



पानीपत रिफाइनरी (रिफाइनरी प्रभाग)  
Panipat Refinery (Refineries Division)

इंडियन ऑयल कॉर्पोरेशन लिमिटेड  
पानीपत रिफाइनरी, पानीपत - 132140

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Date: 24.01.2013

To

M/s Inter-Tech  
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Near Modi Mills  
Okhla Phase-III  
New Delhi 11020

**Sub: Performance report of earth Electrodes encased in Marconite-Conductive concrete**

The earth electrode of following specifications was installed at PRE Units new Process Operator cabin, Panipat Refinery , Panipat -132140 on 5<sup>th</sup> December 2012 for our trials and evaluation:

|                                   |                                  |
|-----------------------------------|----------------------------------|
| Conductor material                | : Copper                         |
| Conductor size                    | : Dia 16mm, Length 3060 mm       |
| Earth enhancing material          | : Marconite -Conductive concrete |
| Size of embedding of Cu Conductor | : Diameter 100mm , Depth 3000mm  |

This earth electrode was measured for earth resistance on 24<sup>th</sup> of January 2013 by using fall of potential method.

Measurement result: **1.84 Ohms**

The above result is satisfactory for the application concerned.

Your's truly

S M Naik

Sr.Maintenance Manager(Electrical)

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