







— ETS — Hybrid — Observed — SA	RIMA — STL
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## H: RMSE of Models

Method	Train	Test	Train and Test
Grey Model	208.47	1736.94	734.20
Neural Network	72.23	1851.55	792.20
STL	46.58	1529.14	625.72
ETS	58.04	1498.82	614.18
SARIMA	61.40	1560.76	639.64
Hybrid*	49.96	1646.02	703.32

\*Hybrid: Combined SARIMA, ETS, STL

and Neural Network model

## I: R-squared of Models

Method	Train	Test	Train and Test
Grey Model	0.61	0.14	0.70
Neural Network	0.93	0.26	0.41
STL	0.97	0.58	0.74
ETS	0.96	0.52	0.75
SARIMA	0.95	0.84	0.71
Hybrid*	0.97	0.74	0.65

## \*Hybrid: Combined SARIMA, ETS, STL and Neural Network model

## J: MAE of Models

Method	Train	Test	Train and Test		
Grey Model	131.99	1442.35	350.38		
Neural Network	48.23	1576.14	326.03		
STL	32.06	1306.60	244.48		
ETS	38.78	1276.94	245.14		
SARIMA	41.59	1346.35	259.05		
Hybrid*	35.15	1406.48	284.48		

Test Database

2020

2018