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# Personal social responsibility in ecological citizenship: Dimensionality and scale measurement with Aiken Index Analysis

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#### Abstract

Personal social responsibility emphasises the importance of positively benefiting society, including the environment. Responsibility is one of the values influencing ecological citizenship so that individuals can prioritise environmental issues and realise the importance of sustainable living. This research aims to develop an instrument for personal social responsibility in ecological citizenship as a measurement scale. The instrument's contents are validated by experts (expert judgment), and the test is then performed using the Aiken-V formula. The research results show that: 1) The dimensions of personal social responsibility in ecological citizenship are determined by indicators, namely a) Have an interest in considering environmental issues and resolving environmental issues; b) Have an interest in sustainable behavior in protecting and preserving the environment; c) Have awareness in considering and resolving environmental issues; d) Have awareness of sustainable behavior in protecting and preserving the environment; e) Actively participate in considering environmental issues and resolving environmental issues; f) Actively participate in sustainable behavior in protecting and preserving the environment; g) Take collective action in considering environmental issues and resolving environmental issues; h) Take sustainable collective action in protecting and preserving the environment; 2) The results of content validation using the Aiken V coefficient show that the 60 items have a very high level of validity, because they meet the criterion index of  $0.80 < V \le 1.00$ . Further research should be able to examine public policy and develop environmental education and awareness.

Keywords: ecological citizenship; measuring scale; personal social responsibility

#### Introduction

Responsibility is one of the values that affect ecological citizenship, a concept that refers to the active participation of individuals in environmental issues and the realisation of the importance of sustainable living (Jagers & Simon, 2010; Karatekin & Uysal, 2018). Research on personal social responsibility towards the environment has several important impacts on sustainability and environmental preservation. *First,* the level of personal social responsibility

towards the environment can be used to identify the tendency of individual behaviour to be environmentally friendly or not (Eden, 1993). Second, it is crucial to understand the factors that affect behaviour change in developing indicators and metrics to measure behaviour change and awareness (Davis et al., 2017; Laura et al., 2017; Korlat et al., 2022). This understanding is key to formulating public policies that support environmental protection. *Third, it* provides insight to policymakers on the extent to which individuals feel responsible for the environment. Fourth, develop a more effective approach to conveying information and education on environmental issues to the community (Estrada-Vidal et al., 2020). Fifth, facilitating collaboration and joint action for environmental conservation (Karwacka, 2019).

Previous research related to the development of responsibility instruments was conducted by Gupta and Agrawal (2017); the results of this study conceptualised a theory of environmentally responsible consumer behaviour and developed a standard scale to measure this. In another study conducted by Davis (2017), Davis, in his research, developed the concept of personal social responsibility and developed its measurement scale. This study aims to develop an instrument of personal social responsibility in ecological citizenship. The process involves identifying the tendency of individual behaviour towards the environment, understanding the factors that affect behaviour change towards the environment, and determining environmentally friendly strategies and campaigns. It also aims to assist in formulating public policies that support the protection and environmental conservation and contribute to environmental education and awareness by developing a more effective approach in conveying information and education about environmental issues to the community.

Dimensions of personal social responsibility in ecological citizenship

Social responsibility contributes to the good based on moral and prosocial reasons (Laura et al., 2017; Orozco et al., 2015). Personal social responsibility refers to the individual's perception of the obligation to help society and the community (Ecimovic et al., 2013; Hatch & Stephen, 2015). Individuals who have social responsibility are concerned about being active and proactive in the problems that occur in society (Babutau I.C, 2014; Pacesila, 2018). Personal social responsibility emphasises the role of the individual in society and the improvement of social welfare (Gallay, 2006; Ellingsen & Johannesson, 2011; DellaVigna et al., 2012; Golob & Matej, 2021). Responsibility is one of the important dimensions of ecological citizenship (Spaargaren & Oosterveer, 2010; Gustavsson & Elander, 2013; Melo-Escrihuela, 2015; Karatekin & Uysal, 2018). Ecological citizenship explains human obligations to protect the environment (Smith & Pangsapa, 2008; Usmi& Murdiono, 2021). On the other hand, ecological citizenship is often associated with global citizenship because environmental problems have penetrated global issues (Karetekin & Uysal, 2018; Halimah & Nurul, 2020). According to Morais and Ogden (2011), one of the dimensions of global citizenship is social responsibility. Murdiono (2014) added that individuals can learn to develop an attitude of social responsibility to overcome local and global problems as an exercise effort to respect differences and build social service ethics. This dimension of social responsibility can be developed through Citizenship Education, which focuses on important issues such as global and justice, empathy and care, personal responsibility inequality interconnectedness. Based on this theory, the dimensions of personal social responsibility in ecological citizenship are determined by 16 indicators, namely a) having an interest in considering environmental problems; b) have an interest in overcoming environmental problems; c) have an interest in sustainable behaviour in protecting the environment; d) have an interest in sustainable behavior in protecting the environment; e) behavioral awareness by considering environmental problems; f) behavioral awareness in overcoming environmental problems; g) awareness of sustainable behavior in protecting the environment; h) awareness of behavior in maintaining environmental preservation; i) actively participate in considering environmental problems; j) actively participate in overcoming environmental problems; k) actively participate in sustainable behavior in protecting the environment; l) actively participate in preserving the environment; m) carry out collective action in considering

