

CHAPTER 4
DATA ANALYSIS AND
INTERPRETATION

CHAPTER 4

DATA ANALYSIS AND INTERPRETATION

4.1 INTRODUCTION

In the first chapter problem was stated, objectives were formulated and limitations were spelt out. In the second chapter, brief review of research work was considered. In the third chapter, the methodology of the present work was described. In this fourth chapter researcher presents data analysis and interprets them.

Analysis of research data is an important step in the dissertation process. This is the time a researcher may reach important facts about the data collected, uncover facts that one might not otherwise have known. Assuming the need to analyse the data collected from the survey, the process begins with a quick review of the results, followed by analysis and reporting.

4.2 DATA BASE

The data is collected from the following two government schools and two private schools of Bhopal. The schools selected for the study are as follows.

Table 4.1

Sl. No.	Name of School	Type	No. of Student
1	Govt. Girls Higher Secondary School, Govindpura	Govt.	50
2	Kamla Nehru Govt. Girls Higher School, TT Nagar	Govt.	50
3	Kendriya Vidyalaya 1 , MP Nagar	Private	50
4	M.K.N. Higher Secondary School, Govindpura	Private	50

Table 4.2

Sl. No	Name of School	Type of School	Number of Student	Gender (Boy/Girl)	Raw Score (SES)	Inference (SES)	Raw Score (EA)	Inference (EA)
1	Govt. Girls	Govt.	SHIRIN	GIRL	106	AVG	18	BELOW AVG
2	Higher		SARITA CHANDRAVANSHI	GIRL	89	LOW	16	LOW
3	Secondary		SAUMYA SEN	GIRL	103	LOW	21	AVG
4	School,		SWATI SEN	GIRL	62	LOW	22	AVG
5	Govindpura		DEEPA UBANARE	GIRL	97	LOW	27	HIGH
6			PRITI OJHA	GIRL	58	LOW	26	ABOVE AVG
7			RIKI KUSHWAH	GIRL	67	LOW	24	AVG
8			RUBINA KHATUN	GIRL	80	LOW	32	HIGH
9			MANISHA AHIRWAR	GIRL	79	LOW	22	AVG
10			DEEPIKA CHOUHAN	GIRL	108	AVG	21	AVG
11			NAGMA KHAN	GIRL	67	LOW	16	LOW
12			MUSHKAN SAWNER	GIRL	64	LOW	23	AVG
13			NAGMA PRAVIN	GIRL	99	LOW	23	AVG
14			PRITI	GIRL	52	LOW	23	AVG
15			USHA PAL	GIRL	54	LOW	15	LOW
16			DIPTI SHUKLA	GIRL	54	LOW	17	LOW
17			ALISHA	GIRL	97	LOW	27	HIGH
18			PUJA SAHINI	GIRL	50	LOW	25	ABOVE AVG
19			TABASUM SAYED	GIRL	68	LOW	13	LOW
20			SANGITA MANDAL	GIRL	77	LOW	15	LOW
21			SHIVANI LOVABSE	GIRL	119	AVG	15	LOW
22			SUNADA VERMA	GIRL	60	LOW	16	LOW
23			NAJIYA	GIRL	76	LOW	21	AVG
24			PRIYANKA GUPTA	GIRL	51	LOW	24	AVG
25			URAVASHI SINGH	GIRL	55	LOW	20	AVG
26			RUKHSAR	GIRL	71	LOW	14	LOW
27			KUSUM BHARDWAJ	GIRL	58	LOW	24	AVG
28			RATANMALA SURYAVANSHI	GIRL	61	LOW	25	ABOVE AVG
29			PUJA LODHI	GIRL	74	LOW	28	HIGH
30			MONIKA SHARMA	GIRL	114	AVG	19	BELOW AVG
31			SAFIYA BANO	GIRL	48	LOW	18	BELOW AVG
32			AYUSHI RAJPUT	GIRL	73	LOW	26	ABOVE AVG
33			FARIN KHAN	GIRL	79	LOW	25	AVG
34			TABASUM HANIF	GIRL	53	LOW	15	LOW

