ANNEXURE – VIII–1

Summary Outputs of 't'–Test Computation for Different Variables

(Computation based on the Data represented in Annexure V)

1.1) Summary Outputs of 't'–test computation for Non–Forest and Forest Areas

1) t–Test: Two – Sample Assuming Unequal Variances for Tribes' Distribution

	Variable 1	*Variable 2*
Mean	85.18048387	83.55416667
Variance	388.3817522	293.6063652
Observations	62	48
Hypothesized Mean Difference	0	
df	106	
t Stat	0.462196896	
P(T<=t) one-tail	0.322443705	
t Critical one-tail	1.659354893	
P(T<=t) two-tail	0.644887411	
t Critical two-tail	1.982598405	

2) t–Test: Two – Sample Assuming Unequal Variances for Tribal Density

	Variable 1	*Variable 2*
Mean	2.995645161	1.980833333
Variance	2.376506954	0.578956738
Observations	62	48
Hypothesized Mean Difference	0	
df	93	
t Stat	4.520673987	
P(T<=t) one-tail	9.06424E-06	
t Critical one-tail	1.66140353	
P(T<=t) two-tail	1.81285E-05	
t Critical two-tail	1.985799827	

3) t–Test: Two – Sample Assuming Unequal Variances for Population Density

	Variable 1	*Variable 2*
Mean	3.48016129	2.299583333
Variance	2.392467187	0.622799823
Observations	62	48
Hypothesized Mean Difference	0	
df	95	
t Stat	5.199060093	
P(T<=t) one-tail	5.73252E-07	
t Critical one-tail	1.661051101	
P(T<=t) two-tail	1.1465E-06	
t Critical two-tail	1.985249583	

4) t–Test: Two – Sample Assuming Unequal Variances for Literate Population Distribution

	Variable 1	*Variable 2*
Mean	16.9783871	18.36041667
Variance	67.95387932	61.79903812
Observations	62	48
Hypothesized Mean Difference	0	
df	103	
t Stat	-0.895176806	
P(T<=t) one-tail	0.18638989	
t Critical one-tail	1.659782356	
P(T<=t) two-tail	0.37277978	
t Critical two-tail	1.983262337	

5) t–Test: Two – Sample Assuming Unequal Variances for Main – Worker Population Distribution

	Variable 1	*Variable 2*
Mean	37.9016129	35.08333333
Variance	48.18147277	47.58312057
Observations	62	48
Hypothesized Mean Difference	0	
df	102	
t Stat	2.119285444	
P(T<=t) one-tail	0.018246887	
t Critical one-tail	1.659930149	
P(T<=t) two-tail	0.036493773	
t Critical two-tail	1.983494258	

6) t–Test: Two – Sample Assuming Unequal Variances for Cultivator Population Distribution

	Variable 1	*Variable 2*
Mean	84.69193548	85.2625
Variance	93.3109175	72.14494681
Observations	62	48
Hypothesized Mean Difference	0	
df	106	
t Stat	-0.328975345	
P(T<=t) one-tail	0.371411704	
t Critical one-tail	1.659354893	
P(T<=t) two-tail	0.742823408	
t Critical two-tail	1.982598405	

7) t–Test: Two–Sample Assuming Unequal Variances for Cultivable Area

	Variable 1	*Variable 2*
Mean	70.37064516	50.41291667
Variance	214.1137209	230.6300126
Observations	62	48
Hypothesized Mean Difference	0	
df	99	
t Stat	6.944922206	
P(T<=t) one-tail	2.01254E-10	
t Critical one-tail	1.660391717	
P(T<=t) two-tail	4.02508E-10	
t Critical two-tail	1.984217306	

1.2) Summary Outputs of 't'–Test Computation for Riverine and Non–Riverine Areas

1) t–Test: Two – Sample Assuming Unequal Variances for Population Density

	Variable 1	*Variable 2*
Mean	2.868030303	3.110454545
Variance	2.308699138	1.4256463
Observations	66	44
Hypothesized Mean Difference	0	
df	105	
t Stat	-0.933912564	
P(T<=t) one-tail	0.176245859	
t Critical one-tail	1.659495865	
P(T<=t) two-tail	0.352491718	
t Critical two-tail	1.982816684	

