

**Assessing the Role of Educational Infrastructure Facilities Provided by Government and Private Sector in Improving Quality of Education with Special Reference to Mahuadanr**

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**Abstract**

Nelson Mandela, speaking on the value of education said that education is the most powerful weapon that one could use to change the world. Education indeed is the solution for most of the social, political and economic issues. It also has the capacity to transform human life. However, a good infrastructure plays very significant role in imparting quality education. Thus, availability of proper educational infrastructure at educational institutions not only helps in the effective teaching learning process but it also contributes in improving the performance of teachers and students. Infrastructure includes the physical and human resources available in the school that directly or indirectly help the all-round development of the students. The present study was conducted under objectives, to study the educational infrastructure facilities provided by Government, Semi-Government and Public schools in Mahuadanr. A Survey method was adopted for this study. Questionnaire for Assessment of Infrastructure Facilities was prepared to collect the data from the nine schools in Mahuadanr.

**Keywords:** Education, Infrastructure, institution, facility

**Introduction**

The educational institutes both government and private make sincere efforts to improve their education systems not only by providing quality education but also with a good infrastructure. The educational infrastructure facilities such as school building, ventilated and spacious classrooms, writing boards, computer labs, science labs, library with books from every area of study, modern technology and teaching aids, playgrounds and sports facility, CCTV, etc., play an important role in the all-round development of the students. The present study keeping these objectives studies the educational infrastructure facilities provided by Government, Semi-Government and Public schools in Mahuadanr.

Buckley, Schneider, and Shang in their work *Fix it and They Might Stay: School Facility Quality and Teacher Retention...*, stated that “infrastructure plays an important role in improving the quality of education” (Buckley, Schneider, and Shang, 2004), and in *Retaining Teachers of Color: A Pressing Problem and a Potential Strategy for 'Hard-to-Staff*, Betty,

Rodney, Ogawa, Dena and Casia assert that “the job satisfaction of teachers also partly depends on the school infrastructure facilities in which they working” (Betty A. Rodney, T. Ogawa, Dena S. and Casia F. 2010). Poor infrastructure facility at school affects the performance of teachers and Students as their interest, achievement and accountability depends on school infrastructure. Thus, the educational infrastructure of the school plays a significant role in imparting the quality education.

### **Statement of Problem**

As school infrastructure plays very important role for both teachers and students in the teaching-learning process, the present study analyses the infrastructural facilities provided by the government, semi-government and public schools in Mahuadanr.

### **Definitions**

**Infrastructure Facilities:** Infrastructure facilities include such as school buildings, ventilated and spacious classrooms, writing boards, computer labs, science labs, library with books from every area of study, modern technology and teaching aids, playgrounds and sports facility, CCTV, etc. to enable, sustain, or enhance quality education.

### **Objective of Study**

To assess the role of educational infrastructure facilities provided by Government, Semi-Government and Public schools in improving quality of education with special reference to Mahuadanr.

### **Methodology**

The Department of English, St. Xavier’s College, Mahuadanr adopted the survey method to study the infrastructure facilities of nine schools only in Mahuadanr. The study is an explorative type of research based on primary data collected by survey method by administering questionnaire to school students and teachers through personal visit. So, a survey method was selected for collection of data. 9 schools were selected by the Department of English for the survey method and the teachers and students of these schools responded to the questionnaire.

### **Tool used for the Study**

The students of English Hons prepared Questionnaire for assessment and personally visited 2 Government Schools, 5 Semi-Government schools and 2 public schools of Mahuadanr to gather the information of educational infrastructure facilities.

### Delimitations of the study

- The study is conducted in high schools and +2 schools only.
- The area chosen for conducting the study was only at Mahuadanr

**Table 1: List of the schools selected for the study**

#### Government Schools:

1. Project High School, Mahuadanr, Jharkhand
2. Government S.T. Residential High School, Mahuadanr, Jharkhand

#### Semi-Government Schools:

3. St. Joseph's High School, Mahuadanr, Jharkhand
4. St. Joseph's +2 School, Mahuadanr, Jharkhand
5. St. Teresa Girls' High School Mahuadanr, Jharkhand
6. St. Teresa Girls' +2 School, Mahuadanr, Jharkhand
7. Project S.D. Girls High School

#### Public Schools:

8. Xavier's Academy, Rampur, Mahuadanr, Jharkhand
9. RPS Residential Public School, Mahuadanr, Jharkhand

**Table 2: Details of the Responses of the Respondents**

	YES									NO										
	Govt. S		Semi Govt. S					Public S		Govt. S		Semi Govt. S					Public S			
S.N	1	2	3	4	5	6	7	8	9		1	2	3	4	5	6	7	8	9	
<b>Q1</b>	9	9	10	8	6	12	7	8	0	<b>69</b>	0	0	0	0	0	0	2	2	8	<b>12</b>
<b>Q2</b>	9	9	10	8	4	12	9	9	6	<b>76</b>	0	0	0	0	2	0	0	1	2	<b>5</b>
<b>Q3</b>	9	9	10	8	6	12	0	10	8	<b>72</b>	0	0	0	0	0	0	9	0	0	<b>9</b>
<b>Q4</b>	8	0	10	8	6	12	9	10	0	<b>63</b>	1	9	0	0	0	0	0	0	8	<b>18</b>

