Table I- Statistical Analysis

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| VARIABLE | OBS | MEAN | STD. DEV. | MIN | MAX |
| LNGDP | 819 | 6.79847 | 1.058742 | 4.63128 | 9.27951 |
| BMYGE | 702 | -14.6314 | 23.67484 | -85.8955 | 112.1355 |
| BMYRQ | 702 | -12.6244 | 23.59884 | -101.754 | 116.6342 |
| BMYRL | 702 | -13.7807 | 23.95802 | -79.4009 | 105.1918 |
| BMYCC | 702 | -15.2198 | 20.47426 | -73.3093 | 58.25354 |
| BMYVA | 702 | -13.7345 | 30.07841 | -118.019 | 95.40863 |
| BMYPS | 702 | -13.8064 | 32.75113 | -141.09 | 113.5253 |
| PCYGE | 702 | -4.48699 | 19.51109 | -48.7911 | 107.7895 |
| PCYRQ | 702 | -3.66816 | 18.61935 | -38.3831 | 112.1139 |
| PCYRL | 702 | -4.81023 | 16.17195 | -44.2597 | 101.0018 |
| PCYCC | 702 | -5.85355 | 14.12149 | -41.7172 | 81.48423 |
| PCYVA | 702 | -4.2629 | 24.93552 | -97.8763 | 102.2857 |
| PCYPS | 702 | -5.28094 | 21.02013 | -93.1857 | 102.5716 |
| DCYGE | 702 | -12.441 | 42.09022 | -466.447 | 122.0316 |
| DCYRQ | 702 | -11.2122 | 44.36071 | -500.82 | 131.5564 |
| DCYRL | 702 | -12.57 | 40.44397 | -477.088 | 114.3432 |
| DCYCC | 702 | -13.7999 | 33.19207 | -421.087 | 101.2104 |
| DCYVA | 702 | -10.4412 | 40.14476 | -304.797 | 125.4348 |
| DCYPS | 702 | -15.3346 | 47.18638 | -455.182 | 124.9403 |
| GSYGE | 702 | -6.60801 | 23.57016 | -83.8158 | 204.6401 |
| GSYRQ | 702 | -5.82483 | 23.86974 | -103.132 | 248.9203 |
| GSYRL | 702 | -7.04164 | 22.57728 | -95.3367 | 208.5255 |
| GSYCC | 702 | -7.67212 | 20.8169 | -87.2778 | 176.3035 |
| GSYVA | 702 | -8.09658 | 19.10052 | -92.8527 | 173.0344 |
| GSYPS | 702 | -5.74862 | 24.08301 | -116.676 | 183.1498 |
| BDYGE | 702 | -16.1089 | 69.65014 | -927.688 | 100.9942 |
| BDYRQ | 702 | -15.2684 | 76.08569 | -975.291 | 105.046 |
| BDYRL | 702 | -14.7151 | 63.2494 | -702.52 | 91.19741 |
| BDYCC | 702 | -14.686 | 49.41306 | -637.643 | 50.48368 |
| BDYVA | 702 | -12.0122 | 40.99206 | -537.257 | 87.39079 |
| BDYPS | 702 | -15.1689 | 76.27211 | -950.144 | 99.86099 |
| GCF | 810 | 20.48268 | 7.732852 | -2.42436 | 75.19494 |
| TOP | 816 | 70.40043 | 32.86974 | 17.85861 | 311.3553 |
| INF | 812 | 9.951599 | 31.20869 | -10.0088 | 513.9069 |
| FDI | 815 | 4.679286 | 11.61633 | -6.05721 | 159.7189 |
| EXP | 808 | 13.78195 | 4.725183 | 2.05759 | 30.0692 |

Table II: Cross Sectional Dependency Test (CD)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Variable | CD-test | p-value | average joint T | mean ρ | mean abs(ρ) |
| LNGDP | 104.566\*\*\* | 0.000 | 21 | 0.84 | 0.87 |
| BMYGE | 20.33\*\*\* | 0.000 | 18 | 0.18 | 0.36 |
| BMYRQ | 17.009\*\*\* | 0.000 | 18 | 0.15 | 0.36 |
| BMYRL | 10.243\*\*\* | 0.000 | 18 | 0.09 | 0.34 |
| BMYCC | 13.424\*\*\* | 0.000 | 18 | 0.12 | 0.31 |
| BMYVA | 2.561\*\* | 0.010 | 18 | 0.02 | 0.36 |
| BMYPS | 3.588\*\*\* | 0.000 | 18 | 0.03 | 0.35 |
| PCYGE | 35.056\*\*\* | 0.000 | 18 | 0.3 | 0.52 |
| PCYRQ | 30.419\*\*\* | 0.000 | 18 | 0.26 | 0.51 |
| PCYRL | 18.672\*\*\* | 0.000 | 18 | 0.16 | 0.43 |
| PCYCC | 23.66\*\*\* | 0.000 | 18 | 0.2 | 0.45 |
| PCYVA | 5.962\*\*\* | 0.000 | 18 | 0.05 | 0.42 |
| PCYPS | 10.652\*\*\* | 0.000 | 18 | 0.09 | 0.39 |
| DCYGE | 24.382\*\*\* | 0.000 | 18 | 0.21 | 0.54 |
| DCYRQ | 29.145\*\*\* | 0.000 | 18 | 0.25 | 0.53 |
| DCYRL | 13.371\*\*\* | 0.000 | 18 | 0.12 | 0.42 |
| DCYCC | 19.03\*\*\* | 0.000 | 18 | 0.16 | 0.43 |
| DCYVA | 4.325\*\*\* | 0.000 | 18 | 0.04 | 0.41 |
| DCYPS | 11.987\*\*\* | 0.000 | 18 | 0.1 | 0.4 |
| GSYGE | 11.83\*\*\* | 0.000 | 18 | 0.1 | 0.33 |
| GSYRQ | 7.607\*\*\* | 0.000 | 18 | 0.07 | 0.32 |
| GSYRL | 7.002\*\*\* | 0.000 | 18 | 0.06 | 0.31 |
| GSYCC | 4.84\*\*\* | 0.000 | 18 | 0.04 | 0.31 |
| GSYVA | 6.155\*\*\* | 0.000 | 18 | 0.05 | 0.31 |
| GSYPS | 6.794\*\*\* | 0.000 | 18 | 0.06 | 0.34 |
| BDYGE | 39.927\*\*\* | 0.000 | 18 | 0.35 | 0.62 |
| BDYRQ | 39.558\*\*\* | 0.000 | 18 | 0.34 | 0.57 |
| BDYRL | 21.417\*\*\* | 0.000 | 18 | 0.19 | 0.51 |
| BDYCC | 34.711\*\*\* | 0.000 | 18 | 0.3 | 0.53 |
| BDYVA | 7.516\*\*\* | 0.000 | 18 | 0.07 | 0.43 |
| BDYPS | 9.304\*\*\* | 0.000 | 18 | 0.08 | 0.4 |
| GCF | 14.611\*\*\* | 0.000 | 20.55 | 0.12 | 0.4 |
| TOP | 13.739\*\*\* | 0.000 | 20.85 | 0.11 | 0.39 |
| INF | 10.162\*\*\* | 0.000 | 20.65 | 0.08 | 0.23 |
| FDI | 11.116\*\*\* | 0.000 | 20.79 | 0.09 | 0.28 |
| EXP | 2.795\*\*\* | 0.005 | 20.44 | 0.02 | 0.35 |