35			CHETNA YADAV	GIRL	78	LOW	26	ABOVE AVG
36			CHANDA GHAMGAYE	GIRL	63	LOW	24	AVG
37			FHATMA	GIRL	69	LOW	24	AVG
38			SHOBHA YADAV	GIRL	56	LOW	22	AVG
39			RAKHI SAHU	GIRL	91	LOW	10	VERY LOW
40			BHARTI	GIRL	102	LOW	18	BELOW AVG
41			SHAISTA	GIRL	86	LOW	21	AVG
42			DEEPAI CHOUHAN	GIRL	66	LOW	18	BELOW AVG
43			SABA AHMED	GIRL	53	LOW	27	HIGH
44			RACHNA	GIRL	67	LOW	20	AVG
45			PUSHPA DHURVE	GIRL	78	LOW	26	ABOVE AVG
46			AFHRIN BANO	GIRL	92	LOW	30	HIGH
47			TANUJA AHIRWAR	GIRL	42	LOW	24	AVG
48			SHAJIYA KHAN	GIRL	64	LOW	15	LOW
49			SAMAD BI	GIRL	109	AVG	16	LOW
50			SHAJMA	GIRL	113	AVG	20	AVG
Sl. No	Name of School	Type of School	Number of Student	Gender (Boy / Girl)	Raw Score (SES)	Inference (SES)	Raw Score (EA)	Inference (EA)
1	Kamla Nehru Govt. Girls Higher School, TT Nagar	Govt.	PUJA SURYAWASNSHI	GIRL	85	LOW	25	ABOVE AVG
2			KANCHAN TIWARI	GIRL	80	LOW	15	LOW
3			VINITA MANDRE	GIRL	163	AVG	19	BELOW AVG
4			SANDHAYA JATAV	GIRL	66	LOW	26	ABOVE AVG
5			ANUSUIA GAOND	GIRL	148	AVG	26	ABOVE AVG
6			DIVYA YADAV	GIRL	72	LOW	25	ABOVE AVG
7			PUJA AHIRWAR	GIRL	72	LOW	21	AVG
8			AMRITA PATEL	GIRL	51	LOW	20	AVG
9			VERSHA SAHU	GIRL	107	AVG	22	AVG
10			MEGHA CHOURISHIYA	GIRL	72	LOW	18	BELOW AVG
11			SALINI PRAJAPATI	GIRL	162	AVG	30	HIGH
12			RACHNA RAJPUT	GIRL	142	AVG	19	BELOW AVG
13			PALAVI MADHUKAR ARAK	GIRL	138	AVG	30	HIGH
14			VISHAKHA GARWAL	GIRL	94	LOW	27	HIGH
15			ARTI AHIRWAR	GIRL	106	AVG	21	AVG
16			PAYAL	GIRL	66	LOW	20	AVG
17			RUKMANI GOND	GIRL	89	LOW	18	BELOW AVG