<b>Q 5</b>	0	9	10	8	6	12	9	10	0	<b>64</b>	9	0	0	0	0	0	0	0	8	<b>17</b>
<b>Q 6</b>	9	9	10	8	6	12	9	10	8	<b>81</b>	0	0	0	0	0	0	0	0	0	<b>0</b>
<b>Q 7</b>	9	9	10	6	6	12	0	7	8	<b>67</b>	0	0	0	2	0	0	9	3	0	<b>14</b>
<b>Q 8</b>	9	9	10	8	6	12	9	10	8	<b>81</b>	0	0	0	0	0	0	0	0	0	<b>0</b>
<b>Q 9</b>	1	9	10	8	6	12	9	9	3	<b>67</b>	8	0	0	0	0	0	0	1	5	<b>14</b>
<b>Q 10</b>	9	0	10	7	4	12	0	0	8	<b>50</b>	0	9	0	1	2	0	9	10	0	<b>31</b>
<b>Q 11</b>	9	9	10	8	6	12	9	10	0	<b>73</b>	0	0	0	0	0	0	0	0	8	<b>8</b>
<b>Q 12</b>	9	0	10	8	6	12	9	10	6	<b>70</b>	0	9	0	0	0	0	0	0	2	<b>11</b>
<b>Q 13</b>	9	9	10	8	6	12	9	10	8	<b>81</b>	0	0	0	0	0	0	0	0	0	<b>0</b>
<b>Q 14</b>	0	9	1	0	4	12	3	1	0	<b>30</b>	9	0	9	8	2	0	6	9	8	<b>51</b>
<b>Q 15</b>	9	0	10	8	6	12	0	10	8	<b>63</b>	0	9	0	0	0	0	9	0	0	<b>9</b>

### Data Analysis and Findings of the Study

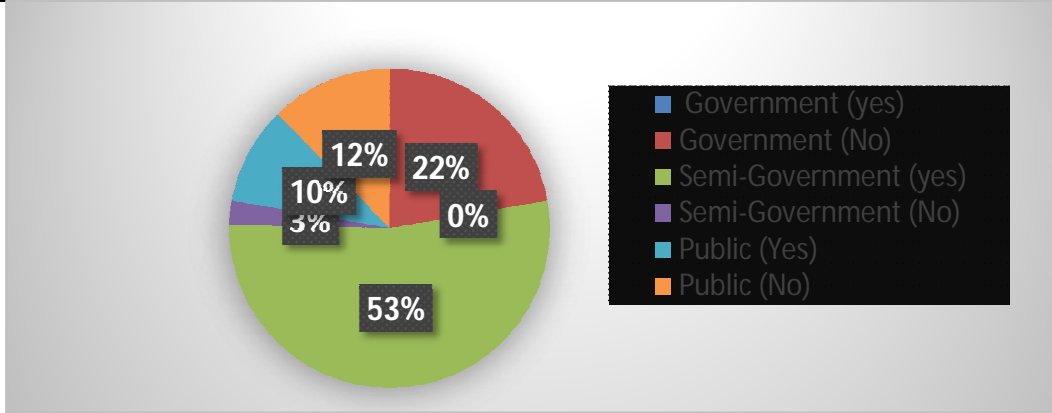
On the basis of data collected with the help of self-made questionnaire, an analysis was done and conclusion was drawn. An appropriate statistical treatment was given to the data collected.

### Responses and Findings

#### Question No. 1. Does this school have a library facility?

	<b>GOVERNMENT SCHOOLS</b>	YES	NO
1	Project High School	9	0
2	Govt. S.T. Residential High School	9	0
<b>SEMI GOVERNMENT SCHOOLS</b>			
3	St. Joseph's High School	10	0
4	St. Joseph's +2 School	8	0
5	St. Teresa Girls' High School	6	0
6	St. Teresa Girls' +2 School	12	0
7	Project S.D. Girls High School	7	2

