



**public works**

Department:  
Public Works  
**REPUBLIC OF SOUTH AFRICA**

**Reference number: ID-3203573**

**TERMS OF REFERENCE FOR 12 MONTHS SERVICING AND REPAIR OF  
ELECTRICAL INSTALLATIONS: PRETORIA BRYNTIRION ESTATE**

## 1 PURPOSE

To repair and maintain low and high voltage electrical installation to a good working condition in ministerial and VIP accommodation. Companies to bid for the maintenance of Buildings (offices), residential and commensal electrical installation inside the estate, 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

| ELECTRICAL INSTALLATION |   |  |
|-------------------------|---|--|
| 1.                      | Conduct conditional assessment and fault findings for faulty cable, circuit breakers kiosk, house/office wiring, lights, plugs, sockets, switches, street lights, lights fitting, lights covers, substation and transformers. |  |
| 2                       | Repair/maintain/replace faulty cable, circuit breakers kiosk, house/office wiring, lights, plugs, sockets, switches, street lights, lights fittings, lights covers, substation and transformers to a good working condition.  |  |
| 3                       | Ensure that all kiosk doors and substation are closed and locked in all times.  |  |
| 4                       | Ensure all electrical safety signs are in place in necessary areas.   |  |
| 5                       | Ensure that all labelling of distribution boards, substation, sub-DB and electrical kiosk are in place for a good working condition.  |  |

|   |  |  |
|---|--|--|
| 6 | Work must done as per electrical engineering code of practice and according to electrical council of south Africa's regulations. |  |
| 7 | Certificate of compliance must be provided for any replacement of electrical installation.                                       |  |
| 8 | Cleaning onsite inspection.  |  |
| 9 | Damages due to workmanship should made good to match the existing.   |  |

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

## 4 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 a CIDB contractor grading designation of **1EB OR 1EP** or higher 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 The contractor must attach certified copy of **three phase certificate of compliance**.
- 4.1.8 Contractor must have a qualified electrician to carry out electrical work.

- 4.1.9 Contractor must comply with health and safety regulations.
- 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 adhere to covid-19 regulations at all times.
- 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 of the service a close-out report with photographic images of work done on site should be handed 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 effected 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 MONTH SERVICING , MAINTENANCE AND REPAIRS TO ELECTRICAL  
INSTALLATION AT: PRETORIA AND JOHANNESBURG MINISTERIAL AND VIP  
HOUSES**

| <b>BILL OF QUANTITIES REPAIRS SCHEDULE ONE</b>  |  |         |     |      |       |
|---|--|---------|-----|------|-------|
| TENDERERS MUST COMPLETE<br>THE SCHEDULE OF QUANTITIES<br>IN BLACK INK.  |  |         |     |      |       |
| NB.The rates quoted for the repair of the listed items/components. The replacement of items which are beyond economical repair shall be carried out at these rates on the issue of an instruction from the Control / Chief Works Manager(NDPW) responsible for Day-to Day maintenace. Unit rates for items must allow for profit,traveling, courier charges ,plant, cutting,waste all expendible material such as oil ,grease,cleaing material,equipment,profit attendance overheads, compliance with the Occupational Health and Safety Act and Construction Regulations , access limitations to prison and any other costs associated with the successful execution of the required work.Rates are fully installed/fixed (no Ajustiment) until the end of the |  |         |     |      |       |
| ITEM  | DESCRIPTION  | UNIT    | QTY | RATE | TOTAL |
| 1   | <b>Electrical installation</b>   |         |     |      |       |
| 1   | supply complete all with required fittings (elbows, counters, etc) on the surface            | per/cum |     |      |       |
| a   | 20 mm dia elbow  | ea      |     |      |       |
| b   | 25 mm dia elbow  | 1       |     |      |       |
| c   | 20 mm male adaptor   | 1       |     |      |       |
| d   | 20 mm female adaptor   | 1       |     |      |       |
| e   | 25 mm male adaptor   | 1       |     |      |       |
| f   | 25 mm female adaptor   | 1       |     |      |       |
| g   | 20 mm coupling   | 1       |     |      |       |
| h   | 25 mm coupling   | 1       |     |      |       |
| i   | 4 x 2 weatherproof boxes   | 1       |     |      |       |
| j   | 4 x 4 weatherproof boxes   | 1       |     |      |       |
| k   | 25 mm PVC pipe   | p/m     |     |      |       |
| l   | 20 mm PVC pipe   | p/m     |     |      |       |
| 2.00  | supply wiring channels and trunking  | p/m     |     |      |       |
| a   | 16 x16mm <sup>2</sup>  | 1       |     |      |       |
| b   | 16 x40mm <sup>2</sup>  | 1       |     |      |       |
| c   | 25 x 40mm <sup>2</sup>   | 1       |     |      |       |
| 3.00  | supply stranded copper , pvc covered wire per metre : inclusive of all tools and consumables | p/m     |     |      |       |
| a   | 1,5mm  | 1       |     |      |       |
| b   | 2,5mm  | 1       |     |      |       |
| c   | 4mm  | 1       |     |      |       |
| d   | 6mm  | 1       |     |      |       |
| e   | 10mm   | 1       |     |      |       |
| f   | 16mm   | 1       |     |      |       |
| g   | 25mm   | 1       |     |      |       |
| 4.00  | supply silcon insulated wire per metre   | p/m     |     |      |       |
| a   | 2,5mm  | 1       |     |      |       |
| b   | 4,0mm  | 1       |     |      |       |

