

# **ELECTRICAL DEVELOPMENT OF STRING SERVER IN ARCHERY 3 IN 1 (STRING JIG, STRING STRECHER, SERVING)**

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## **ABSTRACT**

This study aims to: (1) determine the feasibility of a string server containing 3 in 1 functions, namely (string jig, serving jig and string server) which are packaged in one device; (2) Generate server strings containing 3 in 1 functions, namely (string jig, serving jig and string server) which are packaged in one practical tool. (3) Knowing the quality of the server string that contains the 3 in 1 function, namely (string jig, serving jig and string server) which are packaged in one device.

This type of research is development (Research and Development). the development steps using the ADDIE design are the analysis, design, development, implementation, and evaluation stages. validator that is carried out on material experts 3 people, media experts and practitioners 4 people. A small scale was carried out to all trainers in the Archery UKM UNY, totaling 20 trainers. Meanwhile, for large-scale testing, 30 trainers were tested at PERPANI Banyumas. Quality test at the archery club Taurus Archery Club and Blaburan Archery Club with 30 coaches and 7 athletes. The data collection instruments used were: Preliminary Study Data Collection Instruments (face-to-face interview), then the instrument in the form of a questionnaire was compiled to determine the quality of the product using a closed Likert Scale questionnaire.

The results showed that: (1) The steps for developing a string server containing 3 in 1 functions, namely (string jig, serving jig and string server) were packaged in one device using the ADDIE method. The tool model consists of a sting jig, a serving jig and a string server. (2) The model developed by string server which contains 3 in 1 functions (string jig, serving jig and string server) which is packaged in one tool is feasible to use. Based on the product quality assessment, namely: language procedure indicators of 85.71% (feasible), usage procedure indicators of 82.14% (decent), Electrical String Server In Archery 3 In 1 indicators are safe against arcs of 89.29% (decent) , and the indicator of the Electric String Server In Archery 3 In 1 model is easy to implement at 85.71% (decent). (3) The developed tool model is of good quality and easy to use with precision that can be packaged with one tool, with  $p < 0.05$ .

*Kata Kunci: Archery Tool Model, String Jig, Serving Jig, String Server*