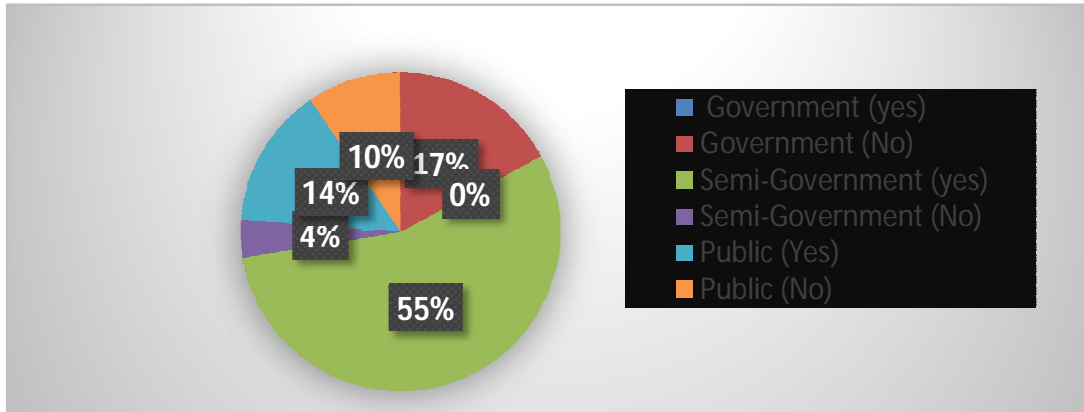
<b>PUBLIC SCHOOLS</b>			
8	Xavier's Academy	8	2
9	RPS Residential Public School	0	8



Finding shows that most of the schools have library facility except one public school, which has no library.

**Question No. 2. Do children have easy access to the usage of books such as dictionaries, reference books, current affairs, newspapers, magazines, etc.?**

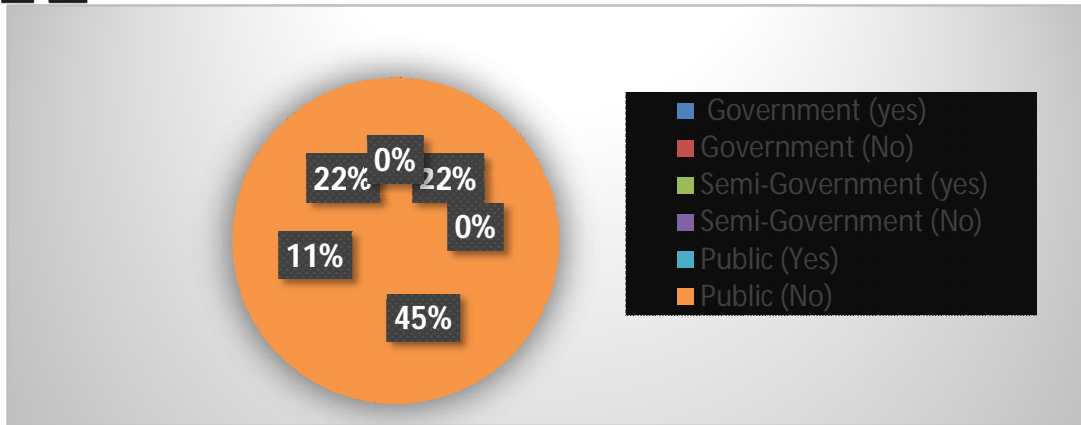
<b>GOVERNMENT SCHOOLS</b>		YES	NO
1	Project High School	9	0
2	Govt. S.T. Residential High School	9	0
<b>SEMI GOVERNMENT SCHOOLS</b>			
3	St. Joseph's High School	10	0
4	St. Joseph's +2 School	8	0
5	St. Teresa Girls' High School	4	2
6	St. Teresa Girls' +2 School	12	0
7	Project S.D. Girls High School	9	0
<b>PUBLIC SCHOOLS</b>			
8	Xavier's Academy	9	1
9	RPS Residential Public School	6	1



Most of the schools provide access to the books such as dictionaries, reference books, current affairs, newspapers, magazines, etc., however there is a semi – government school and both private schools lack some of them.

**Question No. 3. Does this School have a Computer Lab for students?**

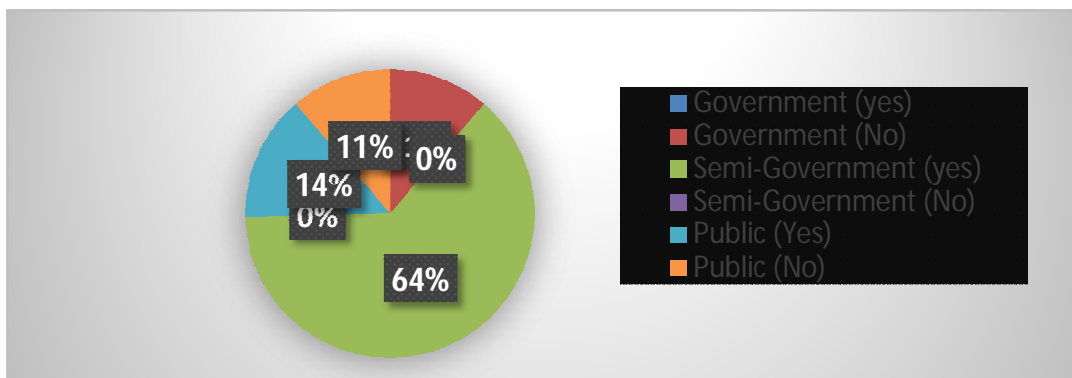
	<b>GOVERNMENT SCHOOLS</b>	YES	NO
1	Project High School	9	0
2	Govt. S.T. Residential High School	9	0
<b>SEMI GOVERNMENT SCHOOLS</b>			
3	St. Joseph’s High School	10	0
4	St. Joseph’s +2 School	8	0
5	St. Teresa Girls’ High School	6	0
6	St. Teresa Girls’ +2 School	12	0
7	Project S.D. Girls High School	0	9
<b>PUBLIC SCHOOLS</b>			
8	Xavier’s Academy	10	0
9	RPS Residential Public School	8	0



Most of the schools have computer lab except one semi-government school, which has no computer lab.