2) t–Test: Two – Sample Assuming Unequal Variances for Tribal Density

	Variable 1	*Variable 2*
Mean	2.540757576	2.570909091
Variance	2.289120956	1.191231712
Observations	66	44
Hypothesized Mean Difference	0	
df	107	
t Stat	-0.121329302	
P(T<=t) one-tail	0.451828885	
t Critical one-tail	1.659218469	
P(T<=t) two-tail	0.903657771	
t Critical two-tail	1.982384674	

3) t–Test: Two – Sample Assuming Unequal Variances for Literate % Distribution

	Variable 1	*Variable 2*
Mean	16.46818182	19.25136364
Variance	56.70466434	74.67710507
Observations	66	44
Hypothesized Mean Difference	0	
df	83	
t Stat	-1.740723726	
P(T<=t) one-tail	0.042718914	
t Critical one-tail	1.663420335	
P(T<=t) two-tail	0.085437828	
t Critical two-tail	1.988960321	

4) t–Test: Two – Sample Assuming Unequal Variances for Main Worker % Distribution

	Variable 1	*Variable 2*
Mean	36.58787879	36.79772727
Variance	50.26662005	49.34580867
Observations	66	44
Hypothesized Mean Difference	0	
df	93	
t Stat	-0.152921259	
P(T<=t) one-tail	0.439395837	
t Critical one-tail	1.66140353	
P(T<=t) two-tail	0.878791673	
t Critical two-tail	1.985799827	

5) t-Test: Two – Sample Assuming Unequal Variances for Cultivator (% of Main Worker) Distribution

	Variable 1	*Variable 2*
Mean	85.73787879	83.74545455
Variance	72.59131235	99.26393235
Observations	66	44
Hypothesized Mean Difference	0	
df	82	
t Stat	1.087625692	
P(T<=t) one-tail	0.139973471	
t Critical one-tail	1.663647708	
P(T<=t) two-tail	0.279946943	
t Critical two-tail	1.989319571	

6) t-Test: Two – Sample Assuming Unequal Variances for Tribal % or Tribal Distribution

	Variable 1	*Variable 2*
Mean	87.29181818	80.23931818
Variance	304.608049	382.55216
Observations	66	44
Hypothesized Mean Difference	0	
df	85	
t Stat	1.93312496	
P(T<=t) one-tail	0.028274972	
t Critical one-tail	1.66297923	
P(T<=t) two-tail	0.056549945	
t Critical two-tail	1.988269105	

7) t-Test: Two – Sample Assuming Unequal Variances for Forest Area % Distribution

	Variable 1	*Variable 2*
Mean	10.01878788	11.88340909
Variance	114.8576939	197.1006788
Observations	66	44
Hypothesized Mean Difference	0	
df	75	
t Stat	-0.74765527	
P(T<=t) one-tail	0.228502986	
t Critical one-tail	1.665425771	
P(T<=t) two-tail	0.457005973	
t Critical two-tail	1.992102625	

8) t-Test: Two – Sample Assuming Unequal Variances for Cultivable Area % Distribution

	Variable 1	*Variable 2*
Mean	59.00106061	65.65386364
Variance	345.527225	256.9329219
Observations	66	44
Hypothesized Mean Difference	0	
df	101	
t Stat	-1.999124066	
P(T<=t) one-tail	0.024140733	
t Critical one-tail	1.660080216	
P(T<=t) two-tail	0.048281465	
t Critical two-tail	1.983730726	

ANNEXURE – VIII–2

Summary Outputs of 't'–Test Computation for Different Variables

(Computation based on the Data represented in Annexure VI)

2.1) Summary Outputs of t–Test Computations for Forest and Non–Forest Areas

1) t–Test: Two–Sample Assuming Unequal Variances for Tribal Density

	Variable 1	*Variable 2*
Mean	3.166666667	2.611111111
Variance	2.333333333	1.781045752
Observations	12	18
Hypothesized Mean Difference	0	
df	21	
t Stat	1.025660859	
P(T<=t) one-tail	0.158360848	
t Critical one-tail	1.720743512	
P(T<=t) two-tail	0.316721695	
t Critical two-tail	2.079614205	