environmental problems; n) taking collective action to overcome environmental problems; o) carry out sustainable collective action in protecting the environment; p) carry out collective action in maintaining environmental preservation.

## Method

The research method uses a quantitative approach to test the hypothetical factors of the theoretical character steps.

Step 1: Define the construct and content domain

A literature review is conducted to define the construct and determine its boundaries to assign domains (Netemeyer et al., 2003). Researchers developed a scale with 16 indicators to measure personal social responsibility in ecological citizenship, as illustrated in Table 1.

Table 1. Development of indicators and items of personal social responsibility in ecological citizenship

No	Indicator	141041015	Item								
1.	Have an	MIN1	I read about the issue of climate change in the mass media								
	interest in	MIN2	I read about the issue of environmental pollution								
	considering	MIN3	I read about the contents of forest exploitation in the mass media.								
	environmental	MIN4	I read about the issue of garbage accumulation								
	issues	The intensity of this dimension is stated as follows, (1) Never, (2) Ra									
			Sometimes, (4) Often, and (5) Always.								
2.	Have an	MIN5	I discussed with colleagues regarding solutions to address climate								
	interest in		change.								
	solving	MIN6	I discussed with colleagues in overcoming environmental pollution								
	environmental	MIN7	I discussed with colleagues regarding greening efforts								
	problems		I discussed with colleagues regarding waste management efforts								
		The int	ensity of this dimension is stated as follows, (1) Never, (2) Rarely, (3)								
			Sometimes, (4) Often, and (5) Always.								
3.	Have an	MIN8	I study sustainable behavior towards climate change								
	interest in	MIN9	I study sustainable behavior in preventing environmental pollution								
	sustainable	MIN10	I study sustainable behavior in reforestation								
	behavior in	MIN11	I study sustainable behavior in waste management								
	protecting the environment	The int	ensity of this dimension is stated as follows, (1) Never, (2) Rarely, (3)								
			Sometimes, (4) Often, and (5) Always.								
4.	Have an	MIN12	I am trying to overcome climate change								
	interest in	MIN13	I am trying to prevent environmental pollution								
	preserving the environment	MIN14	I am trying to participate in the greening movement								
	environment	MIN15	I am trying to clean the environment.								
		The int	ensity of this dimension is stated as follows, (1) Never, (2) Rarely, (3)								
_	Dobovioval	VEC1	Sometimes, (4) Often, and (5) Always.								
5.	Behavioral	KES1	Throwing rubbish carelessly can cause environmental pollution.								
	awareness taking into	KES2	The use of motor vehicles can cause air pollution								
	account	KES3	Household waste can pollute water								
	environmental	KES4	Forest exploitation can cause natural disasters								
	issues	KES5	Excessive use of electronic devices can cause climate change								
		I ne int	ensity of this dimension is stated as follows, (1) Strongly disagree, (2)								
6.	Behavioral	KES6	Disagree, (3) Undecided, (4) Agree, and (5) Strongly agree.  I throw rubbish in the place provided								
0.	awareness in	KESO KES7	I use public transportation								
	addressing	KES7 KES8	I dispose of household waste in a septic tank								
	environmental	KES9	I use items made from synthetic alternative materials.								
	problems		•								
	*	KES10	I turn off electronic equipment when not in use								