**Question No. 4. Does this school have science labs for experiments?**

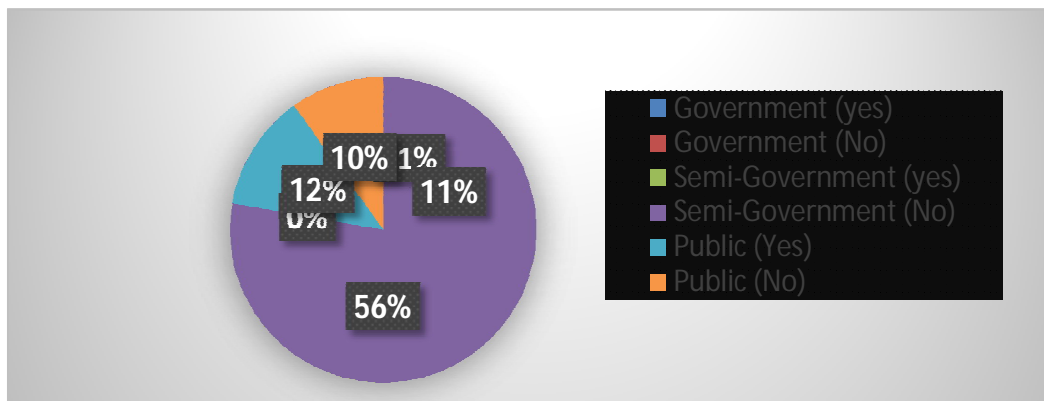
GOVERNMENT SCHOOLS		YES	NO
1	Project High School	8	1
2	Govt. S.T. Residential High School	0	9
SEMI GOVERNMENT SCHOOLS			
3	St. Joseph's High School	10	0
4	St. Joseph's +2 School	8	0
5	St. Teresa Girls' High School	6	0
6	St. Teresa Girls' +2 School	12	0
7	Project S.D. Girls High School	9	0
PUBLIC SCHOOLS			
8	Xavier's Academy	10	0
9	RPS Residential Public School	0	8



Most of the Semi-Government schools have science labs where as one government school and one private school has no science lab.

**Question No. 5. Does this school have a spacious playground?**

GOVERNMENT SCHOOLS		YES	NO
1	Project High School	0	9
2	Govt. S.T. Residential High School	9	0
SEMI GOVERNMENT SCHOOLS			
3	St. Joseph's High School	10	0
4	St. Joseph's +2 School	8	0
5	St. Teresa Girls' High School	6	0
6	St. Teresa Girls' +2 School	12	0
7	Project S.D. Girls High School	9	0
PUBLIC SCHOOLS			
8	Xavier's Academy	10	0
9	RPS Residential Public School	0	8



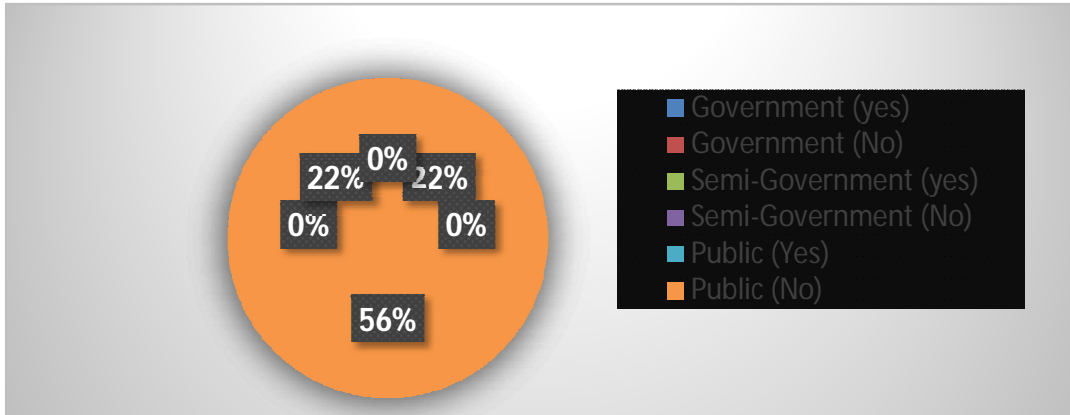
Semi-Government schools provide high standard playgrounds whereas one government school and one public school have no playgrounds.

