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**Working Position Improvement by Adding Supporting Tool
Reduced Subjective Complains and Increase Productivity of
Weavers in Tenganan Village Karangasem Regency**

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ABSTRACT

Background Pegringsingan weaving products is a part of handicraft or home industry. They are still confessed at present and produced by simple technology with hand in hand. This activity as a business of income from the most of women in Tenganan village of Manggis sub-district, Karangasem Regency. A work position with no planned well and they do not use a tool instruments for helping their working correctly, it is caused a subjective complaints of the workers so the production is not maximally and will cause the productivity of the workers come down. Woven products workers is required a carefulness and neatness of the workers, by long sitting position on the floor covered by something material. It is not aware of this problem into the anatomy and physiology of the workers and they will have a lot of complaint, sick, or pain on their neck, hand, low back, anus, thigh, eyes. It is caused static work load frequently, so that they will be to come a decrease activity and low motivation, it's activity and the work is not done efficient and effective.

Objective The variable that is measured in this study is decrease workload, subjective complaint, work efficiency (long work), and work productivity.

Methods The research has been studied to the sixteen weaving workers that were chosen without rules with treatment by subject program with cross over design, its analyses unit considering group variance. It has been intervened by work positions with supporting tool for instant "peliper, tinglik, por (supported by sponge), hurble, and using eyes glasses and group workers.

Results This study is analyzed by t-paired, and there is a significant work load reduction ($p < 0.005$), which is the pulse of the workers come down from 89.62 beats per minutes to be 82.56 beats per minutes (≤ 5.60) in the same of the light work load category. The subjective complaints of the work load come down showed significant value ($p < 0.005$) that is from Nordic body map score 56.92 (16.14) to be 28.86 (7.32). By the efficient work 7 hours a day with support tools, it is to be come the productivity increase (0.34%) and work productivity (7.9%) significantly ($p < 0.005$).

Keywords: Woven supporting tools; subjective complaint; productivity; Pegringsingan weavings

INTRODUCTION

Pegringsingan weavings is an heritage home industry which combines art and simple technology fully produced by hand. To make *Pegringsingan* weavings is the job of some of women in *Tenganan* village, in Manggis sub-district, Karangasem regency. Based on preliminary survey, the weaving process is done by women workers by themselves, starting from making the threads, coloring, and weaving. Weaving is a manual job using muscle power, the body locomotive organs, by sitting on the floor, with simple mat, and legs straight to the front.

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