Comparative Analysis of Cost Flow Assumptions and the Merchandise Inventory Recording System at UD Agung Pratama

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ABSTRACT

This study aims to analyze the comparison of calculations between the assumption of cost flows and the system of recording merchandise inventory in UD Agung Pratama. This study uses quantitative and descriptive methods to analyze merchandise inventory data from 2019–2020. This research analysis technique uses FIFO and average methods through periodic and perpetual inventory system analysis. The results of this study prove that the calculation of inventory using the FIFO method, both in the periodic and perpetual systems, produces a higher net profit value when compared to the calculation using the average method in both the periodic and perpetual systems. The calculation results of the FIFO method show the lowest value of cost of goods sold and the highest value of final inventory. Therefore, the calculation of inventory in UD Agung Pratama is expected to use the FIFO method, and the inventory system uses a perpetual system because it shows accurate and detailed inventory values.

Keywords: Cost Flow Assumption, Merchandise Inventory, Recording System

INTRODUCTION

Inventory is a supporting component of the company in achieving company goals. The existence of inventory can be said to be an asset that has a considerable value in the company because inventory is a company's current assets that can affect the company's asset position, liabilities, and equity. Inventory is a necessary component in a company's operational activities as a source of income for an entity. Therefore, proper inventory management must be carried out for effectiveness and efficiency in the company's operational activities. On the other hand, good inventory management will cause smoothness in the company's operations. If the management is carried out incorrectly, it will have an impact on the emergence of several problems that will later be faced by the company in carrying out operational activities, and this can allow the company to experience the risk of loss. Determining the right inventory calculation method used by the company is something that needs to be considered for the management of the company.

According to Rudianto (2018), there are two inventory recording systems, namely the periodic system (physical method) and the perpetual system. The periodic system records at the time of physical calculation of inventory or when stock-taking is carried out. The perpetual system keeps an up-to-date record of any changes or sales and purchase activities that result in changes in inventory value. The assumption of cost flows can be used in calculating the inventory of an entity. Cost flow assumptions are methods that can be used to measure or assess a company's inventory. According to Martani et al. (2016), inventory calculations can use the assumption of cost flows that can be selected according to the needs of the company. There are three assumptions of cost flows, namely: the special identification method, the FIFO method (First-In, First-Out) and the average method (Weighted Average).

According to Martani et al. (2016), the specific identification method specifically identifies the inventory sold with each type of inventory. The special identification method is usually used by entities with little stock of inventory and have high selling prices, such as jewelry or gems, antiques, luxury cars, and so on. Therefore, a trading entity that does not fall under the criteria of a company that has little inventory with a high selling value in calculating its inventory chooses between the FIFO and average methods. According to Rudianto (2018), the FIFO method states that the incoming inventory will first be issued, used, or sold first, and then later the final inventory will only leave the goods owned from the purchase or the last production. According to Rudianto (2018), the weighted average method states that the inventory sold or used and the remaining inventory are assessed using the average price, so that the value of the cost of goods sold and the final inventory value are generated based on the average price. Companies that can apply the right cost flow assumptions can increase the effectiveness and efficiency of operational activities, and cost flow

assumptions can be used as a means of internal control of the company to aim to get the profit desired by the company.

Aisyania (2020) conducted research on the use of inventory assessment and recording methods in CV Hubbul Hidayah Group Palembang. This study concluded that a good recording system uses a perpetual inventory system because it makes it easier for companies to carry out inspections. Inventory valuation can use the FIFO method because it produces a small cost of goods sold value compared to using the average method. In contrast to the research conducted by Sari (2018) in analyzing the calculation of inventory valuation using the FIFO and average methods in PT Harapan. The results of this study advise companies to use the average method because it shows the lowest cost of goods sold but the highest final inventory value, so as to produce the highest net profit value compared to using the FIFO method. The difference between the previous research and this study is that the object of this study is a type of business entity (namely UD). This research does not focus on the inventory method alone but also uses a recording system and also compares the profit obtained from the calculation of this inventory.