18		SHEETAL	GIRL	71	LOW	28	HIGH
19		SWETA VERMA	GIRL	102	LOW	28	HIGH
20		NEETU KUSHWAHA	GIRL	69	LOW	20	AVG
21		SWATI SAHU	GIRL	63	LOW	25	ABOVE AVG
22		REENA PETARI	GIRL	73	LOW	29	HIGH
23		PUJA GUNJ	GIRL	69	LOW	18	BELOW AVG
24		MANISH VISHWAKARMA	GIRL	66	LOW	25	ABOVE AVG
25		PRIYANKA KUSHWAHA	GIRL	84	LOW	15	LOW
26		DEEPMALA VISHWAKARMA	GIRL	101	LOW	28	HIGH
27		PRIYANKA SONI	GIRL	79	LOW	24	AVG
28		MEHAJBIN KHAN	GIRL	119	AVG	24	AVG
29		RUCHI TIWARI	GIRL	127	AVG	21	AVG
30		SONI MAJHI	GIRL	96	LOW	28	HIGH
31		VANDANA AHIRWAR	GIRL	78	LOW	19	BELOW AVG
32		RACHNA GANNOTE	GIRL	67	LOW	28	HIGH
33		SWATI VERMA	GIRL	85	LOW	29	HIGH
34		MALA SINGH	GIRL	115	AVG	23	AVG
35		KUMARI YOGESWARI	GIRL	71	LOW	29	HIGH
36		PUJA PATAK	GIRL	108	AVG	21	AVG
37		SULEKHA BARMAN	GIRL	87	LOW	14	LOW
38		SOMLI GOTE	GIRL	78	LOW	22	AVG
39		RUBI KHAN	GIRL	72	LOW	19	BELOW AVG
40		PUJA MOHE	GIRL	87	LOW	25	ABOVE AVG
41		RENUKA VISWAKARMA	GIRL	58	LOW	22	ABOVE AVG
42		ANJALI YADAV	GIRL	113	AVG	26	ABOVE AVG
43		MANTASHA KHAN	GIRL	100	LOW	18	BELOW AVG
44		MADHU VISWAKARMA	GIRL	53	LOW	17	LOW
45		NILESHA RAJPUT	GIRL	65	LOW	22	AVG
46		KHUSBU MEENA	GIRL	56	LOW	16	LOW
47		PINKI GHANGAR	GIRL	90	LOW	17	LOW
48		VINITA EMANE	GIRL	93	LOW	20	AVG
49		DAMINI KIR	GIRL	44	LOW	17	LOW
50		REKHA SOUNDHIYA	GIRL	72	LOW	17	LOW

Sl. No	Name of School	Type of School	Number of Student	Gender (Boy / Girl)	Raw Score (SES)	Inference (SES)	Raw Score (EA)	Inference (EA)
1	Kendriya Vidyalaya 1, MP Nagar	Private	MANISHA KHARE	GIRL	190	AVG	15	LOW
2			SHRADHA BAIRAGI	GIRL	178	AVG	23	AVG
3			BHAWNA MADHAV	GIRL	145	AVG	29	HIGH
4			SHACHI AJMERA	GIRL	205	AVG	26	ABOVE AVG
5			MANISHA CHAKRAVARTI	GIRL	107	AVG	15	LOW
6			PRAKHAR PALI	BOY	194	AVG	16	LOW
7			SHILPA RAWAT	GIRL	117	AVG	26	ABOVE AVG
8			ENILISHA KHAKHA	GIRL	101	LOW	17	LOW
9			SAMRIDHI DIVEDI	GIRL	260	HIGH	22	AVG
10			ANCHAL TIWARI	GIRL	139	AVG	24	AVG
11			BHAWNA TAYDE	GIRL	138	AVG	30	HIGH
12			YASH SINGH	BOY	134	AVG	19	BELOW AVG
13			PRATAP RAGHUVANSHI	BOY	138	AVG	29	HIGH
14			PRIYANKA GRIHE	GIRL	55	LOW	27	HIGH
15			SWETA SINGH RAJPUT	GIRL	147	AVG	26	ABOVE AVG
16			LATA KUSHWAHA	GIRL	94	LOW	23	AVG
17			BULBUL MALVIYA	GIRL	80	LOW	31	VERY HIGH
18			HIMANSU MISHRA	BOY	180	AVG	24	AVG
19			AVNIT KAUR	GIRL	153	AVG	30	HIGH
20			YASHVI SHARMA	GIRL	180	AVG	17	LOW
21			PALAVI MALVIYA	GIRL	141	AVG	17	LOW
22			GHANASHRI TIWARI	GIRL	155	AVG	25	ABOVE AVG
23			KRITIKA PATAK	GIRL	194	AVG	19	BELOW AVG
24			PRASHANT PARIHAR	BOY	167	AVG	20	AVG
25			JANHAVI SINGH BADHEL	GIRL	142	AVG	15	LOW
26			ANKITA BUDHANI	GIRL	195	AVG	18	BELOW AVG
27			RAMIJ UDDIN SHIDHIKI	BOY	116	AVG	21	AVG
28			RUCHI GOUR	GIRL	88	LOW	22	AVG
29			PARAKH GUJAR	BOY	237	HIGH	25	ABOVE AVG
30			SACHHI JAIN	GIRL	205	AVG	18	BELOW AVG
31			VIPUL SHARMA	BOY	154	AVG	13	LOW
32			MAYUR	BOY	125	AVG	15	LOW
33			MANMOHAN SINGH	BOY	156	AVG	15	LOW
34			DHANUJA RANGARE	GIRL	161	AVG	14	LOW

