



**TERMS OF REFERENCE FOR REPAIRS AND
WATERPROOFING OF THE ROOF
SHEETING, INTERNAL AND EXTERNAL
PAINTING OF HOUSE, GUARDHOUSE AND
BOUNDARY WALL , SERVICING, REPAIR
BOX GUTTERS, DOWN PIPES, WOOD WORK
(WINDOW, DOOR AND FRAMES) REPLACED
FASCIA BOARDS AND EAVES CEILING,
REPAIR EXTERNAL PAVING, REWIRE
GARDEN , BOUNDARY WALL AND SECURITY
MEASURE LIGHTS, BALANCE 3 PHASE AND
PROVIDE COC AND REPLACEMENT OF
FAULTY SWING GATE WITH SLIDING GATE
302 EMUS ERASMUS IN WATERKLOOF**

ID: 3216191

T19/30/08/24

1 PURPOSE

To invite companies to repairs and waterproofing of the roof sheeting, internal and external painting of house, guardhouse and boundary wall , servicing, repair box gutters, down pipes, wood work (window, door and frames) replaced fascia boards and eaves ceiling, repair external paving, rewire garden ,boundary wall and security measure lights, balance 3 phase and provide COC and replacement of faulty swing gate with sliding gate 302 emus Erasmus in waterkloof

2 ABOUT THE DEPARTMENT

The mandate of the department of public works (dpwi) is, *inter alia*, bid to repair and waterproofing of the roof sheeting, internal and external painting of house, guardhouse and boundary wall , servicing, repair box gutters, down pipes, wood work (window, door and frames) replaced fascia boards and eaves ceiling, repair external paving, rewire garden ,boundary wall and security measure lights, balance 3 phase and provide COC and replacement of faulty swing gate with sliding gate 302 emus Erasmus in waterkloof

SCOPE OF work

3.1 The required service to be completed by 16h00 on the 31 March 2025.

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 Contractor must be **PSIRA** registered (proof must be attached)
- 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. REPONSIBILITIES

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 79 BOGEY AVENUE STREET IN WATERKLOOF (ID-3216214)					
1.1	REPAIRS AND WATERPROOFING OF THE ROOF SHEETING, INTERNAL AND EXTERNAL PAINTING OF HOUSE, GUARDHOUSE AND BOUNDARY WALL, SERVICING, REPAIR BOX GUTTERS, DOWN PIPES, WOOD WORK (WINDOW, DOOR AND FRAMES) REPLACED FASCIA BOARDS AND EYES CEILING, REPAIR EXTERNAL PAVING, REWIRE GARDEN BOUNDARY WALL AND SECURITY MEASURE LIGHTS, BALANCE 3 PHASE AND PROVIDE COC AND REPLACEMENT OF FAULTY SWING GATE WITH SLIDING GATE					
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 RECEIVED 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. GUARANTEE CERTIFICATE FOR A PERIOD OF 5 YEARS. OF COMPLIANCE AND A CERTIFIED COPY OF WIREMAN'S 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 PROVIDER'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					
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		
2.2.1.4	Remove all skylight roofs including frames, keep safe and reinstall after laying roof tiles	Main house	no	1	N/A	
2.3	REMOVE CARPENTRY AND JOINERY					
2.3.1	Carefully dismantling 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		
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	Veranda	m ²	1	N/A	

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	DATE	AMOUNT
2.5	REMOVE IRONMONGERY, ETC					
2.5.1	Carefully take out damaged/ broken ironmongery including patching up openings and making good plaster (making good paintwork elsewhere) including later fixing in same or similar position					
2.5.2	Chromium plated towel rails not 100mm long	Main house, helper's quarters and garages	no	1		
2.5.3	Remove old lockset from timber door and burglar gates	Main house, helper's quarters and garages	no	1		
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					
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	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		
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		

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 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		
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					
3.1.5.2.1	2000 X 110 X 110mm cornices	Main house	m	1		
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	Main bedroom, bedroom 1, bedroom 2, study room and waiting area, Tv room and dining/ board room	m ²	1		
3.1.6.2	Ditto but 80 X 15mm laminated skirting	Main bedroom, bedroom 1, bedroom 2, study room and waiting area, Tv room and dining/ board room	m	1		

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
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 uneven 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		
3.1.8	REMOVE PLUMBING AND DRAINAGE					
3.1.8.1	Carefully remove metal sink including trap and keep safe to reinstall including all waste pipes, traps, clamps and seal all edges after new top has been installed	Main house, helper's quarters and garages	no	1		
3.1.8.2	Carefully remove existing double bowel sink including piping and keep safe for reuse	Main house	No	1		
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		

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, flaking and peeling paint and putty lime up to cement plaster by scabbing and sanding down (no chemical removers or burners 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, flaking and peeling paint and putty lime up to cement plaster by scabbing and sanding down (no chemical removers or burners 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, 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					
3.1.9.1.8	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		
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 bunnars 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	N/A	
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 bunnars 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 bunnars 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		

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		
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					

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	DATE	AMOUNT
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		
TOTAL OF BUILDING WORK						
4	SECTION C					
4.1	MAINTENANCE OF CCTV CAMERAS AND MONITORING SYSTEM					
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 inclusive connectors	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		

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
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	Install 4u cabinet	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		
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:			1		
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		

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	RATE	AMOUNT
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 reinsteate surface (for cable excavating) to original condition					
5.5.2	Paving	Main house	m ²	1		
5.5.3	Install 1.5 mm suffix cable to supply flood lights	Main house	m	1		
5.5.4	Replace 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		1	Item	
5.5.6	PVC Conduit fixed vertically to wall surfaces after painting of the walls			1		
5.5.7	Supply and install 20mm PVC pipe	Main house	m	1		
5.5.8	supply and 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	provision of certificate of compliance	Main house			Item	
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		

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	DATE	AMOUNT
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		
6.1.2.4	Cat 6 cable 200m	Main house	m	1		
6.1.3	AUTOMATED GATE					
6.1.3.1	Remove swing gates and intall sliding electronic gate set inclusive mounting, track and remote programing 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	
	TOTAL OF MECHANICAL INSTALLATIONS					
	TOTAL OF SECTIONS "A" TO "E"					

NO	DESCRIPTION	LOCATION	UNIT	QUANTITY	DATE	AMOUNT
7	LABOUR SCHEDULES					
7.1	ARTISAN		Hrs	1		
7.2	LABOUR		Hrs	1		
7.3	TRANSPORT/ TRAVELLING AT RS/ KM		Km	1		
7.4	TOTAL					
7.5	ADD 15% VAT					
7.6	GRAND TOTAL					