiles including battens	Main house, helper's quarters and garages	M ²	1		
2.2.1.2	Remove old damaged and broken ridges including battens	Main house, helper's quarters and garages	M	1		
2.2.1.3	Remove old metal valleys including battens	Main house, helper's quarters and garages	M	1		

NO	DESCRIPTION		LOCATION	UNIT	QUANTITY	RATE	AMOUNT
2.3	REMOVE CARPENTRY AND JOINERY						
2.3.1	Carefully dismattling and remove damaged sagging rhinoboard ceiling, branderings, light fittings and cornice due to water leakages		Main house	M ²	1		
2.3.2	Carefully dismantle and remove old kitchen damaged Post Form Top		Main house	M ²	1		
2.3.1	Carefully remove damaged laminated wooden flooring due to water leakages		Main house	M ²	1		
						Sub Total	
2.4	REMOVE WATERPROOFING, ETC						
2.4.1	Remove old and damaged waterproofing membrane around chimney, skylight roofs and brick work pillar		Main house, helper's quarters and garages	M ²	1		
2.4.2	Remove old torch-on waterproofing membrane on Reinforced Concrete Roof Slab and to Parapet walls		Guardhouse	M ²	1		
2.5	FIX RETRACTABLE PATIO ROOF AND PROVIDE OPENING AND CLOSING STEEL POLE INCLUDING DAMAGED STEEL BLADES						
2.5.1	Carefully take out damaged/ broken steel blades.						
2.5.2	Provide opening and closing steel pole		Main house, helper's quarters and garages	No	1		

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
2.5.3	Remove old lockset from timber door and burglar gates	Main house, helper's quarters and garages	No	1		
					Sub Total	

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
3	SECTION B					
3.1	REPAIRS TO STANDARD					
3.1.1	WATERPROOFING					
3.1.2.1	WATERPROOFING TO FLAT ROOFS (REINFORCED CONCRETE SLAB)					
3.1.2.1.1	4mm torch-on polyester based sheeting					
3.1.2.1.2	On flat roofs	Veranda	M ²	1		
3.1.2.1.3	Sealing edges to brickwork or concrete	Veranda	M ²	1		
3.1.2.1.4	Apply universal undercoat paint to roof surface as per the manufactures specifications and project managers instructions	Veranda	M ²	1		
3.1.2.1.5	Apply two coat of Bitumin Silver coat superior UV reflection aluminium paint to torch-on concrete flat roof to match the existing and as per the manufacturer's specification	Veranda	M ²	1		
3.1.2	CARPENTRY AND JOINERY				Sub Total	
3.1.2.1	38 x 114mm x 6m timber nailed to trusses supporting and to keep trusses in position	Main house, helper's quarters and garages	M ²	1		
3.1.2.2	Replace 580 X 600mm wooden shelves to BIC to match the existing	Main house, helper's quarters and garages	No	1		
3.1.2.3	Spray paint/ laminate the kitchen unit including cupboard doors to look good	Main house, helper's quarters and garages	No	1		

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
3.1.2.4	900 x 1700 x32mm thick Kitchen Countertop Granite D60Cm X H3Cm Nero Rustenburg fixed to kitchen units and apply a suitable sealer between the joints	Main house, helper's quarters and garages	M ²	1		
3.1.2.5	600 x 5 x 32mm thick Kitchen Countertop Granite D60Cm X H3Cm Nero Rustenburg fixed to kitchen units and apply a suitable sealer between the joints	Main house, helper's quarters and garages	M ²	1		
					Sub Total	

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
3.1.3	ROOF COVERINGS					
3.1.3.1	ROOF INSULATION					
3.1.3.1.1	Ecolay undertile roof membrane 1440 x 30m laid taut over timber rafters and fixed concurrent with tiling					
3.1.3.1.2	Ecolay undertile roof membrane 1440 x 30m laid taut over battens etc	Main house, helper's quarters and garages	M ²	1		
3.1.4	CLAY / CEMENT ROOF TILES					
3.1.4.1	Roof tiles to match existing nailed with non-corrosive tile nailed to softwood purlins (elsewhere)					
3.1.4.1.1	Double Roman Plus cement roof tiles not exceeding 30 degrees including battens	Main house, helper's quarters and garages	M ²	1		
3.1.4.1.2	Ridge tiles bedded and pointed in cement mortar to match tile colour	Main house, helper's quarters and garages	M	1		
					Sub Total	
3.1.5	CEILINGS					
3.1.5.1	NAILED UP CEILINGS					
3.1.5.1.1	9.6 mm Gypsum plaster board, fixed in position					
3.1.5.1.2	Horizontal ceilings secured to 38 x 38mm branderings at 450 centres in both directions including branderins	Main house	M ²	1		
3.1.5.2	POLYSTYRENE CORNICES					

