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4553 **status of the** province. Based on Aceh Government Law Number 11 of 2006, Aceh Province is a Special Autonomous Region in Indonesia, where the central government has launched large financial transfers to the Aceh government, while the funds have not boosted economic development. In 2018, the economic growth rate was 4.61%, with direct expenditures of Rp. 10.95 trillion and indirect expenditures of Rp. 4.14 trillion, and in 2019, economic growth decreased to 4.14%, with direct expenditures of Rp. IDR 17.11 trillion and indirect expenditures of IDR 6.62 trillion. Due to this situation, there was a decrease in **economic growth in** 2020 by 0.37%, from direct expenditures of Rp. 17.28 trillion and indirect expenditure **as much as** Rp. 7.57 trillion (Aceh Dalam Angka, 2018-2020). It is following the research of Bekmann et al. (2014) in their study for the case of 11 nations in OECD countries and developing countries, in the period 1971-2010, which found that government spending can increase economic growth, but the effect was higher on increasing economic growth of state institutions. The takeover by the Aceh Provincial government to encourage economic development through government spending has still **not been able to** improve people's welfare. **The number of poor people in** 2018 was 15.68% and decreased in 2019 by 15.01%, and increased again in 2020 to 15.43% (**Central Bureau of Statistics** in Aceh, 2018-2020). It was because **the planning and the use of** government expenditures had not been on target. **In line with** the research in Kenya and Nigeria that government expenditures in **the public sector** did not support economic growth (Nurudeen & Usman, 2010; Mudaki & Masaviru, 2012). Also, Al-Shatti (2014) pointed out that there was **an insignificant effect** of government expenditures **on economic growth, as well as** research by Widodo et al. (2011) there was no significant effect of government expenditures from the public sector on reducing poverty levels in Central Java. 2. Literature review 2.1 Historical review There was a relationship between direct and indirect expenditures with economic growth, as stated by Adolph Wagner (1835-1917). There was a functional relationship **of economic growth with** government expenditures **in**

the short term and continued to the functional relationship in the long run (Wagner, 1911).

Wagner's law aimed to improve the public sector in a modern progressive government and was not affected by public expenditures quantitatively in a fixed time. According to the historical experience of Wagner's study that from period to period, public expenditures continued to increase beyond prediction. Usman et al. (2011) proved empirically that various levels of government had the same tendency to increase expenditures but showed different growth rates. According to Keynesians, the government should intervene to

improve the International Journal of Social Science and Economic Research ISSN:

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4554 economy by increasing government expenditures so that the money supply increases

to have goods and services, thereby increasing aggregate demand in expanding

macroeconomic development. Huang, (2006) follows the Keynesian opinion that public

expenditures can stabilize fluctuations in aggregate expenditure in the short term and

increase economic activities. It follows empirical testing by Omoke (2009), who found that

government expenditures can improve economic growth. According to classical

economists, there was an inverse relationship from the Keynesian view, where government

expenditures did not cause economic growth. Moreover, classical economics found that

national output would not increase with government expenditures, and it was only a

destabilizing force, not a driving force for economic development. Classical economists

argued that the increase in income was not due to government expenditures, where

government expenditure was a substitute for private business only (Froyen, 2008).

Furthermore, classical economics suggested that no causal relationship between

government expenditures and economic growth in a country's long run. Classical

economists said that the state must allow economic activity to grow on its own, and if the

government intervenes, this will hamper economic growth because of producing small

output. 2.2 Theory of economic growth Various schools of economics have described the

theory of economic growth, which indicated that economic growth occurs due to the

increase in capital accumulation in the economy. Todaro (2010) suggested that the way to accelerate economic growth is by increasing savings, which will increase capital and expand investment. Classical economic income is economic growth caused by population, availability of capital goods, agricultural land, and human resources and technology. Furthermore, the classical view based on the law is decreasing where the increases in output will affect economic growth (Arpaia & Turrini 2008; Clude & Clude. 2013). The neoclassical economic growth theory developed by Robert Solow and Trevor Swan indicated that economic growth was caused by an increase in factors that affect aggregate supply. The neoclassical theory states that trade is the main factor in increasing economic growth because a country's output increases and can also exploit scarce resources and international markets to increase exports. The neo-Keynesian economic growth theory developed by HorrodDomar suggested that investment in increasing capital was needed to increase economic growth (Martin, 2009). The Horrod-Domar model assumed a constant return to scale on the relationship between investment and economic growth (Todaro, 2010). Furthermore, investment is the key to International Journal of Social Science and Economic Research ISSN: 2455-8834 Volume:06, Issue:12 "December

