

Pemetaan Pengurangan Biaya Produksi Rantai Pasok Industri Beras Organik Menggunakan Simulasi Kejadian Diskrit = Mapping Production Cost Reduction of Organic Rice Industry Supply Chain Using Discrete Event Simulation

Athallah Yuritra, author

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Abstrak

Tingginya harga jual beras organik di Indonesia menimbulkan pasar beras organik yang kecil. Stigma “premium market” melekat erat dengan jauhnya harga jual beras organik dan anorganik. Biaya produksi menjadi salah satu faktor tinggi harga beras organik. Dengan menganalisa sistem rantai pasok produksi dari beras organik diharapkan dapat mengurangi biaya produksinya. PT. XYZ merupakan produsen beras organik ternama di Indonesia yang mempunyai masalah dalam proses produksi beras organiknya. Masalah utama terdapat pada proses pengeringan karena tidak adanya buku prosedur standardisasi operasional. Pengamatan proses aktivitas menggunakan metode value stream mapping diharapkan dapat mengurangi waktu produksinya dan penggunaan activity-based costing dapat membantu mengamati biaya yang dikeluarkan per aktivitas yang dilakukan, kemudian hasil dari analisis yang dilakukan akan disimulasikan secara diskrit menggunakan software Simio16. Analisis dari penelitian ini menghasilkan buku prosedur standardisasi operasional dengan tiga skenario pengeringan yang efektif mengurangi waktu total sekitar 180 menit dan biaya produksi sebesar Rp1.935.177.

.....The high selling price of organic rice in Indonesia has resulted in a small organic rice market. The stigma of "premium market" is attached to the high selling price of organic and inorganic rice. Production costs are one of the factors in the high price of organic rice. By analyzing the production supply chain system of organic rice, it is expected to reduce its production costs. PT. XYZ is a well-known organic rice producer in Indonesia that has problems in its organic rice production process. The main problem is in the drying process due to the absence of an operational standardization procedure book. Observation of the activity process using the value stream mapping method is expected to reduce production time and the use of activity-based costing can help observe the costs incurred per activity performed, then the results of the analysis carried out will be simulated discretely using Simio16 software. The analysis of this study resulted in an operational standardization procedure book with three drying scenarios that effectively reduced total time by about 180 minutes and production costs by Rp1,935,177.