

ROLLER COMPACTED CONCRETE FOR DAMS

1.0 INTRODUCTION

Roller Compacted Concrete (RCC) is defined as a concrete of stiff consistency, compacted by vibratory rollers in thin lifts most commonly not exceeding 300 to 600 mm. It is gaining worldwide acceptance for use in construction of gravity dams.

RCC construction has considerable appeal in areas where the construction season is short, and in general, has an economic advantage in the time factor or cost. With this background, RCC gravity dams become the primary alternative for potential dam sites with suitable rock foundations and adequate aggregate sources. Because of its low water and cement content, RCC is less susceptible to shrinkage or cracking. Its use eliminates the need for construction joints and the structure can be built in a continuous operation into a monolith which would not create thermal problems associated with mass concrete.

A great diversity of practice and opinion exists on the adoption of this new technology due to differences in methods of placement, consistency and mix proportions of RCC with respect to conventional concrete, based on site specific conditions. Because of this diversity, RCC technology has been split up into three distinct groupings depending on the type and design of concrete used, namely:

- | | | |
|----------------------|---|--|
| Rollcrete | - | Concrete containing 'as dug' gravel stabilized with low cement content e.g. concrete used in the repairs to the stilling basin at Tarbela Dam (Pakistan). The cement content in rollcrete is of the order of 60-80 kg/m ³ . |
| Lean Concrete | - | Concrete containing aggregates of nearly normal quality and low cement content e.g. concrete used in Ohkawra and Shunajigawa Dams (Japan) and Willow Creek Dam (USA). The cementitious material content in the case of lean RCC is generally less than 100 kg/m ³ , out of which flyash content is about 40%. |

In Japan, the RCC is known by the name of RCD (Roller Compacted Dam), such a concrete contains cementitious content between 120 and 130 kg/m³. The method involves placing concrete in lifts upto 700 mm thick, green cutting of lift surfaces and cutting of contraction joints using a vibratory joint cutter.

- | | | |
|------------------------------------|---|--|
| High Paste Content Concrete | - | Concrete containing aggregates of nearly normal quality and in which the paste content is 20 percent or more of the total volume of concrete e.g. concrete used in Milton Brook Dam (UK) and Upper Stillwater Dam (USA). The cementitious material content in the case of high paste content concrete is in excess of 150 kg/m ³ , out of which fly ash content may be 70 to 80% by volume. |
|------------------------------------|---|--|

2.0 MATERIALS

2.1 Cement

Ordinary Portland Cement conforming to IS:269-1976 "Specification for Ordinary Portland

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Roman Wölfel



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Handbook for Concrete and Cement United States. Army. Corps of Engineers,1994 **Roller-compacted Concrete**,2005 **Annual Book of ASTM Standards** ASTM International,American Society for Testing and Materials,2003

Concrete '83 Sourcebook ,1983 **An Introduction to Specifications for Roller Compacted Mass Concrete** J. Paul Guyer,2018-08-14 Introductory technical guidance for civil engineers and construction managers interested in specifications for roller compacted mass concrete **No-slump Roller-compacted Concrete (RCC) for Use in Mass Concrete Construction** K. L. Saucier,1984 **No-Slump Roller-Compacted Concrete (RCC) for Use in Mass Concrete Construction** Kenneth L. Saucier,ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG MS STRUCTURES LAB.,United States. Army. Corps of Engineers,U.S. Army Engineer Waterways Experiment Station,Structures Laboratory (U.S.),1984 The use of no slump roller compacted concrete RCC in mass concrete construction was investigated RCC is concrete having no slump but containing the minimum amount of water necessary to achieve consolidation with a vibrating roller Tests were conducted to a optimize mixtures for application of no slump techniques b develop a consistency and quality control technique c determine methods of improving hardened lifts joints d determine the relative frost resistance of RCC e evaluate the erosion susceptibility and f discover economical methods of obtaining void free vertical surfaces Indications are that a the curb concrete is viable method of forming and containing RCC b the degree of compaction achieved is dependent on the stiffness and the paste content of the mixture the lift thickness and the individual roller c the tensile strength of the untreated joints increased with paste content and quality from approximately 25 percent for relatively lean RCC to approximately 50 percent for richer RCC d erosion resistance at 35 ft sec fluid velocity of RCC is good e resistance to freezing and thawing of the RCC is poor apparently due to a poor air void system and f surface treatment with a mortar gun shotcrete appears to be a practical method to achieve smooth vertical surfaces Evaluation of Criteria for Uniformity of Roller-compacted Concrete Brian H. Green,Billy D. Neeley,Toy Spotswood Poole,1998 This report presents the results of a laboratory investigation that was conducted for the purpose of validating mixer uniformity requirements for roller compacted concrete The purpose of the investigation was to verify existing guidance or if necessary recommend changes to existing guidance The investigation included both air entrained and nonair entrained concrete The results indicate that existing guidance is appropriate for Vebe consistency water content coarse aggregate content compressive strength and air content determinations However the results indicated that existing guidance could be too restrictive for the unit weight of air free mortar determinations A recommendation was made to consider revising current guidance on the allowable range for unit weight of air free mortar **An Introduction to Specifications for Roller Compacted Mass Concrete for Professional Engineers** J Paul Guyer,2024-07-17 Introductory technical guidance for specifications for roller compacted mass concrete **An Introduction to Specifications for Roller Compacted Mass Concrete for Professional Engineers** J. Paul

Guyer, P.E., R.A.,2024-07-17 Introductory technical guidance for Professional Engineers and construction managers for specifications for roller compacted mass concrete **Roller-Compacted Concrete (RCC)** KL. Saucier,1994 Roller compacted concrete RCC is discussed in this special technical publication for the first time The widespread use of RCC has occurred in the period since publication of the last version of ASTM STP 169B in 1978 Initial development in the 1970s was focused primarily on mass concrete for construction of locks and dams In the 1980s RCC was adapted for use in construction of pavements and other types of horizontal structures Recently in the 1990s it has been applied as a repair technique to several types of structures **State-Of-The-Art report on roller-compacted concrete pavements** ACI Committee 325,American Concrete Institute,1995 An Introduction to Roller Compacted Concrete J. Paul Guyer, P.E., R.A.,2021-08-23 Introductory technical guidance for civil engineers structural engineers and construction managers interested in roller compacted concrete Here is what is discussed 1 GENERAL DESIGN CONSIDERATIONS 2 MIXTURE PROPORTIONING 3 PROPERTIES OF ROLLER COMPACTED CONCRETE 4 QUALITY CONTROL AND PERFORMANCE *Roller-compacted Concrete* American Society of Civil Engineers,1994 An Introduction to Roller Compacted Concrete for Construction Managers J. Paul Guyer,2025-01-02 Introductory technical guidance for Construction Managers interested in roller compacted concrete Here is what is discussed 1 GENERAL DESIGN CONSIDERATIONS 2 MIXTURE PROPORTIONING 3 PROPERTIES OF ROLLER COMPACTED CONCRETE 4 QUALITY CONTROL AND PERFORMANCE Report on Roller-Compacted Concrete Pavements American Concrete Institute,2009 *Application of Roller-compacted Concrete (RCC) Technology to Roadway Paving* Dennis Ludwig,Antonio Nanni,James E. Shoenberger,1994 **Development of a Design Procedure for Roller-compacted Concrete (RCC) Pavements: Main text** David W. Pittman,1994 **Assessment of roller compacted concrete at QCL Excel Quarry** ,2000 **Roller compacted concrete (RCC)** ,1991

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