35			KAVITA KUMARI	GIRL	134	AVG	27	HIGH
36			HARSITA GUPTA	GIRL	170	AVG	27	HIGH
37			EKTA SHARMA	GIRL	160	AVG	27	HIGH
38			SHREYA GAWALKAR	GIRL	195	AVG	28	HIGH
39			AOSHI SHARMA	GIRL	159	AVG	21	AVG
40			MANNAN ALI KHAN	BOY	131	AVG	15	LOW
41			ASHUTOSH PATAK	BOY	199	AVG	15	LOW
42			SUMIT SAXENA	BOY	178	AVG	15	LOW
43			PALAVI	GIRL	143	AVG	15	LOW
44			DISHA SRIVATSAVA	GIRL	175	AVG	31	VERY HIGH
45			ROHIT	BOY	164	AVG	20	AVG
46			AYUSH MISHRA	BOY	153	AVG	20	AVG
47			NILESH TRIPATHI	BOY	100	LOW	21	AVG
48			RAHUL KUMAR	BOY	128	AVG	15	LOW
49			NISHA KUMARI	GIRL	160	AVG	21	AVG
50			SOURAV VERMA	BOY	135	AVG	15	LOW
Sl. No	Name of School	Type of School	Number of Student	Gender (Boy / Girl)	Raw Score (SES)	Inference (SES)	Raw Score (EA)	Inference (EA)
1	M.K.N.	Private	ASHUTOSH SUKHLA	BOY	150	AVG	35	VERY HIGH
2	Higher		HARSH	BOY	78	LOW	14	LOW
3	Seconday		NITIN KUMAR GANGVANE	BOY	79	LOW	29	HIGH
4	School,		ALYA LODHE	GIRL	120	AVG	24	AVG
5	Govindpura		GEETA YADAV	GIRL	125	AVG	27	HIGH
6			SHALU SRIVATSAVA	GIRL	129	AVG	26	ABOVE AVG
7			SEEMA PATAVI	GIRL	68	LOW	22	AVG
8			NEHA AHIRWAR	GIRL	108	AVG	22	AVG
9			BOBI SINGH	BOY	125	AVG	28	HIGH
10			ABHIRAJ RAIKWAR	BOY	137	AVG	25	ABOVE AVG
11			ANKUSH SINGH PARIHAR	BOY	86	LOW	22	AVG
12			ARTI MISHRA	GIRL	115	AVG	19	BELOW AVG
13			SHIVANI SRIVATSAVA	GIRL	99	LOW	24	AVG
14			SAHID	BOY	80	LOW	24	AVG
15			NILESH PAWAR	BOY	76	LOW	21	AVG
16			SOBHA KUMARI	GIRL	81	LOW	14	LOW
17			RAKHI YADAV	GIRL	76	LOW	18	BELOW AVG

