

ABSTRAK

Judul : Analisis Pengendalian Kualitas Proses Produksi Beton Ready Mix Berbasis Statistik (Statistical Process Control) (Studi Kasus : Concrete Batching Plant Holcim Kembangan), Nama : Ardi Saputro, Nim : 41115110062, Dosen Pembimbing : Dr. Mawardi Amin, MT., 2019

Pembangunan konstruksi di Indonesia yang semakin berkembang, akan berdampak pada kebutuhan ready mix concrete yang besar bagi pengembang dalam mewujudkan suatu bangunan dengan kualitas baik dan tepat waktu. Proses produksi beton ready mix diharapkan dapat memenuhi permintaan konsumen terutama masalah kualitas. Kerusakan/cacat produksi mengakibatkan dampak yang besar bagi kualitas suatu bangunan. Tujuan dari penelitian ini adalah mengetahui proses dan pengendalian kualitas produksi beton ready mix di Concrete Batching Plant Holcim Kembangan apakah sudah sesuai dengan Standar Nasional Indonesia 2847:2013 dan 4433:2016, mengidentifikasi jumlah kerusakan/cacat produksi pada beton ready mix, dan mengetahui apakah produksi beton ready mix masih terkendali atau tidak. Teknik pengumpulan data dalam penelitian ini menggunakan data primer dan sekunder. Alat analisis yang digunakan yaitu diagram sebab-akibat, diagram pareto, dan grafik kendali. Proses dan pengendalian kualitas produksi beton ready mix di Concrete Batching Plant Holcim Kembangan sudah memenuhi Standar Nasional Indonesia 2847:2013 dan 4433:2016. Jumlah kerusakan/cacat produksi pada beton ready mix yaitu kekentalan sebesar 135 m³ (48,4%), keenceran sebesar 96 m³ (34,4%), dan beton setting sebesar 48 m³ (17,2%). Produksi beton ready mix masih terkendali dimana prosentase kerusakan yaitu 4,5%.

Kata kunci : Beton ready mix, pengendalian kualitas, diagram sebab-akibat, diagram pareto, analisis kendali p.

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ABSTRACT

Title : Analysis of Quality Control of Ready Mix Concrete Production Process Statistical Based Control (Statistical Process Control) (Case Study: Holcim Kembangan Concrete Batching Plant), Name : Ardi Saputro, Nim : 41115110062, Advisor : Dr. Mawardi Amin, MT., 2019

Construction development in Indonesia that is growing, will have an impact on the need for large ready mix concrete for developers in realizing a building with good quality and on time. The ready mix concrete production process is expected to meet consumer demand, especially quality problems. Damage / production defects have a large impact on the quality of a building. The purpose of this study was to determine the process and quality control of ready mix concrete production at the Holcim Kembangan Concrete Batching Plant whether it was in accordance with Indonesian National Standards 2847: 2013 and 4433: 2016, identify the amount of damage / production defects in ready mix concrete, and find out whether production ready mix concrete is still under control or not. Data collection techniques in this study used primary and secondary data. The analytical tools used are causal diagrams, pareto diagrams, and control charts. The process and quality control of ready mix concrete production at Holcim Kembangan's Concrete Batching Plant already meets the Indonesian National Standards 2847: 2013 and 4433: 2016. The amount of damage / defects in ready mix concrete is thickness of 135 m³ (48.4%), dilution of 96 m³ (34.4%), and concrete setting of 48 m³ (17.2%). The production of ready mix concrete is still under control where the percentage of damage is 4.5%.

Keywords : Ready mix concrete, quality control, causal diagram, pareto diagram, control analysis p

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