



**Request for Quotation (RFQ) for the provision of electrical construction services to the CSIR**

CSIR RFQ: 9079-20-02-2018

Date of issue	Wednesday, 07 February 2018
Compulsory Briefing session and site inspection	Tuesday, 13 February 2018 @ 11:00am to 12:00am
Venue	Building 46F CSIR, Lynnwood Road, Pretoria
Closing Date and Time	Tuesday, 20 February 2018, 16:30
Contact details	<a href="mailto:tender@csir.co.za">tender@csir.co.za</a> , 012 841 2400

## 1 INVITATION FOR QUOTATION

Quotations are hereby invited for the provision of electrical construction services to the CSIR.

## 2 QUOTATION REQUIREMENTS

The service provider is required to provide the CSIR with a quotation for the provision of electrical construction work with associated civil works. The appointed contractor will also be required to supply and deliver material for the construction of a new power supply point. (*Refer to annex A for detailed scope of work*).

### Mandatory requirements

Requirement	Comply	Not Comply
<u>COC</u> The bidder has an electrician with an Installation Electrician Licence and is registered with the Department of Labour		
<u>Letter of Good Standing</u> The bidder has a Valid letter of good standing from the Department of Labour		
<u>Client References</u> Three contactable references for similar work provided previously		

<u>Professional Registration</u> Proof of professional registration as a qualified electrician or electrical installer		
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Below is the Bill of Quantities and quotation requirements:

Bill of Quantities					
	Description	Unit	QTY	Rate	Amount
<b>1.</b>	<b>Contractor should make provision for civil work rehabilitation of site and removal of rabble form site</b>				
1.1	Lifting of existing paving	sum	1		
1.2	Digging of cable teach	m3	10		
1.3	Back filling with river sand	m3	5		
1.4	Back filling with soil	m3	7		
1.5	Repairing the paving	sum	1		
1.6	Danger tape	m	50		
1.7	Dismantling of existing electrical infrastructure to allow for the installation of double door and reinstallation of electrical infrastructure	Lot	1		
<b>2.</b>	<b>Electrical installation work should be done as per the scope of work provided and in accordance with the relevant SANS code of practice</b>				
2.1	Three phase 350A, 35kA adjustable circuit breaker	ea	1		
2.2	70mm2 of SWA Cu, cable four core	m	120		
2.3	70mm2 BCEW	m	60		
2.4	CT's 350/5, 3VA, 0.5	ea	3		
2.5	Three phase 350A, 8kA isolator	ea	1		
2.6	Three phase 100A, 5kA CB with E/L	ea	2		
2.7	Three phase 45A, 5kA CB	ea	1		
2.8	Three phase 30A, 5kA CB	ea	1		
2.9	Three phase 16A, 5kA CB	ea	1		
2.10	Single phase 25A, 5kA CB	ea	1		
2.11	Single phase 20A, 5kA CB	ea	1		
2.12	Single phase 63A, 5kA E/L	ea	1		
2.13	Single phase 30A, 5kA CB	ea	2		
2.14	Class 2 type surge protection devices for the low voltage three phase distribution board	ea	1		
2.15	Provide labelling for the electrical installation	sum	1		
<b>3.</b>	<b>Provision for load cabling work (the items below are re-measurable items) , the rate should provide for the termination of cables to all intended equipment as per the manufactures instruction</b>				
3.1	25mm2 of SWA Cu cable, four core	m	30		
3.2	10mm2 of SWA Cu cable, four core	m	30		
3.3	6mm2 suffix cable, four core with earth	m	30		
3.4	16mm2 BCEW	m	30		
3.5	2,5mm2 suffix cable, four core with earth	m	30		
3.6	4mm2 suffix cable, two core and earth	m	30		
3.7	2.5mm2 suffix cable, two core and earth	m	30		
3.8	Cable tray	m	50		

3.9	Cable tray accessories	Lot	1		
3.10	6mm2 BCEW	m	30		
3.11	4mm2 BECW	m	30		
4.	<b>Provide for the installation of Metering equipment, the rate should provide for all termination accessories</b>				
4.1	Metering CT with 0.2 accuracy at 3VA, CTR 350/5	ea	3		
4.2	2.5mm2, 6 core armoured cable	m	30		
	<b>Sub-Total</b>				
	<b>Vat @ 14%</b>				
	<b>Total</b>				