The intensity of this dimension is stated as follows, (1) Never, (2) Rare Sometimes, (4) Often, and (5) Always.  7. Awareness of sustainable behavior in protecting the environment  8. Behavioral awareness in preserving the environment  8. ES16 I recycle waste into useful products  8. KES17 I take care of plants in my home environment  8. KES18 I keep the river/gutters around my home clean  8. KES19 I plant trees in my home environment  8. KES20 I use electronic products according to my needs  9. Actively participate in considering environmental issues  9. Actively PAR1 I bring a refillable water bottle on campus  9. PAR2 I turn off electrical equipment when leaving an empty classroo participate in solving environmental issues  10. Actively PAR5 I throw plastic bottles in a special plastic trash can participate in solving environmental problems  11. Levental in the distance is close conditioner in the classroom as needed participate in solving environmental problems  12. Actively PAR4 I bring my own shopping bag when shopping and the classroom as needed participate in solving environmental problems  13. The intensity of this dimension is stated as follows, (1) Never, (2) Rare Sometimes, (4) Often, and (5) Always.	y, (3)
Sometimes, (4) Often, and (5) Always.  7. Awareness of sustainable behavior in protecting the environment KES13 I use environmentally friendly household products protecting the environment KES14 I use products with an ecological label (Eco Label) (ES15 I use energy-efficient electronic products The intensity of this dimension is stated as follows, (1) Never, (2) Rare Sometimes, (4) Often, and (5) Always.  8. Behavioral awareness in preserving the environment KES16 I recycle waste into useful products awareness in kES17 I take care of plants in my home environment KES18 I keep the river/gutters around my home clean environment KES20 I use electronic products according to my needs The intensity of this dimension is stated as follows, (1) Never, (2) Rare Sometimes, (4) Often, and (5) Always.  9. Actively PAR1 I bring a refillable water bottle on campus participate in considering environmental issues  PAR4 I bring my own shopping bag when shopping  10. Actively PAR5 I throw plastic bottles in a special plastic trash can participate in solving environmental problems  PAR6 I turn on the air conditioner in the classroom as needed ruse recyclable shopping bags  The intensity of this dimension is stated as follows, (1) Never, (2) Rare solving environmental ruse the services of a garbage collector PAR8 I use recyclable shopping bags  The intensity of this dimension is stated as follows, (1) Never, (2) Rare solving environmental problems  PAR7 I use the services of a garbage collector PAR8 I use recyclable shopping bags  The intensity of this dimension is stated as follows, (1) Never, (2) Rare solving environmental problems	y, (0)
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sustainable behavior in protecting the environment  Behavior in protecting the environment  Exercised Behavior in preserving the environment  Exercised Behavior in products according to my needs  The intensity of this dimension is stated as follows, (1) Never, (2) Rare Sometimes, (4) Often, and (5) Always.  PAR1 I bring a refillable water bottle on campus  PAR2 I turn off electrical equipment when leaving an empty classroor environmental issues  PAR3 I prohibit people from throwing garbage into the gutter  PAR4 I bring my own shopping bag when shopping  10. Actively participate in solving environmental problems  PAR5 I turn on the air conditioner in the classroom as needed  Exercised I use recyclable shopping bags  The intensity of this dimension is stated as follows, (1) Never, (2) Rare	
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The intensity of this differsion is stated as follows, (1) Never, (2) Rate	
Sometimes, (4) Often, and (5) Always.	y, (3)
11. Actively PAR9 I use the water refill facilities provided on campus participate in PAR10 I encourage the campus to create regulations for using electric participate.	<b>.</b>
participate in PAR10 I encourage the campus to create regulations for using election sustainable devices	tronic
behavior in PAR11 I encourage the local government to provide waste manag	omont
protecting the facilities	JIIICIIC
environment PAR12 I support the paid plastic program.	
The intensity of this dimension is stated as follows, (1) Never, (2) Rare	v. (3)
Sometimes, (4) Often, and (5) Always.	<i>y</i> , ( <i>o</i> )
12. Actively PAR13 I participated in cleaning up trash around the campus.	
participate in PAR14 I participated in an energy saving program on campus.	
preserving the PAR15 I participated in cleaning the gutters in the surrounding area.	
environment PAR16 I reduce the use of plastic-based items	
The intensity of this dimension is stated as follows, (1) Never, (2) Rare	y, (3)
Sometimes, (4) Often, and (5) Always.	
13. Taking KOL1 I spread information about greening through social media	
collective KOL2 I run campaigns through social media to raise awareness	about
action in environmental issues.	
considering The intensity of this dimension is stated as follows, (1) Never, (2) Rare	y, (3)
environmental Sometimes, (4) Often, and (5) Always.	
issues 14. Taking KOL3 I donate to environmental organizations that support reforesta	tion
14. Taking KOL3 I donate to environmental organizations that support reforestations collective KOL4 I take part in environmental campaign activities	uull.
action to The intensity of this dimension is stated as follows, (1) Never, (2) Rare	v (3)
address Sometimes, (4) Often, and (5) Always.	y, (J)
environmental	
problems	