|      |   |          |  |  |  |
|------|---|----------|--|--|--|
|      |   |          |  |  |  |
| 5.00 | supply cables underground pvc including all terminations and glands | p/m      |  |  |  |
| a    | 2 core 1,5mm  | 1        |  |  |  |
| b    | 2 core 2,5mm  | 1        |  |  |  |
| c    | 2 core 4mm  | 1        |  |  |  |
| d    | 2 core 6mm  | 1        |  |  |  |
| e    | 2 core 10mm   | 1        |  |  |  |
| f    | 4 core 10mm   | 1        |  |  |  |
| g    | 4 core 16mm   | 1        |  |  |  |
| h    | 4 core 25mm   | 1        |  |  |  |
|      |   |          |  |  |  |
| 6.00 | supply surfix screened PVC cable round/flat shaped inclusive glands | p/m      |  |  |  |
| a    | 1,5mm 2 core  | 1        |  |  |  |
| b    | 2,5mm 2 core  | 1        |  |  |  |
| c    | 4mm 2 core  | 1        |  |  |  |
| d    | 1,5mm 3 core  | 1        |  |  |  |
| e    | 2,5mm 3 core  | 1        |  |  |  |
| f    | 4mm 3 core  | 1        |  |  |  |
| g    | 6mm 3 core  | 1        |  |  |  |
| h    | 10mm 2 core   | 1        |  |  |  |
| i    | 10mm 3 core   | 1        |  |  |  |
| j    | 16mm 3 core   | 1        |  |  |  |
| k    | 25mm 3 core   | 1        |  |  |  |
|      |   |          |  |  |  |
| 7.00 | supply cable joint of copper core, pvc including scotchcast         | p/m      |  |  |  |
| a    | 3 core 1,5mm  | 1        |  |  |  |
| b    | 3 core 2,5mm  | 1        |  |  |  |
| c    | 2 core 6mm  | 1        |  |  |  |
| d    | 2 core 10mm   | 1        |  |  |  |
| e    | 4 core 16mm   | 1        |  |  |  |
|      |   |          |  |  |  |
| 8.00 | Trenching 300mm wide and 500mm deep including backfilling           | 0.3x0,5m |  |  |  |
| a    | The trench is the earth   | 1        |  |  |  |
| b    | The trench is in soft rock  | 1        |  |  |  |
| c    | The trench is in hard rock  | 1        |  |  |  |
|      |   |          |  |  |  |
| 9.00 | supply lights switches and flush switch with cover plate            | ea       |  |  |  |
| a    | Daylight switch 16A   | 1        |  |  |  |
| b    | One lever one way   | 1        |  |  |  |
| c    | One lever two way   | 1        |  |  |  |
| d    | Intermediate  | 1        |  |  |  |
| e    | Two lever   | 1        |  |  |  |
| f    | three lever   | 1        |  |  |  |
| g    | 50 x 100mm blank cover  | 1        |  |  |  |
| h    | 100 x 100 blank cover   | 1        |  |  |  |
| i    | 16A waterlight switch   | 1        |  |  |  |
| j    | 16A two waterlight switch   | 1        |  |  |  |
| k    | four lever switch   | 1        |  |  |  |
| l    | 16A 100x100 electronic dimmer                                       | 1        |  |  |  |
| m    | 16A 100x50 electronic dimmer  | 1        |  |  |  |
|      |   |          |  |  |  |

