

Asian Journal of Research in Business Economics and Management



www.aijsh.com

ISSN: 2249-7307

Vol. 11, Issue 7, July 2021 SJIF – Impact Factor = 8.075 (2021) DOI Number: 10.5958/2249-7307.2021.00006.2

MODELLING AND FORECASTING GOLD PRICESUSING ARIMA

P B Saranya*

*Assistant Professor, Grg School of Management Studies, Psgr Krishnammal College for Women,Coimbatore, INDIA Email id: Pbsaranya@Grgsms.Ac.In

ABSTRACT

Indian investors consider physical gold as an important asset while an investment in gold across the globe is considered as a hedging tool which provides diversification to the portfolio for an investor. It's often correlated with the stock markets during risk-on periods and inversely correlated during periods of stress. Indian investors have demonstrated strong affinity to physical since several decades. The demand for gold in the global market is more than 4000 tones during the last decade out of which 25% of the global demand is attracted by the Indian market. The annual average consumption of gold in the Indian market amounts to 850 tonnes since 2010. The increasing gold prices, economic slowdown and the outbreak of pandemic has resulted in lesser consumption of gold during 2020in India. The continuous increase in prices has led to following study. This paper attempts to forecast the gold prices in the short run, for which 196 observations of the daily gold prices in USD were obtained for a period of 9 months from 1st November, 2019 to 31st July, 2020. The most popular tool the Box-Jenkins ARIMA was used to forecast the prices. The empirical results indicate that the adjusted ARIMA model provides better scope for predicting the prices in the near future. The gold price in the short run is showing an increasing trend.

KEYWORDS: Gold Is Widely Considered, Similarly, the Investment, Approximately, Significantly.

REFERENCES

- Ai, H., Shouyang, W., Shanying, X. (2012), an interval method for studying the relationship between the Australian dollar exchange rate and the gold price. Journal of Systems Science and Complexity, 25(1), 121-132.
- Baur, D.G., mcdermott, T.K. (2010), is gold a safe haven? International evidence. Journal of Banking and Finance, 34(8), 1886-1898.
- Baur, D.G., Lucey, B.M. (2010), Is gold a hedge or a safe haven? An analysis of stocks, bonds and gold. The Financial Review, 45(2),217-229.
- Corti, C.H., Holliday, R. (2010), Gold Science and Applications. USA: Taylor and Francis Group, LLC.
- Ewing, B.T., Malik, F. (2013), Volatility transmission between gold and oil futures under structural breaks. International Review of Economics and Finance, 25(C), 113-121.

Asian Research Consortium www.aijsh.com



Asian Journal of Research in Business Economics and Management (ISSN: 2249-7307) Vol. 11, Issue. 7, July 2021, SJIF Impact Factor = 8.075 (2021)

- Hammoudeh, S., Yuan, Y., mcaleer, M., Thompson, M. (2010), Precious metals-exchange rate volatility transmission and hedging strategies. International Review of Economics and Finance, 19(4), 698-710.
- Hossein, M., Abdolreza, Y.C. (2015), Modeling gold price via artificial neural network. Journal of Economics, Business and Management, 3(7), 699-703.
- Hossein, H., Emmanuel, S.S., Rangan, G. (2014), Forecasting the Price of Gold. Department of Economics Working Paper Series, University of Pretoria, Working Paper: 2014-28, June.
- Ismail, Z., Yahya, A., Shabri, A. (2009), Forecasting gold prices using multiple linear regression method. American Journal of Applied Sciences, 6(8), 1509-1514.
- Kuan-Min, W., Yuan-Ming, L., Thanh-Binh, N.T. (2011), Time and place where gold acts as an inflation hedge: An application of long-run and short-run threshold model. Economic Modelling, 28(3), 806-819.
- Nicholas, A. (2014), Can gold prices forecast the Australian dollar movements? International Review of Economics and Finance, 29, 75-82.