Accounting records in UD Agung Pratama is still done simply, including the recording of its supplies. Recording and calculation of inventory in UD Agung Pratama is still simple. This causes various problems, one of which is damage to merchandise due to goods being stored for a long time, causing ineffectiveness and efficiency for UD Agung Pratama said it hampered sales activities and suffered losses. The problems faced result in inventory records not reflecting the actual state of inventory and often cause a difference between the goods in the warehouse and the recording, so that it greatly affects the calculation of profits that the company will later obtain. UD Agung Pratama is not included in the criteria for a business that sells inventory in a small amount and has a high selling value so that in calculating inventory you can choose to use the FIFO or average method. Based on the description above, the formulation of the problem in this study is how to compare the calculation of the assumption of cost flows with the system of recording merchandise inventory in UD Agung Pratama. The purpose of this study is to analyze the comparison between the calculation of cost flow

assumptions and the system of recording merchandise inventory in the UD Agung Pratama.

RESEARCH METHODOLOGY

The study was conducted in UD Agung Pratama. This company is an industry engaged in housebuilding materials such as tiles and adobe. UD Agung Pratama obtained its supplies from suppliers and then resold them. The data sources used are secondary data in the form of initial merchandise inventory data, supplier merchandise inventory, and goods sales data. The data collection methods in this study are documentation and interviews. Data analysis techniques consist of library studies, collecting data and information and documentation data obtained from UD Agung Pratama in the form of recording inventory, purchases, sales, and cash expenditures. This type of research is a type of quantitative descriptive research. Data analysis techniques are: literature studies; processing data and calculating using the FIFO method and the average method, comparing the two methods using profit and loss calculations; and concluding research results.

RESULTS AND DISCUSSION

Analysis Results

The results of calculating the cost of goods sold using the FIFO method and the average method with the periodic and perpetual inventory system in 2019 and 2020 are as follows:

Table 1

Results of the Calculation of the Cost of Goods Sold by UD Agung Pratama in 2019

Month	The Calculation of the Cost of Goods Sold in 2019								
	Perio	dic	Perpetual						
	FIFO	Average	FIFO	Average					
January	IDR 37.660.000	IDR 38.202.567	IDR 37.660.000	IDR 37.663.556					
February	IDR 31.809.500	IDR 30.617.061	IDR 31.809.500	IDR 31.585.183					

March	IDR 28.623.500	IDR 29.338.752	IDR 28.623.500	IDR 28.920.247
April	IDR 14.814.000	IDR 14.789.221	IDR 14.814.000	IDR 14.773.495
Mei	IDR 3.132.000	IDR 3.277.172	IDR 3.132.000	IDR 3.262.248
June	IDR 25.221.000	IDR 25.600.813	IDR 25.221.000	IDR 25.975.816
July	IDR 47.753.000	IDR 46.854.425	IDR 47.753.000	IDR 46.820.421
August	IDR 29.370.600	IDR 29.614.086	IDR 29.370.600	IDR 29.380.424
September	IDR 25.861.800	IDR 25.655.994	IDR 25.861.800	IDR 25.782.631
October	IDR 17.170.000	IDR 17.311.103	IDR 17.170.000	IDR 17.217.653
November	IDR 26.703.600	IDR 28.685.361	IDR 26.703.600	IDR 26.736.804
December	IDR 9.979.200	IDR 9.254.784	IDR 9.979.200	IDR 10.049.233
Total	IDR 298.098.200	IDR299.201.338	IDR 298.098.200	IDR 298.167.710

