



भारतीय प्रौद्योगिकी संस्थान रूड़की
INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

सिविल अभियांत्रिकी विभाग
DEPARTMENT OF CIVIL ENGINEERING

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Date: Feb. 21, 2023

No: - IITR/CED/SM/UNITECH

To Whomsoever it may Concern

Subject: - Testing of piles for Towers C1, C2, C3, D1 & D2 at the site Unitech's Vistas Project Sector-70 Gurugram

The status of Work Order and Tests is as under (Within the scope of IIT Roorkee):

1.Pile Integrity Tests:

W.O. No. ky/Unitech/Gen/2022/39 Dt. 10.06.2022

Agency: IIT Roorkee- In house

Pile Integrity tests (or as ASTM D5882 refers to it as low strain impact integrity test), is a common non-destructive test method for evaluation of pile integrity and/or pile length. The tests were conducted on 203 Nos. randomly chosen Piles.

The piles are more or less properly built.

2.Routine tests.

W.o. No. ky/Unitech/Gurgaon/2022/41 Dt. 10.06.2022

Agency: Kunika Geotechnical Services Pvt. Ltd. (Under supervision of IIT Roorkee)

Routine tests are carried out for 1.5% of the total no. of piles. Three types of tests were conducted i.e., compression load test, Lateral load test & Pull out load test

Accordingly work order was issued for 15 No. tests on different piles (5 No. tests of each category)

Conclusions as per Report:

- The safe design load capacity i.e., 80.0 MT is found safe.
- The safe lateral load capacity i.e., 8.0 MT is found safe.
- The safe pullout load capacity i.e., 30.00 MT is found safe.

From the pursual of all test results it is concluded that the piles are conforming to the designs.

Sd./
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