18		TABSSUM BEGAM	GIRL	84	LOW	20	AVG
19		RUKHSAR	GIRL	68	LOW	25	ABOVE AVG
20		JAISHREE SHIKARI	GIRL	171	AVG	21	AVG
21		ADITYA SINGH	BOY	82	LOW	23	AVG
22		AKASH SHARMA	BOY	134	AVG	15	LOW
23		DEEPA SHARMA	GIRL	73	LOW	27	HIGH
24		RINKI YADAV	GIRL	46	LOW	19	BELOW AVG
25		SHIRIN	GIRL	69	LOW	20	AVG
26		NANDA VERMA	GIRL	138	AVG	20	AVG
27		SWATI SUKHLA	GIRL	42	LOW	21	AVG
28		PRIYANKA SRIVATSAVA	GIRL	64	LOW	23	AVG
29		RUCHI	GIRL	61	LOW	24	AVG
30		SARITA VERMA	GIRL	86	LOW	19	BELOW AVG
31		ALIYA	GIRL	69	LOW	15	LOW
32		MANISHA PARIHAR	GIRL	62	LOW	14	LOW
33		TANUJA	GIRL	73	LOW	16	LOW
34		PRITI KUMARI	GIRL	72	LOW	17	LOW
35		PRASANT SHARMA	BOY	115	AVG	18	BELOW AVG
36		MADHU KUSHWAHA	GIRL	120	AVG	19	BELOW AVG
37		BHARTI AHIRWAR	GIRL	98	LOW	20	AVG
38		ISITA KUMARI	GIRL	70	LOW	19	BELOW AVG
39		ANJALI TIWARI	GIRL	82	LOW	20	AVG
40		MALA YADAV	GIRL	101	AVG	21	AVG
41		PRIYANKA MALVIYA	GIRL	108	AVG	22	AVG
42		SOURAV PATAK	BOY	111	AVG	25	ABOVE AVG
43		RAM KUMAR	BOY	65	LOW	13	LOW
44		ROHIT ARORA	BOY	78	LOW	16	LOW
45		SUMIT KUMAR	BOY	85	LOW	18	BELOW AVG
46		EKTA VERMA	GIRL	115	AVG	17	LOW
47		SACHHI JAIN	GIRL	130	AVG	25	ABOVE AVG
48		SWETA VISHWAKARMA	GIRL	135	AVG	24	AVG
49		MANISHA SINHA	GIRL	105	AVG	25	ABOVE AVG
50		RUCHI VISHWAKARMA	GIRL	89	LOW	30	HIGH

4.3 DATA ANALYSIS AND INTERPRETATION

The present study aimed to know the relationship between socio-economic status and educational aspiration of higher secondary school students. Objective of this study as follows-

Section 'A': Results pertaining to Relationship

(1) To study the relationship between the socio-economic status and educational aspiration among higher secondary school students.

Hypothesis: There is no significant relationship between Socio-Economic Status and Educational Aspiration.

Table 4.3

	N	Mean	r-value
Socio-Economic Status	200	21.48	0.0133
Educational Aspiration		102.82	

Interpretation

Table 4.3 shows that the value of r is 0.0133. It indicates a positive correlation. Here table 4.3 shows that the calculated value (0.0133) is less than the table value (1.97). This indicates a significant positive correlation.

On the basis of above, it can be concluded that, Educational Aspiration is positively correlated with Socio-Economic Status of students. Having seen the relationship between variables on total sample, the researcher intends to see the relationship among girls and boys separately.

(2) To study the relationship between Social-Economic Status and Educational Aspiration among girls.

Hypothesis: There is no significant relationship between Socio-Economic Status and Education Aspiration among girls.

Table 4.4

	N	Mean	r-value
Socio-Economic Status	167	97.57	0.1027
Educational Aspiration		21.78	

Interpretation

Table 4.4 show that the value of r is 0.1027. It indicates that there is a positive correlation. That means high scores on one variable (SES) tend to be associated with high scores on the other variable (EA) and vice versa.

(3) To study the relationship between Socio-Economic Status and Educational Aspiration among boys.

Hypothesis: There is no significant relationship between Socio-Economic Status and Educational Aspiration among boys

Table 4.5

	N	Mean	r-value
Socio-Economic Status	33	129.39	-0.0063
Educational Aspiration		19.97	

Interpretation

Table 4.5 show that the value of r is -0.0063. It indicates that there is a negative correlation. That means high scores on one variable (SES) are associated with low scores on the other variable (EA) and vice versa.

