

**PENGEMBANGAN LEMBAR KERJA PESERTA DIDIK IPA
BERMUATAN KEARIFAN LOKAL BALI PADA MATERI GETARAN,
GELOMBANG DAN BUNYI UNTUK SISWA SMP/MTs KELAS VIII**

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ABSTRAK

Penelitian ini bertujuan mendeskripsikan karakteristik dan menganalisis kevalidan, kepraktisan, dan keterbacaan dari LKPD IPA bermuatan kearifan lokal Bali pada materi getaran, gelombang, dan bunyi untuk siswa SMP/MTs kelas VIII. Jenis penelitian ini adalah penelitian dan pengembangan (*R&D*) dengan menggunakan model pengembangan 4D dari Thiagarajan (*Define, Design, Develop, dan Disseminate*) namun, penelitian ini dibatasi hanya sampai tahap *Develop*. Subjek uji coba yang digunakan yaitu 2 orang ahli Pendidikan IPA, 5 orang guru IPA, dan 10 orang siswa kelas VIII C SMP Negeri 2 Sawan. Data yang diperoleh berupa kualitatif dan kuantitatif. Karakteristik LKPD IPA bermuatan kearifan lokal Bali yaitu (1) dikembangkan menggunakan langkah-langkah pendekatan saintifik, (2) bermuatan kearifan lokal Bali seperti ayunan yang terdapat saat upacara Usabha Sambah, gelombang air laut saat upacara melasti, dan alat musik gambelan. Tingkat kevalidan LKPD IPA bermuatan kearifan lokal Bali memperoleh kategori sangat valid dengan skor rata-rata 0,98. Tingkat kepraktisan memperoleh kategori sangat praktis dengan skor rata-rata 4,24, dan tingkat keterbacaan memperoleh kategori sangat terbaca dengan skor rata-rata 4,31. Berdasarkan hasil uji kevalidan, kepraktisan, dan keterbacaan, LKPD IPA bermuatan kearifan lokal Bali pada materi getaran, gelombang, dan bunyi dinyatakan valid, praktis, dan terbaca sehingga dapat diuji ke tahap selanjutnya yaitu uji keefektifan.

Kata kunci: LKPD IPA, Kearifan Lokal Bali, Model 4D

Abstract

The purpose of this research is to describe the characteristics and analyze the level of validity, practicality, and readability of science worksheets containing Balinese local wisdom on vibration, waves, and sound for SMP/MTs class VIII. This type of research is research and Development (R&D) using the 4D Development model from Thiagarajan (Define, Design, Develop, and Disseminate), but this research is limited to the Develop stage. The test subjects used were 2 science education experts, 5 science teachers, and 10 class VIII C students of SMPN 2 Sawan. The data obtained are in the form of qualitative and quantitative. The characteristics of the science worksheets containing Balinese local wisdom that were Developed were (1) Developed using scientific approach steps, (2) containing wisdom local Balinese materials relating to vibrations, waves, and sounds such as swings that are found during the Usabha Sambah ceremony, sea waves found during the Melasti ceremony, and the gamelan musical instrument. The validity level of science worksheets containing Balinese local wisdom is in the very valid category with an average score of 0.98. The practicality level is in the very practical category with an average score of 4.24, and the readability level is in the very legible category with an average score of 4.31. Based on the results of the validity, practicality and readability tests, the science worksheets containing Balinese local wisdom on vibration, waves and sound material was declared valid, practical and legible so that it could be tested to the next stage, namely the effectiveness test.

Keywords: Science Worksheet, Balinese Local Wisdom, 4D Model

