

## **Response Surface Methodology for the Optimization of Paddy Husker by Medium Brown Rice Peeling Machine 6 Rubber Type**

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**Abstract :** Optimization of response surface methodology (RSM) was employed to study the effects of three factor (rubber of clearance, spindle of speed, and rice of moisture) in brown rice peeling machine of the optimal good rice yield (99.67, average of three repeats). The optimized composition derived from RSM regression was analyzed using Regression analysis and Analysis of Variance (ANOVA). At a significant level  $\alpha=0.05$ , the values of Regression coefficient, R2 adjust were 96.55% and standard deviation were 1.05056. The independent variables are initial rubber of clearance, spindle of speed and rice of moisture parameters namely. The investigating responses are final rubber clearance, spindle of speed and moisture of rice.

**Keywords :** brown rice, response surface methodology (RSM), peeling machine, optimization, paddy husker

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