Table 2

Results of the Calculation of the Cost of Goods Sold by UD Agung Pratama in 2020

_	T	he Calculation of the Co	ost of Goods Sold in 2020			
Month	Perio	dic	Perpet	ual		
	FIFO	Average	FIFO	Average		
January	IDR 19.543.800	IDR 18.423.799	IDR 19.543.800	IDR 19.227.890		
February	IDR 7.660.000	IDR 7.333.113	IDR 7.660.000	IDR 7.569.173		
March	IDR 22.947.700	IDR 23.408.607	IDR 22.947.700	IDR 23.271.201		
April	IDR 16.212.300	IDR 16.988.392	IDR 16.212.300	IDR 16.865.144		
Mei	IDR 26.092.200	IDR 25.792.621	IDR 26.092.200	IDR 25.636.466		
June	IDR 25.605.800	IDR 24.987.067	IDR 25.605.800	IDR 25.044.962		
July	IDR 11.152.000	IDR 10.621.545	IDR 11.152.000	IDR 10.935.671		
August	IDR 13.969.800	IDR 14.211.776	IDR 13.969.800	IDR 13.963.877		
September	IDR 37.590.600	IDR 38.463.560	IDR 37.590.600	IDR 38.425.506		
October	IDR 13.708.200	IDR 12.485.766	IDR 13.708.200	IDR 13.175.522		
November	IDR 29.871.000	IDR 31.079.678	IDR 29.871.000	IDR 30.162.229		
December	IDR 14.692.400	IDR 14.412.711	IDR 14.692.400	IDR 14.735.445		
Total	IDR 239.045.800	IDR 238.208.636	IDR 239.045.800	IDR 239.013.085		

The following are the results of the final inventory value of tiles by UD Agung Pratama in 2019 and 2020.

Month Unit		Periodi	c System	Perpetual System			
		FIFO	Average	FIFO	Average		
January	5,260	IDR10,520,000	IDR 9,977,433	IDR 10,520,000	IDR 10,516,444		
February	8,065	IDR 13,710,500	IDR 14,360,372	IDR 13,710,500	IDR 13,931,262		
March	11,715	IDR 21,087,000	IDR 21,021,620	IDR 21,087,000	IDR 21,011,014		
April	13,485	IDR 24,273,000	IDR 24,232,399	IDR 24,273,000	IDR 24,237,520		
Mei	21,745	IDR 41,141,000	IDR 40,955,227	IDR 41,141,000	IDR 40,975,271		
June	17,960	IDR 33,920,000	IDR 33,354,414	IDR 33,920,000	IDR 32,999,455		
July	12,315	IDR 22,167,000	IDR 22,499,990	IDR 22,167,000	IDR 22,179,034		
August	5,998	IDR 10,796,400	IDR 10,885,904	IDR 10,796,400	IDR 10,798,611		
September	11,138	IDR 18,934,600	IDR 19,229,910	IDR 18,934,600	IDR 19,015,980		
October	11,038	IDR 18,764,600	IDR 18,918,807	IDR 18,764,600	IDR 18,798,327		
November	5,330	IDR 11,561,000	IDR 9,733,446	IDR 11,561,000	IDR 11,561,524		
December	5,719	IDR 12,581,800	IDR 11,478,662	IDR 12,581,800	IDR 12,512,290		
Total		IDR 239,456,900	IDR 236,648,184	IDR 239,456,900	IDR238,536,732		

Table 3	
Final Inventory Value of Tiles by UD Agung Pratama in 2019	9

Source: Processed Data (2022)

Table 4Final Inventory Value of Tiles by UD Agung Pratama in 2020

Month	Unit	Period	ic System	Perpetual System			
		FIFO	Average	FIFO	Average		
January	6,519	IDR 13,038,000	IDR 13,054,863	IDR 13,038,000	IDR 13,284,400		
February	7,689	IDR 14,378,000	IDR 14,721,751	IDR 14,378,000	IDR 14,715,227		
March	9,959	IDR 18,430,300	IDR 18,313,144	IDR 18,430,300	IDR 18,444,026		
April	11,109	IDR 22,218,000	IDR 21,324,751	IDR 22,218,000	IDR 21,578,882		