### 3 EVALUATION CRITERIA

- 3.1 Selection of suppliers will be based on the 80/20 preference point system.
- 3.2 Indicate valid B-BBEE status on quotation. No B-BBEE status will equal zero points.
- 3.3 Indicate CSD number (National Treasury Central Supplier Database) on quotation. If not registered yet on CSD, use [www.csd.gov.za](http://www.csd.gov.za) to register. - Please ensure that the tax status on CSD is updated and compliant.
- 3.4 No order will be issued or no contract will be signed without a valid CSD number.
- 3.5 Elimination criteria;

Suppliers will be disqualified under the following conditions:

- Late submission,
- Quotation submitted at wrong location or email address,
- If supplier is not a registered electrician or electrical installer registered with the department of labour
- If the supplier does not provide three contactable references for doing similar work,
- Non-submission of Valid letter of good standing from the Department of Labour (COID).
- Non-attendance of compulsory briefing session.

#### **4 PRICING QUOTATION**

- 4.1 Price needs to be provided in South African Rand (excl. VAT), with details on price elements that are subject to escalation and exchange rate fluctuations clearly indicated.
- 4.2 Price should include additional cost elements such as freight, insurance until acceptance, duty where applicable, etc.
- 4.3 Payment will be according to the CSIR Payment Terms and Conditions.

#### **5 OTHER TERMS AND CONDITIONS**

- 5.1 The supplier shall under no circumstances offer, promise or make any gift, payment, loan, reward, inducement, benefit or other advantage, which may be construed as being made to solicit any favour, to any CSIR employee or its representatives. Such an act shall constitute a material breach of the Agreement and the CSIR shall be entitled to terminate the Agreement forthwith, without prejudice to any of its rights.
- 5.2 A validity period of 90 days will apply to all quotations except where indicated differently on the quote.

**6 No goods and/or services should be delivered to the CSIR without an official CSIR Purchase order. CSIR purchase order number must be quoted on the invoice. Invoices without CSIR purchase order numbers will be returned to supplier.**

**7 Note: This is not a Purchase Order.**

**Annexure A: Detailed scope of work****Sub-station 46 Low voltage MDB:**

Install 350A 35kA new circuit breaker at sub-station 46 Low voltage distribution board and provide brackets where the circuit breaker will rest. Install 60m of 2 x 70mm<sup>2</sup> cable with 1x 70mm<sup>2</sup> BCEW from existing MDB 46 to new 350A at 400V, 8kA Low Voltage kiosk (to be installed inside the proposed Energy centre Lab in building 46). Contractor to provide all necessary accessories for the termination of the cable in the MDB including the tails to connect to the Bus Bar.

Install current transformers with associated cable work to feed to a local metering kiosk.

**140kVA 8kA weatherproof distribution board:**

Provide 350A, 400V rated at 8kA Low Voltage distribution board with the main isolator, and install the distribution board inside proposed new lab in building 46, the distribution board shall provide for the following Low Voltage switchgear:

**Three phase:**

- 1 x 350A, 8kA isolator
- 2 x 100A, 5kA Circuit breaker
- 1 x 45A, 5kA Circuit breaker
- 1 x 30A, 5kA Circuit breaker
- 1 x 16A, 5kA Circuit breaker
- LV Surge Arrestor type 2