**Question No. 6. Does this school have separate classrooms for students of all classes with basic facilities such as blackboard, desks and benches, etc. for students?**

GOVERNMENT SCHOOLS		YES	NO
1	Project High School	9	0
2	Govt. S.T. Residential High School	9	0
SEMI GOVERNMENT SCHOOLS			
3	St. Joseph's High School	10	0
4	St. Joseph's +2 School	8	0
5	St. Teresa Girls' High School	6	0
6	St. Teresa Girls' +2 School	12	0
7	Project S.D. Girls High School	9	0
PUBLIC SCHOOLS			



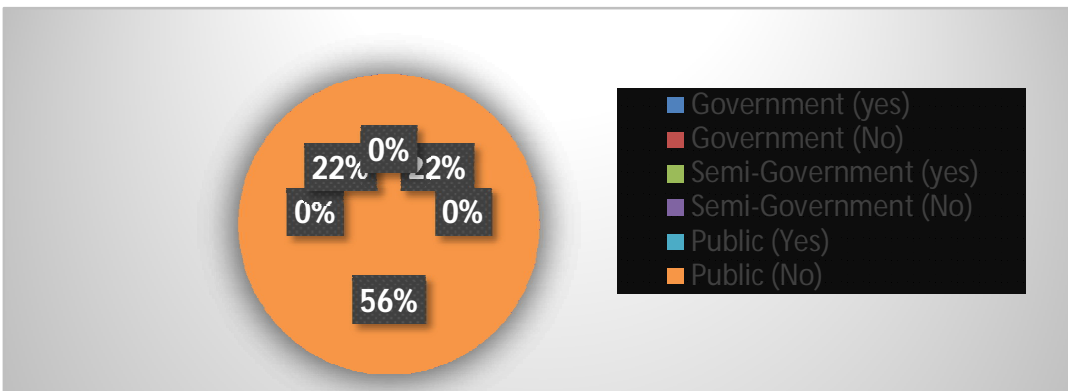
8	Xavier's Academy	10	0
9	RPS Residential Public School	8	0



All students have separate class rooms for the students of all classes with basic amenities such as blackboard, desks, benches etc., for the students.

**Question No. 7. Does this school have uninterrupted Electricity supply during the class hours?**

GOVERNMENT SCHOOLS		YES	NO
1	Project High School	9	0
2	Govt. S.T. Residential High School	9	0
SEMI GOVERNMENT SCHOOLS			
3	St. Joseph's High School	10	0
4	St. Joseph's +2 School	6	2
5	St. Teresa Girls' High School	6	0
6	St. Teresa Girls' +2 School	12	0
7	Project S.D. Girls High School	0	9
PUBLIC SCHOOLS			
8	Xavier's Academy	7	3
9	RPS Residential Public School	8	0



Most of the schools have

uninterrupted power supply during their class hours but one semi-government has no power supply and there are a few semi-government schools which has interrupted power supply during the class hours.

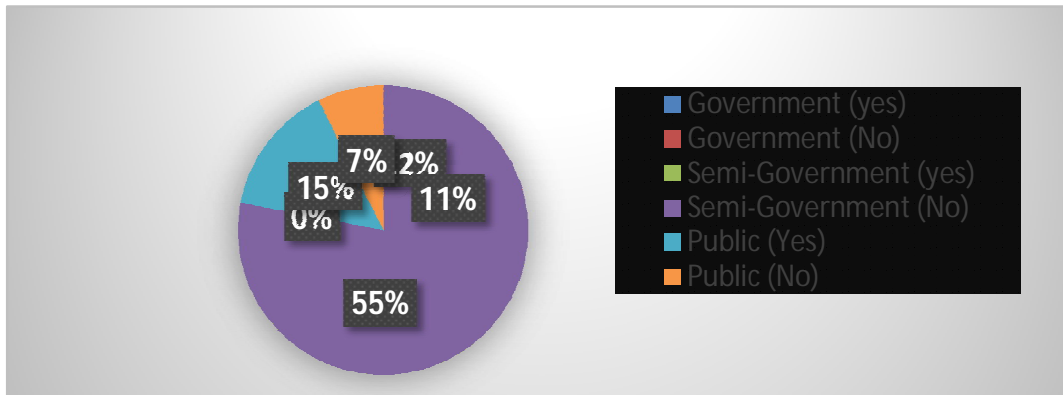
**Question No. 8. Does this school have a Drinking water facility?**

	<b>GOVERNMENT SCHOOLS</b>	YES	NO
1	Project High School	9	0
2	Govt. S.T. Residential High School	9	0
<b>SEMI GOVERNMENT SCHOOLS</b>			
3	St. Joseph's High School	10	0
4	St. Joseph's +2 School	8	0
5	St. Teresa Girls' High School	6	0
6	St. Teresa Girls' +2 School	12	0
7	Project S.D. Girls High School	9	0
<b>PUBLIC SCHOOLS</b>			
8	Xavier's Academy	10	0
9	RPS Residential Public School	8	0

All schools have proper drinking water facilities.