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Mei 13,239 IDR 27,125,800 IDR 26,532,130 IDR 27,125,800 IDR 26,942, June 10,760 IDR 21,520,000 IDR 21,545,063 IDR 21,520,000 IDR 21,897, July 15,184 IDR 28,368,000 IDR 28,923,518 IDR 28,368,000 IDR 28,961, August 12,999 IDR 25,398,200 IDR 25,711,743 IDR 25,398,200 IDR 25,997, September 4,458 IDR 9,807,600 IDR 9,248,182 IDR 9,807,600 IDR 9,572, October 7,833 IDR 14,099,400 IDR 14,762,416 IDR 14,099,400 IDR 14,396, November 6,238 IDR 12,228,400 IDR 11,682,738 IDR 12,228,400 IDR 12,234, December 3,768 IDR 7,536,000 IDR 7,270,026 IDR 7,536,000 IDR <	Total		IDR	214,147,700	IDR	213,090,325	IDR.	214,147,700	IDR	215,525,226
Mei 13,239 IDR 27,125,800 IDR 26,532,130 IDR 27,125,800 IDR 26,942, June 10,760 IDR 21,520,000 IDR 21,545,063 IDR 21,520,000 IDR 21,897, July 15,184 IDR 28,368,000 IDR 28,923,518 IDR 28,368,000 IDR 28,961, August 12,999 IDR 25,398,200 IDR 25,711,743 IDR 25,398,200 IDR 25,997, September 4,458 IDR 9,807,600 IDR 9,248,182 IDR 9,807,600 IDR 9,572, October 7,833 IDR 14,099,400 IDR 14,762,416 IDR 14,099,400 IDR 14,396, November 6,238 IDR 12,228,400 IDR 11,682,738 IDR 12,228,400 IDR 12,234,	December	3,768	IDR	7,536,000	IDR	7,270,026	IDR	7,536,000	IDR	7,499,205
Mei 13,239 IDR 27,125,800 IDR 26,532,130 IDR 27,125,800 IDR 26,942, June 10,760 IDR 21,520,000 IDR 21,545,063 IDR 21,520,000 IDR 21,897, July 15,184 IDR 28,368,000 IDR 28,923,518 IDR 28,368,000 IDR 28,961, August 12,999 IDR 25,398,200 IDR 25,711,743 IDR 25,398,200 IDR 25,997, September 4,458 IDR 9,807,600 IDR 9,248,182 IDR 9,807,600 IDR 9,572, October 7,833 IDR 14,099,400 IDR 14,762,416 IDR 14,099,400 IDR 14,396,	November	6,238	IDR	12,228,400	IDR	11,682,738	IDR	12,228,400	IDR	12,234,650
Mei 13,239 IDR 27,125,800 IDR 26,532,130 IDR 27,125,800 IDR 26,942 June 10,760 IDR 21,520,000 IDR 21,545,063 IDR 21,520,000 IDR 21,897 July 15,184 IDR 28,368,000 IDR 28,923,518 IDR 28,368,000 IDR 28,961 August 12,999 IDR 25,398,200 IDR 25,711,743 IDR 25,398,200 IDR 25,997 September 4,458 IDR 9,807,600 IDR 9,248,182 IDR 9,807,600 IDR 9,572	October	7,833	IDR	14,099,400	IDR	14,762,416	IDR	14,099,400	IDR	14,396,878
Mei 13,239 IDR 27,125,800 IDR 26,532,130 IDR 27,125,800 IDR 26,942, June 10,760 IDR 21,520,000 IDR 21,545,063 IDR 21,520,000 IDR 21,897, July 15,184 IDR 28,368,000 IDR 28,923,518 IDR 28,368,000 IDR 28,961, August 12,999 IDR 25,398,200 IDR 25,711,743 IDR 25,398,200 IDR 25,997,	September	4,458	IDR	9,807,600	IDR	9,248,182	IDR	9,807,600	IDR	9,572,400
Mei 13,239 IDR 27,125,800 IDR 26,532,130 IDR 27,125,800 IDR 26,942 June 10,760 IDR 21,520,000 IDR 21,545,063 IDR 21,520,000 IDR 21,897 July 15,184 IDR 28,368,000 IDR 28,923,518 IDR 28,368,000 IDR 28,961,	August	12,999	IDR	25,398,200	IDR	25,711,743	IDR	25,398,200	IDR	25,997,906
Mei 13,239 IDR 27,125,800 IDR 26,532,130 IDR 27,125,800 IDR 26,942, June 10,760 IDR 21,520,000 IDR 21,545,063 IDR 21,520,000 IDR 21,897,	July	15,184	IDR	28,368,000	IDR	28,923,518	IDR	28,368,000	IDR	28,961,783
Mei 13,239 IDR 27,125,800 IDR 26,532,130 IDR 27,125,800 IDR 26,942	June	10,760	IDR	21,520,000	IDR	21,545,063	IDR	21,520,000	IDR	21,897,454
	Mei	13,239	IDR	27,125,800	IDR	26,532,130	IDR	27,125,800	IDR	26,942,416