No	Indicator	Item								
15.	Taking	KOL5 I join a community that works on greening efforts								
	sustainable	KOL6 I buy goods from companies that donate their profits to protecting								
	collective	the environment								
	action in	The intensity of this dimension is stated as follows, (1) Never, (2) Rarely, (3								
	protecting the	Sometimes, (4) Often, and (5) Always.								
	environment									
16.	Taking	KOL7 I donate plant material for reforestation in the city park.								
	collective	KOL8 I donate to crowdfunding platforms that support environmental								
	action to	conservation projects.								
	preserve the	The intensity of this dimension is stated as follows, (1) Never, (2) Rarely, (3)								
	environment	Sometimes, (4) Often, and (5) Always.								

Step 2: Content validity test (expert judgement)

The research instrument was validated by experts or experts in their fields so that expert judgment as an instrument validator (Salkind, 2018). The validators consisted of five people, namely two experts in the environmental field, one expert in the field of character education, one expert in the field of Citizenship Education, and one expert in the field of evaluation and education assessment.

Table 2. *Instrument Assessment Aspects* 

		msu ument Assessment Aspects							
No	Aspects	Aspects Reviewed Reviewed							
1.	Material	Statement conformity with the formulation of item indicators, aspect indicators and attitude aspects							
2.	•								
		Sentences are free from statements that are not relevant to the object in question or sentences are only necessary statements							
	Language	Sentences are free from statements that may be left blank by almost all respondents							
3.	Material	Communicative language and in accordance with the level of education of students or respondents Statements use standard Indonesian							
		Use of language does not give rise to multiple interpretations							

Step 3: Content validity test (Aiken's Formula)

The data obtained after conducting the content validity test by expert judgment is then analysed using the Aiken-V formula to determine the content validity value of the instrument that has been developed. Aiken (1980). formulated the Aiken-V formula to calculate the content validity coefficient based on the results of an expert panel consisting of n people who evaluate the extent to which an item substitutes the calculated construct. The formula proposed by Aiken are:

$V = \sum sn$	Information:	lo = the lowest validity assessment
(c-1)	V = item validity index	number (e.g. 1)
	s= r-lo	r = the number given by an assessor
	$\sum s = s1 + s2 + dst$	
	n = number of raters	
	c = the highest validity assessment	
	number (eg 5)	

Furthermore, to interpret the content validity value obtained from the calculation above, the validity clarification shown below is used:  $0.80 < V \le 1.00$ : Very high;  $0.60 < V \le 0.80$ : High;  $0.40 < V \le 0.60$ : Sufficient;  $0.20 < V \le 0.40$ : Low;  $0.00 < V \le 0.20$ : Very low. Guidelines for interpreting good content validity results, for a good Aiken formula calculation index is  $\ge 0.70$ , if it is less than 0.70 then the content validity is not good (Sireci, S. G. & Geisinger, K. F, 1995).

# **Results and Discussion**

The measurement instrument for personal social responsibility in ecological citizenship, with a total of 60 items, was developed based on 16 indicators of the dimensions of personal social responsibility in ecological citizenship, which was then tested for validity. According to Azwar (2019), the validity test of the measurement scale is used to assess a scale with high validity in research. The initial stage of content validity testing is carried out through a qualitative process of experts reviewing items (expert judgment). Expert notes on the instrument for personal social responsibility in ecological citizenship, include: 1) additional topics are needed regarding the hydrosphere, such as water use (efficient or wasteful); 2) additional information is needed about land, for example not dumping toxic substances or hazardous substances in the soil; 3) environmental aspects related to interests that can be carried out are arranged in detail and more explicitly related to climate, soil, water, and plants or forests; 4) behavior is divided according to its role in reducing or overcoming air, soil, water, and noise pollution; 5) awareness in fostering concern for the abiotic, biotic, and cultural environment; 6) active participation is divided according to each task in taking action on the environment (abiotic, biotic, cultural); 7) related to collective awareness, it can be done in stages on a micro, meso, and macro scale; 8) there are several improvements both in terms of content and editorial; 9) there are several spelling and grammatical errors that must be observed and corrected; 10) the intensity of the dimensions is better expressed with 4 scales, 1) never; 2) rarely; 3) often; and 4) always.

