

# **XAVERIAN QUINTESSENCE**

*(An International Multidisciplinary Subjects and Peer- Reviewed Journal)*

Website: [www.sxcma.co.in](http://www.sxcma.co.in) Email: [editorxqjournal@sxcma.co.in](mailto:editorxqjournal@sxcma.co.in)

*Biannual Online Journal*



*Volume- 01, Issue-01  
January 2026*

**Title of Paper:** Assessing the Role of Educational Infrastructure Facilities Provided by Government and Private Sector in Improving Quality of Education with Special Reference to Mahuadanr, Latehar, Jharkhand

**Dr. Samir Toppo\* Dr. Rajeev Kumar Tirkey\* Sr. Chandrodaya\* Rachel Sushmita Nag\***

\*Assistant Professor, Department of English, St. Xavier's College, (Autonomous) Mahuadanr, Latehar district, Jharkhand, India

**Abstract:** Nelson Mandela, speaking on the value of education speak that education is the most important weapon that one could use to transform the world. Education indeed is the resolution for most 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 genuine educational framework at educational institutions not only helps in the effective teaching, research and learning process but it also contributes in upgrade the presentation 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, Curricular, Development, Attendance, Drop Out, Smart classroom, teaching aids,

## **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 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, play grounds 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.

**Published by**

**St. Xavier's College (Autonomous) Mahuadanr, Latehar, PIN-822119, Jharkhand, INDIA**

# XAVERIAN QUINTESSENCE

(An International Multidisciplinary Subjects and Peer- Reviewed Journal)

Website: [www.sxcma.co.in](http://www.sxcma.co.in) Email: [editorxqjournal@sxcma.co.in](mailto:editorxqjournal@sxcma.co.in)

Biannual Online Journal



**Volume- 01, Issue-01  
January 2026**

Buckley, Schneider, and Shang in their work *Fix it and They Might Stay: School Facility Quality and Teacher Retention...*, stated that “infrastructure and ICT facilities plays an significant role in upliftment of 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 responsibilities and pleasure 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 of learning, achievement by students-teachers and accountability of the institute depends on school infrastructure. Thus, the educational infrastructure of the institute plays a significant role in imparting the quality of education.

## Statement of Problem

As school infrastructure and basic faculties and services plays a very prime role for both teachers and students in the educating -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

1. 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.
2. To give some suggestions and improvement of educational infrastructure in the study area.

## Database and Research Methodology

**Published by**

**St. Xavier's College (Autonomous) Mahuadanr, Latehar, PIN-822119, Jharkhand, INDIA**

# XAVERIAN QUINTESSENCE

(An International Multidisciplinary Subjects and Peer- Reviewed Journal)

Website: [www.sxcma.co.in](http://www.sxcma.co.in) Email: [editorxqjournal@sxcma.co.in](mailto:editorxqjournal@sxcma.co.in)

Biannual Online Journal



**Volume- 01, Issue-01  
January 2026**

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 research work is an explorative type of research based on primary data collected by surveying 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. 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+2School, Mahuadanr, Jharkhand
5. St. Teresa Girls' High School, Mahuadanr, Jharkhand
6. St. Teresa Girls'+2School, 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 1. 2: Details of the Responses of the Respondents

	YES		NO	

Published by

St. Xavier's College (Autonomous) Mahuadanr, Latehar, PIN-822119, Jharkhand, INDIA

# XAVERIAN QUINTESSENCE

(An International Multidisciplinary Subjects and Peer- Reviewed Journal)

Website: [www.sxcma.co.in](http://www.sxcma.co.in) Email: [editorxqjournal@sxcma.co.in](mailto:editorxqjournal@sxcma.co.in)

Biannual Online Journal



Volume- 01, Issue-01  
January 2026

Sl. No.	Govt. Schools		Semi Govt .School					Public School			Govt. School		Semi-Govt. School					Public School		
	1	2	3	4	5	6	7	8	9		1	2	3	4	5	6	7	8	9	
Q 1	9	9	10	8	6	12	7	8	0	69	0	0	0	0	0	0	2	2	8	12
Q 2	9	9	10	8	4	12	9	9	6	76	0	0	0	0	2	0	0	1	2	5
Q 3	9	9	10	8	6	12	0	10	8	72	0	0	0	0	0	0	9	0	0	9
Q 4	8	0	10	8	6	12	9	10	0	63	1	9	0	0	0	0	0	0	8	18

## Data Analysis and Findings of the Study

After the collection of data, for showing the results percentage method and various diagrams has been prepared with the help of MS Excel.