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
3.1.5.2.1	2000 X 110 X 110mm cornices	Main house	M	1		

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
3.1.6	FLOOR COVERING					
3.1.6.1	1291 x 193 x 8mm thick High Gloss laminate range flooring solution in a bleached oak colourway with a high gloss finish	Guardhouse	M ²	1		
3.1.6.2	Ditto but 80 X 15mm laminated skirting	Studyroom	M ²	1		
3.1.7	PLASTERING					
3.1.7.1	Rhinolite to gypsum plaster ceiling boards					
3.1.7.2	Rhinolite skimming to the entire gypsum plaster ceiling boards surfaces, use clean steel trowel to level off any unven areas and leave to set	Main house	M ²	1		
3.1.7.3	Under no circumstances should RhinoLite be sanded. All RhinoLite surfaces must be sealed with an oil-based paint bonding liquid or a pigmented plaster primer, suitably thinned down with mineral turpentine. Allow to dry for 24 hours before applying two coats of acrylic paint.	Main house	M ²	1		

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
					Sub Total	

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
3.1.8	<u>REMOVE PLUMBING AND DRAINAGE</u>					
3.1.8.3	Remove existing gutters from the sprockets keep safe and reinstall including brackets after cement roof tiles has been laid	Main house, helper's quarters and garages	M	1		
3.1.8.4	Remove existing down pipes from the gutters keep safe and reinstall including concrete shoe to redirect water away from the house after cement roof tiles has been laid	Main house, helper's quarters and garages	No	1		
3.1.8.5	Remove old chromium plated sink mixer	Main house, helper's quarters	No	1		
3.1.8.6	Remove chromium plated bath mixer	Main house	No	1		
3.1.8.7	Remove old and damaged WC including cistern	Main house, helper's quarters and garages	No	1		
					Sub Total	

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
3.1.9	PAINT WORK					
3.1.9.1	PAINTWORK ON PREVIOUSLY PAINTED SURFACES					
3.1.9.1.1	Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied, blistered or peeling paint shall be completely removed and cracks shall be opened, filled with suitable filler and finished smooth.					
3.1.9.1.2	Remove all existing loose, flacking and peeling paint and putty lime up to cement plaster by scabbing and sanding down (no chemical removers or bunnars allowed) and apply one coat primer and two coats of interior quality PVA emulsion paint					
3.1.9.1.3	To internal walls	Main house, helper's quarters and garages	M ²	1		
3.1.9.1.4	To internal Gypsum board ceilings	Main house, helper's quarters and garages	M ²	1		
3.1.9.1.5	Remove all existing loose, flacking and peeling paint and putty lime up to cement plaster by scabbing and sanding down (no chemical removers or bunnars allowed) and apply one coat primer and two coats of interior quality PVA emulsion paint					
3.1.9.1.6	To external walls	Main house, helper's quarters and garages	M ²	1		

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
3.1.9.1.7	Remove all existing loose, flaking and peeling paint and putty lime up to cement plaster by scabbing and sanding down (no chemical removers or bunnings allowed) and apply one coat primer and two coats of interior quality PVA emulsion paint					
3.1.9.1.8	To 590 x 240 x 2,1m high plastered brick columns	Veranda	M ²	1		
3.1.9.1.9	Ditto but to 350 x 240 x 2,1 high plastered brick beams	Veranda	M ²	1		

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
3.1.9.1.10	Remove all existing loose, flacking and peeling paint and putty lime up to cement plaster by scabbing and sanding down (no chemical removers or bunnners allowed) and apply one coat primer and two coats of interior quality PVA emulsion paint					
3.1.9.1.11	To soffit of the slab	Main house, helper's quarters and garages	M ²	1		
3.1.9.1.12	Remove all existing loose, flacking and peeling paint and putty lime up to cement plaster by scabbing and sanding down (no chemical removers or bunnners allowed) and apply one coat primer and two coats of interior quality PVA emulsion paint					
3.1.9.1.13	To retaining wall	Main house, helper's quarters and garages	M ²	1		
3.1.9.1.14	Remove all existing loose, flacking and peeling paint and putty lime up to cement plaster by scabbing and sanding down (no chemical removers or bunnners allowed) and apply one coat primer and two coats of interior quality PVA emulsion paint					
3.1.9.1.15	To boundary wall	Boundary wall	M ²	1		
					Sub Total	