|       |   |    |  |  |  |
|-------|---|----|--|--|--|
| 10.00 | supply 3-pin 16 A metal switch and socket combination complete with cover plate , type clipsal flush mounting | ea |  |  |  |
| a     | single outlet 100 x 50mm flush mounting   | 1  |  |  |  |
| b     | single outlet 100 x 100mm flush mounting  | 1  |  |  |  |
| c     | Dual outlet 100x100mm flush mountin   | 1  |  |  |  |
| d     | 100x100mm 1x16A + 1x 2 pin 5A   | 1  |  |  |  |
| e     | 100x100mm 1x16A + 1x 2 usb  | 1  |  |  |  |
| f     | 100x100mm blank   | 1  |  |  |  |
| g     | 100x50mm blank  | 1  |  |  |  |
| h     | single outlet 100x50 dedicated switched socket  | 1  |  |  |  |
| i     | single outlet 100x100 dedicated switched socket   | 1  |  |  |  |
| j     | Dual outlet 100x100mm dedicated switched sockets  | 1  |  |  |  |
| 11.00 | supply extension boxes  | ea |  |  |  |
| a     | 100x50mm  | 1  |  |  |  |
| b     | 100x100mm   | 1  |  |  |  |
| 12.00 | Supply Isolators  | ea |  |  |  |
| a     | 32A Double pole   | 1  |  |  |  |
| b     | 63A Double pole   | 1  |  |  |  |
| c     | 32 Triple pole  | 1  |  |  |  |
| d     | 63 Triple pole  | 1  |  |  |  |
| e     | 100A Triple pole  | 1  |  |  |  |
| 13.00 | Supply Circuit breakers   | ea |  |  |  |
| a     | 10-32A single pole  | 1  |  |  |  |
| b     | 40-63A single pole  | 1  |  |  |  |
| c     | 80-100A single pole   | 1  |  |  |  |
| d     | 10-32A Double pole  | 1  |  |  |  |
| e     | 10-63A Double pole  | 1  |  |  |  |
| f     | 80-100A Double pole   | 1  |  |  |  |
| g     | 10-32A Triple pole  | 1  |  |  |  |
| h     | 40-63A Triple pole  | 1  |  |  |  |
| i     | 40-100A Triple pole   | 1  |  |  |  |
| 14.00 | Supply Earth leakage circuit Breakers with overloaded protection  | ea |  |  |  |
| a     | 40-63A single pole  | 1  |  |  |  |
| b     | 40-63A Tripple pole   | 1  |  |  |  |
| c     | 40-63A Double pole  | 1  |  |  |  |
| 15.00 | Supply LIGHT FITTINGS   | ea |  |  |  |
| a     | 150mm dia glass   | 1  |  |  |  |
| b     | 180mm dia glass   | 1  |  |  |  |
| c     | 150mm dia polycarbonate   | 1  |  |  |  |
| d     | 180mm dia polycarbonate   | 1  |  |  |  |
| e     | Round bulkheads with 100w Es lamp equal   | 1  |  |  |  |