2) t–Test: Two – Sample Assuming Unequal Variances for Scheduled Tribe % Distribution

	Variable 1	*Variable 2*
Mean	62.75	94.33333333
Variance	533.4772727	39.29411765
Observations	12	18
Hypothesized Mean Difference	0	
df	12	
t Stat	-1.696121124	
P(T<=t) one-tail	0.057813776	
t Critical one-tail	1.782286745	
P(T<=t) two-tail	0.115627551	
t Critical two-tail	2.178812792	

3) t–Test: Two – Sample Assuming Unequal Variances for Literate Population % Distribution

	Variable 1	*Variable 2*
Mean	20.5	24.58823529
Variance	175.1818182	214.5073529
Observations	12	17
Hypothesized Mean Difference	0	
df	25	
t Stat	-0.783644756	
P(T<=t) one-tail	0.220305101	
t Critical one-tail	1.708140189	
P(T<=t) two-tail	0.440610202	
t Critical two-tail	2.05953711	

4) t–Test: Two–Sample Assuming Unequal Variances for Cultivable Land Distribution

	Variable 1	*Variable 2*
Mean	28.35	35.25
Variance	179.1313636	398.7426471
Observations	12	18
Hypothesized Mean Difference	0	
df	28	
t Stat	-1.133128931	
P(T<=t) one-tail	0.133384938	
t Critical one-tail	1.701130259	
P(T<=t) two-tail	0.266769877	
t Critical two-tail	2.048409442	

5) t-Test: Two Sample Assuming Unequal Variances for Soil Depth

	Variable 1	*Variable 2*
Mean	2.791666667	2.861111111
Variance	0.293560606	0.200163399
Observations	12	18
Hypothesized Mean Difference	0	
df	21	
t Stat	-0.368139767	
P(T<=t) one-tail	0.358226905	
t Critical one-tail	1.720743512	
P(T<=t) two-tail	0.716453811	
t Critical two-tail	2.079614205	

6) t-Test: Two-Sample Assuming Unequal Variances for Average Productivity

	Variable 1	*Variable 2*
Mean	4.75	5.666666667
Variance	2.75	3.882352941
Observations	12	18
Hypothesized Mean Difference	0	
df	26	
t Stat	-1.374368542	
P(T<=t) one-tail	0.090529528	
t Critical one-tail	1.705616341	
P(T<=t) two-tail	0.181059055	
t Critical two-tail	2.055530786	

7) t-Test: Two-Sample Assuming Unequal Variances for Diseased Population

	Variable 1	*Variable 2*
Mean	18.33333333	16.67777778
Variance	69.6969697	12.46653595
Observations	12	18
Hypothesized Mean Difference	0	
df	14	
t Stat	0.649329042	
P(T<=t) one-tail	0.26331794	
t Critical one-tail	1.76130925	
P(T<=t) two-tail	0.52663588	
t Critical two-tail	2.144788596	

8) t-Test: Two-Sample Assuming Unequal Variances for Mean Distance between Settlement Agglomerations

	Variable 1	*Variable 2*
Mean	0.45	0.6
Variance	0.044545455	0.117647059
Observations	12	18
Hypothesized Mean Difference	0	
df	28	
t Stat	-1.481733979	
P(T<=t) one-tail	0.07478928	
t Critical one-tail	1.701130259	
P(T<=t) two-tail	0.149578561	
t Critical two-tail	2.048409442	

9) t-Test: Two – Sample Assuming Unequal Variances for Mean Extent of Villages

	Variable 1	*Variable 2*
Mean	2.364166667	2.38
Variance	0.206953788	0.595341176
Observations	12	18
Hypothesized Mean Difference	0	
df	28	
t Stat	-0.070582851	
P(T<=t) one-tail	0.47211574	
t Critical one-tail	1.701130259	
P(T<=t) two-tail	0.94423148	
t Critical two-tail	2.048409442	

