

Contributions to the Creation of an Integrated Informatic System Regarding the Assurance of Roadway Bed Quality

Cristian Dorneanu

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- ▶ PhD. Supervisor: CONSTANTIN IONESCU, Faculty of Civil Engineering and Buildings Services, "Gheorghe Asachi" Technical University of Iasi, Romania
- ▶ President: NICOLAE TARANU, Dean, Faculty of Civil Engineering and Buildings Services, "Gheorghe Asachi" Technical University of Iasi, Romania
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Summary

Currently, following our country lining up to the European Union, one of the factors essentials for the economical integration to the implementation of principles and current regulations regards the quality and the evaluation of its conformity. The elimination of the existent gap in comparison with the European level of products and services quality can be made only by promoting and application of a quality culture to the level of the European one.

The paper theme is introduced in this area of high importance regarding the roadway quality structure and their exploitation on short term, by the mean of roadway beds works, specially, in the current conditions when the roadway network is confronted with an special increase of the roadway traffic and the



Cristian Dorneanu

burden on axle, the main objective being the obtaining of roadway beds at the desired quality.

In a first phase, following a complex documentation on the informatics systems specific to the construction quality management, the author has approached general aspects regarding the quality system in the roadway infrastructure construction, at national and international level, considering also the importance of roadway sector in the national economy, but also the fact that currently in all the European countries the building contractor establishes, applies and maintains a quality manual approved and a quality plan in conformity with the norms from ISO 9000 serial. A ample space is dedicated to the solutions, classic and modern, of conceiving, realization and exploitation of roadway beds and the problem raised by the strong context due to the meteorological and geological phenomena, in which must be realized these works.

Next, starting from the critical analysis of the current norms in our country regarding construction quality, the author proposes an in-house logical model for the creation of quality entitled QTS, which is structured on three modules: planning, assurance and control, quality determination.

This logical model, connected to the data basis projected and developed following the information sources identification and structuring on five areas (technical, economical, quality, juridical and historical), is the base of an informatics system integrated regarding the roadway beds quality assurance.

Components of this logical model, have been validated by the implementation in two Regional Agencies of Roads and Bridges in our country, where are organized in basic elements for annual and perspective plans creation for roadway consolidation works.

The creation of a guide for roadway bed quality assurance, which can be used by designers, managers, consultant societies, administrators and other specialists in the area of roadway constructions, represents a useful valorization of the researches.

KEYWORDS: roadway beds, total creation, informatics system, quality planning, quality assurance and control, quality determination, execution works conformity, of the material resources, and of equipments, integrated informatics system, information sources, data basis.