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

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	7	2

Published by

St. Xavier's College (Autonomous) Mahuadanr, Latehar, PIN-822119, Jharkhand, INDIA

# XAVERIAN QUINTESSENCE

(An International Multidisciplinary Subjects and Peer- Reviewed Journal)

Website: [www.sxcma.co.in](http://www.sxcma.co.in) Email: [editorxqjournal@sxcma.co.in](mailto:editorxqjournal@sxcma.co.in)

Biannual Online Journal



Volume- 01, Issue-01  
January 2026

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

	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	4	2
6	St. Teresa Girls'+2 School	12	0
7	Project S.D. Girls High School	9	0
PUBLIC SCHOOLS			
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?**

	GOVERNMENT SCHOOLS	YES	NO
1	Project High School	9	0

**Published by**

**St. Xavier's College (Autonomous) Mahuadanr, Latehar, PIN-822119, Jharkhand, INDIA**

# XAVERIAN QUINTESSENCE

(An International Multidisciplinary Subjects and Peer- Reviewed Journal)

Website: [www.sxcma.co.in](http://www.sxcma.co.in) Email: [editorxqjournal@sxcma.co.in](mailto:editorxqjournal@sxcma.co.in)

Biannual Online Journal



Volume- 01, Issue-01  
January 2026

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

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

	<b>GOVERNMENT SCHOOLS</b>	<b>YES</b>	<b>NO</b>
1	Project High School	8	1
2	Govt. S. T. Residential High School	0	9
<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

**QuestionNo.5.Does this school have auspicious playground?**

**Published by**

**St. Xavier's College (Autonomous) Mahuadanr, Latehar, PIN-822119, Jharkhand, INDIA**

# XAVERIAN QUINTESSENCE

(An International Multidisciplinary Subjects and Peer- Reviewed Journal)

Website: [www.sxcma.co.in](http://www.sxcma.co.in) Email: [editorxqjournal@sxcma.co.in](mailto:editorxqjournal@sxcma.co.in)

Biannual Online Journal



Volume- 01, Issue-01  
January 2026

	GOVERNMENT SCHOOLS	YES	NO
1	Project High School	0	9
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

**Question No. 6. Doesthisschoolhaveseparateclassroomsforstudentsofallclasseswith basic facilities such as blackboard, desks and benches, etc. for students?**

	GOVERNMENT SCHOOLS	YES	NO
<b>1</b>	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>			

**Published by**

**St. Xavier's College (Autonomous) Mahuadanr, Latehar, PIN-822119, Jharkhand, INDIA**

# XAVERIAN QUINTESSENCE

(An International Multidisciplinary Subjects and Peer- Reviewed Journal)

Website: [www.sxcma.co.in](http://www.sxcma.co.in) Email: [editorxqjournal@sxcma.co.in](mailto:editorxqjournal@sxcma.co.in)

Biannual Online Journal



*Volume- 01, Issue-01  
January 2026*

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

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

	<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	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
<b>PUBLIC SCHOOLS</b>			
8	Xavier's Academy	7	3
9	RPS Residential Public School	8	0

**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

**Published by**

**St. Xavier's College (Autonomous) Mahuadanr, Latehar, PIN-822119, Jharkhand, INDIA**

# XAVERIAN QUINTESSENCE

(An International Multidisciplinary Subjects and Peer- Reviewed Journal)

Website: [www.sxcma.co.in](http://www.sxcma.co.in) Email: [editorxqjournal@sxcma.co.in](mailto:editorxqjournal@sxcma.co.in)

Biannual Online Journal



Volume- 01, Issue-01  
January 2026

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

**Question No. 9. Does these schools have sports facilities for Students?**

GOVERNMENT SCHOOLS		YES	NO
1	Project High School	1	8
2	Govt. S.T. Residential High School	9	0
SEMI-GOVERNMENTSCHOOLS			
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			

**Published by**

**St. Xavier's College (Autonomous) Mahuadanr, Latehar, PIN-822119, Jharkhand, INDIA**

# XAVERIAN QUINTESSENCE

(An International Multidisciplinary Subjects and Peer- Reviewed Journal)

Website: [www.sxcma.co.in](http://www.sxcma.co.in) Email: [editorxqjournal@sxcma.co.in](mailto:editorxqjournal@sxcma.co.in)

Biannual Online Journal



**Volume- 01, Issue-01  
January 2026**

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

**Question No. 10. Does this school uses 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+2School	7	1
5	St. Teresa Girls' High School	4	2
6	St. Teresa Girls'+2School	12	0
7	Project S. D. Girls High School	0	9
PUBLICSCHOOLS			
8	Xavier's Academy	0	10
9	RPS Residential Public School	8	0

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

	GOVERNMENT SCHOOLS	YES	NO
1	Project High School	9	0
2	Govt. S.T. Residential High School	9	0

