

TEST REPORT

CLIENT NAME : CSR Consultant And Associates
OFFICE ADDRESS : 9, Kandivali Gurudatta CHSL, Dahanukar Wadi, Kandivali (West), Mumbai- 400 067.
BUILDING NAME : Rooftop CHS
SITE ADDRESS : Sher E Punjab Colony, Andheri (East), Mumbai- 400 093.
SAMPLE TESTED AT : ON SITE
DISCIPLINE : Non-destructive
GROUP : Building Materials - Reinforced Concrete Structures
TEST METHOD : IS 516 (Part5/Section1) : 2018 (Amd. No.1, 2019)
QUANTITY : 4 Points
SR. NO. OF INSTRUMENT : UPV-02
TEMP. OF SURFACE : 30 °C

ULR NO. : TC167772600014849F
JOB No. : ARC/26-27/4815
TEST REPORT NO. : R-4815/01
LETTER DATE : 09-07-2026
DATE(S) OF TESTING : 09-07-2026 To 09-07-2026
TEST REPORT DATE : 23-07-2026

TEST RESULT OF ULTRASONIC PULSE VELOCITY

Sr. No.	Location	Member	Member ID	Surface Condition	Probing Method	Actual Velocity (Km/sec)	Corr. Velocity (Km/sec) †	Concrete Quality
1	B-1 Building, Ground Floor	Column	C-1	Wet	Indirect	2.05	2.05	Doubtful
2	B-2 Building, Ground Floor	Column	C-2	Wet	Indirect	2.13	2.13	Doubtful
3	A-1 Building, Ground Floor	Column	C-3	Dry	Indirect	2.27	2.27	Doubtful
4	A-2 Building, Ground Floor	Column	C-4	Wet	Indirect	1.67	1.67	Doubtful

USPV RESULT SUMMARY FOR CONCRETE ≤ M25					Remarks :
PULSE VELOCITY (km/s)	CONCRETE QUALITY GRADING	NO. OF RESULT	AVERAGE VALUE (km/s)	OVERALL AVERAGE	
Above 4.5	Excellent	0	-	2.03	† As per IS 516 (Part5/Section1) : 2018 Clause No. 2.4.3.2.5, surface probing in general gives lower pulse velocity than in case of cross probing and depending on number of parameters and the pulse velocity may be increased by 0.5 km/Sec for value ≥ 3.0 km/sec.
3.5 - 4.5	Good	0	-		As per IS 516 (Part5/Section1) : 2018 Clause No. 2.4.3.1 Annex B B-1.1, The Pulse Velocity of saturated concrete may be up to 5% higher than that of similar dry concrete. In general, drying of concrete may result in somewhat lower pulse velocity.
Below 3.5	Doubtful	4	2.03		As per IS 516 (Part5/Section1) : 2018 Table 1, For the concrete grade > M25, Pulse Velocity, km/s for "Good and Doubtful" is "3.75 - 4.5" and "Below 3.75" respectively. In case "Doubtful" quality it may be necessary to carry out further tests. As per IS 516 (Part5/Section1) : 2018 Clause No. 2.4.1 Concrete surface shall be suitability prepared, any plaster or other coating shall be removed. Member ID with the * mark, represent the test conducted on plaster, as per client requirement

NOTE :

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 (Reviewed By)
 Sandesh Palav
 TE




 (Authorised By)
 Aftab Alam
 QM

**** END OF REPORT ****

TEST REPORT

CLIENT NAME : CSR Consultant And Associates
 OFFICE ADDRESS : 9, Kandivali Gurudatta CHSL, Dahanukar Wadi, Kandivali (West), Mumbai- 400 067.
 BUILDING NAME : **Rooftop CHS**
 SITE ADDRESS : Sher E Punjab Colony, Andheri (East), Mumbai- 400 093.

