

INTER - TECH

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Earth Resistance Measurement Report (with Marconite)

Report No: **IT/178**

Date: **26/08/2015**

Name & address of the Customer : **Zesco Limited,
Lusaka, Zambia**

Name of the contact person/s : **Mr Francis Namakanda** Dept: **Project Manager** Tel: **+260 955 826 074
+260 976 698 378**

Electrode/s Installation undertaken by : **M/s Vijai Electricals Limited,
Hyderabad, India** Installation Completed on : **Pit 2 - 27/04/15 Pit 1 - 02/07/15,
Pit 3 & 4 - 13/07/15**

Name of the contact person/s : **Mr . K. Ashok** Dept: **Project Commercial - MFEZ** Tel: **+260 953423880**

Specifications of the Earth Electrode/s :	Marconite Conductive Concrete Earth Electrodes with Copper Conductor - Dia 16 mm.				
	Type of Electrode/s	Sr. Nos.	Length	Dia	Qty.
	Standard	1,3 & 4	9 m	100 mm	3 nos.
2		9 m	150 mm	1 no	

Use/s of Electrode/s : **Marconite conductive concrete earth electrodes were installed in the yard of 330/132/33kV sub-station at Lusaka South (MFEZ), Lusaka, Zambia to measure their earth resistance performance in rocky soil to connect those to earth mat.**

Measurement Carried out by : **Mr K K Gupta, Inter-Tech, India** Date : **25/08/2015**

Method of Measurement : **Fall of Potential Method** Standard Applicable : **CI 36 of IS 3043**

Testing Instrument Used : **Digital Earth Tester** Make: **MEGGER** Model : **DET4TD2**

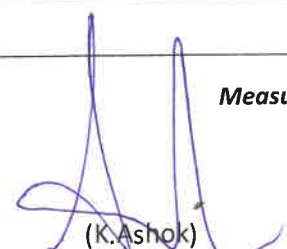
Sr. no of Testing Instrument : **101139510** Calibration ref: **No. CPIPL/15-16/332 Valid upto18/08/16
Copy of certificate attached.**


Earth Resistance Measurement Results :	Electrode no	Value Measured - Ω	Maximum Acceptable Value - Ω	Electrode no	Value Measured - Ω	Maximum Acceptable Value - Ω
	1	157.5 Ω	-	3	128.3 Ω	-
	2	104.7 Ω	-	4	139.5 Ω	-

Earth Resistance Measurement Results : **All the four earth electrodes in interconnected position were also measured from each pit.** Pit 1) **53.5 Ω** Pit 3) **53.4 Ω**
Pit 2) **54.1 Ω** Pit 4) **54.3 Ω**
Soil Found: **Rocky Soil**

Measurement/s witnessed by :


(K K Gupta)
Inter-Tech
Zesco Lusaka South (MFEZ) Site
Zambia


(K. Ashok)
Project Commercial - MFEZ
Vijai Electricals Ltd.,
Zesco Lusaka South (MFEZ) Site, Zambia


(Hope Chanda)
Site Manager - MFEZ
ZESCO
Zesco Lusaka South (MFEZ) Site, Zambia