

भारत सरकार Government of India सूक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय Ministry of Micro, Small & Medium Enterprises परीक्षण केन्द्र एमएसएमर्ड MSME TESTING CENTRE चेन्नै - 600 032. CHENNAI - 600 032.

Test Report	tfor
-------------	------

**Copper Coated Steel Rod** 

of

19004576 R1 ULR No. No:TC513519000004576P

30.09.2019 Date 1

Page

4

## **TEST REPORT**

Name of the Customer	Infinite Electrotech Pvt Ltd
*	No. 100, Kuthambakkam Road
Address	Mevallurkuppam, Chettipedu Chennai - 602 105
Customer Reference	Letter No.Nil Dt:13.09.2019
Job SI. No:	19004576 R1 ULR No:TC513519000004576P
Description of Samples :	Copper Coated Steel Rod
Identifications	
Date of Receipt:	18/09/2019
Sampling Procedure:	Sample submitted by Customer

Graph / Figure, if any . : Not Applicable

Note:

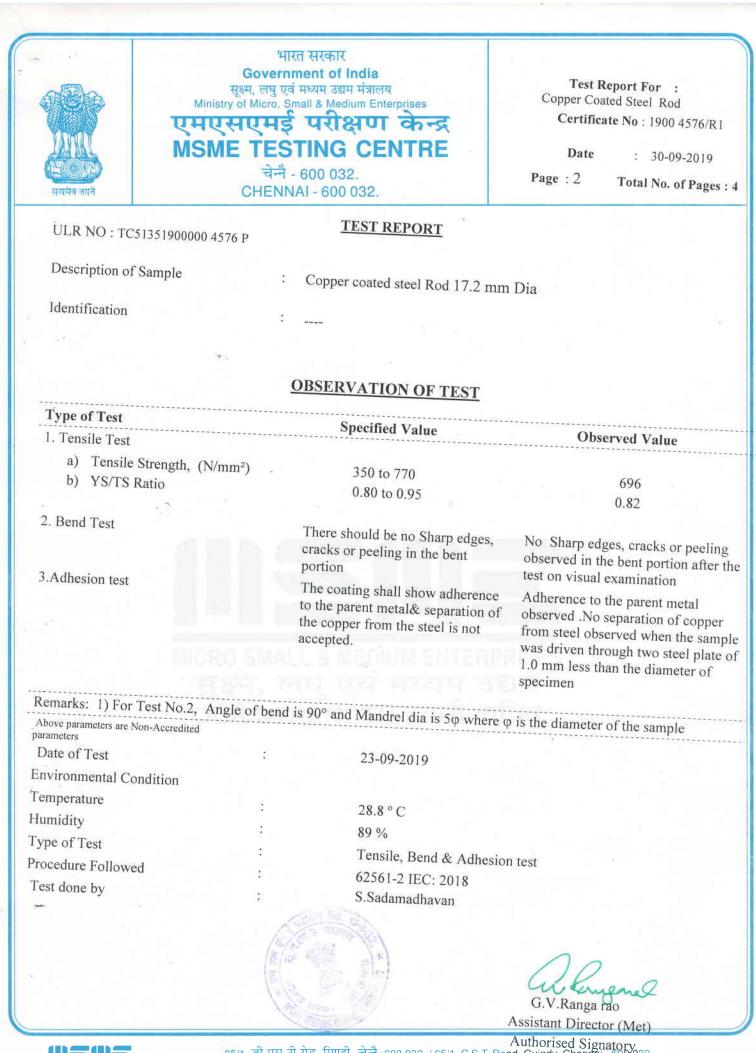
This Report pertains to the particular sample submitted for the test This Report shall not be reproduced, except in full without the written permission of Director, MSME TC, Chennai.

This Report Supercedes our earlier Report No.19004576 Dt:24.09.2019



6

Officer Incharge **Customer Cell** For Director





-	भारत सरकार Government of India सुक्ष्म, लघु एवं मध्यम उद्यम मंत्रालय	Test report for: Copper Coated Steel Rod
सन्यमेव जयते	सूस, लबु एव मध्यम उधम मतालप Ministry of Micro, Small & Medium Enterprises एमएसएमई परीक्षण केन्द्र MSME TESTING CENTRE चेन्नै - 600 032. CHENNAI - 600 032.	Report No : 19004576R1 Date : 30.09.2019 Page : 03 of 04

## ULR NO. TC5135190004576P

Description of Sample / Identification : Copper Coated Steel Rod 17.2mm Dia meter

## <u>TEST RESULTS</u>

		Observe	d Value	
SI. No	Test conducted			
01	*Coating thickness (Average) in microns	1. 268 2. 262,	3. 274	
01	-Coaling Interness (Horage)	Requirement	Observation	
02	*Cyclic Test conducted thrice as Three samples were subjected Spray of 5% Neutral Sodium Chloride solution for 2hours followed by humidity test for 24 hour	Shall show No sign of Corrosion	No sign of corrosion	

Note: \* Non Accredited Parameters.

Date of Test	:	25/09/2019 to 30/09/2019	
Environmental Condition Place of Testing		At Laboratory	
Temperature, ° C	:	Ambient	
Humidity (RH), %		Ambient.	
Procedure Followed		As Per IEC 62561:1-2017	
Test done by		G.V. Ramamurthy	
Checked by	2 21 2	Pritendu Mal	
			0 1

Tested By

(G.V. RAMAMURTHY) SLA (CHEM)

Riterde Ma

(PRITENDU MAL) Assistant Director(Chem) Authorised Signatory





**Description of Sample** 

: Copper Coated steel Rod (17.2mm dia x1200mm) Samples 1, 2 & 3 each of 1200 mm length for test.

## Test Results

SI. N.	Name of the Test	Specificational Requirement	Actual Results
1.*	Electrical Resistivity test As per Cl. 5.2.5 & Cl. 4.4.1 Electrical Resistance before and after salt mist test	A sample length of Copper Coated steel Rod approximately 1.2 m long, should be used for the test. The resistance measurement should be taken over a 1 m ( $\pm$ 1 mm) distance, using micro ohm meter and the reading corrected to 20 °C, using appropriate correction factors. Maximum Electrical resistivity should be 0.25 $\mu\Omega$ m for Copper coated steel as per Table 2 of IEC 62561-2:2018;	Electrical Resistance before and after salt mist mist test Sample each of 1000mm 1,2 & 3 Electrical resistivity checked using Current source & voltage drop method with two independent multimeters on each sample and the reading corrected to 20 °C, using appropriate correction factors and test results are tabulated in table 1

\* In calculation of Electrical resistivity, area of rod calculated by measuring average diameter.

TABLE 1

Sample no.	1	2	3
Electrical Resistivity before salt mist test in $\mu\Omega$ m	0.122	0.099	0.099
Electrical Resistivity after salt mist test $\mu\Omega$ m	0.123	0.100	0.100

All are non-accredited parameters.

TEST PROCEDURE

DATE OF TEST ENVIRONMENTAL CONDITION PLACE OF TESTING TEST DONE BY CHECKED BY

D. Ceofalakniko

D.Gopalakrishnan Skilled Worker (Elect.) Tested : IEC 62561-1:2017&IEC 62561-2:2018( As per customer requirement) : 25.09.2019 & 30.09.2019

- : Ambient
- : at Laboratory
- D Canal L 1
- : D.Gopalakrishnan
- : S.Anandh



(S.Anandh) Skilled Worker (Elect) Authorised Signatory