**Single phase:**

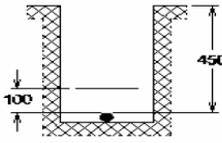
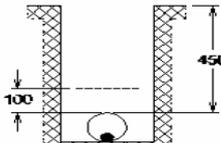
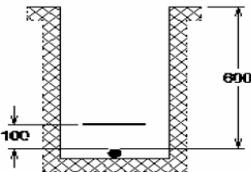
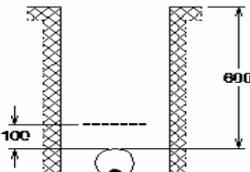
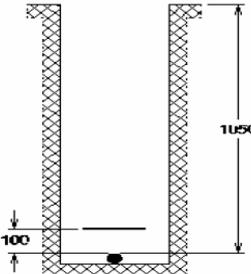
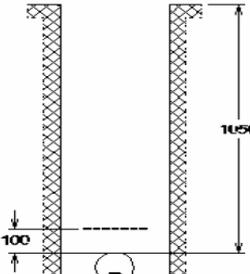
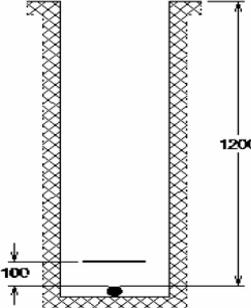
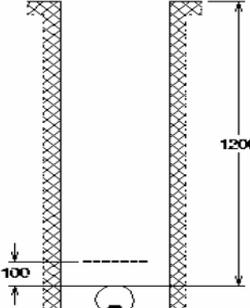
- 1 x 25A, 5kA Circuit breaker
- 1 x 63A, 5kA Earth Leakage
- 1 x 20, 5kA Circuit breaker
- 2 x 30, 5kA Circuit breaker

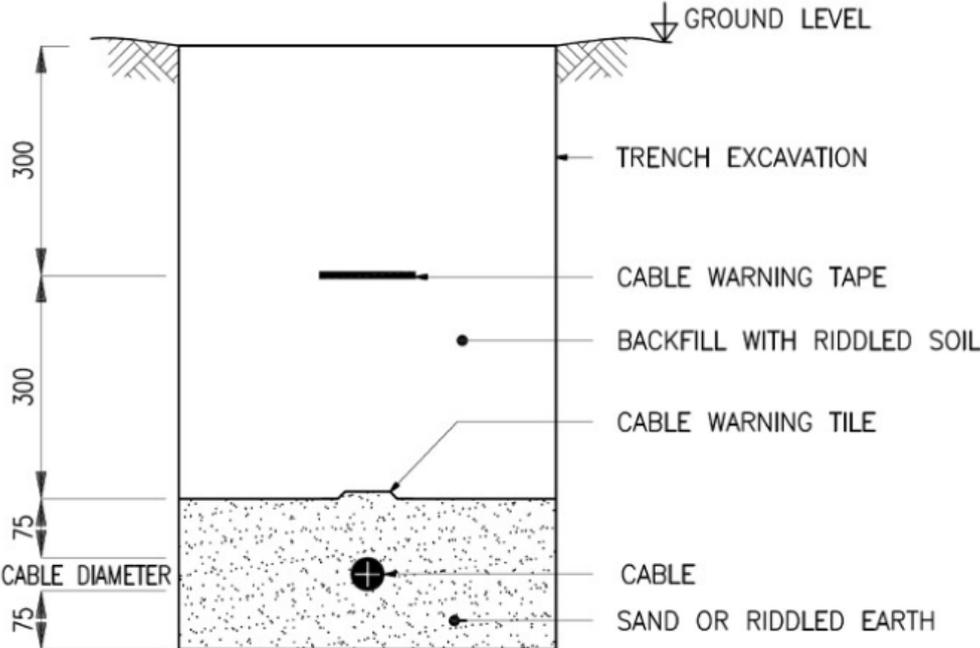
The Low Voltage Distribution Board shall have a separate section for the isolator, the isolator shall be labelled as **Mains** and bus bars, the load section shall be separate.

All load cable work to be done in accordance with the specific engineering drawings.

**NOTE:**

- All work to be done in accordance with the Standard By-laws and SANS code practice.
- Cable Tray to be bonded
- Allow for bus-bar tails

	<b>ARRANGEMENT OF LV SERVICES AND MAIN CABLES IN TRANCHES</b>	<b>Annexure B</b>
	<b>Laid Direct</b>	<b>Ducted</b>
<b>Footway</b>		
<b>Carriageway</b>		
<b>Normal Arable Land</b>		
<b>Arable Land Subject to deep ploughing</b>		
	Tile tape ——— Tile tape (Optional) - - - - -	



CABLE LAYING DETAIL  
DIRECT BURIED CABLES  
415V CABLES

**ELECTRICAL DRAWING FOR THE PROPOSED NEW DISTRIBUTION BOARD**

