--------------------------------------------------------------------------

Factor | Eigenvalue(A) Diff (B) Prop (C) Cumulative

-------------+------------------------------------------------------------

Factor1 | 3.73065 2.30629 0.7477 0.7477

Factor2 | 1.42436 1.07237 0.2855 1.0332

Factor3 | 0.35199 0.18347 0.0706 1.1038

Factor4 | 0.16852 0.10547 0.0338 1.1376

Factor5 | 0.06306 0.05058 0.0126 1.1502

Factor6 | 0.01247 0.06822 0.0025 1.1527

Factor7 | -0.05575 0.03307 -0.0112 1.1415

Factor8 | -0.08882 0.03464 -0.0178 1.1237

Factor9 | -0.12347 0.02280 -0.0247 1.0990

Factor10 | -0.14627 0.01996 -0.0293 1.0697

Factor11 | -0.16623 0.01506 -0.0333 1.0363

Factor12 | -0.18129 . -0.0363 1.0000

--------------------------------------------------------------------------

LR test: independent vs. saturated: chi2(66) = 2764.58 Prob>chi2 = 0.0000

-----------------------------------------------------------

(factor loadings)

Variable | Factor1 Factor2 Factor3 | Uniqueness (D)

-------------+------------------------------+--------------

online\_complaint | 0.5348 | 0.6694

Filled\_online\_form | 0.7117 -0.3977 | 0.2820

governme\_documents | 0.6666 -0.4275 | 0.3111

online\_weather | 0.6137 | 0.5898

Bought\_online | 0.6728 | 0.5318

e-panchayat website| 0.5350 | 0.6576

mail\_account | 0.5563 | 0.6065

oerate\_ATM | | 0.9754

online\_access\_Bank | 0.4595 | 0.7148

SMS to track | 0.4568 | 0.7402

whatsapp\_group(t) | 0.5543 0.6727 | 0.2161

any\_whatsapp\_group | 0.5693 0.6733 | 0.1983

--------------------------------------------------------------------

A: Total Variance of the factor concerned.

B: Difference between 2 eigenvalues.

C:Proportion of variance explained by each factor. The first factor explains 75% of the total variance.

D: Variance that is unique to the variable and not shared with other variables. E.g., 66% of the variance of “online\_complaint” is not accounted by any other variable.

Factor loadings: It shows the correlation between the factor and the variable. It ranges from -1 to 1. Higher the factor loading, more relevant is the variable in explaining the factor.

After rotation, we get the following:

--------------------------------------------------------------------------

Factor | Variance Difference Proportion Cumulative

-------------+------------------------------------------------------------

Factor1 | 2.51075 0.46544 0.5032 0.5032

Factor2 | 2.04531 1.09437 0.4099 0.9132

Factor3 | 0.95094 . 0.1906 1.1038

--------------------------------------------------------------------------

LR test: independent vs. saturated: chi2(66) = 2764.58 Prob>chi2 = 0.0000

The first 2 factors explains 91% of the variance.

Rotated factor loadings (pattern matrix) and unique variances

-----------------------------------------------------------

Variable | Factor1 Factor2 Factor3 | Uniqueness

-------------+------------------------------+--------------

online\_complaint | 0.5114 0.1156 0.2360 | 0.6694

Filled\_online\_form | 0.8337 0.1084 0.1062 | 0.2820

governme\_documents | 0.8244 0.0635 0.0726 | 0.3111

online\_weather | 0.3915 0.2774 0.4242 | 0.5898

Bought\_online | 0.4740 0.3019 0.3903 | 0.5318

e-panchayat website | 0.5252 0.0937 0.2404 | 0.6576

mail\_account | 0.2081 0.4657 0.3652 | 0.6065

oerate\_ATM | 0.0600 0.0638 0.1301 | 0.9754

online\_access\_Bank | 0.2246 0.2065 0.4383 | 0.7148

SMS to track | 0.3335 0.1071 0.3703 | 0.7402

whatsapp\_group(t) | 0.0728 0.8800 0.0644 | 0.2161

any\_whatsapp\_group | 0.0836 0.8887 0.0700 | 0.1983

-----------------------------------------------------------

**factor 1 loads heavily on** :

online\_complaint, Filled\_online\_form, governme\_documents, e-panchayat website

