

## INTISARI

Kerusakan struktural perkerasan jalan nasional dan jalan provinsi sering terjadi lebih cepat dari umur rencana. Pemahaman serta kepatuhan terhadap instruksi kerja pada penerapan SMM pelaksanaan pekerjaan drainase kepada pihak-pihak penyelenggara konstruksi jalan sangat diperlukan guna peningkatan kualitas konstruksi jalan. Penelitian ini bertujuan untuk memetakan komponen dan sub komponen pada pelaksanaan pekerjaan drainase berdasarkan tingkat kepentingan dan tingkat penerapan dalam SMM, menganalisis capaian mutu pelaksanaan pekerjaan drainase yang dipengaruhi oleh kontribusi dari masing-masing komponen dan membuat cara penilaian pelaksanaan pekerjaan drainase di lapangan berdasarkan capaian kinerja mutu.

Data pada penelitian ini diperoleh dari survei kuisioner terhadap pihak yang terlibat langsung pada pelaksanaan jalan provinsi yaitu para pihak pada dinas PUPR, kontraktor dan konsultan pengawas di Provinsi Maluku. Komponen pelaksanaan drainase yang diteliti antara lain pekerjaan gorong-gorong dan drainase beton. Analisis data menggunakan metode *Importance Performance Analysis* (IPA) dengan memetakan tingkat kepentingan dan tingkat penerapan sub komponen pekerjaan gorong-gorong drainase beton, dan metode *Structural Equation Modeling* (SEM) untuk menganalisis tingkat kepentingan tiap sub komponen pekerjaan gorong-gorong dan drainase beton sesuai hasil survei.

Hasil analisis menunjukkan komponen pelaksanaan pekerjaan gorong-gorong dan drainase beton di lapangan belum dipatuhi dan diterapkan sesuai standar, kontribusi tiap sub komponen terhadap penilaian capaian kinerja mutu pelaksanaan pekerjaan gorong-gorong dan drainase beton: sub komponen persiapan sebesar 79,2%; sub komponen penggalian 68,5%, sub komponen bahan landasan dan gorong-gorong pipa beton sebesar 72,8%, sub komponen penimbunan sebesar 69,6%; sub komponen pemasangan drainase dan acuan sebesar 87,9%, sub komponen pengecoran dan pemadatan sebesar 83,1%; sub komponen sambungan konstruksi, perawatan dan pemasangan plat penutup beton pracetak sebesar 79,1%. Rapor capaian kinerja memperoleh bobot penilaian total sebesar 77,45% dengan kategori medium.

**Kata kunci:** drainase, SMM, IPA, SEM, kinerja mutu

## **ABSTRACT**

Structural damage of national and provincial road pavements often occurs faster than the design life. The understanding and compliance to work instructions for the implementation of drainage work on the implementation of QMS is needed by road construction operators to improve the quality of road construction. This study aims to develop a mapping of components and sub-components in the implementation of drainage work based on the level of importance and level of application in Quality Management System (QMS), analyze the contribution of factors that affect the implementation of the work and create a method of assessing the quality performance of drainage work in the field.

The data in this study were obtained from questionnaire surveys of parties directly involved in the construction of provincial roads, namely the parties at the PUPR agency, contractors and supervisory consultants in Maluku Province. Components of the drainage construction that are concrete culverts and drainage work. Data analysis is conducted using Importance Performance Analysis (IPA) method by mapping the importance and level of requirements for concrete culverts and drainage work components and Structural Equation Modeling (SEM) method to analyze the importance level of each sub component of concrete culverts and drainage work according to the survey results.

The analysis results show that the components of the concrete culvert and drainage work in field have not been complied and applied according to the standards. The contribution of each sub-component for evaluating the performance of concrete culvert and drainage work: preparation 79.2%; excavation 68.5%; coarse aggregate material of bottom base of concrete pipe culvert 72.8%; landfilling 69.6%; drainage and formwork of 87.9%, casting and compaction 83.1%; the sub components of the joint construction, maintenance and installation of pre-cast concrete cover plates 79.1%. The performance achievement report has a total score 77.45% with a medium category.

**Keywords:** drainage, QMS, IPA, SEM, quality performance