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
3.1.9.2	VARNISH ON WOOD/ APPLY WOOD OIL					
3.1.9.2.1	Make good defects, sand smooth and clean, apply first coat thinned appropriately and two final coats of clear varnish, all in strict accordance with the manufacturer's specifications.					
3.1.9.2.2	To wooden glass doors including wooden frames	Main house, helper's quarters and garages	M ²	1		
3.1.9.2.3	Ditto but to solid wooden doors including wooden frames	Main house, helper's quarters and garages	M ²	1		
3.1.9.2.4	Ditto but to wooden window frames (Both sides measured over the full flat area)	Main house, helper's quarters and garages	M ²	1		
3.1.9.2.5	Ditto but to wooden skirting	Main house, helper's quarters and garages	M ²	1		
3.1.9.2.6	Ditto but to wooden garage doors	Main house, helper's quarters and garages	M ²	1		

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
3.1.9.3	PAINTWORK ON METAL					
3.1.9.3.1	Spot priming defects in pre-primed surfaces with zinc chromate primer and applying one undercoat Type II and two full coats high gloss polyurethane non-drip enamel paint on steel					
3.1.9.3.2	Stainless Steel Handrail	Around the house	M ²	1		
3.1.9.3.3	Ditto but to burglar gates	Around the house	M ²	1		
3.1.9.3.4	Ditto but to gates with metal plates	Around the house	M ²	1		
3.1.10	EXTERNAL WORK					
3.1.10.1	PAVING					
3.1.10.2	Carefully remove 80mm thick brick paving, clean and keep safe for reuse purposes	Around the house	M ²	1		
3.1.10.3	Cut and remove tree roots underground, level, fill surface with 50mm thick bedding elsewhere required and make good to receive paving	Around the house	M	1		
3.1.10.4	Remove all weeds and apply weed killer between paving according to manufacture's specifications, allow to dry and apply waterproofing grouting between the paving where required	Around the house	M ²	1		
3.1.10.5	80mm thick paving laid on 50mm thick clear sharp sand bed with sand swept into joints and hose down including weed killer and ant poisoning to match existing					
3.1.10.6	Paving to driveway, around the house and swimming pool	Around the house	M ²	1		
					Sub Total	

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL OF BUILDING WORK						
4	SECTION C					
4.1	<u>MAINTENANCE OF CCTV CAMERAS AND MONITORING SYSTEM</u>					
4.1.2	SUPPLY AND INSTALL THE FOLLOWING CCTV CAMERAS, COMPLETE WITH MOUNTING BRACKETS, LENSES, HOUSING, FANS, PAN/ TILT/ ZOOM UNITS, DOMES, DRIVES, ETC.					
4.1.2.1	Replace Bullet cameras 4MP 40M IP	Main house	No	1		
4.1.2.2	25 x Smart bullets PTZ	Main house	No	1		
4.1.2.3	Replace 16 Chanel Power supply 12 V	Main house	No	1		
4.1.2.4	Install 16 CH NVR POE	Main house	No	1		
4.1.2.5	Install 16 port switch POE network switch	Main house	No	1		
4.1.2.6	Replace Cable Cat6 network cable UTP Unshielded Twisted 1500M inclusive connectors	Main house	No	1		
4.1.2.7	Replace PVC pipe 25MM 500m inclusive connectors	Main house	No	1		
4.1.2.8	Install surge protector	Main house	No	1		
4.1.2.9	Install UPS 3 KVA	Main house	No	1		
4.1.2.10	Repair 6U door Cabinet and locking mechanism	Main house	No	1		
4.1.2.11	8TB, HDD	Main house	No	1		
4.1.2.12	43" Inch monitor	Main house	No	1		