|       |  |    |  |  |  |
|-------|--|----|--|--|--|
| f     | round bulkheads with 2PL9 lamps equal                          | 1  |  |  |  |
| g     | 11w bulkhead fitting   | 1  |  |  |  |
| h     | 16w bulkhead fitting   | 1  |  |  |  |
| i     | 2 x Plow bulkhead  | 1  |  |  |  |
| j     | 4 lamp bathroom unit   | 1  |  |  |  |
|       |  |    |  |  |  |
| 15.00 | Supply Fluorescent fittings complete with tube commercial type | ea |  |  |  |
| a     | 1 200mm 2 tube switch start 2x                                 | 1  |  |  |  |
| b     | 1200mm 1 tube switch start 1x                                  | 1  |  |  |  |
| c     | 1 500mm 1 tube switch start 1x                                 | 1  |  |  |  |
| d     | 1 500mm 2 tube switch start 2x                                 | 1  |  |  |  |
| e     | 600mm 20w Diffuser-100 Lumens                                  | 1  |  |  |  |
|       |  |    |  |  |  |
| f     | 1200mm 40w Diffuser 3600 Lumens                                | 1  |  |  |  |
|       |  |    |  |  |  |
| g     | 1500mm 60w Diffuser -4500 Lumens                               | 1  |  |  |  |
| h     | 1 500mm 2 tube switch start 2x68w                              | 1  |  |  |  |
| i     | 336 Ci P ECG 1200 x 600 3 x 36w                                | 1  |  |  |  |
| j     | 336 Ci P ECG 1200 x 600 36w                                    | 1  |  |  |  |
| k     | 336 Ci P ECG 1200 x 600 36w                                    | 1  |  |  |  |
| l     | 336 Ci P ECG 1200 x 600 36w                                    | 1  |  |  |  |
|       |  |    |  |  |  |
| 16.00 | Supply Flood lights  | ea |  |  |  |
| a     | 2 x PL 20w   | 1  |  |  |  |
| b     | 70-100w MH   | 1  |  |  |  |
| c     | LED 100w IP  | 1  |  |  |  |
| d     | LED 200w IP  | 1  |  |  |  |
| e     | 150w MH  | 1  |  |  |  |
| f     | 250w MH  | 1  |  |  |  |
| g     | 400w MH  | 1  |  |  |  |
| h     | LED 55w-6000 lumens  | 1  |  |  |  |
| i     | LED 188w-2000 Lumens   | 1  |  |  |  |
| j     | LED 50w - 5150 Lumens  | 1  |  |  |  |
| k     | LED 100w-13000 Lumens  | 1  |  |  |  |
| l     | LED 150w-19500 Lumens  | 1  |  |  |  |
| m     | LED 200w 20 000 Lumens   | 1  |  |  |  |
| n     | LED 40w 800x600 panel  | 1  |  |  |  |
| o     | LED 85w 1200 x 600 panel                                       | 1  |  |  |  |
|       |  |    |  |  |  |
| 17.00 | Supply Area Lights complete with lamp                          | ea |  |  |  |
| a     | 125w MV  | 1  |  |  |  |
| b     | 70w HPS/E  | 1  |  |  |  |
|       |  |    |  |  |  |
| 18.00 | Supply Bulkheads - Acrylic diffusers                           | ea |  |  |  |
| a     | 26w CFL  | 1  |  |  |  |
| b     | 2PL 16   | 1  |  |  |  |
| c     | 2PL24  | 1  |  |  |  |
|       |  |    |  |  |  |
| 19.00 | Supply Poles   | ea |  |  |  |
| a     | 4m mounting height fibre glass                                 | 1  |  |  |  |
| b     | 6m mounting height fibre glass                                 | 1  |  |  |  |
| c     | 4m mounting height Galvanised                                  | 1  |  |  |  |
| d     | 6m mounting height Galvanised                                  | 1  |  |  |  |
|       |  |    |  |  |  |

