

Concrete Mix Design Excel Sheet

Mix Design for Concrete

Grade = M 25

C1. Design stipulation:

- i. Characteristic Compressive strength = 25 N/mm²
- ii. Maximum size of aggregate = 20 mm
- iii. Degree of workability = 0.8
- iv. Degree of quality = Good
- v. Type of Exposure = Mild

C2. Test data for materials

- (i) Cement used = PPC
- (ii) Specific gravity of Cement = 3
- (iii) Specific gravity
 - Fine Aggregate = 2.8
 - Coarse Aggregate = 2.61
- (iv) Water absorption
 - Fine Aggregate = 2.1 %
 - Coarse Aggregate = 0.78 %
- (v) Free Surface Moisture
 - Fine Aggregate = 2.1 %
 - Coarse Aggregate = Nil %
- (vi) Fine Aggregate confirming the table 4, IS 383- Zone = 3

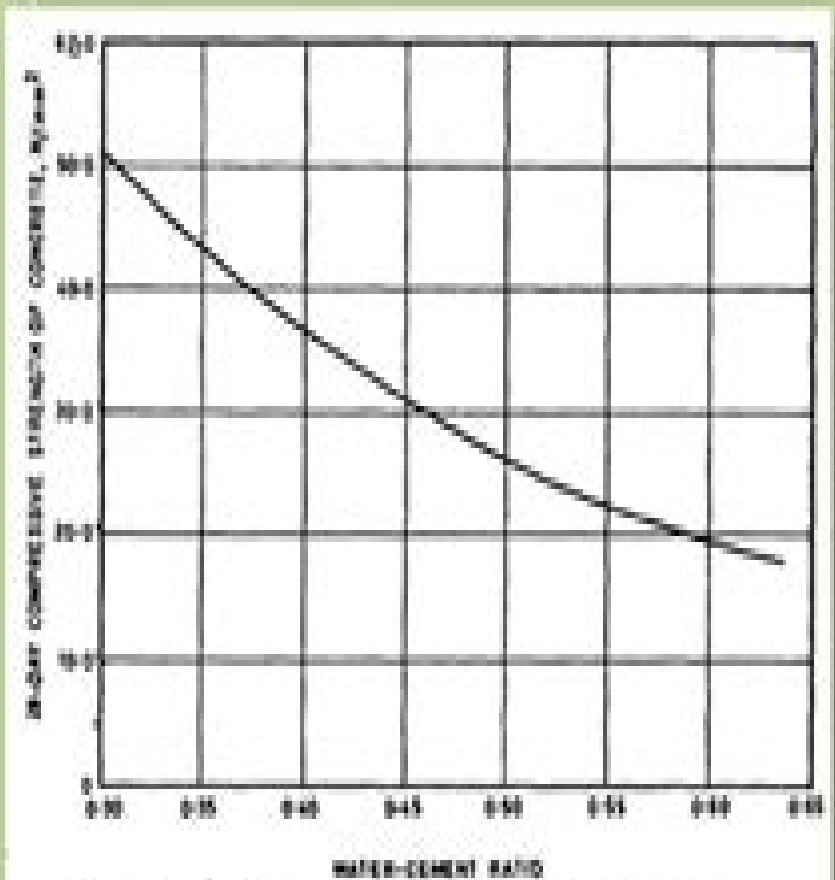


FIG. 1 GENERALISED RELATION BETWEEN FREE WATER-CEMENT RATIO AND COMPRESSIVE STRENGTH OF CONCRETE

Concrete Mixes Planning And Design

**Muji Setiyo,Zulfikar Bagus
Pambuko,Chrisna Bagus Edhita
Praja,Agus Setiawan,Fitriana
Yuliasuti,Lintang Muliawanti,Veni
Soraya Dewi**

Concrete Mixes Planning And Design:

Concrete Mixes Planning and Design G. G. T. Masterton, Construction Industry Research and Information Association, R. A. Wilson, 1997 *The Planning and Design of Concrete Mixes for Transporting, Placing and Finishing* G. G. T. Masterton, R. A. Wilson, 1997-01-01 This book provides guidance on the fresh state rheological properties of concrete appropriate to a range of construction methods operations and environments **Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects** United States. Federal Highway Administration, 1979 **Proceedings of the 4th Borobudur International Symposium on Science and Technology 2022 (BIS-STE 2022)** Muji Setiyo, Zulfikar Bagus Pambuko, Chrisna Bagus Edhita Praja, Agus Setiawan, Fitriana Yulastuti, Lintang Muliawanti, Veni Soraya Dewi, 2023-11-08 This is an open access book Related to the big theme of the SDGs reinforcement at our previous conference we try to invite all academics and researchers around the world to participate in the 4th Borobudur International Symposium 2022 4th BIS 2022 As we know the COVID 19 pandemic and its impact on all the 17 SDGs have demonstrated how what began as a health catastrophe swiftly transformed into a human socioeconomic and environmental crisis The 4th BIS brought up The Innovation Chain A Contribution to Society and Industry as the main theme to respond this condition This conference is expected to support the UN Agenda Additionally this conference will also provide avenues for participants to exchange ideas and network with each other as well as domain experts from their fields Overall this event is aimed at professionals across all spheres of technology and engineering including the experienced inexperienced and students as well The conference will be held virtually on Wednesday December 21st 2022 in Magelang Central Java Indonesia **Concrete Materials and Construction** Mr. Rohit Manglik, 2024-06-24 In this book we will study about concrete materials and construction to understand its practical applications and theoretical foundations across scientific and engineering disciplines **Standard Specifications for Highway and Structure Construction** Wisconsin. Department of Transportation, 2012 Standard Specifications for Construction of Roads and Bridges on Federal Highway Projects. FP-74 United States. Federal Highway Administration, 1974 **Advanced Concrete Technology 3** John Newman, B S Choo, 2003-10-30 Based on the Institute of Concrete Technology s Advanced Concrete Technology Course these four volumes are a comprehensive educational and reference resource for the concrete materials technologist An expert international team of authors from research academia and industry has been brought together to produce this unique series Each volume deals with a different aspect of the subject constituent materials properties processes and testing and quality With worked examples case studies and illustrations throughout the books will be a key reference for the concrete specialist for years to come Expert international authorship ensures the series is authoritative Case studies and worked examples help the reader apply their knowledge to practice Comprehensive coverage of the subject gives the reader all the necessary reference material **Development of an Automated Concrete Quality Control and Simulation Planning System**, 1995 *Status and Plans of the United*

States and CERN High Energy Physics Programs and the Superconducting Super Collider (SSC) United States. Congress. House. Committee on Science and Technology. Subcommittee on Energy Development and Applications, 1986 **Civil & Allied Engineering** YCT Expert Team , 2022 23 RRB JE Civil Allied Engineering Chapter wise Solved Papers High Performance Concrete Optimal Composition Design Leonid Dvorkin, Vadim Zhitkovsky, Oleh Bordiuzhenko, Yuri Ribakov, 2023-09-01 Concrete and reinforced concrete remain the main building materials for construction of modern fortifications The book presents experimental and theoretical results allowing production of special high strength rapid hardening concrete and fiber reinforced concrete It describes a method for effective proportioning of high strength fast setting concrete and fiber reinforced concrete with high dynamic strength as well as selecting proper technological parameters methodology for design of reinforced concrete structures using such concrete Particular attention is paid to ensuring the early strengthening of concrete within 24 hours after casting and to constructing structures with limited energy resources at the site *Implementation of Transportation Engineering Technician Certification Program* Institute for the Certification of Engineering Technicians, 1980 **Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy** United States Air Force Academy, 1990 Innovative Bridge Designs for Rapid Renewal HNTB Corporation, Genesis Structures Inc, Structural Engineering Associates, and Iowa State University, This report from the second Strategic Highway Research Program SHRP 2 which is administered by the Transportation Research Board of the National Academies documents the development of standardized approaches to designing and constructing complete bridge systems for rapid renewals **General Catalog** Georgia Institute of Technology, 1986 Industrialized and Automated Building Systems Abraham Warszawski, 2003-09-02 This book presents a comprehensive approach towards the industrialization of building It argues that only industrialization and automation can bring radical changes necessary to the building industry Energy Research Abstracts , 1980-06 *Proceedings of the 18th International Conference on Computing in Civil and Building Engineering* Eduardo Toledo Santos, Sergio Scheer, 2020-07-14 This book gathers the latest advances innovations and applications in the field of information technology in civil and building engineering presented at the 18th International Conference on Computing in Civil and Building Engineering ICCCBE S o Paulo Brazil August 18 20 2020 It covers highly diverse topics such as BIM construction information modeling knowledge management GIS GPS laser scanning sensors monitoring VR AR computer aided construction product and process modeling big data and IoT cooperative design mobile computing simulation structural health monitoring computer aided structural control and analysis ICT in geotechnical engineering computational mechanics asset management maintenance urban planning facility management and smart cities Written by leading researchers and engineers and selected by means of a rigorous international peer review process the contributions highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations Highways and Agricultural Engineering, Current Literature , 1948

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