Section 'B': Results pertaining to Demographic variables

Objective: To study the difference between higher secondary school students of government and private school in Educational Aspiration

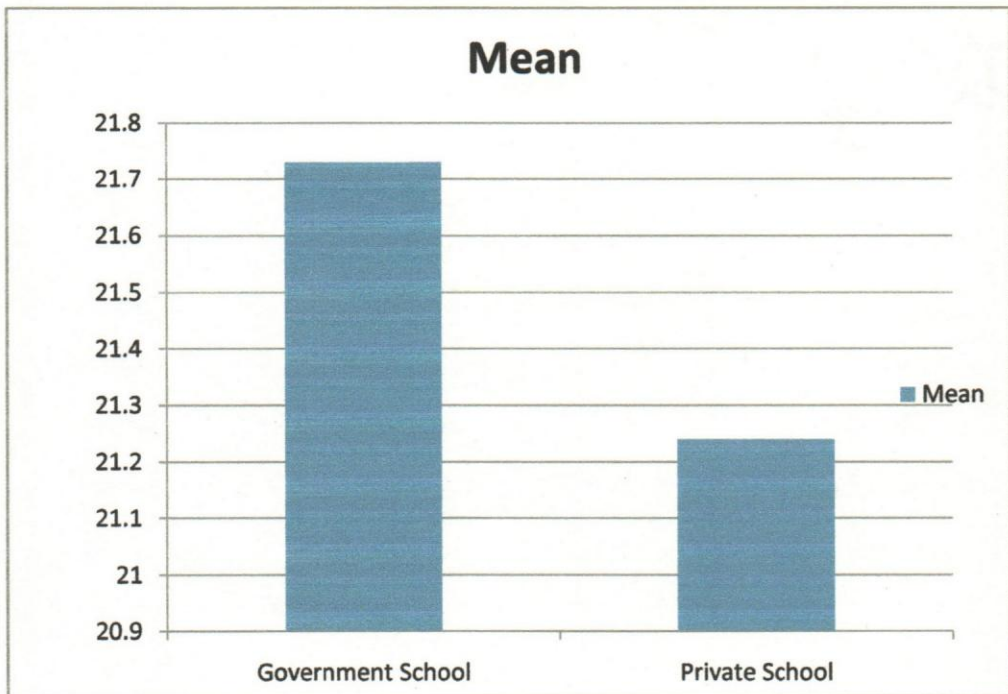
Hypothesis (Ho 1): There will be no significant difference between higher secondary school students of Government and Private school in Educational Aspiration.

Table 4.6

Comparison of mean score of government and private school students

	N	Mean	SD	t – value
Government School	100	21.73	4.69	0.46
Private School		21.24	4.98	df = 98

Graph 4.6



Interpretation

Table 4.3.3 shows that the calculated t-value (0.46) is less than the table value (1.98) at 0.05 level with 98 df, so it is no significant. Thus null hypothesis stated that there is no significant difference between EA of the government and private schools is accepted.

Objective: To study the difference between higher secondary school students of government and private school in Socio-Economic Status.