Azwar (2019) explained that the alignment of the items used to measure the scale cannot be based solely on the item writer himself but requires an assessment agreement from competent assessors (expert judgment). This meticulous assessment process, as Santoso & Widiana (2022) added, involves obtaining a value for each item according to the indicators in each item and recommendations if there are suggestions for improvement. The assessment results, which experts on each item carried out, demonstrate the instrument's reliability. Of the 60 items developed, the lowest score was on a scale of 3, indicating that the statement item is good with slight revisions. The assessment results of the five experts were then tabulated in Excel format to assess valid criteria based on Aiken's V formula, with the following detailed results.

Table 3.
Results of personal social responsibility instruments in ecological citizenship with Aiken's V formula

Item	Code		Assessor				S1	S2	S3	S4	S5	∑s	n (c-1)	V	Description
	I II III IV		V												
Item -1	MIN1	4	4	3	4	4	3	3	2	3	3	14	15	0,93	Very high
Item -2	MIN2	3	4	4	4	3	2	3	3	3	2	13	15	0,87	Very high
Item -3	MIN3	4	4	3	4	4	3	3	2	3	3	14	15	0,93	Very high
Item -4	MIN4	3	4	4	4	3	2	3	3	3	2	13	15	0,87	Very high
Item -5	MIN5	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -6	MIN6	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -7	MIN7	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -8	MIN8	4	4	3	4	4	3	3	2	3	3	14	15	0,93	Very high
Item -9	MIN9	4	4	4	3	4	3	3	3	2	3	14	15	0,93	Very high
Item -10	MIN10	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -11	MIN11	4	4	4	3	4	3	3	3	2	3	14	15	0,93	Very high
Item -12	MIN12	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -13	MIN13	4	4	4	3	4	3	3	3	2	3	14	15	0,93	Very high
Item -14	MIN14	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -15	MIN15	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high

Item	Code		Assessor		sor		S1	S2	S3	S4	S5	Σs	n (c-1)	V	Description
		I	II	III	IV	V									
Item -16	MIN16	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -17	KES1	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -18	KES2	4	4	4	3	4	3	3	3	2	3	14	15	0,93	Very high
Item -19	KES3	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -20	KES4	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -21	KES5	4	4	4	3	4	3	3	3	2	3	14	15	0,93	Very high
Item -22	KES6	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -23	KES7	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -24	KES8	4	4	3	4	4	3	3	2	3	3	14	15	0,93	Very high
Item -25	KES9	3	4	4	4	3	2	3	3	3	2	13	15	0,87	Very high
Item -26	KES10	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -27	KES11	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -28	KES12	4	4	3	4	4	3	3	2	3	3	14	15	0,93	Very high
Item -29	KES13	3	4	4	4	3	2	3	3	3	2	13	15	0,87	Very high
Item -30	KES14	4	4	3	4	4	3	3	2	3	3	14	15	0,93	Very high
Item -31	KES15	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -32	KES16	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -33	KES17	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -34	KES18	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -35	KES19	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -36	KES20	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -37	PAR1	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -38	PAR2	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -39	PAR3	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -40	PAR4	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -41	PAR5	4	4	3	4	4	3	3	2	3	3	14	15	0,93	Very high
Item -42	PAR6	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -43	PAR7	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -44	PAR8	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -45	PAR9	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -46	PAR10	3	4	4	4	3	2	3	3	3	2	13	15	0,87	Very high
Item -47	PAR11	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -48	PAR12	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -49	PAR13	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -50	PAR14	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -51	PAR15	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -52	PAR16	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -53	KOL1	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -54	KOL2	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -55	KOL3	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -56	KOL4	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -57	KOL5	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -58	KOL6	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high
Item -59	KOL7	4	4	4	4	4	3	3	3	3	3	15	15	1,00	Very high

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Item	Code	Assessor					S1	S2	S3	S4	S5	∑s	n (c-1)	V	Description
		I	II	III	IV	V									
Item -60	KOL8	3	4	4	4	3	2	3	3	3	2	13	15	0,87	Very high

