

राष्ट्रीय धातुकर्म प्रयोगशाला

CERTO EN ISO 9001

National Metallurgical Laboratory



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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			
(a) Corrosion rate, µmpy,	Zinga	HDG	FBEC	CRS
(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,

X2671.50

(D. D. N. Singh)