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## **Piled Raft Foundation International Journal**

A piled raft foundation is economical as compared to the pile foundation because piles in the case do not have to penetrate to the full depth of clay layer but it can be terminated at higher elevation. Piled raft foundations have been used successfully in Germany and other

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place where thick clay deposits exist over large depth.

## II.LITERATURE REVIEW

### **PILED- RAFT FOUNDATION FOR HIGH RISE INDUSTRIAL STRUCTURE**

A piled raft foundation comprises both piles and a pile cap that itself transmits load directly to the ground. The aim of such a foundation is to reduce

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the number of piles compared with a more conventional piled foundation where the bearing effect of the pile cap, or raft, is ignored. This paper describes a 'hybrid' approach for the analysis of piled raft foundations, based on a load transfer treatment of individual piles, together with elastic interaction between different piles and

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## **An approximate analysis procedure for piled raft foundations**

A three-dimensional finite-element model of a piled raft foundation was developed to simulate the case of a piled raft foundation. The model accounts for pile-to-pile, raft-to-pile, pile-to-soil, and raft-to-soil interactions. ...

International Journal of  
Geomechanics. Vol. 17,  
*Page 8/28*



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Foundation  
Issue 2 (February  
2017)

## Journal Of Civil **3D Numerical Model for Piled Raft Foundation ...**

Piled raft foundation is a foundation in which the total load coming from the super structure is transferred to the soil by a load  
International Journal for  
Numerical Methods in  
Engineering 23:  
959-978 Title: Analysis  
of Piled Raft

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Foundation using  
ANSYS Author: ANAND

## **Piled Raft Foundation International Journal Of Civil**

Performance of piled  
raft foundations  
subjected to dynamic  
loading. International  
Journal of Physical  
Modelling in  
Geotechnics 3 (2):  
51-62 Crossref , Google  
Scholar . Kim D-S, Kim  
N-R, Choo YW, Cho G-

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C. 2013 a .

**Evaluation of  
dynamic bending  
moment of  
disconnected piled**

...

Pile raft foundation behavior is evaluated with many researches and the effect of pile length; pile distance, pile arrangement and cap thickness are determined under vertical or horizontal static and dynamic

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loading. In the present paper the influence of pile length configurations on behavior of multi-storied are evaluated under vertical loading.

## **INTERNATIONAL JOURNAL OF SCIENTIFIC & TECHNOLOGY RESEARCH ...**

The geometric details of the problem are described in Fig.

2. Consider a piled-raft

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Foundation over a uniform soil layer that supports a superstructure as shown in Fig. 2(a). The foundation contains an  $A \times B$  rigid raft in plan founded at depth  $D$  below the ground surface, overlaying the soil mass reinforced by a group of vertical piles with length  $L$ . The cross-section area of the piles is a ...

## **A simplified solution**

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### **for piled-raft foundation analysis**

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The combined pile-raft foundation (CPRF) has been widely recognized as economic and rational foundation for high-rise buildings when subjected to vertical loading because of its effectiveness in load sharing by both raft and pile components. This results in smaller total and differential

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Foundations with settlements with a reduced number of piles as compared with group piles.

## **Effect of Earthquake on Combined Pile-Raft Foundation**

...

Thakare, S. W. and  
Dhawale, P. (2016),  
"Performance of Piled  
Raft Foundation on  
Sand Bed"

International Journal of  
Innovative Research in  
Science, Engineering

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Foundation  
and Technology, Vol. 5,  
Issue 6, June ...

## **(PDF) Effect of Pile Spacing On Ultimate Capacity and Load ...**

Mahrag, D.K.: Three dimensional nonlinear finite element analysis to study the effect of raft and pile stiffness on the load-settlement behavior of piled raft foundations. Electronic Journal of Geotechnical Engineering, vol. 9, 2004, Bundle A, Paper



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0349 (2004)

**A New Approach for  
Estimating  
Thickness of Mat  
Foundations ...**

International Journal for  
Numerical . ... The  
piled-raft foundation  
systems have started  
to be a very popular  
design method that is  
commonly used for  
especially high-rise  
buildings. In this ...

**(PDF) ISSMGE**  
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Small J. C., Zhang H.  
H., (2002), "Behavior  
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Lateral and Vertical  
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International Journal of  
Geomechanics, Vol. 2,  
29 - 45. Yue Mao-  
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Structure Interaction of

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Foundation  
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Journal Of Civil  
Engineering.  
High-rise Building  
Resting on Soft Soil”,  
Electronic Journal of  
Geotechnical  
Engineering.

## **Piled Raft Foundation for Seismic Performance of Tall ...**

Piled raft foundation is a new concept in which the total load coming from the superstructure is partly shared by the raft through contact with

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soil and the remaining load is shared by piles through skin friction. A piled raft foundation is economical compared to the pile foundation.

## **BEHAVIOURAL STUDY OF PILED RAFT FOUNDATION IN LAYERED SOIL ...**

Combine Piled Raft Foundation(CPRF) is an emerging type of new foundation techniques in High rise buildings and skyscraper which

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raft as a shallow foundation and pile as deep foundation works sharing the total load and reduce settlement and bending moment. the modern approach of design philosophy is included in post graduation level with soil structure interaction of CPRF and this will use to understand the basic concept regarding it.

**Combine piled raft**  
*Page 22/28*

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**foundation**

**(cprf)\_Er.Karan**

**Chauhan**

Piled raft foundations (PRFs) have been widely adopted in the design of high-rise buildings and important buildings in recent years due to their efficiency in controlling the total settlement and differential settlement and their high bearing capacity.

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## Optimization Method for Irregular Piled Raft Foundation on

...

The piled raft foundations are designed to support the structure against static and dynamic loads to satisfy the requirements for bearing capacity and maximum settlement. The raft is 78 m long, 53 m wide, and 1.8 m thick and made of reinforced concrete.



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## **Influence of Variable Rigidity Design of Piled Raft ...**

Innovative application of piled raft foundation in stiff and soft subsoil. In Proceedings of the International Deep Foundations Congress 2002, Orlando, Florida, 14-16 February 2002, American Society of Civil Engineers - ASCE, pp. 426-440.

## **Analysis of**

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## **settlements in piled raft systems founded in ...**

Geology Journal of  
Geotechnical and  
Geoenvironmental  
Engineering Raft  
foundations enhanced  
with deep foundation  
elements (typically  
piles), simply known as  
piled rafts, were  
examined to develop a  
more integrated,  
displacement-based,  
design methodology.

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**Contribution to Piled  
Raft Foundation**

**Design | Semantic ...**

(2002). Behavior of  
Piled Raft Foundations  
Under Lateral and  
Vertical Loading.  
International Journal of  
Geomechanics: Vol. 2,  
No. 1, pp. 29-45.

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