



श्रमोऽनवरत चेष्टाय राष्ट्रीय प्रौद्योगिकी संस्थान पटना

NIT·PATNA
NATIONAL INSTITUTE OF TECHNOLOGY PATNA

Site Visit Report

For

Building Safety Certificate of Christ Church Diocesan School, Patna-01

Department of Civil Engineering / जनपद अभियांत्रिकी विभाग
राष्ट्रीय प्रौद्योगिकी संस्थान पटना / NATIONAL INSTITUTE OF TECHNOLOGY
PATNA



राष्ट्रीय प्रौद्योगिकी संस्थान पटना / NATIONAL INSTITUTE OF TECHNOLOGY PATNA

(शिक्षा मंत्रालय, भारत सरकार के अधीन एक राष्ट्रीय महत्व का संस्थान)

(An Institute of National Importance under Ministry of Education, Govt. of India)

Department of Civil Engineering

Site Visit Report

Name of Client : Christ Church Diocesan School, Patna-01.
Letter No. : CCDS/RH/2024-25/1301 Dated: 21.01.2025
Site Visited Date : 04.02.2025
Location : Gandhi Maidan, Patna
Type of building : RCC Structure Building.

Rebound Hammer Test Results

SCHMIDT HAMMER TEST RESULT

DATE OF SITE VISIT-04.02.2025

S. no.	Location	Direction	Rebound Number	Avg Rebound Number	Compressive Strength (N/mm ²)	Test Method
Under construction building of 8-Court building						
1	Peacock Block Column Back Side (Ground Floor)	HORIZONTAL	26	27	21	IS 516 (Part 5/Sec 4) : 2020
i			26			
ii			30			
iii			28			
iv			26			
v			26			
2	Peacock Block Column Back Side (Ground Floor)	HORIZONTAL	29	29	25	IS 516 (Part 5/Sec 4) : 2020
i			27			
ii			30			
iii			28			
iv			30			
v			28			
3	Dolly Saran Block Front Column Side (Ground Floor)	HORIZONTAL	30	32	29	IS 516 (Part 5/Sec 4) : 2020
i			32			
ii			33			
iii			34			
iv			32			
v			30			

Note: - Accuracy of prediction of concrete strength in a structure IS $\pm 25\%$





राष्ट्रीय प्रौद्योगिकी संस्थान पटना / NATIONAL INSTITUTE OF TECHNOLOGY PATNA

(शिक्षा मंत्रालय, भारत सरकार के अधीन एक राष्ट्रीय महत्व का संस्थान)

(An Institute of National Importance under Ministry of Education, Govt. of India)

Department of Civil Engineering

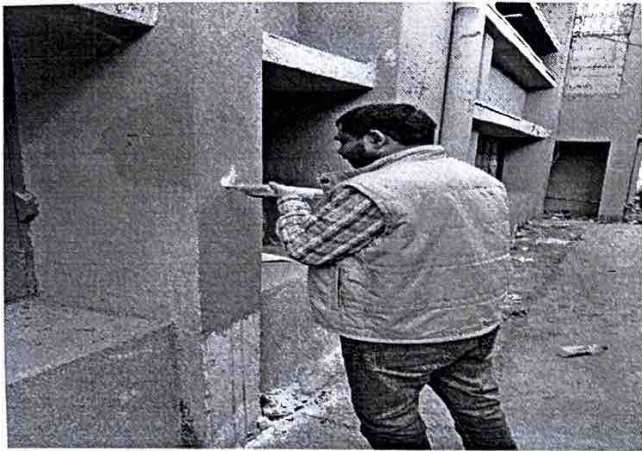


Fig. 1 Peacock Block (RH Test on column)



Fig. 2 Back side of Peacock Block



Fig. 3 Back side of Peacock Block

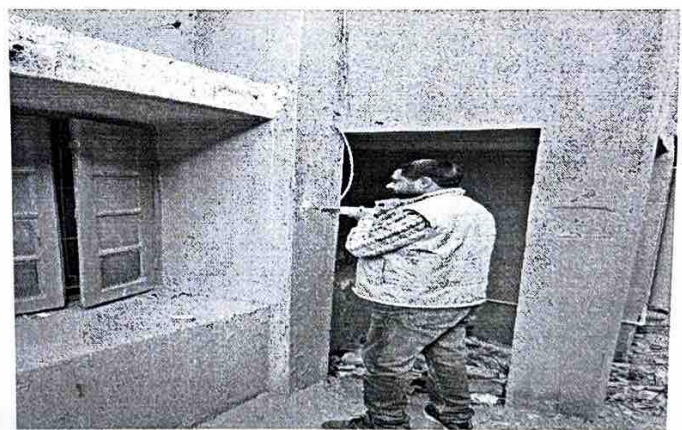


Fig. 4 Peacock Block (RH Test on column)

