

GOVERNMENT OF ASSAM
OFFICE OF THE CHIEF ENGINEER: P.W.D.(BUILDING), ASSAM
CHANDMARI, GUWAHATI-3

No. CEB/MECH/10/2017/112

Dated: Guwahati the 21th August, 2021.

To,

The General Manager (A&W)
Indian Oil Corporation Limited,
Guwahati Refinery, Noonmati, Guwahati-20.

Sub: Non-Destructive Test report.

Ref: Your letter No. GR/A&W/KV(IOC-GR)/2021/238 Dtd. 22nd July,2021

Dear Sir,

With reference to the above, please find enclosed herewith a Non-Destructive Test report of Kendriya Vidyalaya School building which was conducted on 17/08/2021 for favour of your needful action.

Encl: As above

Yours Sincerely,

Addl. Chief Engineer(Mech)

O/o the Chief Engineer, PWD(Building)

Assam, Chandmari, Guwahati-3

21/8

REPORT

Non Destructive Test Report of Kendriya Vidyalaya, IOCL Noonmati, Guwahati-20.

The following Non-Destructive Tests were carried out at certain locations of the Kendriya Vidyalaya, IOCL Noonmati, on 17/08/2021.

1. Rebound hammer test to evaluate the strength of concrete.
2. Ultrasonic Pulse Velocity test to evaluate the concrete quality.

Visual Inspection:


The Building is a (G+1) RCC structure. On the visual inspection the Building is found in proper maintenance condition and no cracks or any defects was observed.

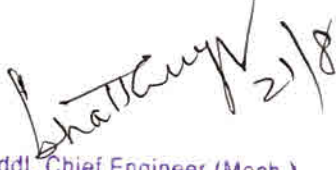
NDT Report:

Non-Destructive Tests results are found satisfactory.

The Non-Destructive Test data are enclosed at Annexure-I.

The adequacy of the design cannot be interpreted by Non-Destructive Test.

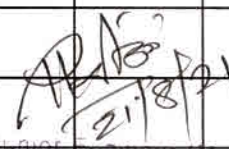

Senior Engineer (Mech.)
Chief Engineer, PWD (NH Works)
Assam, Chandmari, Guwahati-3


Addl. Chief Engineer (Mech.)
O/o The Chief Engineer, PWD (Roads)
Assam, Chandmari, Guwahati-3

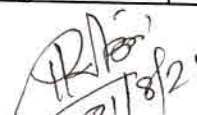
Non Destructive Test Report of Kendriya Vidyalaya, IOCL Noonmati, Guwahati-20

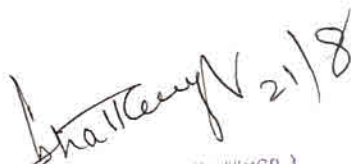
Format for analysis of field test results
Concrete Strength Assessment

Group of Exposure		Member	Spread sheet reference No.	UPV Meter		Rebound Hammer						Rebound Index	Qualitative grading Rebound Qty. of Concrete A=> 40 Very good B=30 to 40 Good Layer C=20 to 30 Fair D=< 20 Poor Concrete E=0 Delaminated	General observation including prioritisation based on distress/ deterioration	Recommendation
				Velocity km/sec	Velocity km/sec	Rebound Numbers as recorded									
Ground Floor	Room No.-6, Entrance left middle column	P1	4.98	A	32	30	28	36	30	30	31.00	B			
		P2	4.34	B	30	32	30	32	28	30	30.33	B			
		P3	4.60	A	28	32	26	38	38	36	33.00	B			
		P4	4.63	A	28	32	28	30	28	28	29.00	C			
		P5	4.85	A	36	36	34	28	34	30	33.00	B			
	Room No-6, Middle Beam	P1	4.18	B	32	34	36	26	30	32	31.67	B			
		P2	4.62	A	34	28	28	36	34	36	32.67	B			
		P3	4.67	B	36	38	38	34	32	32	35.00	B			
		P4	4.48	B	34	30	34	34	32	36	33.33	B			
		P5	4.25	A	34	38	32	36	34	38	35.33	B			
	Room No.-7, Entrance left middle column	P1	5.21	A	32	34	38	34	34	32	34.00	B			
		P2	5.02	A	38	38	34	36	36	34	36.00	B			
		P3	5.25	A	30	38	38	32	32	36	34.33	B			
		P4	4.86	A	32	38	38	36	32	32	34.67	B			
		P5	4.77	A	38	36	38	34	34	38	36.33	B			
	Room No.-15, Entrance left middle column	P1	5.37	A	28	36	28	34	28	30	30.67	B			
		P2	5.54	A	28	34	34	30	28	30	30.67	B			
		P3	4.95	A	30	28	30	32	30	32	30.33	B			
		P4	4.78	A	32	30	28	36	30	30	31.00	B			
		P5	5.09	A	30	32	30	32	28	30	30.33	B			


 Junior Engineer (Mech.)
 C/O Chief Engineer PWD (NH Works)
 Assam, Chandman, Guwahati-3

Group of Exposure	Member	Spread sheet reference No.	Velocity km/sec	A=> 4.5 km/sec- Excellent B= 3.5 km/s to 4.5km/s-Good C=3.0 km/s-3.5km/s - Ave. D=<3 km/s -Poor	Rebound Numbers as recorded						Ave. Rebound Number	Rebound Index	Qualitative grading Rebound Qty. of Concrete Value A=> 40 Very good B=30 to 40 Good Layer C=20 to 30 Fair D=< 20 Poor Concrete E=0 Delaminated	General observation including prioritisation based on distress/ deterioration	Recommendation
First Floor	Room No.-40, Entrance left middle column	P1	4.11	B	30	34	32	30	28	30	30.67		B		
		P2	4.02	B	32	28	34	32	30	32	31.33		B		
		P3	4.04	B	34	30	32	36	30	30	32.00		B		
		P4	4.45	B	34	32	30	32	28	30	31.00		B		
		P5	3.78	B	32	32	26	38	38	36	33.67		B		
	Room No-40, Middle Beam	P1	3.86	B	32	32	28	30	28	28	29.67		C		
		P2	4.02	B	34	36	34	28	32	30	32.33		B		
		P3	4.72	A	34	34	36	26	30	32	32.00		B		
		P4	5.81	A	30	34	34	36	32	32	33.00		B		
		P5	4.79	A	32	36	32	22	28	30	30.00		B		
	Room No.-38, Entrance left middle column	P1	5.29	A	32	30	28	30	32	32	30.67		B		
		P2	4.26	B	30	34	32	30	28	30	30.67		B		
		P3	4.46	B	32	28	34	32	30	32	31.33		B		
		P4	5.25	A	34	30	32	36	30	30	32.00		B		
		P5	6.89	A	34	32	30	32	28	30	31.00		B		
	Room No-38, Middle Beam	P1	4.51	A	32	32	26	38	38	36	33.67		B		
		P2	3.88	B	32	32	28	30	28	28	29.67		C		
		P3	4.94	A	34	36	34	28	32	30	32.33		B		
		P4	4.63	A	34	34	36	26	30	32	32.00		B		
		P5	4.21	B	30	34	34	36	32	32	33.00		B		


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