

A PROJECT REPORT SUBMITTED TO THE SCHOOL OF  
ENGINEERING  
IN PARTIAL FULFILMENT OF REQUIREMENT  
FOR THE AWARD  
OF AN  
ADVANCED DIPLOMA IN CIVIL ENGINEERING

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BEHAVIOUR OF REINFORCED CONCRETE  
BEAM UNDER DYNAMIC LOADING

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MAY 1996

## ABSTRACT

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The increase in use of high strength concrete (HSC) in modern construction is tremendously high. Thus its behaviour need to be understood clearly. The behaviour of high strength reinforced concrete beam (R.C Beam) under dynamic loading with respect to the serviceability and ultimate limits had been studied. Two R.C beams with minimum concrete strength of  $60 \text{ N/mm}^2$  tested, one to failure under static load, while another tested to 3,000,000 cycles under sinusoidal repeated load with mean load of 45 kN (50% of yield load equivalent to 38% of ultimate load). Investigation on deflections, ultimate loads and cracks width were done.

# TABLE OF CONTENTS

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<b>Contents</b>	<b>Page</b>
ACKNOWLEDGEMENT	i
TABLE OF CONTENTS	ii
LIST OF SYMBOLS	vii
LIST OF TABLES	ix
LIST OF FIGURES	x
LIST OF PLATES	xi
ABSTRACT	xii
CHAPTER 1 INTRODUCTION	
1.1 Scope Of Study And Objective	1
CHAPTER 2 LITERATURE REVIEW	
2.1 High Strength Concrete (HSC)	2
2.2 Cracking	3
2.2.1 Cracking Phenomena Under Static Load	3
2.2.2 Cracking Mechanisms	5

<b>Contents</b>	<b>Page</b>
2.2.3 Crack Width In Reinforced Concrete Beam	
(RC Beam)	6
2.2.3.1 Crack Width Under Static Load	6
2.2.3.2 Crack Width Under Dynamic Load	
& Fatigue	9
<b>2.3 Deflection</b>	<b>11</b>
2.3.1 Behaviour Of Flexural Member Under Deflection	11
2.3.2 Method For Computing Deflection	12
 <b>CHAPTER 3 DESIGN CONDITION</b>	
<b>3.1 Concrete Mix Design</b>	<b>16</b>
<b>3.2 Mix Design</b>	<b>16</b>
3.2.1 Type Of Cement	17
3.2.2 Water Content	17
3.2.3 The Compressive Strength Of Concrete	18
3.2.4 Type Of Mixing	18
3.2.5 Age At Test And Curing Conditions	18
3.2.6 Cement Strength	18
3.2.7 Type Of Cement	19
3.2.8 Durability Of Concrete	19

<b>Contents</b>	<b>Page</b>
3.2.9 The Mix Design Process	19
<b>3.3 Design Of Reinforced Concrete Beam Specimen</b>	<b>20</b>
<b>CHAPTER 4 EXPERIMENTAL WORK</b>	
<b>4.1 Experimental Set-Up</b>	<b>28</b>
<b>4.2 Material</b>	<b>28</b>
4.2.1 Cement	29
4.2.2 Coarse And Fine Aggregate	29
4.2.3 High Yield Deformed And Mild Steel Bars	29
<b>4.3 Preparation Of Specimens</b>	<b>30</b>
<b>4.4 Fabrication Of Specimens</b>	<b>30</b>
4.4.1 Steel Reinforcement Cage	31
4.4.2 Casting Of Beam Specimens	31
<b>4.5 Concrete Control Specimens</b>	<b>32</b>
<b>4.6 Experimental Procedure</b>	<b>33</b>
4.6.1 Position Of Strain Gauges	33
4.6.2 Testing Equipment	34
4.6.3 Detail Of The Set-up	34
4.6.4 Static Loading	35
4.6.5 Dynamic Loading	36