SAMPLE TESTED AT : ON SITE
 DISCIPLINE : Non-destructive
 GROUP : Building Materials - Reinforced Concrete Structures
 TEST METHOD : IS 516 (Part5/Section4) : 2020
 QUANTITY : 4 Points
 SR. NO. OF INSTRUMENT : RH-02

ULR NO. : TC167772600014850F
 JOB No. : ARC/26-27/4815
 TEST REPORT NO. : R-4815/02
 LETTER DATE : 09-07-2026
 DATE(S) OF TESTING : 09-07-2026 To 09-07-2026
 TEST REPORT DATE : 23-07-2026

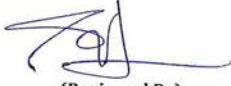
TEST RESULT OF REBOUND HAMMER

Sr. No.	Location	Member	Member ID	Surface Condition	Direction of Rebound	Avg. Rebound Index	Comp. Strength, (N/mm ²)
1	B-1 Building, Ground Floor	Column	C-1	Wet	Horizontal	28.3	23.2
2	B-2 Building, Ground Floor	Column	C-2	Wet	Horizontal	27.7	22.1
3	A-1 Building, Ground Floor	Column	C-3	Dry	Horizontal	30.0	21.8
4	C-2 Building, Ground Floor	Column	C-5	Wet	Horizontal	25.7	18.6

Remarks :	Rebound Hammer Results Summary		
	Strength, N/mm ²	No. of Result	Average Comp. Strength, N/mm ²
As per IS 516 (Part 5 / Sec 4) Clause No 7.1.3, A wet condition will give underestimation of the strength of concrete calibrated under dry conditions. In structural Concrete, this can be about 20% lower than in an equivalent dry concrete.			
As Per IS 516 (Part 5 / Sec 4) Clause No 8.1, The Probable accuracy of prediction of concrete strength in a structure by the Rebound hammer is ± 25 percent.	Below 10.0	0	--
As per IS 516 (Part 5 / Sec 4) Clause No 7.1.4, Carbonated Concrete gives an overestimate of strength which in extreme cases can be up to 50 percent.	> 10.0	4	21.4

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**** END OF REPORT ****

REV NO : 01

TEST REPORT

CLIENT NAME : CSR Consultant And Associates
 OFFICE ADDRESS : 9, Kandivali Gurudatta CHSL, Dahanukar Wadi, Kandivali (West), Mumbai- 400 067.
 BUILDING NAME : Rooftop CHS
 SITE ADDRESS : Sher E Punjab Colony, Andheri (East), Mumbai- 400 093.

SAMPLE TESTED AT : ON SITE
 DISCIPLINE : Non-destructive
 GROUP : Building Materials - Reinforced Concrete Structures
 TEST METHOD : IS 516 Part 5, Sec 2
 QUANTITY : 4 Points
 SR. NO. OF INSTRUMENT : HCP-02
 TEMP. OF SURFACE : 30 °C

ULR NO. : TC167772600014851F
 JOB No. : ARC/26-27/4815
 TEST REPORT NO. : R-4815/03
 LETTER DATE : 09-07-2026
 DATE(S) OF TESTING : 09-07-2026 To 09-07-2026
 TEST REPORT DATE : 23-07-2026

TEST RESULT OF HALF-CELL POTENTIAL

Sr. No.	Location	Member	Member ID	Electrode Cell	Pre-wetting Method	Half Cell Potential Value (-V)
1	B-1 Building, Ground Floor	Column	C-6	Cu/CuSO ₄	By Spraying	-0.28
2	B-2 Building, Ground Floor	Column	C-7	Cu/CuSO ₄	By Spraying	-0.29
3	A-1 Building, Ground Floor	Column	C-3	Cu/CuSO ₄	By Spraying	-0.31
4	C-1 Building, Ground Floor	Column	C-8	Cu/CuSO ₄	By Spraying	-0.27

REMARKS : Probability of corrosion according to IS 516 Part 5 Sec 2, Table 1

Sr. No.	Corrosion Probability	Half-cell potential reading, Cu/CuSO ₄	No. of Points	Avg. Potential Value (-V)	Overall Average Potential Value
1	Low (there is a greater than 90 percent probability that no reinforcing steel corrosion is occurring in that area at the time of measurement)	> - 0.2 V	0	-	-0.29
2	Corrosion activity of the reinforcing steel in that area is uncertain	- 0.2 V to - 0.35 V	4	-0.29	
3	High (there is a greater than 90 percent probability that reinforcing steel corrosion is occurring in that area at the time of measurement)	< - 0.35 V	0	-	
4	Severe corrosion	< - 0.5 V	0	-	