|       |   |    |  |  |  |
|-------|---|----|--|--|--|
| 20.00 | Supply electronic contro gear for<br>Supply Fluorescent | ea |  |  |  |
| a     | 1 x 610mm ss  | 1  |  |  |  |
| b     | 2 x 20mm ss   | 1  |  |  |  |
| c     | 1 x 1530mm ss   | 1  |  |  |  |
| d     | 4-65w fluorescent starter                               | 1  |  |  |  |
| 21.00 | Supply lamps energy saver                               | ea |  |  |  |
| a     | PL-9w Osram   | 1  |  |  |  |
| b     | PL-18w Osram  | 1  |  |  |  |
| c     | PL-26w Osram  | 1  |  |  |  |
| d     | 2D -16W GE  | 1  |  |  |  |
| e     | 2D - 26w GE   | 1  |  |  |  |
| 22.00 | Supply mercury vapour lamps                             | ea |  |  |  |
| a     | 80w   | 1  |  |  |  |
| b     | 125w  | 1  |  |  |  |
| c     | 250w  | 1  |  |  |  |
| d     | 400w  | 1  |  |  |  |
| 23.00 | Supply lamp holders                                     | ea |  |  |  |
| a     | B1 - pin telescopic                                     | 1  |  |  |  |
| b     | single pin telescopic                                   | 1  |  |  |  |
| c     | single pin retalook                                     | 1  |  |  |  |
| d     | single pin retalook                                     | 1  |  |  |  |
| 24.00 | supply candle light LED 230v 5.5w -<br>10w 5000k        | ea |  |  |  |
| a     | E14   | 1  |  |  |  |
| b     | E 27  | 1  |  |  |  |
| 25.00 | Golf ball LED 230v 5,5 w- 10w 6000k                     | ea |  |  |  |
| a     | E14   | 1  |  |  |  |
| b     | E 27  | 1  |  |  |  |
| 26.00 | Transformer and drivers                                 | ea |  |  |  |
| a     | 3w LED driver   | 1  |  |  |  |
| b     | 30w LED power supply                                    | 1  |  |  |  |
| c     | 15w LED power supply                                    | 1  |  |  |  |
| e     | 100w LED power supply                                   | 1  |  |  |  |
| 27.00 | compact fluorescent lamp single core<br>230v            | ea |  |  |  |
| a     | G23:5w  | 1  |  |  |  |
| b     | G23:7w  | 1  |  |  |  |
| c     | G23:9w  | 1  |  |  |  |
| d     | G23:11w   | 1  |  |  |  |
| 28.00 | su[pply compact Fluorescent 2 pin<br>double core        | ea |  |  |  |
| a     | G24d1:10w-20w   | 1  |  |  |  |
| b     | G24d1:30w-50w   | 1  |  |  |  |
| c     | G24d1:60w-100w  | 1  |  |  |  |
| d     | G24d1:150w - 200w                                       | 1  |  |  |  |

|       |  |    |  |  |  |
|-------|--|----|--|--|--|
| 29.00 | Supply Compact fluorescent lamps : standard 230v | ea |  |  |  |
| a     | E27: 15 - 26w                                    | 1  |  |  |  |
| b     | B22: 15-26w                                      | 1  |  |  |  |
| c     | B22: 32w   | 1  |  |  |  |
| d     | E27: 32w   | 1  |  |  |  |
| e     | B22: 45w   | 1  |  |  |  |
| f     | E27: 45w   | 1  |  |  |  |
| 30.00 | Supply compact fluorescent lamps:mini 230v       | ea |  |  |  |
| a     | E14: 11w-mini                                    | 1  |  |  |  |
| b     | E14: 14w-mini                                    | 1  |  |  |  |
| c     | E27: 11w   | 1  |  |  |  |
| d     | E22: 11w   | 1  |  |  |  |
| e     | E27: 20w   | 1  |  |  |  |
| f     | E22: 20w   | 1  |  |  |  |
| 31.00 | Supply compact fluorescent lamps: 230v           | ea |  |  |  |
| a     | E40: 65W   | 1  |  |  |  |
| b     | E40: 85W   | 1  |  |  |  |
| c     | E40: 105W  | 1  |  |  |  |
| 32.00 | Supply PL ballasts for single 2 pin PL lamps     | ea |  |  |  |
| a     | 1x7w   | 1  |  |  |  |
| b     | 1x9w   | 1  |  |  |  |
| c     | 1x11w  | 1  |  |  |  |
| d     | 1x13w  | 1  |  |  |  |
| e     | 1x18w  | 1  |  |  |  |
| f     | 1x26w  | 1  |  |  |  |
| 33.00 | Supply GU10-PAR 38 230v                          | ea |  |  |  |
| a     | 28-35w   | 1  |  |  |  |
| b     | 40-50w   | 1  |  |  |  |
| c     | Hologen lamp for swimming pool                   | 1  |  |  |  |
| d     | GU 10 -LED                                       | 1  |  |  |  |
| e     | GU 10 230v 5.5w                                  | 1  |  |  |  |
| f     | GU 10 230v 5v dimmable                           | 1  |  |  |  |
| g     | GU 10-LED 230v                                   | 1  |  |  |  |
| 34.00 | Supply downlighters inclusive lamps holders      | ea |  |  |  |
| a     | straight   | 1  |  |  |  |
| b     | tilt   | 1  |  |  |  |
| c     | 380 eyeball tilt                                 | 1  |  |  |  |
| 35.00 | Supply Fluorescent tubes: rapid start            | ea |  |  |  |
| a     | T12 - G13 40w cool white 1200                    | 1  |  |  |  |
| b     | T12 - G13 65w cool white 1500                    | 1  |  |  |  |
| c     | T12 - G13 18w cool white 600                     | 1  |  |  |  |
| d     | T12 - G13 38w cool white 1200                    | 1  |  |  |  |
| e     | T12 - G13 58w cool white 1500                    | 1  |  |  |  |
| 36.00 | Supply high pressure sodium                      | ea |  |  |  |