**Factor 2 loads on**

whatsapp\_group(t), any\_whatsapp\_group

Factor rotation matrix

-----------------------------------------

| Factor1 Factor2 Factor3

-------------+---------------------------

Factor1 | 0.7301 0.5387 0.4204

Factor2 | -0.5777 0.8152 -0.0415

Factor3 | -0.3651 -0.2125 0.9064

-----------------------------------------

**. TEACHERS'S BELIEFS:**

rotate

Factor analysis/correlation Number of obs = 613

Method: principal factors Retained factors = 8

Rotation: orthogonal varimax (Kaiser off) Number of params = 108

--------------------------------------------------------------------------

Factor | Variance Difference Proportion Cumulative

-------------+------------------------------------------------------------

Factor1 | 4.45738 3.28167 0.8233 0.8233

Factor2 | 1.17571 0.66408 0.2172 1.0405

Factor3 | 0.51163 0.33071 0.0945 1.1350

Factor4 | 0.18093 0.02382 0.0334 1.1684

Factor5 | 0.15710 0.07204 0.0290 1.1974

Factor6 | 0.08506 0.06898 0.0157 1.2131

Factor7 | 0.01608 0.00258 0.0030 1.2161

Factor8 | 0.01350 . 0.0025 1.2186

--------------------------------------------------------------------------

LR test: independent vs. saturated: chi2(136) = 2878.50 Prob>chi2 = 0.0000

Rotated factor loadings (pattern matrix) and unique variances

-------------------------------------------------------------------------------------------------------------

Variable | Factor1 Factor2 Factor3 Factor4 Factor5 Factor6 Factor7 Factor8 | Uniqueness

-------------+--------------------------------------------------------------------------------+------------ tech\_learn | **0.6130** -0.0164 -0.0845 0.0062 -0.0055 0.0403 0.0015 0.0455 | 0.6130

lazy | -0.1886 0.**5198** -0.0312 -0.0131 0.0472 -0.0108 -0.0490 -0.0139 | 0.6882

grasp\_concept| **0.6875** -0.0791 0.0119 0.1155 -0.0076 0.0133 0.0378 0.0592 | 0.5024

clsrm\_instruc | **0.7459** -0.0241 -0.0700 -0.0305 -0.0037 0.0905 -0.0201 -0.0103 | 0.4285

teacher\_Colla | **0.6583** 0.0341 -0.0557 -0.0550 0.0703 0.0674 0.0037 -0.0541 | 0.5469

bettre\_project | **0.5565** 0.0146 0.1807 -0.0654 -0.2365 0.0568 -0.0054 0.0080 | 0.5939

stud\_colla | **0.6911** -0.0545 0.1756 -0.1189 -0.1361 0.0502 -0.0149 -0.0151 | 0.4529

group\_time\_Consuming | 0.0587 0.3918 0.2419 -0.0612 -0.0594 0.0058 0.0188 0.0487 | 0.7745

group\_useless | -0.1261 0.4618 0.0796 -0.0461 0.0417 -0.0520 0.0608 0.0375 | 0.7528

group\_benefit | 0.3119 0.1542 0.1834 0.1105 0.2130 0.0225 -0.0162 0.0033 | 0.7869

student\_interact| 0.2920 -0.0537 0.4294 0.0151 -0.0167 0.0177 0.0009 -0.0002 | 0.7266

healthy\_compt | **0.6853**  -0.0790 0.3283 0.0808 0.0389 -0.1385 0.0056 -0.0059 | 0.3890

parents\_satisfy |  **0.6549** -0.0887 0.1135 0.0433 0.0593 -0.1908 -0.0060 0.0016 | 0.5085

writing\_quality| 0.0420 0**.5495** -0.1306 0.0728 -0.0020 0.0301 -0.0247 -0.0234 | 0.6719

practical\_appli | **0.6411** -0.0105 0.0544 0.1888 0.1096 -0.0250 -0.0165 -0.0057 | 0.5374

used4technical\_skills | -0.0792 0.4216 0.0333 0.0004 -0.0587 0.0590 0.0795 0.0006 |0.8016

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