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4555 increasing economic growth because investment can create income and increase production capacity by increasing capital stock. 2.3 Government expenditure Within a country, government expenditures function to stabilize prices, output levels, and employment. Thus, government expenditure is the controller of fiscal policy in the economy (Lozides & Vamvoukas, 2005; Jiranyakul & Brahmaserene, 2007; Jiranyakul, 2007). The size of government expenditure depends on the number of economic activities carried out by the government. To regulate government intervention is to increase development expenditure through government expenditure so that the pace of the economy will be accelerated (Kusuma, 2016). The addition of physical capital in basic infrastructures and public facilities and services can increase economic growth and obtain community welfare (Sukirno, 2013; Rosen, 2014). There is a relationship between fiscal policy and controlling

government expenditure, and the improvement of a country's economy is very diverse (Peltzman, 2016). Also, the role of fiscal policy in increasing economic growth in the long term to the country's macroeconomic activities is an endogenous growth model (Papas et al., 2015). Government activities to buy goods and services are costs that must be incurred in connection with the policies made by the government (Alshaharani et al., 2014; Maipita, 2020). Spending in the budget can affect the economy and investment in the long run (Romero-Avliá & Strauch, 2008). Furthermore, the research finding of Zulfan & Maulana (2019) also pointed out that government expenditure has a significant impact on economic growth.

#### 2.4 Empirical evidence

Various empirical evidence has investigated the relationship between government expenditure and economic growth. A study conducted by Ram (2006) found a positive relationship between government expenditure and economic growth. Furthermore, Loto (2011) found a positive and significant relationship between investment and economic growth in expenditure, especially public expenditure in the form of disaggregated capital infrastructure. In this case, the influence of public expenditure on economic growth varies widely, and infrastructure positively and significantly influenced economic growth. Chipaumire et al. (2014) revealed that government expenditure was significantly and negatively related to economic growth. Ebong et al. (2016) noted that in the long term, capital expenditures consisting of expenditures on education and economic infrastructure positively and significantly influenced economic growth. In the long term, expenditure on agriculture and health did not affect economic growth. In the short term, capital expenditures from education and infrastructure capital expenditure significantly

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4556 influenced economic growth, while capital expenditures for agriculture, economic infrastructure, and health did not influence economic growth in the short term. Kunwar

(2019) found that in the long term, lag 1 GRDP was significant from the added value of

GRDP in Nepal. The coefficient (-0.782018) means 1%, the increase in GRDP lag 1 caused a

decrease in GRDP by 78.20%. LNGE lag 1 was significant and positive for GRDP, where a 1 percent increase in GE can increase GRDP by 34.99 percent. In the short term, LNGE had a significant positive effect on LNGDP, which indicated that the 1% increase in GE could increase the GRDP of Nepal by 27.18%. The study by Tambunan & Jakaria (2019) found that in the short term, personnel expenditure significantly and positively influenced Gross Domestic Product (GDP), where personnel expenditure had a direct impact on GDP. Capital expenditure had a negative and significant effect on GDP at lag 1. Goods expenditure had a significant and positive effect on GDP, where an increase in goods expenditure can increase GDP in the same period. In the long term, personnel expenditures had a significant positive effect on GDP, while capital expenditures had a significant and negative effect on GDP, where the expenditure model caused GDP to decrease by 10.26 billion. Goods Expenditure did not significantly affect GDP, however, towards a negative influence. Joshua (2019) found that government expenditure significantly affected economic growth in Nigeria both for the short and the long term, wherein the short term, government expenditure affected economic growth by 29%, while in the long term was 96%. Kolapo et al. (2021) found that in the short term, government expenditure influenced economic growth significantly. Specifically, capital expenditure negatively affected economic growth. In the short term, routine and total expenditures positively affected economic growth. In the long term, routine and capital expenditure significantly and negatively influenced economic growth, while total government expenditure and external debt positively influenced economic growth. Besides, routine expenditure did not significantly affect economic growth in the long run.