|       |  |    |  |  |  |
|-------|--|----|--|--|--|
| a     | E27-70W  | 1  |  |  |  |
| b     | E40-150W   | 1  |  |  |  |
| c     | E40-260W   | 1  |  |  |  |
| d     | E40-400W   | 1  |  |  |  |
| 37.00 | High pressure sodium                                     | ea |  |  |  |
| a     | E40-100W   | 1  |  |  |  |
| b     | E40-150W   | 1  |  |  |  |
| c     | E40-250W   | 1  |  |  |  |
| d     | E40-100W   | 1  |  |  |  |
| e     | E40-1000W  | 1  |  |  |  |
| 38.00 | High pressure sodium /metal                              | ea |  |  |  |
|       | complete gear including<br>eletromagnatic ballasts       | 1  |  |  |  |
| a     | 70W-1AMP 120uf   | 1  |  |  |  |
| b     | 150W 1.8A 20 uf  | 1  |  |  |  |
|       | high pressure ballasts                                   | ea |  |  |  |
| a     | 70W 1A   | 1  |  |  |  |
| b     | 150W 1.8   | 1  |  |  |  |
| c     | 250w 3A  | 1  |  |  |  |
| d     | 400W 4.45 A  | 1  |  |  |  |
| e     | 600W 8.2A  | 1  |  |  |  |
| 39.00 | Metal Halide Ballasts                                    | ea |  |  |  |
| a     | 70-W 1A  | 1  |  |  |  |
| b     | 150W 1.8A  | 1  |  |  |  |
| c     | 200W 1.8A  | 1  |  |  |  |
| d     | 250W 2.15A   | 1  |  |  |  |
| e     | 400W 3.5A  | 1  |  |  |  |
| 40.00 | Mercury vapour Ballasts                                  | ea |  |  |  |
| a     | 80W-08A  | 1  |  |  |  |
| b     | 135W-1.15A   | 1  |  |  |  |
| c     | 250W- 2.13A  | 1  |  |  |  |
| d     | 400W-3.25A   | 1  |  |  |  |
| 41.00 | Oven lamps 300   | ea |  |  |  |
| a     | E27-40W round  | 1  |  |  |  |
| b     | E14-40W round  | 1  |  |  |  |
| c     | E14-15W round  | 1  |  |  |  |
| 42.0  | supply Lighting accessories                              | ea |  |  |  |
|       | LampHolders  | 1  |  |  |  |
| a     | CG ceramic 150mm   | 1  |  |  |  |
| b     | GZ10 ceramic 150mm                                       | 1  |  |  |  |
| c     | G4 Gy6,35 ceramic with metal pin<br>and silicon leads    | 1  |  |  |  |
| d     | GU 20 ceramic 2A 230v                                    | 1  |  |  |  |
| e     | GU10 ceramic 2A 230v                                     | 1  |  |  |  |
| f     | GU10 ceramic 2A 230v with bracket<br>and earth           | 1  |  |  |  |
| g     | wire wound transforms , class 1<br>output 12v input 230v | 1  |  |  |  |
| h     | Electrinoc transformer 10-60w load                       | 1  |  |  |  |
| i     | Electrinoc transformer 20-50w load                       | 1  |  |  |  |