**Question No. 9. Does this school have sports facilities for students?**

	<b>GOVERNMENT SCHOOLS</b>	YES	NO
1	Project High School	1	8
2	Govt. S.T. Residential High School	9	0
<b>SEMI GOVERNMENT SCHOOLS</b>			
3	St. Joseph's High School	10	0
4	St. Joseph's +2 School	8	0
5	St. Teresa Girls' High School	6	0
6	St. Teresa Girls' +2 School	12	0
7	Project S.D. Girls High School	9	0
<b>PUBLIC SCHOOLS</b>			

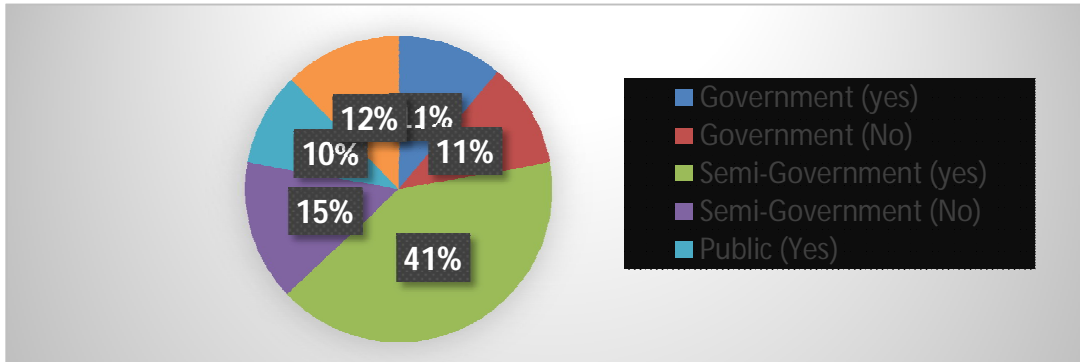


8	Xavier's Academy	9	1
9	RPS Residential Public School	3	5

Most of the semi-government schools have sports facilities. One government school has no sports facility whereas public schools lack proper sports facilities.

**Question No. 10. Does this school use smart class/Modern technology to impart quality education?**

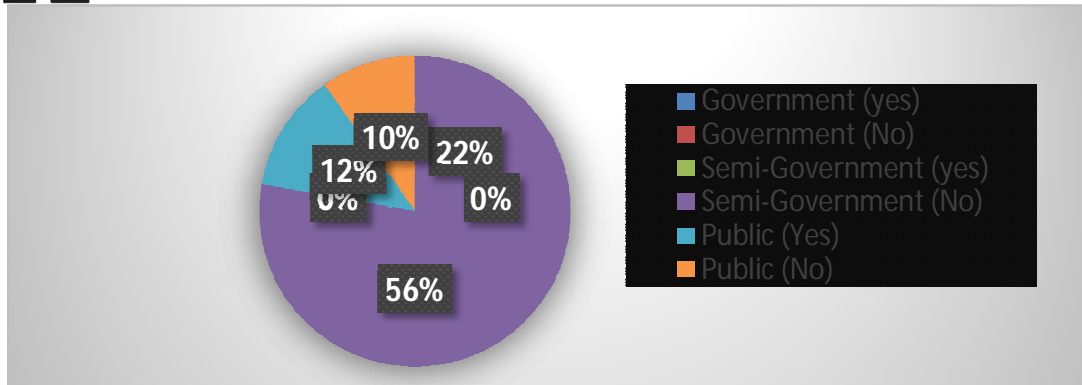
GOVERNMENT SCHOOLS		YES	NO
1	Project High School	9	0
2	Govt. S.T. Residential High School	0	9
SEMI GOVERNMENT SCHOOLS			
3	St. Joseph's High School	10	0
4	St. Joseph's +2 School	7	1
5	St. Teresa Girls' High School	4	2
6	St. Teresa Girls' +2 School	12	0
7	Project S.D. Girls High School	0	9
PUBLIC SCHOOLS			
8	Xavier's Academy	0	10
9	RPS Residential Public School	8	0



Most of the schools use smart class/modern technology to impart quality education however, a government school; one semi-government school and one public school do not use smart class/modern technology to impart quality education

