

**CIVIL-AID**

Ref: Civil-Aid:MT:AG/1/924(b)
 Test order dated: 11.1.2013

Date : 21.1.2013

M/s. Ripple Construction Products Pvt. Ltd.
 EWS 4, BK Uda SR Nagar
 HYDERABAD 500 038

TEST REPORT ON RI BARS AND THREADED ANCHOR SAMPLES

Source of sample : Sample supplied by the customer
 Reference : Letter dated 11.1.2013
 Period of test : 11.1.2013 to 17.1.2013
 Test Procedure : Tests conducted by using V Fix chemical anchor in M25 grade of concrete fixing Anchor bolts and Reinforcement bars of various diameter as detailed in test reports. We have also conducted tests till failure load and the following data outlines.

Rebars with V Fix

Sl. No	Bar dia (mm)	Hole Dia (mm)	Hole depth (mm)	Max. Failure Load (kN)	Recommended load as per customer's specification (kN)	Observation	Factor of safety against recommended load
1	8	12	80	32.94	8.6	Steel bar cut	3.8
2	10	14	90	53.04	13.5	Steel bar cut	3.9
3	12	16	110	48.04	19.7	Concrete failure	2.4
4	16	20	125	82.14	28.0	Concrete failure	2.9

Anchor Bolt with V Fix

Sl. No	Bar dia (mm)	Hole Dia (mm)	Hole depth (mm)	Max. Failure Load (kN)	Recommended load as per customer's specification (kN)	Observation	Factor of safety against recommended load
1	8	10	80	22.32	8.1	Anchor bolt cut	2.8
2	10	12	90	36.58	11.2	Anchor bolt cut	3.4
3	12	14	110	42.78	16.5	Bond failure	2.6
4	16	18	125	60.58	24.9	Concrete failure	2.4

Test Witnessed by : 1. Mr. Bharath Kumar, Regional Manager of
 M/s. Ripple Construction Products Pvt. Ltd. and
 2. Mr. Nunna Rao, Managing Director of
 M/s. Ripple Construction Products Pvt. Ltd.

* As furnished by the customer.

Note: 1. The results relate only to the items tested.
 2. Report shall not be reproduced except in full, without the written approval of the lab.
 3. Any correction invalidates this report.

for **CIVIL AID TECHNOCLINIC PVT. LTD.**

Radhakrishna
 21/1/13

RADHAKRISHNA
 Sr. Technical Officer



Civil-Aid Technoclinic Pvt. Ltd.
 1030, 13th Cross
 Banashankari 2nd Stage
 Bangalore - 560 070. India

Tel. : +91 80 39950500, 26716831
 Fax : +91 80 26716833
 ctccivilaidinfo.in@in.bureauveritas.com
 www.civilaid.com

Chennai (Off/Lab) Tel.: +91 44 24847345
 Hyderabad (Off) Tel.: +91 40 66824582
 Hyderabad (Lab) Tel.: +91 40 64584582
 Mangalore (Off/Lab) Tel.: +91 824 2213571