ABSTRAK

Purohita, I Gusti Ayu Agung Mas (2022), Pengembangan Lembar Kerja Peserta (LKPD) Berbasis *Open Ended Problem* untuk Meningkatkan Keterampilan Proses Sains. Tesis, Program Studi S2 Pendidikan IPA, Program Pascasarjana Universitas Pendidikan Ganesha.

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Tujuan penelitian ini adalah untuk mendeskripsikan dan menjelaskan karakteristik, validitas, kepraktisan dan keefektifan LKPD *open ended problem* untuk meningkatkan keterampilan proses sains. Jenis penelitian ini adalah penelitian pengembangan dengan mengadaptasi model pengembangan Borg and Gall. Data pada penelitian ini dikumpulkan dengan teknik pemberian angket validasi, angket kepraktisan dan observasi keterampilan proses sains siswa. Hasil penelitian ini menunjukan: (1) koefisien validitas gregory untuk validitas materi mendapatkan skor 0,95 dengan kualifikasi sangat valid, untuk hasil validitas media memperoleh skor 96 dengan kualifikasi sangat valid dan hasil validitas bahasa memperoleh skor 96 dengan kualifikasi sangat valid, (2) hasil uji kepraktisan menunjukkan bahwa LKPD sangat praktis dari praktisi guru yang mendapatkan skor 85,50 (3) Hasil uji keefektivitasan menunjukkan bahwa peningkatan keterampilan proses sains siswa tergolong dalam kategori baik. Berdasarkan hasil penelitian, dapat disimpulkan bahwa (1) LKPD memiliki karakteristik sesuai dengan *open ended problem*, (2) LKPD telah memperoleh penilaian yang valid, (3) LKPD telah memperoleh penilaian yang praktis, dan (4) LKPD efektif meningkatkan keterampilan proses sains peserta didik.

Kata kunci: LKPD, *open ended problem*, keterampilan proses sains.

ABSTRACT

Purohita, I Gusti Ayu Agung Mas (2022), Development of bases Open Ended Problem Participant Worksheets (LKPD) to Improve Science Process Skills. Thesis, Science Education Masters Program, Postgraduate Program at Ganesha University of Education.

This thesis has been approved and examined by Supervisor I: Prof. Drs. I Wayan Subagia, M.App. Sc, Ph.D and Supervisor II: Prof. Dr. Ketut Suma, M.S.

The purpose of this study was to describe and explain the characteristics, validity, practicality and effectiveness of open ended problem worksheets for improving science process skills. This type of research is development research by adapting the Borg and Gall development model. Data in this study were collected using validation questionnaires, practicality questionnaires and observation of students' science process skills. The results of this study show: (1) the Gregory validity coefficient for material validity scores 0.95 with very valid qualifications, for media validity results scores 96 with very valid qualifications and language validity results obtains a score of 96 with very valid qualifications, (2) the results of the practicality test showed that the LKPD was very practical from teacher practitioners who received a score of 85.50 (3) The results of the effectiveness test showed that the improvement of students' science process skills was in the good category. Based on the research results, it can be concluded that (1) LKPD has characteristics according to open ended problems, (2) LKPD has obtained valid assessments, (3) LKPD has obtained practical assessments, and (4) LKPD is effective in improving participants' science process skills educate.

Keywords: student worksheets, open ended problem, science process skills.