**Question No. 11. Does this school have its own campus/infrastructure?**

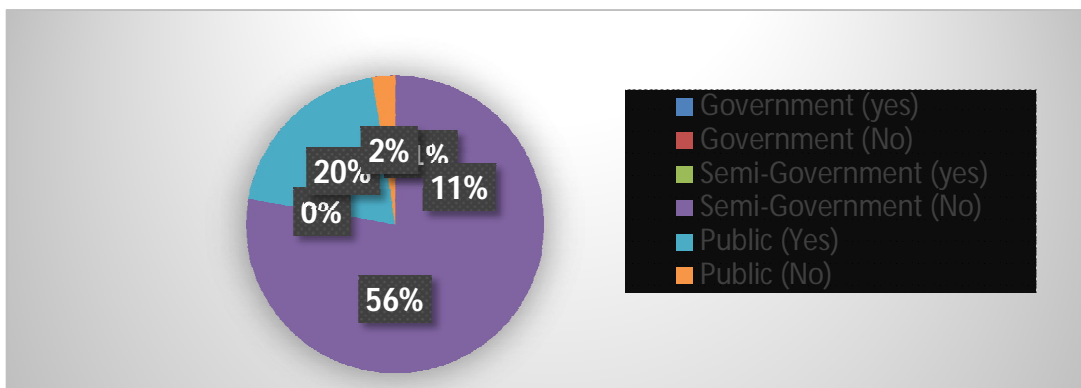
<b>GOVERNMENT SCHOOLS</b>		<b>YES</b>	<b>NO</b>
1	Project High School	9	0
2	Govt. S.T. Residential High School	9	0
<b>SEMI GOVERNMENT SCHOOLS</b>			
3	St. Joseph's High School	10	0
4	St. Joseph's +2 School	8	0
5	St. Teresa Girls' High School	6	0
6	St. Teresa Girls' +2 School	12	0
7	Project S.D. Girls High School	9	0
<b>PUBLIC SCHOOLS</b>			
8	Xavier's Academy	10	0
9	RPS Residential Public School	0	8



All the schools have their own campus and infrastructure except one public school which is running in a rented building.

**Question No. 12. Does this school have separate toilets for boys and girls?**

GOVERNMENT SCHOOLS		YES	NO
1	Project High School	9	0
2	Govt. S.T. Residential High School	0	9
SEMI GOVERNMENT SCHOOLS			
3	St. Joseph's High School	10	0
4	St. Joseph's +2 School	8	0
5	St. Teresa Girls' High School	6	0
6	St. Teresa Girls' +2 School	12	0
7	Project S.D. Girls High School	9	0
PUBLIC SCHOOLS			
8	Xavier's Academy	10	0
9	RPS Residential Public School	6	2

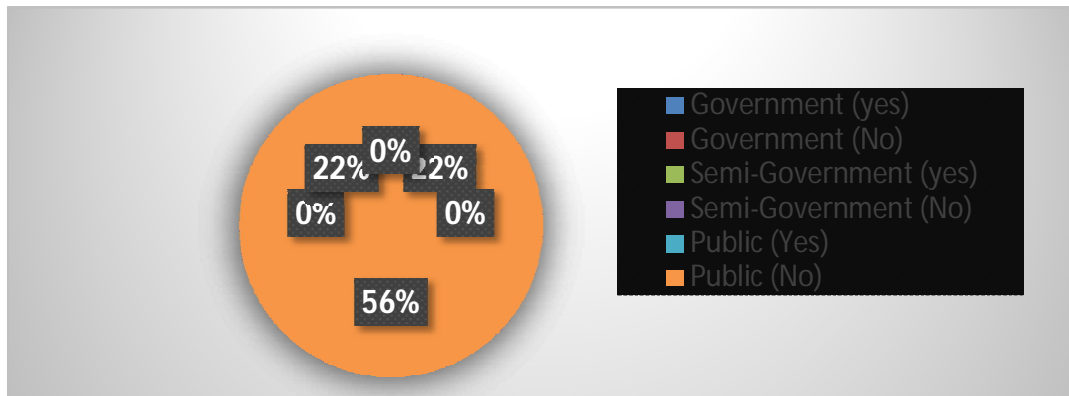


All the schools have separate

separate toilet facilities for boys and girls but one government school has no separate toilet facility for boys and girls and one of the public schools lacks proper toilet facilities for both boys and girls.

**Question No. 13. Does this school have a staff room with basic facilities?**

GOVERNMENT SCHOOLS		YES	NO
1	Project High School	9	0
2	Govt. S.T. Residential High School	9	0
SEMI GOVERNMENT SCHOOLS			
3	St. Joseph's High School	10	0
4	St. Joseph's +2 School	8	0
5	St. Teresa Girls' High School	6	0
6	St. Teresa Girls' +2 School	12	0
7	Project S.D. Girls High School	9	0
PUBLIC SCHOOLS			
8	Xavier's Academy	10	0
9	RPS Residential Public School	8	0

