

**Pengendalian Kualitas Keripik Singkong *Cutella Presto* Menggunakan Metode
Statistical Process Control (SPC) di UD Bima Kabupaten Jember**
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ABSTRAK

Singkong merupakan buah yang memiliki nama latin *Manihot esculenta*. tanaman tropis ini banyak ditemukan dikawasan asia dan banyak digemari oleh masyarakat. UD Bima merupakan industri makanan ringan yang mengolah olahan keripik singkong beralamatkan di Perum. Bumi Mangli Permai, Blok FB 15, Kaliwates, Kabupaten Jember. Penelitian ini bertujuan untuk (1) menganalisa pengendalian kualitas, (2) mengimplementasikan peta kendali dan kapabilitas proses, serta (3) mengidentifikasi faktor- faktor berpengaruh pada pengendalian kualitas. Penelitian ini menggunakan metode deskriptif kuantitatif dengan alat analisis *Statistical Process Control* (SPC) dengan instrumen statistik peta kendali, kapabilitas proses, diagram pareto dan diagram sebab akibat/ ishihawa. Penelitian ini menunjukkan bahwa tingkat kecacatan tertinggi terdapat pada kualitas bahan baku singkong sebesar 66%. Adapun hasil dari kapabilitas proses pada ketiga atribut. Atribut keutuhan sebesar 0,932, Atribut kenampakan 0,99 dan Atribut kualitas bahan baku sebesar 0,848 dengan faktor yang berpengaruh yakni faktor manusia (*Man*), mesin (*Machine*), Lingkungan (*Environment*), Material, pengukuran (*Measure*), dan metode (*Method*).

Kata Kunci : Pengendalian Kualitas, *Statistical Process Control* (SPC), Keripik Singkong

Quality Control of Cutella Presto Cassava Chips Using the Statistical Process Control (SPC) Method at UD Bima, Jember Regency

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ABSTRACT

Cassava is a tropical fruit known by its scientific name Manihot esculenta. This tropical plant is widely found in the Asian region and is highly favored by the public. UD Bima is a snack food industry that processes cassava chips, located at Perumahan Bumi Mangli Permai, Block FB 15, Kaliwates, Jember Regency. This study aims to (1) analyze quality control, (2) implement control charts and process capability, and (3) identify the factors that influence quality control. The research uses a descriptive quantitative method with Statistical Process Control (SPC) tools, including control charts, process capability analysis, Pareto diagrams, and cause-and-effect (Ishikawa) diagrams. The results show that the highest defect rate occurred in the quality of cassava raw materials, with a percentage of 66%. The process capability index for the three quality attributes is as follows: product integrity at 0.932, appearance at 0.99, and raw material quality at 0.848. The influencing factors identified include human (Man), machine (Machine), environment (Environment), material (Material), measurement (Measure), and method (Method)

Keywords: *Quality Control, Statistical Process Control (SPC), Cassava Chips*