### 3. Data and methodology

This study used time-series data during 1986-2020 sourced from Aceh Dalam Angka issued by the Central Bureau of Statistics Agency of Aceh Province and the Regional Planning and Development Agency (BAPPEDA) of Aceh Province. Autoregressive Distribution lag (ARDL) applied to examine the effect of direct and indirect expenditures and economic growth. This model consists of AR, namely Autoregressive (AR), by analyzing some past data on the dependent variable, and Distributed Lag (DL) is a regression that examines the effect of current data with data

in the past on the independent variables (Gujarati & Porter, 2009). There are several criteria used to determine the optimum lag, namely Likelihood Ratio (LR), Final International Journal of Social Science and Economic Research ISSN: 2455-8834 Volume:06, Issue:12 "December 2021" www.ijsser.org Copyright © IJSSER 2021, All rights reserved Page 4557 Prediction Error (FPE), Akaike Information Criterion (AIC), Schwartz Information Criterion (SIC), Hanna-Quinn Information Criterion (HQ). Stationery Tests Chor & Md. Darit, (2015) stated that the stationary test of the Philips-Perron model is more suitable when using the Autoregressive Distributed Lag (ARDL) model, where there is stationery for each variable studied in First Difference. The hypotheses based on the data for the stationary test were: H0 = Data had a unit root test (not stationary data) H1 = Data did not have unit root test (data stationery) If the value of  $|t| >$  absolute value of the critical value of Mackinnon, which rejects H<sub>0</sub>, then the data is stationary because it does not contain a unit root. If there is non-stationary data at the level I(0), then it can be done so that the data is stationary through first difference I(1), or second difference I(2), and then to get stationary data. Cointegration Bound Tests To estimate using the ARDL model, a Bound Test was first integrated to see the long-term relationship between the variables. The bound test hypothesis used the F-test approach by comparing the F-statistical value with the F-table value (Pesaran & Shin, 2001), namely: H0 =  $\alpha_1 = \alpha_2 = \dots = \alpha_n = 0$  : there was no long term relationship H0=  $\alpha_1 \quad \alpha_2 \quad \alpha_n \quad 0$  : there was a long term relationship In the results of the bound test, if the upper critical value I(1) is higher than the F-statistic value obtained, then H0 will be rejected, which indicates a long-term relationship in the model or cointegration occurs. On the other hand, if the F-statistical value is lower than the lower critical value I (0), it will accept H0, which means no long-term relationship between the variables studied in the model. Furthermore, if the F-statistical value is between the upper and lower critical values, the results cannot be concluded. In general, the ARDL model in the long-term equation can be written as follows:

$$\ln GRAt = \alpha_0 + \alpha_1 t + a_i + \ln GRAt-1 + \alpha_2 \ln ICt-1 + \alpha_3 \ln UICT-1 + \alpha_4 + \epsilon_t$$



Page 4558 Where: InGRA = Economic Growth InIC = Direct Expenditure InUIC = Indirect Expenditure  $\alpha$  = Long-term Dynamic Coefficient  $\epsilon$  = Standar error The ARDL

model is a dynamic model in econometric analysis that cannot only see the long-term effects between the variables but also short-term effects. Also, it could estimate the effect of the dependent and independent variables from time to time, including the dependent variable effects on the past to the present. 4. Result and Discussion The results of the unit

root test research using the Philip Peron method of Economic Growth, direct and direct expenditures using data from 1986 to 2020 can be seen in the table below: Table 1. Unit