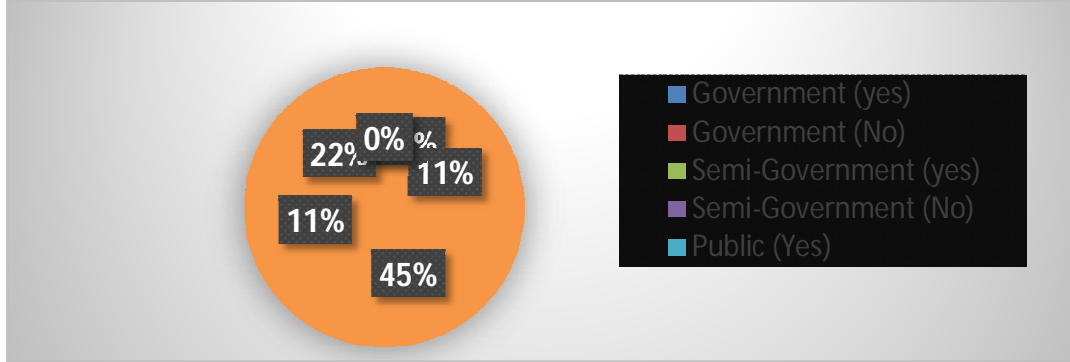


All the schools have proper staff rooms with proper facilities.

**Question No. 14. Does this school have a multi-purpose hall for gatherings/celebrations/fests?**

GOVERNMENT SCHOOLS		YES	NO
1	Project High School	0	9
2	Govt. S.T. Residential High School	9	0
SEMI GOVERNMENT SCHOOLS			
3	St. Joseph's High School	1	9
4	St. Joseph's +2 School	0	8
5	St. Teresa Girls' High School	4	2
6	St. Teresa Girls' +2 School	12	0
7	Project S.D. Girls High School	3	6

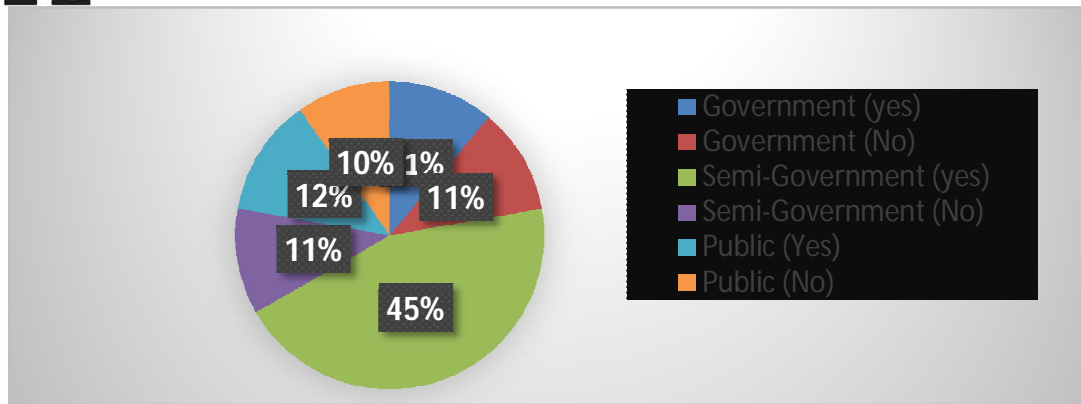
PUBLIC SCHOOLS			
8	Xavier's Academy	1	9
9	RPS Residential Public School	0	8



Except one government school and one semi-government school all other schools lack multi-purpose hall for gatherings/ celebrations/ fests.

**Question No. 15. Does this school have an installation of CCTV cameras for surveillance?**

GOVERNMENT SCHOOLS		YES	NO
1	Project High School	9	0
2	Govt. S.T. Residential High School	0	9
SEMI GOVERNMENT SCHOOLS			
3	St. Joseph's High School	10	0
4	St. Joseph's +2 School	8	0
5	St. Teresa Girls' High School	6	0
6	St. Teresa Girls' +2 School	12	0
7	Project S.D. Girls High School	0	9
PUBLIC SCHOOLS			
8	Xavier's Academy	10	0
9	RPS Residential Public School	8	0



All schools, except one government school, have CCTV cameras for surveillance.

### Suggestions for Further Study

During the course of study, it has been felt that the following topics may be undertaken for further study:

1. Similar study can be conducted at all the schools in Block level
2. A similar study can be conducted on a large sample for more comprehensive result and better generalization i.e. similar study can be conducted at district level or state level.

### Conclusion

Finding shows that most of the schools have admissible educational infrastructure facilities such as separate classrooms for students for all classes with smart class, Library with books, Computer and Science Labs, spacious playgrounds and sports facilities, uninterrupted electricity, RO drinking water, own campus, separate toilets for boys and girls, separate staff room, multi-purpose hall, and CCTV cameras etc. However, it is observed that government and public schools need to improve their infrastructure facilities to improve quality of education.

### Works cited and consulted

- Betty, A., Rodney, T. Ogawa, Dena, S., & Casia, F. "Retaining Teachers of Color: A Pressing Problem and a Potential Strategy for 'Hard-to-Staff'". *Schools Review of Educational Research*, 80 (1), 2010. Pp. 71-107.
- Buckley, J., Schneider, M., & Shang, Y. "Fix it and They Might Stay: School Facility Quality and Teacher Retention in Washington, DC". *Teachers College Record*, 107, 2004. Pp. 1107-1123.