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TEST REPORT

CLIENT NAME : CSR Consultant And Associates
OFFICE ADDRESS : 9, Kandivali Gurudatta CHSL, Dahanukar Wadi, Kandivali (West), Mumbai- 400 067.
BUILDING NAME : Rooftop CHS
SITE ADDRESS : Sher E Punjab Colony, Andheri (East), Mumbai- 400 093.
SAMPLE TESTED AT : ON SITE
DISCIPLINE : Non-destructive
GROUP : Building Materials - Reinforced Concrete Structures
TEST METHOD : IS 516 Part 5, Section 3 : 2021
QUANTITY : 4 Points
SR. NO. OF INSTRUMENT : CAR-02

ULR NO. : TC167772600014852F
JOB No. : ARC/26-27/4815
TEST REPORT NO. : R-4815/04
LETTER DATE : 09-07-2026
DATE(S) OF TESTING : 09-07-2026 To 09-07-2026
TEST REPORT DATE : 23-07-2026

TEST RESULT OF HARDEN CONCRETE CARBONATION DEPTH

Sr. No.	Location	Member	Member ID	Age of Structure	Type & Size of Specimen Used	Avg. Carbonated Depth, mm
1	B-1 Building, Ground Floor	Column	C-6	46 Year's	In Situ Drilling Holes	42
2	B-2 Building, Ground Floor	Column	C-7	46 Year's	In Situ Drilling Holes	39
3	A-1 Building, Ground Floor	Column	C-3	46 Year's	In Situ Drilling Holes	36
4	C-1 Building, Ground Floor	Column	C-8	46 Year's	In Situ Drilling Holes	40
Composition of Indicator Solution :Solution of phenolphthalein indicator normally 1g phenolphthalein is dissolved in 70ml ethyl alcohol and diluted to 100ml with distilled water.						Over All Average Carbonated Depth, mm : 39

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**** END OF REPORT ****


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TEST REPORT

REV NO -00

CLIENT NAME : CSR Consultant And Associates
 OFFICE ADDRESS : 9, Kandivali Gurudatta CHSL, Dahanukar Wadi, Kandivali (West), Mumbai- 400 067.
 BUILDING NAME : Rooftop CHS
 SITE ADDRESS : Sher E Punjab Colony, Andheri (East), Mumbai- 400 093.
 SAMPLE TESTED AT : IN LABORATORY
 DISCIPLINE : Mechanical
 GROUP : Building Materials - Reinforced Concrete Structures
 TEST METHOD : IS : 516 (Part 4) : 2018
 QUANTITY : 5 Nos.
 SR. NO. OF INSTRUMENT : CTM-01

ULR NO. : TC167772600014854F
 JOB No. : ARC/26-27/4815
 TEST REPORT NO. : R-4815/05
 LETTER DATE : 09-07-2026
 DATE(S) OF TESTING : 13-07-2026 To 13-07-2026
 TEST REPORT DATE : 23-07-2026

TEST RESULTS OF CONCRETRE CORE COMPRESSIVE STRENGTH

Sr No.	Specimen Location & ID Mark	Member	Core Height (h) (mm)	Core Dia (d) (mm)	Core Wt. (Kg)	Cross sectional Area, mm ²	Max. Load (KN)	Actual Comp. Strength (N/mm ²)	Correction Factor for (h/d) ratio \$	Corrected Comp. Strength (N/mm ²) #	Equivalent Cube Comp. Strength (N/mm ²) !
1	A-1 Building, Ground Floor, C-10	Column	85.48	68.28	0.720	3662.1	53.06	14.49	0.918	14.09	17.6
2	A-2 Building, Ground Floor, C-4	Column	88.09	68.41	0.735	3676.1	48.36	13.16	0.922	12.85	16.1
3	C-2 Building, Ground Floor, C-5	Column	70.57	67.29	0.628	3556.7	55.03	15.47	0.895	14.68	18.4
4	B-2 Building, Ground Floor, C-11	Column	91.04	67.86	0.766	3617.2	50.56	13.98	0.928	13.74	17.2
5	B-1 Building, Ground Floor, C-1	Column	85.56	67.88	0.723	3619.3	55.32	15.28	0.919	14.88	18.6

