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# ABBREVIATION

ACF- Autocorrelation Function  
ADF- Augmented Dickey Fuller  
AIC- Akaike Information Criterion  
CUSUM- Cumulative Sum of Recursive Residual  
DE- First Differenced Expenditure  
DR- First Differenced Revenue  
GE- Government Expenditure  
GR- Government Revenue  
HQ- Hannan-Quinn Criterion  
IMF – International Monetary Fund  
JB- Jarque-Bera  
LM- Lagrange Multiplier  
PACF- Partial Autocorrelation Function  
PP- Phillips-Perron  
RSS- Residual Sum Square  
S.E- Standard Error  
SBC- Schwartz Bayesian Criterion  
SUR- seemingly Unrelated Regression  
VAR- Vector Autoregression  
VECM- Vector Error Correction Model  
WPI- Wholesale Price Index



# NOTATION

$I(1)$  - Integrated of order one

$\Delta$  Difference operator

$\Delta R_t$ - Current period Revenue

$\Delta R_{t-1}$  First period lagged Revenue

$\Delta R_{t-2}$ - Second Period lagged Revenue

$\Delta R_{t-3}$ - Third Period lagged Revenue

$\Delta E_t$ - Current Period Expenditure

$\Delta R_{t-1}$  First period lagged Expenditure

$\Delta R_{t-2}$ - Second Period lagged Expenditure

$\Delta R_{t-3}$ - Third Period lagged Expenditure

$Z_{t-1}$ - Error Correction Term

$\Sigma$  - Summation

$\rightarrow$  Unidirectional causality

$\leftrightarrow$  Bidirectional causality

$\geq$  Greater than or equal

$\leq$  Less than Equal