The results of the calculation of comparative profit and loss in 2019.

Table 5

The Results of Comparative Profit and Loss Calculation Per Month in 2019

	Comparative Profit and Loss Calculation in 2019										
Month		Per	iodic			Per	petual				
		FIFO	1	Average		FIFO		Average			
January	IDR	13,870,000	IDR	13,327,433	IDR	13,870,000	IDR	13,866,444			
February	IDR	10,977,500	IDR	12,169,939	IDR	10,977,500	IDR	11,201,817			
March	IDR	11,803,500	IDR	11,088,248	IDR	11,803,500	IDR	11,506,753			
April	IDR	1,310,000	IDR	1,334,779	IDR	1,310,000	IDR	1,350,505			
Mei	IDR	1,449,000	IDR	1,303,828	IDR	1,449,000	IDR	1,318,752			
June	IDR	7,504,000	IDR	7,124,187	IDR	7,504,000	IDR	6,749,184			
July	IDR	20,271,000	IDR	21,169,575	IDR	20,271,000	IDR	21,203,579			
August	IDR	10,716,200	IDR	10,472,714	IDR	10,716,200	IDR	10,706,376			
September	IDR	10,070,200	IDR	10,276,006	IDR	10,070,200	IDR	10,149,369			
October	IDR	4,501,900	IDR	4,360,797	IDR	4,501,900	IDR	4,454,247			

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November	IDR	11,821,200	IDR	9,839,439	IDR	11,821,200	IDR	11,787,996
December	IDR	2,981,800	IDR	3,706,216	IDR	2,981,800	IDR	2,911,767
Total	IDR	107,276,300	IDR	106,173,162	IDR	107,276,300	IDR	107,206,790

Table 6

The Results of Comparative Profit and Loss Calculation Per Month in 2020

	Comparative Profit and Loss Calculation in 2020											
Month		Perio	dic			Perpe	etual					
_]	FIFO	A	Average		FIFO	Average					
January	IDR	7,238,700	IDR	8,358,701	IDR	7,238,700	IDR	7,554,610				
February	IDR	2,899,000	IDR	3,225,887	IDR	2,899,000	IDR	2,989,827				
March	IDR	7,022,300	IDR	6,561,393	IDR	7,022,300	IDR	6,698,799				
April	IDR	2,078,700	IDR	1,302,608	IDR	2,078,700	IDR	1,425,856				
Mei	IDR	4,173,900	IDR	4,473,479	IDR	4,173,900	IDR	4,629,634				
June	IDR	3,318,300	IDR	3,937,033	IDR	3,318,300	IDR	3,879,138				
July	IDR	4,129,000	IDR	4,659,455	IDR	4,129,000	IDR	4,345,329				
August	IDR	6,246,600	IDR	6,004,624	IDR	6,246,600	IDR	6,252,523				
September	IDR	9,693,800	IDR	8,820,840	IDR	9,693,800	IDR	8,858,894				
October	IDR	4,924,600	IDR	6,147,034	IDR	4,924,600	IDR	5,457,278				
November	IDR	11,347,400	IDR	10,138,722	IDR	11,347,400	IDR	11,056,171				
December	IDR	6,315,200	IDR	6,594,889	IDR	6,315,200	IDR	6,272,155				
Total	IDR	69,387,500	IDR	70,224,664	IDR	69,387,500	IDR	69,420,215				