2.2) Summary Outputs of 't'–Test Computation for Riverine and Non–Riverine Areas

1) t–Test: Two – Sample Assuming Unequal Variances for Tribal Density Distribution

	Variable 1	*Variable 2*
Mean	2.842105263	2.818181818
Variance	2.029239766	2.163636364
Observations	19	11
Hypothesized Mean Difference	0	
df	20	
t Stat	0.043425718	
P(T<=t) one-tail	0.482896407	
t Critical one-tail	1.724718004	
P(T<=t) two-tail	0.965792814	
t Critical two-tail	2.085962478	

2) t–Test: Two – Sample Assuming Unequal Variances for Tribal (%) Distribution

	Variable 1	*Variable 2*
Mean	92.78947368	84.36363636
Variance	112.9532164	497.4545455
Observations	19	11
Hypothesized Mean Difference	0	
df	13	
t Stat	1.177914183	
P(T<=t) one-tail	0.129972302	
t Critical one-tail	1.770931704	
P(T<=t) two-tail	0.259944603	
t Critical two-tail	2.16036824	

3) t–Test: Two – Sample Assuming Unequal Variances for Cultivable Land Distribution

	Variable 1	*Variable 2*
Mean	31.48684211	34.22272727
Variance	152.9477339	628.6656818
Observations	19	11
Hypothesized Mean Difference	0	
df	13	
t Stat	-0.338820529	
P(T<=t) one-tail	0.370077604	
t Critical one-tail	1.770931704	
P(T<=t) two-tail	0.740155207	
t Critical two-tail	2.16036824	

4) t–Test: Two – Sample Assuming Unequal Variances for Soil–Depth Distribution

	Variable 1	*Variable 2*
Mean	2.763157895	2.954545455
Variance	0.260233918	0.172727273
Observations	19	11
Hypothesized Mean Difference	0	
df	25	
t Stat	-1.116213874	
P(T<=t) one-tail	0.13747235	
t Critical one-tail	1.708140189	
P(T<=t) two-tail	0.2749447	
t Critical two-tail	2.05953711	

5) t-Test: Two – Sample Assuming Unequal Variances for Average Productivity Distribution

	Variable 1	*Variable 2*
Mean	4.947368421	5.909090909
Variance	4.274853801	1.890909091
Observations	19	11
Hypothesized Mean Difference	0	
df	27	
t Stat	-1.52655684	
P(T<=t) one-tail	0.069250882	
t Critical one-tail	1.703288035	
P(T<=t) two-tail	0.138501765	
t Critical two-tail	2.051829142	

6) t-Test: Two – Sample Assuming Unequal Variances for Forest Area Distribution

	Variable 1	*Variable 2*
Mean	7.422631579	9.332727273
Variance	64.71228713	106.3984818
Observations	19	11
Hypothesized Mean Difference	0	
df	17	
t Stat	-0.52817297	
P(T<=t) one-tail	0.302103154	
t Critical one-tail	1.739606432	
P(T<=t) two-tail	0.604206307	
t Critical two-tail	2.109818524	

7) t-Test: Two – Sample Assuming Unequal Variances for Mean-Distance between Settlement Agglomerations

	Variable 1	*Variable 2*
Mean	0.557894737	0.509090909
Variance	0.118128655	0.050909091
Observations	19	11
Hypothesized Mean Difference	0	
df	27	
t Stat	0.46863116	
P(T<=t) one-tail	0.321547472	
t Critical one-tail	1.703288035	
P(T<=t) two-tail	0.643094944	
t Critical two-tail	2.051829142	

8) t-Test: Two – Samples Assuming Unequal Variances for Mean Extent of Villages

	Variable 1	*Variable 2*
Mean	2.252105263	2.583636364
Variance	0.410917544	0.423685455
Observations	19	11
Hypothesized Mean Difference	0	
df	21	
t Stat	-1.351847695	
P(T<=t) one-tail	0.095403027	
t Critical one-tail	1.720743512	
P(T<=t) two-tail	0.190806054	
t Critical two-tail	2.079614205	