



राष्ट्रीय
धातुकर्म
प्रयोगशाला

(वैज्ञानिक तथा औद्योगिक अनुसंधान केंद्र)
जमशेदपुर - 831 007, भारत



National
Metallurgical
Laboratory

(Council of Scientific & Industrial Research)
JAMSHEDPUR - 831 007, INDIA



डा० देवेन्द देव नारायण सिंह

Dr. D. D. N. SINGH

वरिष्ठ वैज्ञानिक
SR.SCIENTIST

No.NML/ACC/DDNS/SRMB-06

Date: 30.05.2006

To,
M/S S.R.M.B. Udyog Ltd, Kolkata

Dear Sir,

In reference to your letter of 10th March 2006, we have conducted the corrosion resistance tests of different types of rebars sent to us. The results are summarized as follows:

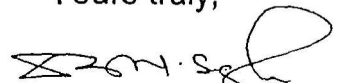
Types of tests	Type of rebars			
	Zinga	HDG	FBEC	CRS
(a) Corrosion rate, μmpy , (electrochemical polarization resistance technique), ASTM G - 59 (91)	19.6	38.6	34.5	99.6
(b) Pitting resistance tendency, ASTM G - 61(86)				
E_{pit} , mV (SCE)	- 315	- 750	- 450	- 400
Loop area	x	3.5x	2.5x	5x

Test electrolyte: Simulated concrete pore solution + 3.5 % NaCl

Findings: Amongst the tested bars, Zinga coated rebars exhibit superior corrosion resistance than the others.

Thanking you,

Yours truly,


(D. D. N. Singh)