



# NAGADI CONSULTANTS PRIVATE LIMITED

Delhi : 106/1D, Kishangarh, Vasant Kunj, New Delhi - 110 070. Tel: 011-26891980, 26897403(F) e-mail: delhi@nagadi.co.in  
Bangalore : 1014, 1st Main, 4th Block, Rajajinagar, Bangalore - 560 010. Tel: 080-23156076, 23303007(F) e-mail: bangalore@nagadi.co.in  
Chennai : 61-C, East Coast Road, Thiruvanniyur, Chennai - 600 041. Tel: 044-24487870, 24488957(F) e-mail: chennai@nagadi.co.in  
Secunderabad : 60, Manovikas Nagar, Opp. NIMH, Secunderabad - 500 009. Tel: 040-27754446, 27751194(F) e-mail: secunderabad@nagadi.co.in  
**Consultant Emeritus & Chairman: Dr.V.V.S.Rao** Website : nagadi.co.in

NCD/G/SVIPL/053/2022

23<sup>rd</sup> January 2023

Mr. Anand Naygaonkar  
Kautilya Finance  
Mob. +91 - 9999048350

Sub : Clarifications for additional requirements for Raft foundations for 12mm settlement and Pile foundation

Ref: Our report no. G(D)4505 (2022) for Geotechnical Investigation for the Proposed Proposed Residential Complex "Shree Vardhman Victoria" at Sector - 70, Gurugram

Dear Sir,

This is in reference to the above mentioned subject and your email dated 19<sup>th</sup> January 2023 regarding clarifications for additional requirements for raft foundations and pile foundations, Please find hereunder the same.

As given to understand from the given foundations drawing that there is some extended part of Tower G-2 (i.e. area ranges from Y1 to middle of Y3-Y4 and X1 to X13) where there is existing piled raft foundation. The details as shown in the above drawing show that the proposed raft foundation will be partially resting on and integrated to the existing pile raft.

Please note that an allowable settlement of 75mm have been considered for recommended raft foundations in our report whereas the settlement of the existing piled raft foundation will not exceed 25mm settlement.

Considering the above, the integration of the existing pile raft foundation with the proposed new raft foundation is not acceptable as the large difference in settlements of the two different types of foundations will lead to structural distress in the proposed raft foundation which may manifest in the form of cracks.

Further, the integration of the superstructures resting on these two different types of foundations will also not be acceptable for similar reasons.

We hope you find the above to your requirements. Please do contact us for any further clarifications.

Thanking you  
Yours sincerely

Mandeep Singh  
Sr. Geotech. Engineer