*Note: The superscripts \*\*\*, \*\* and \* denote the statistical significance at 1%, 5% and 10% levels, respectively.*

Table III: Panel Unit Root Test (CADF)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Level** | | **1st Difference** | |
| Variable | Z[t-bar] | P-value | Z[t-bar] | P-value |
| LNGDP | -6.527\*\*\* | 0.000 | -9.605 \*\*\* | 0.000 |
| BMYGE | -1.744\*\* | 0.041 | -8.895\*\*\* | 0.000 |
| BMYRQ | 2.140 | 0.984 | -5.684\*\*\* | 0.000 |
| BMYRL | -0.795 | 0.213 | -8.357\*\*\* | 0.000 |
| BMYCC | -0.562 | 0.287 | -6.502\*\*\* | 0.000 |
| BMYVA | 1.230 | 0.891 | -7.173\*\*\* | 0.000 |
| BMYPS | -2.031\*\* | 0.021 | -5.157\*\*\* | 0.000 |
| PCYGE | -0.731 | 0.232 | -2.329\*\* | 0.010 |
| PCYRQ | 2.050 | 0.980 | -1.644\*\* | 0.030 |
| PCYRL | -2.103\*\* | 0.018 | -4.738\*\*\* | 0.000 |
| PCYCC | -1.975\*\* | 0.024 | -1.728\*\* | 0.042 |
| PCYVA | 1.833 | 0.967 | -5.689\*\*\* | 0.000 |
| PCYPS | -0.580 | 0.281 | -4.056\*\*\* | 0.000 |
| DCYGE | 1.756 | 0.960 | -5.463\*\*\* | 0.000 |
| DCYRQ | 1.895 | 0.971 | -6.952\*\*\* | 0.000 |
| DCYRL | 0.238 | 0.594 | -4.986\*\*\* | 0.000 |
| DCYCC | 2.130 | 0.983 | -3.852\*\*\* | 0.000 |
| DCYVA | 3.050 | 0.999 | -4.937\*\*\* | 0.000 |
| DCYPS | -1.366\* | 0.086 | -5.201\*\*\* | 0.000 |
| GSYGE | 0.938 | 0.826 | -8.681\*\*\* | 0.000 |
| GSYRQ | -1.229 | 0.110 | -5.610\*\*\* | 0.000 |
| GSYRL | 1.190 | 0.883 | -8.036\*\*\* | 0.000 |
| GSYCC | 2.427 | 0.992 | -6.373\*\*\* | 0.000 |
| GSYVA | -0.718 | 0.236 | -9.436\*\*\* | 0.000 |
| GSYPS | -2.714\*\*\* | 0.003 | -7.526\*\*\* | 0.000 |
| BDYGE | 2.197 | 0.986 | -3.955\*\*\* | 0.000 |
| BDYRQ | 3.947 | 1.000 | -3.601\*\*\* | 0.000 |
| BDYRL | 2.779 | 0.997 | -3.709\*\*\* | 0.000 |
| BDYCC | 2.745 | 0.997 | -2.669\*\*\* | 0.004 |
| BDYVA | 3.503 | 1.000 | -3.274\*\*\* | 0.001 |
| BDYPS | 3.665 | 1.000 | -2.726\*\*\* | 0.003 |
| GCF | -3.590 \*\*\* | 0.005 | -7.724 \*\*\* | 0.000 |
| TOP | 1.533 | 0.937 | -5.812\*\*\* | 0.000 |
| INF | -7.884\*\*\* | 0.000 | -15.736\*\*\* | 0.000 |
| FDI | -2.394\*\*\* | 0.008 | -11.065 \*\*\* | 0.000 |
| EXP | -3.065\*\*\* | 0.001 | -10.612\*\*\* | 0.000 |

*Note: The superscripts \*\*\*, \*\* and \* denote the statistical significance at 1%, 5% and 10% levels, respectively.*