



SNS COLLEGE OF TECHNOLOGY

Coimbatore-35
An Autonomous Institution

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Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai



DEPARTMENT OF CIVIL ENGINEERING

19CEB301- SOIL MECHANICS

III YEAR V SEM

UNIT 1 – INTRODUCTION

Topic 7 : COMPACTION OF SOIL





COMPACTION

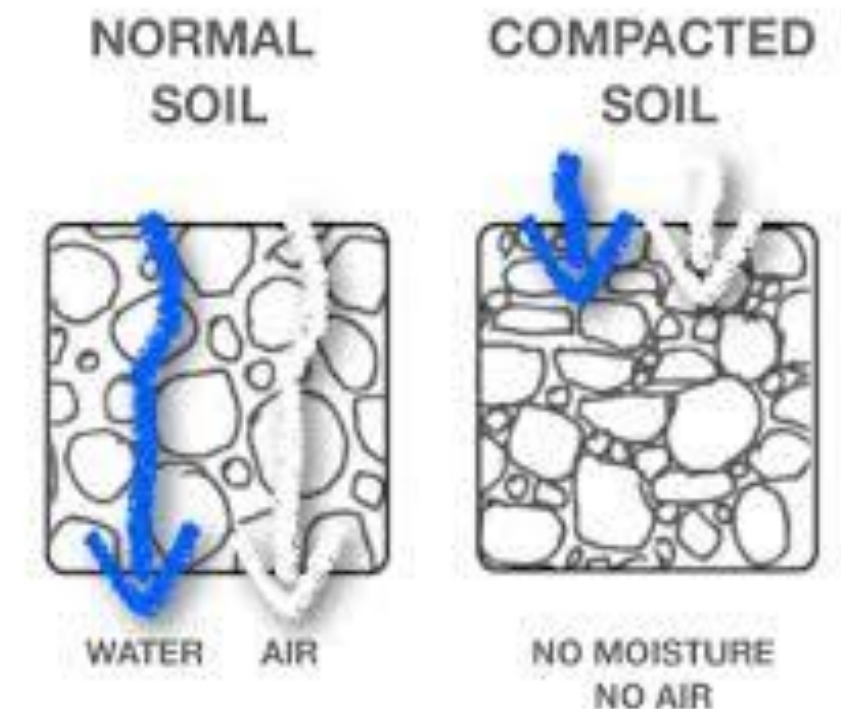


DEFINITION

Process of densification of soil mass

PURPOSE

Purposeful compaction is intended to improve the strength and stiffness of soil.





LABORATORY TESTS:



Proctor Compaction

Modified Proctor

Wt of Hammer

2.5Kg

4.5Kg

No of Layers

3

5

Ht of Fall

30cm

45cm

No of Blows

25

25

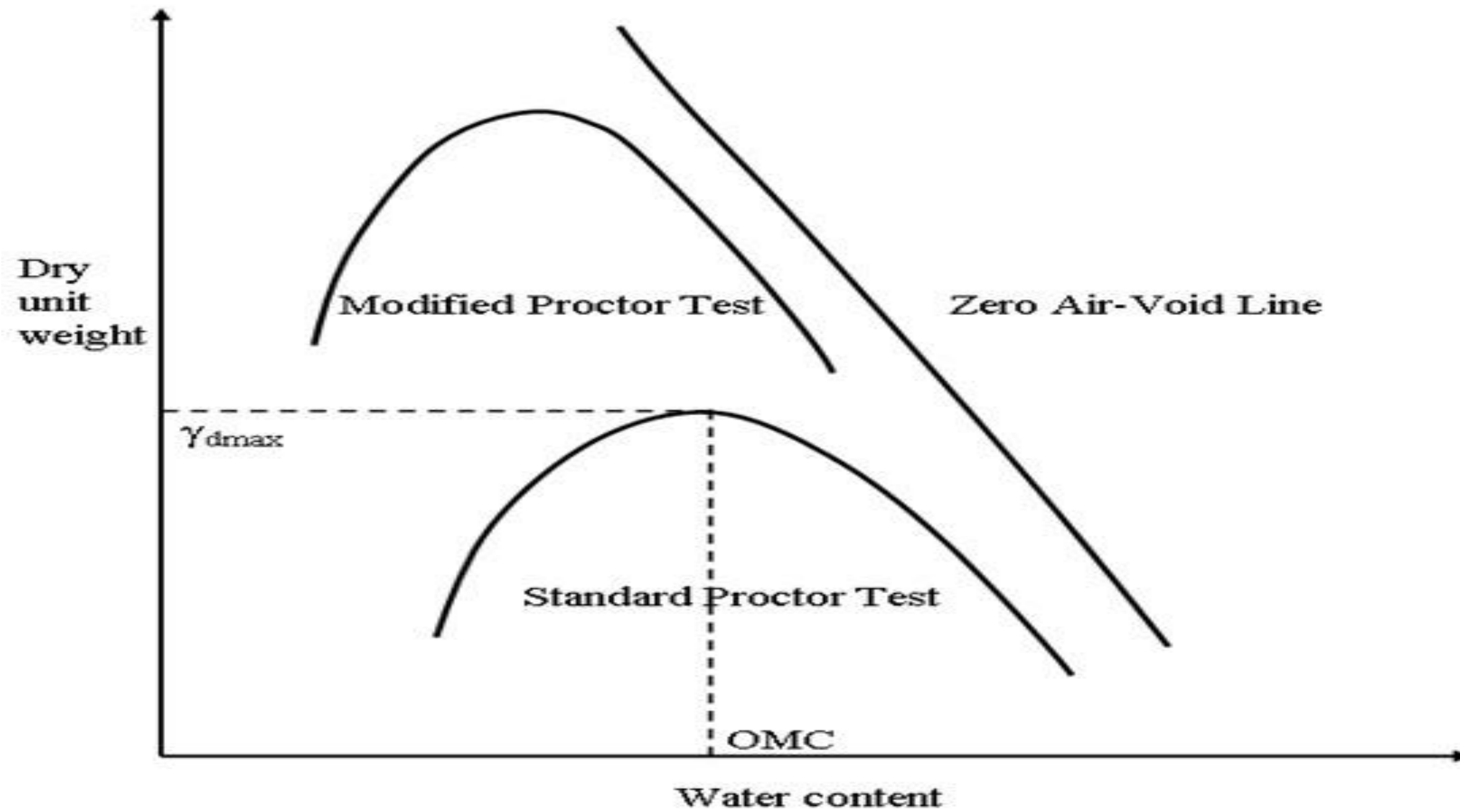
Ht of mould : 12.5cm

Dia of mould: 10cm





OMC / MDD CURVE



APPLICATIONS



- ❖ Highways
- ❖ Embankments
- ❖ Air field pavements



ASSESSMENT



- ❖ What are dimensions of compaction mould ?
- ❖ No of blows in modified proctor test is?
- ❖ What is OMC?



REFERENCES



- ❖ Coduto, D.P., “Geotechnical Engineering Principles and Practices”, Prentice Hall of India Private Limited, New Delhi, 2002
- ❖ McCarthy D.F., “Essentials of Soil Mechanics and Foundations Basic Geotechniques”, Sixth Edition, Prentice-Hall, New Jersey, 2002
- ❖ Das, B.M, “Principles of Geotechnical Engineering”, (fifth edition), Thomas Books/ cole, 2002



THANK YOU