



STEDRANT TECHNOCLINIC PVT. LTD.

(Construction Materials Testing Laboratory)

Office / Lab : Shed No. F-3/A, Street No. 10, IDA, Nacharam, Hyderabad - 500076

Mob : +91 9000085790, +91 9000095790, +91 9908875790, +91 9908065790

E-mail : labhyd@stedrant.com www.stedrant.com

CIN: U74999KA2017PTC100477 GST No.: 36AAYCS1231L1ZV

Report on	:	Pull off test on identified Gypsum plastered Surface (Gypsum plaster by GSG GYPSURE, Material Code: 10009561) with Transparent BONDIT of walls of residential flats Under construction at "My Home Tarkshya" at Kokapet, Hyderabad by My Home Infrastructures Pvt Ltd
Report for	:	M/s. Peketi Ventures Pvt Ltd. Ram Villa, 18/2RT, Street Number 5, Prakash Nagar, Begumpet, Hyderabad, Telangana-500016
Reference	:	Verbal Conversation on 13 th November 2021
Date of Test	:	18 th & 19 th November 2021
Test carried out under the guidance of	:	Sri. Sunil V Sonnad Senior Director (NDT- Restoration & Rehabilitation) M/s STEDRANT Technoclinic Pvt. Ltd. Bangalore
Test carried out by	:	Mr. Bhargav Vikas PVS Engineer Mr. Naresh P Testing Assistant M/s STEDRANT Technoclinic Pvt. Ltd. Hyderabad
Test carried out in the presence of	:	Mr. S. Kullai Reddy Sr.QA/QC Engineer M/s. My Home Infrastructures Pvt Ltd. Hyderabad. Mr. Surfraj Khan Construction Manager Mr. Raj Kumar Engineer M/S. Peketi Ventures Pvt Ltd.
Date of submission of report	:	23 rd November 2021
No. of Pages	:	06



STEDRANT TECHNOCLINIC PVT. LTD.

(Construction Materials Testing Laboratory)

Office / Lab : Shed No. F-3/A, Street No. 10, IDA, Nacharam, Hyderabad - 500076

Mob : +91 9000085790, +91 9000095790, +91 9908875790, +91 9908065790

E-mail : labhyd@stedrant.com www.stedrant.com

CIN: U74999KA2017PTC100477 GST No.: 36AAYCS1231L1ZV

C O N T E N T S

- A. INTRODUCTION**
- B. DETAILS OF TEST**
- C. CONCLUSIONS & RESULTS**
- D. REQUIREMENTS**

APPENDIX

TABLE

A. INTRODUCTION

The construction of Residential flats at “**My Home Tarkshya**” at Kokapet, Hyderabad by **My Home Infrastructures Pvt Ltd.** is under progress.

As a part of quality check, it is proposed to carry out Dyna pull-off test on gypsum plastered surface (**Gypsum plaster by GSG GYPSURE, Material Code:10009561**) on Concrete walls at identified locations of **Tower-4, Flat No.904, Hall, Tower-3, Flat No.2204 Kitchen room and Tower-1, flat no.2301, Dining room** to check its bond strength. Hence, the concerned authorities at site desired to verify the bond strength / adhesion strength of gypsum plastered surface on walls of identified **Tower-4, Flat No.904, Hall, Tower-3, Flat No.2204 Kitchen room and Tower-1, flat no.2301, Dining room**. In view of this, a reference was made to **M/s STEDRANT Technoclinic Pvt. Ltd.**, by **M/s Peketi Ventures Pvt Ltd** to carry out the appropriate test to ascertain the bond strength of gypsum plaster. In response to this, Dyna Pull Off test was carried out by us at the identified regions of wall in order to assess the bond/adhesion strength of plaster. This report, in brief, summarizes the outcome of the test carried out and conclusion there on.

B. DETAILS OF TEST

Dyna Pull-Off tester

In order to verify/assess the bond /adhesion strength of gypsum plaster, Pull Off test was carried out using **Dyna Pull-Off tester** from **M/s. Proceq, Switzerland**.

The identified region of gypsum plaster was separated from the surrounding area using core cutting equipment, to achieve defined circular surface. The test disc/dolly of the pull off test was fixed / glued to the plastering using quick setting adhesive and the same was pulled off after completion of setting time. The failure load was recorded for further interpretation. The test has been carried out at **three** identified gypsum plastered locations of wall.

The results are furnished in *Table*.

C. CONCLUSIONS AND RESULTS OF DYNA PULL-OFF TEST:

The bond/adhesion strength of gypsum plaster (Gypsum plaster by GSG GYPSURE, Material Code:10009561) on Concrete walls in the range of **0.19 N/mm²** and **0.20 N/mm²** to **0.58 N/mm²** from **three test locations** (the minimum permissible tensile strength of **0.14 N/mm²** as per IS 1905, cl.5.4.2)

For STEDRANT Technoclinic Pvt. Ltd.,

PRANEETH KUMAR P.

Quality Manager

Hyderabad

TABLE

RESULTS OF PULL OFF TEST

Project : Pull off test on identified gypsum plastered surface of walls at "My Home Tarkshya" at Kokapet, Hyderabad by My Home Infrastructures Pvt Ltd.

Members Tested : Identified regions of wall gypsum plasters (Gypsum plaster by GSG GYPSURE, Material Code: 10009561) Tower-4, Flat No.904, Hall, Tower-3, Flat No.2204 Kitchen room and Tower-1, flat no.2301, Dining room.

Test Instrument : Dyna Z Pull Off Tester

Make : M/s. Proceq, Switzerland

Type of adhesive used for test dolly : Araldite - Klear (Superfast)

Technical reference : ASTM-D 4541 - 85

SL. No.	Building/ Floor / Tested member*	Thickness of gypsum plaster (mm)	Maximum Force Applied (kN)	Adhesion/ Bond Strength (N/mm ²)	Remarks
Gypsum plaster by GSG GYPSURE, Material Code:10009561					
1.	Sample - 1 Tower-4, Flat no: 904, Hall	08	0.705	0.36	Failure in b/w gypsum plaster
2.	Sample - 2 Tower-3, Flat No. 2204 Kitchen room	10	0.470	0.24	Failure b/w Concrete wall & gypsum plaster
3.	Sample - 3 Tower-1, Flat No. 2301 Dining room	12	0.720	0.37	Failure in b/w gypsum plaster

*As furnished by the customer.