Remarks		Acceptance Criteria as per IS: 456 - 2000 (Reaff: 2016) Clause No 17.4.3 :
*	Core density after trimming and capping of specimen	Concrete in the member represented by a core test shall be considered acceptable if the average equivalent cube strength of the cores is equal to at least 85% of the cube strength of the grade of concrete specified for the corresponding age and no individual core has a strength less than 75% .
#	Corrected Comp. Strength - After Diameter Factor and h/d Ratio Factor	
\$	For h/d ratio correction factors are as per IS : 516 (Part 4) : 2018	
!	Equivalent cube compressive strength = 1.25 x corrected cylinder compressive strength as per clause 8.4.2 of IS : 516 (Part 4) : 2018	

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 (Reviewed By)
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 Afab Alam
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** END OF REPORT **

TEST REPORT

CLIENT NAME	: CSR Consultant And Associates	ULR NO.	: TC167772600014855F
OFFICE ADDRESS	: 9, Kandivali Gurudatta CHSL, Dahanukar Wadi, Kandivali (West), Mumbai- 400 067.	JOB No.	: ARC/26-27/481S
BUILDING NAME	: Rooftop CHS	TEST REPORT NO.	: R-481S/06
SITE ADDRESS	: Sher E Punjab Colony, Andheri (East), Mumbai- 400 093.	LETTER DATE	: 09-07-2026
SAMPLE TESTED AT	: ON SITE	DATE(S) OF TESTING	: 09-07-2026 To 09-07-2026
DISCIPLINE	: Non-destructive	TEST REPORT DATE	: 23-07-2026
GROUP	: Building Materials - Reinforced Concrete Structures		
TEST METHOD	: BS 1881 (Part 201)		
QUANTITY	: 1 Nos		
SR. NO. OF INSTRUMENT	: CM-03		

TEST RESULT OF COVER DEPTH

Sr. No.	Location	Member	Member ID	Dimension of Member, (mm)	Max. Clear Cover, (mm)
1	A-2 Building, Ground Floor	Column	C-9*	300 x 300	67

Remarks:

* - Member ID with this mark represent the Max Clear Cover measured with plaster.

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OFFICE ADDRESS : 9, Kandivali Gurudatta CHSL, Dahanukar Wadi, Kandivali (West), Mumbai- 400 067.
BUILDING NAME : Rooftop CHS
SITE ADDRESS : Sher E Punjab Colony, Andheri (East), Mumbai- 400 093.
SAMPLE TESTED AT : **IN LABORATORY**
DISCIPLINE : Chemical
GROUP : Building Materials- Reinforced Concrete Structure
TEST METHOD : IS 2720 Part 26: 1987, IS 14959 Part 2: 2001, IS4032 : 1985
QUANTITY : 1 Points
ULR NO. : TC167772600014853F
JOB No. : ARC/26-27/4815
TEST REPORT NO. : R-4815/07-01
LETTER DATE : 09-07-2026
DATE(S) OF TESTING : 12-07-2026 To 12-07-2026
TEST REPORT DATE : 23-07-2026

TEST RESULT OF HARDEN CONCRETE CHEMICAL

Sr. No.	Location	Member	ID Mark	Dilution	Chloride as Cl, %
1	A-1 Building, Ground Floor	Column	C-3	30 gm of Sample diluted in 200 ml DW	0.0283

Remarks : Permissible Limits As Per IS- 456-2000 (RA 2011)

Sr. No.	Test Parameter	Permissible Limit as per IS 456	Average Value
1	Chloride Content, %	PCC 3 kg/m ³ & for RCC 0.5 kg/m ³	0.0283

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 Sandesh Palav
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 (Authorised By)
 Kaveri Dubey
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**** END OF REPORT ****

TEST REPORT

CLIENT NAME : CSR Consultant And Associates
OFFICE ADDRESS : 9, Kandivali Gurudatta CHSL, Dahanukar Wadi, Kandivali (West), Mumbai- 400 067.
BUILDING NAME : Rooftop CHS
SITE ADDRESS : Sher E Punjab Colony, Andheri (East), Mumbai- 400 093.
SAMPLE TESTED AT : **IN LABORATORY**
DISCIPLINE : Chemical
GROUP : Building Materials- Reinforced Concrete Structure
TEST METHOD : IS 2720 Part 26: 1987, IS 14959 Part 2: 2001, IS4032 : 1985
QUANTITY : 1 Points

JOB No. : ARC/26-27/4815
TEST REPORT NO. : R-4815/07-02
LETTER DATE : 09-07-2026
DATE(S) OF TESTING : 12-07-2026 To 12-07-2026
TEST REPORT DATE : 23-07-2026