|      |  |    |  |  |  |
|------|--|----|--|--|--|
| j    | Fluorescent starters F8-U single<br>220/240 4-80w                  | 1  |  |  |  |
| k    | Fluorescent starters F8-U single<br>220/240 4-20w                  | 1  |  |  |  |
| l    | Porcelain lampholders B40  | 1  |  |  |  |
| m    | Porcelain lampholders B22  | 1  |  |  |  |
| n    | Porcelain lampholders E27  | 1  |  |  |  |
| o    | Porcelain lampholders B22<br>unskirted                             | 1  |  |  |  |
| p    | Porcelain lampholders B27<br>Unskirted with bracket                | 1  |  |  |  |
| q    | starter holder   | 1  |  |  |  |
|      |  |    |  |  |  |
| 43.0 | Surge Arrestor   | ea |  |  |  |
| a    | 3 Phase 15KA 4 poles   | 1  |  |  |  |
| b    | 3 Phase 15KA 1 poles   | 1  |  |  |  |
|      |  |    |  |  |  |
| 44.0 | Extractor fans   | ea |  |  |  |
| a    | Full installed inclusive of all fittings                           | 1  |  |  |  |
| b    | Without lights   | 1  |  |  |  |
| c    | F43 15w 158mm x 158mm x(D)<br>80mm                                 | 1  |  |  |  |
| d    | F44 26w 172mm x 172mm x(D)<br>85mm                                 | 1  |  |  |  |
| e    | F45 25w 208mm x 208mm x(D)<br>80mm                                 | 1  |  |  |  |
| f    | F30 40W 350mm dia x 130mm  | 1  |  |  |  |
| g    | F33 20w with 22w T5 Cyclone tube<br>290mm dia x 130mm              | 1  |  |  |  |
|      |  |    |  |  |  |
| 45.0 | Miscellaneous contactors   | ea |  |  |  |
| a    | 30A single phase 220v  | 1  |  |  |  |
| b    | 80A single 220v  | 1  |  |  |  |
| c    | BF 25 12,5kw single phase 220v                                     | 1  |  |  |  |
| d    | 30A Three phase with 380v  | 1  |  |  |  |
| e    | 60A Three phase with 380v  | 1  |  |  |  |
| f    | BF 25 Three phase with 380v  | 1  |  |  |  |
|      |  |    |  |  |  |
| 46.0 | inspect and report   | ea |  |  |  |
|      |  |    |  |  |  |
| 47.0 | Hiring   | 1  |  |  |  |
| a    | H flame scaffolding per day  | 1  |  |  |  |
| b    | Cherry pick up to 15m in height                                    | 1  |  |  |  |
| c    | HV cable finding specialist  | 1  |  |  |  |
|      |  |    |  |  |  |
| 48.0 | supply distribution boards with<br>hinged door excluding equipment | ea |  |  |  |
| a    | 8 way surface mounted  | 1  |  |  |  |
| b    | 12 way surface mounted   | 1  |  |  |  |
| c    | 18 way surface mounted   | 1  |  |  |  |
| d    | 24 way surface mounted   | 1  |  |  |  |
| e    | 16 way surface mounted   | 1  |  |  |  |
| f    | 34 way surface mounted   | 1  |  |  |  |
| g    | 36 way   | 1  |  |  |  |
| h    | labeling of distribution boards and<br>circuits                    | 1  |  |  |  |
|      |  |    |  |  |  |