The results of the interpretation of the validity value of the content obtained from the calculation in Table 3 are clarified according to the following criteria index:  $0.80 < V \le 1.00$ : Very high; 0.60 < V ≤ 0.80: High; 0.40 < V ≤ 0.60: Enough; 0.20 < V ≤ 0.40: Low; 0.00 < V ≤ 0.600.20: Very low. According to (Sireci & Geisinger, 1995), the guideline for interpreting the results of the validity of good content for the index of the calculation results of a good Aiken formula is  $\geq$  0.70; if it is less than 0.70, then the validity of the content is not good. Based on the index of these criteria, the results of the interpretation of the validity value of the content of the social responsibility instrument as an individual in ecological citizenship all items have a very high level of validity because they meet the criteria index of  $0.80 < V \le 1.00$  with the following value distribution. Instrument items with codes MIN2; MIN4; KES9; KES13; PAR10; KOL8 get an index of 0.87, instruments with codes MIN1; MIN3; MIN8; MIN9; MIN11; MIN13; KES2; KES5; KES8; KES12; KES14; PAR5 get an index of 0.93, and instruments with codes MIN5; MIN6; MIN7; MIN10; MIN12; MIN14; MIN15; MIN16; KES1; KES3; KES4; KES6; KES7; KES10; KES11; KES15; KES16; KES17; KES18; KES19; KES20; PAR1; PAR2; PAR3; PAR4; PAR6; PAR7; PAR8; PAR9; PAR11; PAR12; PAR13; PAR14; PAR15; PAR16; KOL1; KOL2; KOL3; KOL4; KOL5; KOL6; KOL7 got an index of 1. Furthermore, to see the level of validity of the instrument content as a whole, the researcher calculated it using the Aikens formula as follows.

Table 4. Results of Personal Social Responsibility Instruments in Ecological Citizenship with Aiken's V Formula

Item	Co de	I	Ev II	aluati III	on IV	V	S1	S2	S3	S4	S5	Σs	n (c- 1)	V	Infor- matio n
Item 1-60		234	240	233	235	234	174	180	173	175	174	876	900	0,97	High

Based on Table 4, it can be interpreted that all items with a total of 60 meet the very high criteria with an index of 0.97. It can be interpreted that the 60 items of the personal social responsibility instrument in ecological citizenship can be used further in limited testing because they have met the valid category elements.

## Conclusion

Social responsibility attitude to address local and global issues as an effort to practice respecting differences and building social service ethics. The dimensions of personal social responsibility can be developed through Citizenship Education, which focuses on important issues such as global inequality and justice, empathy and care, and global interconnectedness. The dimensions developed based on a literature study on personal social responsibility in ecological citizenship was developed as a measurement scale with 16 indicators as follows: a) having an interest in considering environmental issues; b) having an interest in overcoming environmental issues; c) having an interest in sustainable behavior in protecting the environment; d) having an interest in sustainable behavior in protecting the environment; e) awareness of behavior by considering environmental issues; f) awareness of behavior in overcoming environmental issues; g) awareness of sustainable behavior in protecting the environment; h) awareness of behavior in preserving the environment; i) actively participating in considering environmental issues; j) actively participating in overcoming environmental issues; k) actively participating in sustainable behavior in protecting the environment; l) actively participating in preserving the environment; m) taking collective action in considering environmental issues; n) taking collective action in overcoming environmental problems; o) taking sustainable collective action in protecting the environment; p) taking collective action in preserving the environment. These indicators are then used to compile an instrument

measuring personal social responsibility in ecological citizenship with 60 items. The instrument is then tested for content validity by experts (expert judgment) qualitatively based on three aspects (Material, construction, and language). After going through a qualitative review process by experts, the instrument items are then calculated using the Aiken V formula, which shows the results that the interpretation of the content validity value of the personal social responsibility instrument in ecological citizenship all its items have a very high level of validity because they meet the criteria index of  $0.80 < V \le 1.00$ .

Further research must delve into public policies that support environmental protection and preservation and encourage better behavioural changes. Additionally, there is a pressing need for research to develop environmental education and awareness by devising a more practical approach to disseminating information and education about environmental issues to the public. These areas hold significant potential for future development and can significantly contribute to advancing personal social responsibility and ecological citizenship.

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