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL OF CAMERAS AND ACCESS CONTROL SYSTEMS						
5	SECTION D					
5.1	ELECTRICAL INSTALLATIONS					
5.1.1	Appliances fixed to flush or surface boxes complete with cradle, cover plate etc. and connected to conductors (boxes elsewhere measured)					
5.1.2	Replace 4x4 3Pin double wall sockets in the Guard room	Main house	No	1		
5.2	Lighting fittings					
5.2.1	Supply, store, protect, erect, fix, including fixings, lamps, connectors, etc. the following light fittings including connections:					
5.2.2	Surface mounted to box, wall or ceiling					
5.2.3	In stall 16 flood 100w LED light around the house Guard room next to the cameras	Main house	No	1		
5.3	EXCAVATIONS					
5.3.1	Nature of ground and classifications of materials to be excavated including backfill for electrical installations					
5.3.2	Excavations in earth/ pickable soil, compacted filling not exceeding 2m deep					
5.3.3	For trenches	Main house	M ³	1		
5.3.4	For Soft rocks	Main house	M ³	1		
5.3.5	For hard rocks	Main house	M ³	1		
5.4	BACKFILLING					
5.4.1	Fill trench with bedding and backfill with selected material	Main house	M ³	1		
5.5	SURFACE COVERING					
5.5.1	Lift and reinstate surface (for cable excavating) to original condition					
5.5.2	Paving	Main house	M ²	1		

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
5.5.3	Install 1,5 mm suffix cable to supply flood lights	Main house	M	1		
5.5.4	Repair 1.5mm Suffix electrical cable inside and outside the house including all necessary connectors	Main house	M	1		
5.5.5	Balance the phases, label electrical distribution boards	Main house			Item	
5.5.6	PVC Conduit fixed vertically to wall surfaces after painting of the walls					
5.5.7	Supply 25mm PVC pipe	Main house	M	1		
5.5.8	Install 25mm PVC pipe	Main house	M	1		
5.6	TESTING AND COMMISSIONING					
5.6.1	Test and commission the entire electrical installation for distribution boards and equipment and issue the necessary Certificate of Compliance					
5.6.2	Supply testing and commissioning	Main house			Item	
5.6.3	Install test and commissioning	Main house			Item	

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
TOTAL OF ELECTRICAL WORK						
6	SECTION E					
6.1	MECHANICAL INSTALLATIONS					
6.1.1	Air conditioning system1					
6.1.1.1	Replace the existing faulty 18 000 btu split unit air conditioning system in the main bedroom (01), study room (01), lounge (01), bedroom (01) including coper pipes, armour flex and brackets	Main house	Ea	1		
6.1.1.2	Replace existing faulty 12 000 btu split unit air conditioning system in Guard room including coper pipes, armour flex and brackets	Main house	Ea	1		
6.1.1.3	2,5 mm suffix, cable 300m	Main house	Ea	1		
6.1.1.4	25 amp circuit breaker	Main house	Ea	1		
6.1.1.5	15 amp circuit breaker	Main house	Ea	1		
6.1.1.6	32 amps weatherproof isolator	Main house	Ea	1		
6.1.1.7	20 amps weatherproof isolator	Main house	Ea	1		
6.1.1.8	PVC 40 x 40 mm trunking 10M including connectors	Main house	M	1		
6.1.1.9	20mm x 6m conduit install horizontal inclusive of all suitable connectors	Main house	M	1		
6.1.2	INTERCOM					
6.1.2.1	IP intercom gate station	Main house	No	1		
6.1.2.2	Cat 6 200m	Main house	No	1		
6.1.2.3	IP two way phone set	Main house	No	1		

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
6.1.2.4	Cat 6 cable 200m	Main house	M	1		
6.1.3	AUTOMATED GATE					
6.1.3.1	Remove and install D20 centurion motor set inclusive mounting, track and remote programming to a good working condition.	Main house	No	1		
6.1.4	ELECTRIC FENCING					
6.1.4.1	Repair electric fence at 180m boundary wall long with gate contact to a good condition	Main house	M	1		
6.1.5	ROOF WARRANTY					
6.1.5.1	Make a provision of roof warranty certificate for the period of two years from the date of completion (this will mean that the contractor / service provider agrees to attend to the roof defects caused by labor and installation where they have worked on and where there is a poor workmanship within five years after waterproofing of the roof except where roof is damaged by natural courses, fallen trees e.t.c)				Item	

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
	TOTAL OF MECHANICAL INSTALLATIONS					
	TOTAL OF SECTIONS "A" TO "E"					
7	LABOUR SCHEDULES					
7.1	ARTISAN		Hrs	1		
7.2	LABOUR		Hrs	1		
7.3	TRANSPORT/ TRAVELLING AT R5/ KM		Km	1		
7.4	TOTAL					
7.5	ADD 15% VAT					
7.6	GRAND TOTAL					