|   |   |     |  |  |  |
|---|---|-----|--|--|--|
| 49.0  | Private Meters  | ea  |  |  |  |
| a   | CBI digital Electricity meter fully installed in lockable enclosure   | 1   |  |  |  |
| b   | Monthly meter reading, recoding and submission to the department  | 1   |  |  |  |
| c   | CBI prepaid Electricity meter fully installed in lockable enclosure   | 1   |  |  |  |
| 50.0  | EATHING   |     |  |  |  |
| a   | Earthing and bonding of pipes   | 1   |  |  |  |
| b   | copper electroplated steel rod unthreaded 1,2 m   | 1   |  |  |  |
| c   | steel drill tip threaded and non-threaded   | 1   |  |  |  |
| d   | perforated copper bonding strip   | 1   |  |  |  |
| e   | Brass coupling for threaded copper plated earth rods  | 1   |  |  |  |
| f   | earth road cable clamp brass  | 1   |  |  |  |
| 51.0  | Supply PVC power skirting in standard colour white/grey straight run including cover  | p/m |  |  |  |
| a   | Buffduct type 90 bends  | 1   |  |  |  |
| b   | Buffduct type 90 ends   | 1   |  |  |  |
| c   | Buffduct type normal switch socket  | 1   |  |  |  |
| d   | Buffduct type switch socket   | 1   |  |  |  |
| e   | Buffduct type telephone socket  | 1   |  |  |  |
| 52.0  | Certificate of compliance   | ea  |  |  |  |
| a   | Testing of single phase installation and issue of full compliance certificate in accordance with OHS Act and SANS 10142 code of practise for electrical installations | 1   |  |  |  |
| b   | Testing of Three phase installation and issue of full compliance certificate in accordance with OHS Act and SANS 10142 code of practise for electrical installations  | 1   |  |  |  |
| <b>TOTAL REPAIR SCHEDULE ONE TO BE CARRIED OVER TO SUMMARY PAGE</b> |   |     |  |  |  |

| <b>3 BILL OF QUANTITIES :SCHEDULE 2 NON SCHEDULED MATERIALS AND LABOUR</b> |   |        |          |          |       |
|--|---|--------|----------|----------|-------|
| ITEM   | DESCRIPTION   | UNIT   | QTY      | RATE     | TOTAL |
|  | <b><u>Material</u></b>  |        |          |          |       |
|  | Mark-up on allowance for non-schedule material.   |        |          |          |       |
| 3.1  | <b>Proof of original purchase to be provided on non-schedule materials</b>  | ea     | %mark up | %mark up |       |
|  |   |        |          |          |       |
|  | <b><u>Labour</u></b>  |        |          |          |       |
| 3.2  | The rates for labour will be deemed to include all minimum labour rates, contribution to bonus, holiday pay,pension,medical funds etc. as well as for normal workings hours, overtime, and Public holidays. |        |          |          |       |
|  |   |        |          |          |       |
| 3.2.1.   | <b><u>Labour: Normal working hours</u></b>  |        |          |          |       |
| 3.2.1.1  | Skilled Artisan ( Accredited and licenced in accordance with SANS   | per/hr | EA       | R        |       |
| 3.2.1.2  | General Assistant   | per/hr | EA       | R        |       |
|  |   |        |          |          |       |
| 3.2.2  | <b><u>Labour: After Hours and Saturdays</u></b>   |        |          |          |       |
| 3.2.2.1  | Skilled Artisan ( Accredited and licenced in accordance with  | per/hr | X        |          |       |
| 3.2.2.2  | General Assistant   | per/hr | X        |          |       |
|  |   |        |          |          |       |
| 3.2.3  | <b><u>Labour: Overtime, Sundays and Public Holidays</u></b>   |        |          |          |       |
| 3.2.3.1  | Skilled Artisan ( Accredited and licenced in accordance with  | per/hr | X        |          |       |
| 3.2.3.2  | General Assistant   | per/hr | X        |          |       |
|  |   |        |          |          |       |
|  | <b>TOTAL SCHEDULE ONE AND TWO TO BE CARRIED OVER TO SUMMARY PAGE</b>  |        |          |          |       |
|  | <b>VAT</b>  |        |          |          |       |
|  | <b>TOTAL</b>  |        |          |          |       |