Root Tests of Philip Peron Model Variables	Unit Root Tests	PP Test Statistics	Critical Value	Explanation
logGRA Level I (0)	-0.593719	-2.951125	-2.951125	Not Stationary First Different I(I)
InIc Level I (0)	-0.501172	-2.951125	-2.951125	Not Stationary First Different I(I)
InUIC Level I(0)	-0.070412	-2.951125	-2.951125	Not Stationary First Different I (I)
Mark***(**)*	-7.230488	-2.954021	-2.954021	Stationary

and significant at 1%, 5% and 10%. The test results of the Philip Peron method in table 1 showed that economic growth (logGRA), direct expenditure (logIC), and indirect expenditure (log UIC) occurred stationary in the first different I(I) at a significant level of 5%,

which indicated that qualified to use the ARDL model. Table 2. Optimum Lag Test Results

Lag	LogL	LR	FPE	AIC	SC	HQ
0	-108.3383	NA	0.211204	6.958641	7.096054	7.004189
1	-18.48505	157.2431	0.001354	1.905316	2.454967*	2.087510
2	-7.177909	17.66741*	0.001092*	1.761119	2.723009	2.079958*
3	3.933571	15.27829	0.001193	1.629152*	3.003279	2.084636

Source: Data analysis results International Journal of Social Science and Economic Research ISSN: 2455-8834 Volume:06, Issue:12 "December

4559 The optimum lag test results in table 2 showed that lag 1 was only based on the Schwarz Information Criterion (SC) criteria. In lag 2, there were the Likelihood Ratio (LR),

Final Prediction Error (FPE) criteria, and Hannan-Quinn Information Criterion (HQ).

Meanwhile, in lag 3, there were the Akaike Information Criterion (AIC) criteria, then the reaction between the three variables occurred in the next 2 (two) years. It indicated direct expenditures (IC) and indirect expenditure (UIC) affected economic growth (GRA) at lag 2.

Furthermore, the cointegration test (bound test) aims to obtain a long-term equilibrium relationship in the ARDL equation. The Bound Test with the ARDL model can be seen in

the following table: Table 3. Cointegration Bound Tests Statistics Tests Values K F-Statistic 6.325812 2 Critical Value Bounds Significances I (0) I (1) 10 % 2.63 3.35 5% 3.1 3.87 2.5 % 3.55 4.38 1 % 4.13 5 Source: Data analysis results. The results of the cointegration Bound

Test in table 3 showed the f-statistical value = 6.325812, the value of I(0) Bounds at significant levels of 1%, 5%, 2.5%, and 10%. It concluded that there was cointegration in economic growth (GRA), direct expenditure (IC), and indirect expenditure (UIC) in the model tested, which showed a balance of short and long-term relationships in the three (3) variables in the study.

Table 4. Short-term Estimation Results Variables Coefficient Std. Error t-Statistics Prob.\* C -2.610440 0.957347 -2.726743 0.0115 lnGRA(-1) 0.300067 0.146183 2.052678 0.0507 lnIC -0.047964 0.109149 -0.439440 0.6641 lnIC(-1) 0.379159 0.163408 2.320321 0.0288 lnIC(-2) -0.153720 0.104286 -1.474022 0.1530 lnUIC -0.036589 0.148262 -0.246790 0.8071 lnUIC(-1) -0.149891 0.193315 -0.775370 0.4454 lnUIC(-2) 0.541626 0.181884 2.977863 0.0064 CointEq(-1)\* -0.699933 0.131480 -5.323498 0.0000 Mark\*\*\*(\*\*)\* Rejected Ho and significant at 1%, 5% and 10%. International Journal of