TEST RESULT OF HARDEN CONCRETE CHEMICAL

Sr. No.	Location	Member	ID Mark	Dilution	pH Value	Sulphates as SO ₄ , %
1	A-1 Building, Ground Floor	Column	C-3	30 gm of Sample diluted in 200 ml DW	10.66	0.12

Remarks : Permissible Limits As Per IS- 456-2000 (RA 2011)

Sr. No.	Test Parameter	Permissible Limit as per IS 456	Average Value
1	pH Value	-	10.66
2	Sulphates Content, %	Maximum 4 %.	0.12

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 (Reviewed By)
 Sandesh Palav
 TE




 (Authorised By)
 Kaveri Dubey
 TM

**** END OF REPORT ****



**INVESTIGATION
BY NDT TECHNIQUES
FOR
STRUCTURE
OF
BUILDING**

‘Roof Top CHSL’

Sher-E-Punjab Colony, Andheri East,
Mumbai - 400 093.

By

PRECISE NDT PVT. LTD.

Office No. 14, Sudarshan Gupta Chawl, Behind Rolex Shopping Center,
Station Road, Goregaon West, Mumbai – 400 104.
E-mail- ndtprecise20@gmail.com, CIN: U74999MH2020PTC351862
Cell: 7039662127/8767677566

CLIENT NAME & ADDRESS

M/S Arvind Singh Consultants

302/38, Opp Sainath C.H.S.L., Anand Nagar, Vakola,
Santacruz (E), Mumbai – 400 055.

Tests Carried Out On Dt. 05.12.2025

Ultrasonic Pulse Velocity	:	05 No.
Rebound Hammer Test	:	05 No.
Carbonation Depth Test	:	02 No.
Half Cell Potential Test	:	02 No.
Concrete Core Compressive Strength	:	01 No.
Chemical Analysis Test	:	01 No.
Cover Meter Test	:	01 No.

'ULTRASONIC PULSE VELOCITY (UPV) TEST

Reference: IS 516 (Part 5/sec 1) 2018

Report Date:	24.12.2025	Report No. PN/DEC/2025/2270
Visit (inspection) Date:	16.12.2025	
Laboratory Name & Address:	Precise NDT Pvt. Ltd., Office No. 14, Sudarshan Gupta Chawl, Behind Rolex Shopping Center, Station Road, Goregaon West, Mumbai – 400 104	
Client Name & Address:	M/S Arvind Singh Consultant, 302/38, Opp Sainath C.H.S.L., Anand Nagar, Vakola, Santacruz (E), Mumbai – 400 055.	
Structure (site) Name:	Structure of ' Roof Top CHSL ', Sher-E-Punjab Colony, Andheri East, Mumbai-400093.	
Age of Structure:	--	Story's of Structure: G+4 & G+3 Floor
Concrete Surface Temperature:	28°C	Mode of Structure: RCC
Reference IS Code:	IS 516 (Part 5/sec 1) 2018	Instrument used: UPV (Rtul Co.)

Sr. No	Mem. ID	Mem. Type	Surface Condi.	Mem. Level	Type of Probing	Distance (mm)	Time (μ sec)	Actual Velocity (Km/s)
1	C1	Column	Dry	Gr. level	Surface	400.00	199.40	2.01
2	C2	Column	Dry	Gr. level	Surface	400.00	190.20	2.10
3	C3	Column	Dry	Gr. level	Surface	400.00	187.80	2.13
4	C4	Column	Dry	Gr. level	Surface	400.00	188.20	2.13
5	B1	Beam	Dry	Gr. level	Surface	400.00	211.60	1.89

Velocity Criteria for Concrete Quality for concrete ≤ M25 only as per Clause 2.5.2 Table 1 of Amend. No. 1 Nov. 2019 of IS 516 (P-5/S-1)2018

Sr. No.	Average Value of Pulse Velocity (Km/Sec.)	Concrete Quality	No. of reading in different categories	Overall Avg. reading (Km/Sec.)
a)	Below 3.5	Doubtful	5.00	2.05
b)	3.5 – 4.5	Good	--	--
c)	Above 4.5	Excellent	--	--

Important:

As per Clause 2.5.2 Table 1 of Amend. No. 1 Nov. 2019 of IS 516 (P-5/S-1)2018: For concrete (>M25): Quality of concrete Doubtful for Pulse Velocity Below 3.75 Km/Sec., Good for velocity between 3.75 – 4.50 Km/Sec. & Excellent for velocity above 4.50 Km/Sec.

