ABSTRAK

Muliani, Ni Ketut Dewi (2021), *Pengembangan Tes Penilaian Keterampilan Proses Sains Pada Pembelajaran IPA Siswa Kelas IV SD Gugus VIII I Gusti Ketut Pudja Kecamatan Denpasar Selatan.* Tesis, Pendidikan Dasar, Program Pascasarjana, Universitas Pendidikan Ganesha

Tesis ini sudah disetujui dan diperiksa oleh pembimbing I : Prof. Drs. Sariyasa, M.Sc.Ph.D dan Pembimbing II : Dr. I Gede Margunayasa, S.Pd., M.Pd

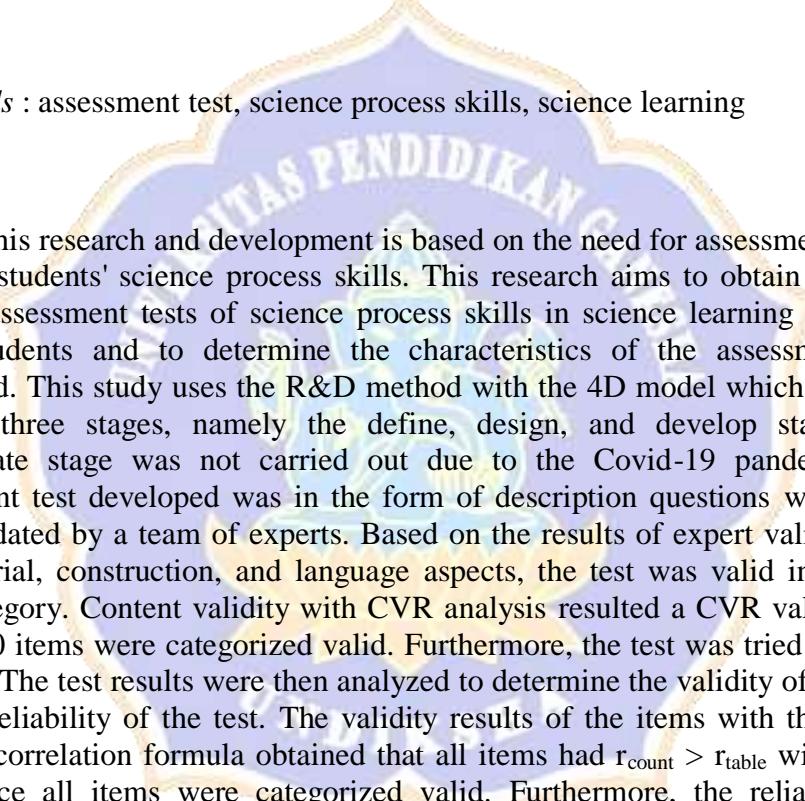*Kata-kata kunci* : tes penilaian, keterampilan proses sains, pembelajaran IPA

Penelitian dan pengembangan ini didasarkan pada kebutuhan tes penilaian untuk mengukur keterampilan proses sains siswa. Penelitian ini bertujuan untuk memperoleh tes penilaian keterampilan proses sains pada pembelajaran IPA siswa kelas IV SD yang valid dan reliabel serta untuk mengetahui karakteristik tes penilaian yang dikembangkan. Penelitian ini menggunakan metode *R&D* dengan model 4D yang dibatasi hanya menggunakan tiga tahapan yaitu tahap *define, design*, dan *develop.* Tahap *disseminate* tidak dilaksanakan karena pandemic Covid-19. Tes penilaian yang dikembangkan berbentuk soal uraian yang kemudian divalidasi oleh tim ahli. Berdasarkan hasil validasi ahli terhadap aspek materi, konstruksi, dan bahasa, tes dinyatakan valid dengan kategori sangat baik. Validitas isi dengan analisis *CVR* memperoleh nilai *CVR* = 1,00 sehingga 20 butir soal dinyatakan valid. Selanjutnya tes diujicobakan pada siswa sebanyak 50 orang. Hasil uji coba selanjutnya dianalisis untuk mengetahui validitas butir dan reliabilitas tes. Hasil validitas butir dengan rumus korelasi *product moment* memperoleh semua butir soal memiliki $r_{hitung} > r_{tabel}$ dengan r_{tabel} sebesar 0,28 sehingga semua butir soal dinyatakan valid. Hasil uji reliabilitas tes diperoleh nilai $r_{1.1}$ sebesar 0,93 berada pada kategori derajat reliabilitas sangat tinggi. Jadi tes penilaian keterampilan proses sains yang dikembangkan valid dan reliabel untuk dapat digunakan dalam mengukur keterampilan proses sains siswa.

ABSTRACT

Muliani, Ni Ketut Dewi (2021), *The Development Test of Science Skills Assessment Process at Fourth Grade of Gugus VIII I Gusti Ketut Pudja Elementary School, South Denpasar District.* Thesis, Elementary Education, Postgraduate Program, Ganesha University of Education.

This Thesis has been approved and examined by supervisor I : Prof. Drs. Sariyasa, M.Sc.Ph.D and supervisor II : Dr. I Gede Margunayasa, S.Pd., M.Pd

Key words : assessment test, science process skills, science learning

This research and development is based on the need for assessment tests to measure students' science process skills. This research aims to obtain valid and reliable assessment tests of science process skills in science learning for fourth grade students and to determine the characteristics of the assessment tests developed. This study uses the R&D method with the 4D model which is limited to only three stages, namely the define, design, and develop stages. The disseminate stage was not carried out due to the Covid-19 pandemic. The assessment test developed was in the form of description questions which were then validated by a team of experts. Based on the results of expert validation on the material, construction, and language aspects, the test was valid in the very good category. Content validity with CVR analysis resulted a CVR value = 1.00 so that 20 items were categorized valid. Furthermore, the test was tried out on 50 students. The test results were then analyzed to determine the validity of the items and the reliability of the test. The validity results of the items with the product moment correlation formula obtained that all items had $r_{count} > r_{table}$ with r_{table} of 0.28 hence all items were categorized valid. Furthermore, the reliability test results obtained $r_{1.1}$ value of 0.93 which is in the category of excellent reliability degrees. Finally, the science process skills assessment test was valid and reliable to be used in measuring students' science process skills.