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4560 Table 4 showed that in the short term, economic growth lag 1 positively and significantly influenced economic growth in Aceh Province, where an increase in lag 1 of economic growth by 1% can increase economic growth by 30%. Direct expenditures (development expenditures) also positively and significantly influenced economic growth in lag 1, where the 1% increase in direct expenditures in lag 1 increases economic growth by 37.92%. Furthermore, also in the short term, indirect expenditure (personnel expenditure)

in lag 2 affected economic growth by 54.1% in the direction of a positive coefficient. It is in line with the study by Joshua (2019) that government expenditure significantly and positively affected economic growth in Nigeria by 29%. Also in line with Kunwar (2019) in Nepal, wherein in the short term, LNGE (government expenditure) significantly and positively influenced LNGDP, meaning that a 1% increase in GE can increase GRDP in Nepal by 27.18%. Tambunan & Jakaria (2019) found that short-term personnel expenditures significantly and positively influenced Gross Domestic Products (GDP). Capital expenditures significantly and negatively influenced GDP at lag 1, and goods expenditures significantly and positively influenced GDP, where an increase in goods expenditures can increase GDP in the same period. The ECT/CointEq coefficient was (-0.6999) and significant at 1%. The coefficient value was negative, where the error correction value indicated a long-term relationship between the variables. It showed that the speed of adjustment from the previous year's imbalance to GRDP and the current year's balance was 69.99%. Table 5.

Long-term Estimation Results	Variables	Coefficient	Std. Error	t-Statistic	Prob. >  t
InIC	0.253559	0.073840	3.433918	0.0021	
InUIC	0.507399	0.103750	4.890595	0.0032	

0.103750 4.890595 0.0032 Mark\*\*\*(\*\*)\* Rejects Ho and indicates significant at 1%, 5% and 10%. Table 5 showed the estimation result in the long term, and indicated that personnel expenditure or development expenditure significantly and positively affected economic growth, where the 1% increase in direct expenditures can increase economic growth by 25, 35%. Furthermore, indirect expenditures and recurrent expenditure also significantly and positively influenced economic growth, meaning that 1% growth in indirect expenditures can increase economic growth by 50.73%. It was contrary to the research by Kolapo et al.

(2021) in Nigeria, wherein the long-term capital expenditures and recurrent (routine) expenditures significantly and negatively affected economic growth. However, the results of research by Tambunan & Jakaria (2021) showed that in the long term, indirect expenditure or personnel expenditure significantly

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4561 and positively affected economic growth, while direct expenditure or capital expenditure (development) had a significant and negative effect on economic growth. 5. Conclusion 7In the short term, the increase in economic growth in Aceh Province depends on the movement of economic growth in the previous period. Direct expenditures or development expenditures can 1increase economic growth, where development expenditures can expand business on productive economic activities supported by improvements in facilities and infrastructure built previously. However, indirect (routine) expenditures that stimulate economic growth moves slowly because the consumption of government employees to various community business activities in Aceh province was only 60%, and 5the rest of the government employees shop outside the region. 2In the long term, both direct or development expenditures and indirect (routine) expenditures simultaneously increased economic development in Aceh Province. In fact, the government expenditures have 3not been able to fully stimulate the economic welfare of the community due to the continuous flight of funds/consumption expenditures and investment throughout the analysis years. Besides, 7there is no blueprint for distributing development expenditure for the long term, so that the distribution is not entirely appropriate to stimulate profitable economic sectors. References Al-Shatti, A. S. (2014). 5The Impact of Public Expenditures on Economic Growth in Jordan. *International Journal of Economics and Finance*, 6(10), 157–167. <https://doi.org/10.5539/ijef.v6n10p157> Alshahrani, S. A., Alsadiq, A. J., Alshahrani, S., & Alsadiq, A. (2014). Economic Growth and Government Spending in Saudi Arabia: an Empirical Investigation. IMF Working Paper, Fiscal Affairs Department. Amri, K. (2020). Kebijakan fiscal dan pertumbuhan ekonomi daerah: Bukti data panel di Indonesia. *Al-Masharif: Jurnal Ilmu Ekonomi dan Keislaman* 8 (1), 1-18. Amri, K., & Aimon, H. (2017). Pengaruh pembentukan modal dan ekspor terhadap pertumbuhan ekonomi Indonesia. *Economac: Jurnal Ilmiah Ilmu Ekonomi*, 1 (1), 1-16. Arpaia, A & Turrini, A (2008), Government expenditure and economic growth in the EU: longrun tendencies and short-term adjustment, *Economic Papers* 300, Belgium: European Commission Directorate-General for Economic and Financial Affairs. 3International Journal of Social Science and

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