**Published by**

**St. Xavier's College (Autonomous) Mahuadanr, Latehar, PIN-822119, Jharkhand, INDIA**

# XAVERIAN QUINTESSENCE

(An International Multidisciplinary Subjects and Peer- Reviewed Journal)

Website: [www.sxcma.co.in](http://www.sxcma.co.in) Email: [editorxqjournal@sxcma.co.in](mailto:editorxqjournal@sxcma.co.in)

Biannual Online Journal



Volume- 01, Issue-01  
January 2026

SEMI- GOVERNMENTSCHOOLS			
3	St. Joseph's High School	10	0
4	St. Joseph's+2School	8	0
5	St. Teresa Girls 'High School	6	0
6	St. TeresaGirls'+2School	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

**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- GOVERNMENTSCHOOLS			
3	St. Joseph's High School	10	0
4	St. Joseph's+2School	8	0
5	St. Teresa Girls' High School	6	0
6	St. TeresaGirls'+2School	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

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

Published by

St. Xavier's College (Autonomous) Mahuadanr, Latehar, PIN-822119, Jharkhand, INDIA

# XAVERIAN QUINTESSENCE

(An International Multidisciplinary Subjects and Peer- Reviewed Journal)

Website: [www.sxcma.co.in](http://www.sxcma.co.in) Email: [editorxqjournal@sxcma.co.in](mailto:editorxqjournal@sxcma.co.in)

Biannual Online Journal



Volume- 01, Issue-01  
January 2026

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

**Question No. 14. Does this school have 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
<b>SEMI-GOVERNMENT SCHOOLS</b>			
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.TeresaGirls'+2School	12	0
7	Project S. D. Girls High School	3	6
<b>PUBLIC SCHOOLS</b>			
8	Xavier's Academy	10	0
9	RPS Residential Public School	8	0

Published by

St. Xavier's College (Autonomous) Mahuadanr, Latehar, PIN-822119, Jharkhand, INDIA

# XAVERIAN QUINTESSENCE

(An International Multidisciplinary Subjects and Peer- Reviewed Journal)

Website: [www.sxcma.co.in](http://www.sxcma.co.in) Email: [editorxqjournal@sxcma.co.in](mailto:editorxqjournal@sxcma.co.in)

Biannual Online Journal



Volume- 01, Issue-01  
January 2026

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

	<b>GOVERNMENT SCHOOLS</b>	YES	NO
1	Project High School	9	0
2	Govt. S. T. Residential High School	0	9
<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

## **Suggestions and Policy Implication:**

The major suggestions and opt policies are-

1. Similar study can be conducted at all the school in Block level
2. A similar study can be conducted on a large sample form or 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, specious playgrounds and sports facilities, uninterrupted electricity,

**Published by**

**St. Xavier's College (Autonomous) Mahuadanr, Latehar, PIN-822119, Jharkhand, INDIA**

# **XAVERIAN QUINTESSENCE**

*(An International Multidisciplinary Subjects and Peer- Reviewed Journal)*

Website: [www.sxcma.co.in](http://www.sxcma.co.in) Email: [editorxqjournal@sxcma.co.in](mailto:editorxqjournal@sxcma.co.in)

**Biannual Online Journal**



**Volume- 01, Issue-01  
January 2026**

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.

## **References:**

Ambika, N., (2022). A Study on school infrastructure in India, International Journal of Research Publication and Review (JRPR), Vol. 3, No. 12, pp. 916-918.

Betty, A., Rodney, T. Ogawa, Dena, S., & Casia, F. (2010). Retaining Teachers of Color: A Pressing Problem and a Potential Strategy for 'Hard-to-Staff'. *Schools Review of Educational Research*, Vol. 80 , Issue 1, pp. 71–107.

Buckley, J., Schneider, M., & Shang, Y. (2004). Fix it and They Might Stay: School Facility Quality and Teacher Retention in Washington, DC, . *Teachers College Record*, 107, pp. 1107-1123.

John, M.O. (2024). Educational infrastructures and its impact on academic performance in Nigerian schools, *Iconic Research and Engineering Journal*, Vol. 8, Issue 6, pp. 497-502.

Santika, F. Pangestu, U. (2021). School facilities and Infrastructure Management in improving Education quality, *International Journal of Research and Innovation in Social Sciences (IJRISS)*, Vol. V, Issue 6, pp. 280- 284.

Mbonimana, G. (2018). School Infrastructures and students performances in Kayonza district, Rwanda, *International Journal of Social Science and Humanities Research*, Vol. 6, Issue 2, pp. 417-424

**Published by**

**St. Xavier's College (Autonomous) Mahuadanr, Latehar, PIN-822119, Jharkhand, INDIA**