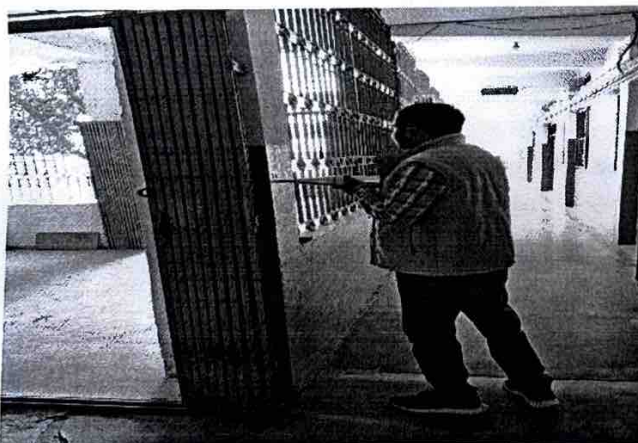


Fig. 5 Dolly Saran Block (RH Test on column)

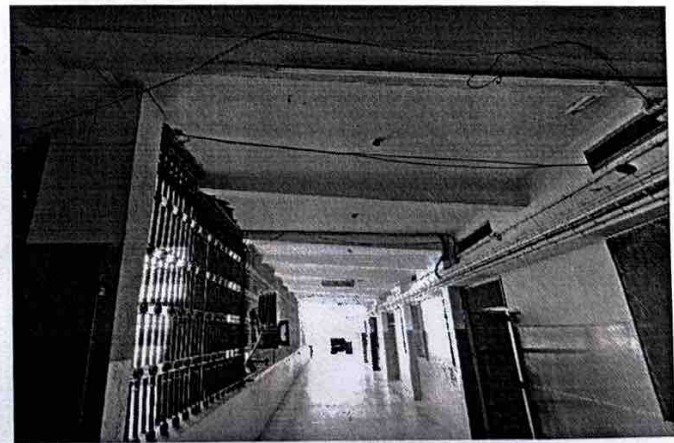


Fig. 6 Bishop Block Corridor (Gr Floor)





राष्ट्रीय प्रौद्योगिकी संस्थान पटना / NATIONAL INSTITUTE OF TECHNOLOGY PATNA

(शिक्षा मंत्रालय, भारत सरकार के अधीन एक राष्ट्रीय महत्व का संस्थान)

(An Institute of National Importance under Ministry of Education, Govt. of India)

Department of Civil Engineering

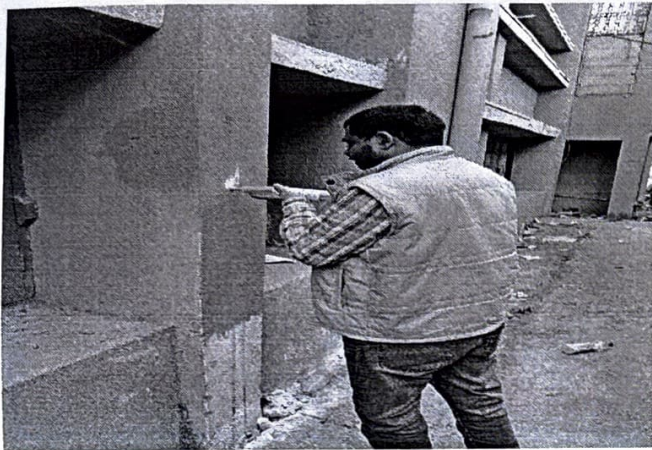


Fig. 7 Peacock Block (RH Test on column)



Fig. 8 Front side of Peacock Block



Fig. 9 Front side of BISHOP Block



Fig. 10 Front side of DOLLY SHARAN Block

Recommendation: Rapid Visual Screening cum NDT was done for entire building. No structural cracks were seen at any beam column joints. Neither any seepage has been found. The Non-destructive test (Rebound Hammer test) result reveals that surface quality of concrete is good. The maintenance of the building is satisfactory. However annual maintenance is to be done for more durability & serviceability.



Er. Lal Babu Tiwari
NIT Patna

Er. Rajesh Ranjan
NIT Patna

Dr. Sanjay Kumar
NIT Patna

Nodal officer (CED)
NIT Patna