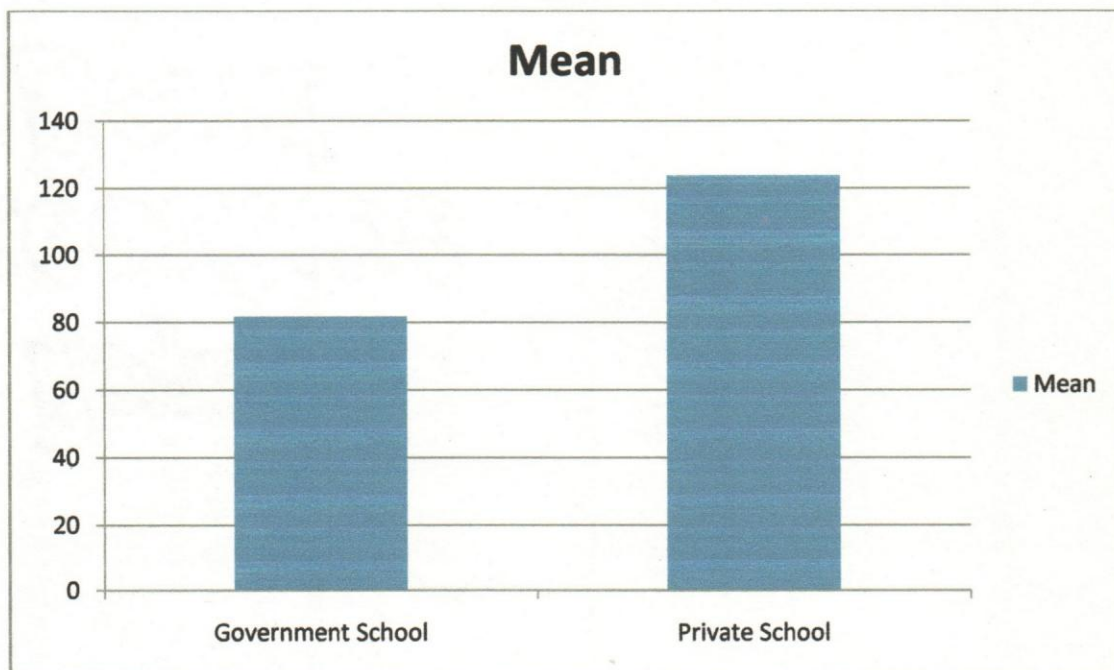
Hypothesis (Ho 2): There will be no significant difference between higher secondary school students of government and private school in socio-economic status.

Table 4.7

Comparison of Mean score of Socio-Economic Status of government and private school students

Group	N	Mean	SD	t – value
Government School	100	81.76	25.23	8.17
Private School		123.88	45.00	df = 98

Graph 4.7



Interpretation

Table 4.7 show that the calculated t-value (8.17) is higher than the table value (2.63) at 0.01 level with 98 df, so it is significant. Thus null hypothesis which stated that there is no significant difference between Socio-Economic Status of government and private schools is rejected.

Objective: To study the difference between boys and girls of higher secondary school students in Educational Aspiration.

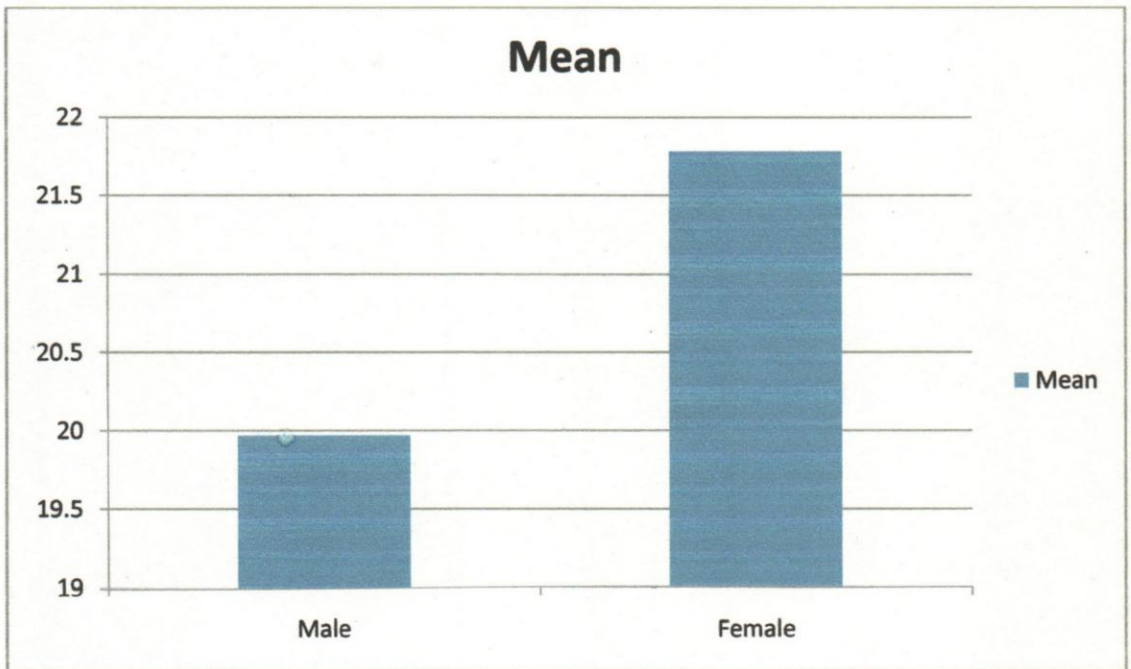
Hypothesis (Ho 3): There will be no significant difference between boys and girls of higher secondary school students in Educational Aspiration.