Discussion

Based on the results of the analysis that has been carried out, the value of the cost of goods sold for each method is different. This is because it is influenced by differences in the final values of different methods of inventory. However, the value of the cost of goods sold by the FIFO method, both periodic and perpetual methods, shows the same value. This is because there is a match between the prices used, unlike using the average method where it produces different values because the cost of inventory is calculated using the average cost per unit and produces a nominal that is not round. The highest cost of goods sold occurred in 2019 at IDR 299,201,338 using the average method with a periodic system, while the lowest occurred in 2020 at IDR 238,208,636. The difference in cost of goods sold between the highest and lowest values was IDR 60,992,702.

The final inventory value in each method's inventory card calculation also produces a different value, but the final unit generated by each method remains the same. This difference in the value of the final inventory is influenced by the value of the cost of goods purchased and sold. The FIFO method using both the periodic and perpetual systems produces a higher inventory value than using the periodic average method or perpetual. This is because the average method requires calculating the cost of inventory by evenly calculating the purchase price and sales price as the cost of each unit by dividing the value of the cost of ready-to-sell units by the number of units available for sale.

The calculation of the income statement generates net profit every month with a few nominal ups and downs that are not too large. This is because it is influenced by insignificant changes in the value of the cost of goods purchased. It's just that other factors also affect the results of the net profit value, which varies every month because the amount of sales, the amount of initial inventory, and inventory ultimately affect the calculation of profit and loss. The highest net profit occurred in 2019 using the FIFO method of IDR 107,276,300. The value of this net profit was IDR 37,051,636 less than the highest profit in 2020 using the Periodic Average method of IDR 70,224,664. The decline in the value of net profit in 2020 here was influenced by the Covid-19 pandemic

that attacked various sectors in Indonesia, and this had an impact on reducing sales in UD Agung Pratama.

Based on the discussion that has been described above, the results of this study are supported by research by Lestari, Subagyo, & Limantara (2019), which shows that using the FIFO method is more profitable for companies because the cost of goods sold is lower than using the Periodic and Perpetual Average methods, so as to produce a higher profit value than using the Periodic and Perpetual Average methods. The results of this study are also in line with research conducted by Susanti, Wisnubroto, & Parwati (2018), which shows that greater profits are obtained with the result of low cost of goods sold, namely by using the FIFO method. The FIFO method is considered to be profitable for the company because it shows a greater net profit value compared to using the LIFO and average methods. This is also the case in this study. If the final inventory value is higher and the cost of goods sold is lower, it will show a higher profit value.

CONCLUSION

Based on the results of research that has been carried out by researchers, it can be concluded that the calculation of inventory using FIFO and average with periodic and perpetual inventory systems shows different values. This difference is influenced by the difference in the results of the final inventory value and the cost of goods sold for each method. However, specifically FIFO using periodic and perpetual uses, produces the same value because there is a similarity between the cost value and also income when issuing or selling inventory, where the cost of goods purchased by the first incoming inventory will be used as the cost of goods sold for the first outgoing inventory.

Researchers used three value comparisons between the FIFO method using the periodic and perpetual systems; the average using the periodic system; and the average using the perpetual system. The comparison here is the result of the cost of goods sold, the final value of inventory, and by using these two calculation results, the results of calculating the net profit of each method are obtained. It is known that from the results of the calculation of net profit for 2019 and 2020 using these methods shows results that

alternate between the FIFO method and the periodic average, which for 2019 the highest net profit is the FIFO method and the lowest the average method. The year 2020 showed the periodic average method resulted in the highest and lowest net profit for the FIFO method. It is known that the higher the value of the final inventory, the lower the cost of goods sold. If the cost of goods sold shows the lowest value, it will result in the highest value of profit being obtained and vice versa. Therefore, the FIFO method, either with a periodic or perpetual inventory system, can be an option for UD Agung Pratama as a method of valuation of merchandise inventory because in 2019 it showed the highest final inventory value, the lowest cost of goods sold, and the highest net profit.

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