

## ABSTRAK

### **Hanna Amila Hasanah: "Pengembangan Lembar Kerja Peserta Didik (LKPD) Berbasis PJBL-STEM pada Materi Pencemaran Lingkungan"**

Pendidikan di abad 21 menuntut siswa untuk dapat bersikap ilmiah yang dapat beradaptasi dengan perkembangan zaman. Pembelajaran yang terintegrasi dengan perkembangan zaman perlu diimplementasikan salah satunya dalam pembelajaran PJBL-STEM yang disajikan dalam bahan ajar, misalnya LKPD. Namun, masih kurang tersedianya LKPD berbasis PJBL-STEM. Oleh karena itu, penelitian ini bertujuan untuk mendeskripsikan langkah-langkah pengembangan, menganalisis kelayakan serta mendeskripsikan respon siswa terhadap LKPD berbasis PJBL-STEM pada materi pencemaran lingkungan. Metode penelitian yang digunakan ialah *research and development* dengan model 3D, yaitu *define, design, dan develop*. Penelitian ini dilaksanakan di MTs Persis 60 Katapang. Subjek penelitian terdiri dari tiga orang validator serta 30 orang peserta didik kelas VII B. Instrumen yang digunakan berupa lembar wawancara tidak terstruktur, lembar validasi ahli, angket uji keterbacaan, serta angket respon siswa. Hasil penelitian yang diperoleh menyatakan: 1) LKPD berbasis PJBL-STEM memperoleh nilai rata-rata validasi ahli sebesar 76,82% dengan kriteria layak, 2) LKPD berbasis PJBL-STEM memperoleh nilai rata-rata uji keterbacaan sebesar 4,4 dengan kriteria sangat layak, dan 3) LKPD berbasis PJBL-STEM memperoleh nilai rata-rata persentase respon siswa sebesar 89,197% dengan kriteria sangat baik. Kesimpulan yang dapat diperoleh dari penelitian ini ialah LKPD berbasis PJBL-STEM pada materi pencemaran lingkungan dengan sedikit perbaikan dari validasi ahli bersifat layak serta baik untuk digunakan sebagai media pembelajaran di kelas.

**Kata Kunci:** Lembar Kerja Peserta Didik, Pencemaran Lingkungan, PJBL-STEM

## **ABSTRACT**

### **Hanna Amila Hasanah: "Development of Student Worksheets Based on PJBL-STEM on Environmental Pollution Materials"**

*Education in the 21st century requires students to have a scientific attitude that can adapt to the times. Learning that is integrated with the times needs to be implemented, one of which is PJBL-STEM learning which is presented in teaching materials, for example LKPD. However, the availability of PJBL-STEM-based LKPD is still lacking. Therefore, this study aims to describe development steps, analyze feasibility and describe student responses to PJBL-STEM-based LKPD on environmental pollution material. The research method used is research and development with 3D models, namely define, design, and develop. This research was conducted at MTs Persis 60 Katapang. The research subjects consisted of three validators and 30 students of class VII B. The instruments used were unstructured interview sheets, expert validation sheets, legibility test questionnaires, and student response questionnaires. The results obtained stated: 1) PJBL-STEM based student worksheet obtained an average value of expert validation of 76.82% with appropriate criteria, 2) PJBL-STEM based student worksheet obtained an average readability test score of 4.4 with very feasible criteria, and 3) PJBL-STEM based student worksheet obtained an average value of the percentage of student responses of 89.197% with very good criteria. The conclusion that can be obtained from this research is that the PJBL-STEM-based LKPD on environmental pollution material with a slight improvement from expert validation is feasible and good for use as a learning medium in the classroom.*

**Keyword:** *Environmental Pollution, PJBL-STEM, Student Worksheet*