Table 4.8

Comparison of mean score of Educational Aspiration of Boys and Girls

Gender	N	Mean	SD	Df	t-value
Boys	33	19.97	5.45	198	2.48
Girls	167	21.78	4.67		

Graph 4.8



Interpretation

Table 4.8 shows that the significant difference in the mean score of educational aspiration of two variables. The t-value (2.48) was not significant at 0.01 level, so null hypothesis is accepted.

Objective: To study the difference between boys and girls of higher secondary school students in their Socio-Economic Status.

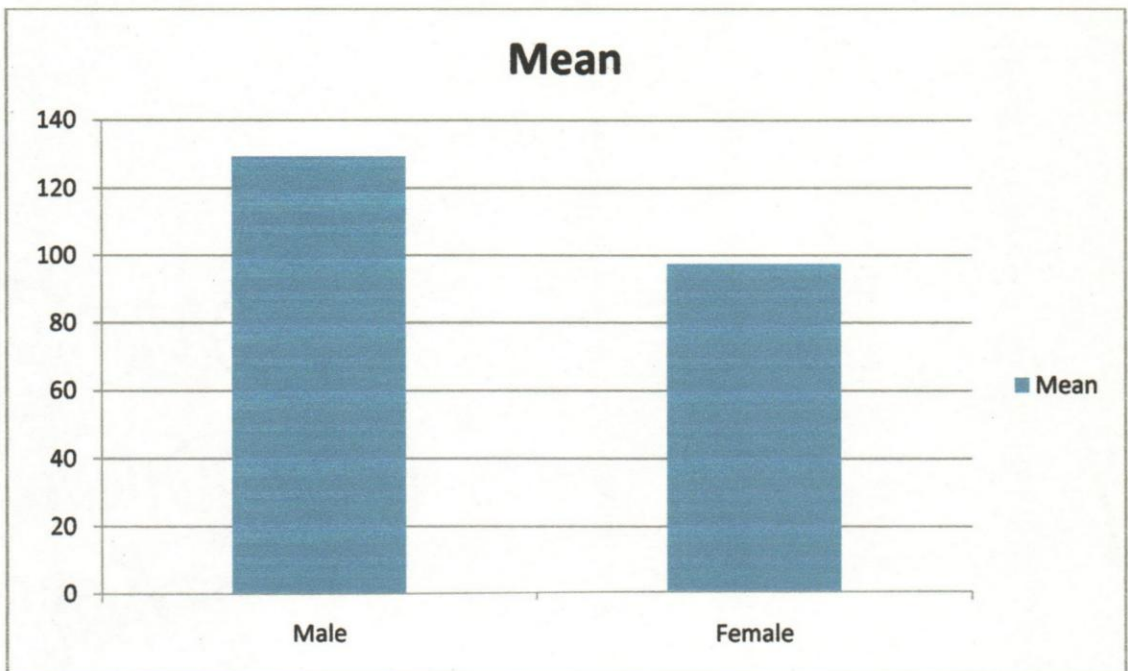
Hypothesis (Ho 4): There will be no significant difference between boys and girls of higher secondary school students in their Socio-Economic Status.

Table 4.9

Comparison of mean score of Socio-Economic Status of Boys and Girls

Gender	N	Mean	SD	df	t-value
Boys	33	129.39	41.69	198	4.07
Girls	167	97.57	40.24		

Graph 4.9



Interpretation

Table 4.9 shows that the calculated t-value (4.07) is higher than the table value (2.60). Thus null hypothesis which stated that there is no significant difference between Socio-Economic Status of higher secondary school students is rejected.