As per IS 516(Part5/Sec.1)2018: 2.4.3.2.5: Surface probing in general gives lower pulse velocity than in case of cross probing, the difference could be of the order of about 0.5 km/s. In surface probing method the pulse velocity may be increased by 0.5 km/s, for values > 3.0 km/s.

As per IS 516(Part5/Sec.1)2018: The pulse velocity of saturated concrete may be up to 5 percent higher than that of similar dry concrete. In general, drying of concrete may result in somewhat lower pulse velocity

As per IS 516(Part5/Sec.1)2018: Clause B-1.3: Variations of the concrete temperature between 5°C and 30°C do not significantly affect the pulse velocity measurements in concrete. At temperatures between 30 to 60°C there can be reduction in pulse velocity up to 5 percent. Below freezing temperature, the free water freezes within concrete, resulting in an increase in pulse velocity up to 7.5 percent.

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 NIKIL GANGARAM
 CHOUGULE.
 Date: 2025.12.14
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 N. G. Chougule, B. E. Civil
Authorized Signatory

Notes:-

- 1 Test conducted on RCC member referred in the report.
- 2 The results relate only to the item tested.

3 Test results should not be reproduced in part or whole without the written permission of 'Precise Ndt Pvt Ltd.'

4 We do not undertake any responsibility for any involvement in any type of litigation arising out of result submitted by 'Precise Ndt Pvt Ltd.'

5. ID numbers of Members are not as per any 'approved drawings' that are given by us only for NDT Report purpose.

6. The test points were taken as suggested by the customer.

**** End of UPV Test Report ****

REBOUND HAMMER TEST (RBH)

Reference: IS 516 Part 5 Sec 4 2020

Report Date:	24.12.2025	Report No. PN/DEC/2025/2270
Visit (inspection) Date :	16.12.2025	
Laboratory Name & Address:	Precise NDT Pvt. Ltd., Office No. 14, Sudarshan Gupta Chawl, Behind Rolex Shopping Center, Station Road, Goregaon West, Mumbai- 400 104	
Client Name &Address:	M/S Arvind Singh Consultant, 302/38, Opp Sainath C.H.S.L., Anand Nagar, Vakola, Santacruz (E), Mumbai – 400 055.	
Structure (site) Name:	Structure of ' Roof Top CHSL ', Sher-E-Punjab Colony, Andheri East, Mumbai-400093.	
Age of Structure:	--	Story's of Structure: G+4 & G+3 Floor
Concrete Surface Temperature:	28°C	Mode of Structure: RCC
Reference IS Code:	IS 516 Part 5 Sec 4 2020	Instrument used: Rebound Hammer H-225N

Sr. No.	Member ID	Member Type	Surface Condi.	Member floor level	Rebound Number	Angle of Hammer	Equiv. Cube Strength (Mpa)	Corrected results for carbonation effect (Mpa)
1	C1	Column	Dry	Gr. level	25.00	0°	17.00	11.39
2	C2	Column	Dry	Gr. level	31.00	0°	26.00	17.42
3	C3	Column	Dry	Gr. level	25.00	0°	17.00	11.39
4	C4	Column	Dry	Gr. level	27.00	0°	20.00	13.40
5	B1	Beam	Dry	Gr. level	27.00	0°	20.00	13.40

Interpretation Of Results as per IS 516 Part 5 Sec 4 2020

As per Clause No. 8.1	The rebound indices are indicative of compressive strength of concrete to a limited depth from the surface. If the concrete in a particular member has internal micro-cracking, flaws or heterogeneity across the cross-section, rebound hammer indices will not indicate the same. The estimation of strength of concrete by rebound hammer method cannot be held to be very accurate & probable accuracy of prediction of concrete strength in a structure is +/- 25 percent.
As per Clause No.8.2	Because of the various limitations in rebound hammer test, the combined use of ultrasonic pulse velocity (UPV) test [IS 516 (Part 5/Sec 1)] and rebound hammer test is a must for proper interpretation
As per Clause No. 8.3	In cases the quality of concrete assessed by UPV is doubtful, no assessment of concrete strength shall be made from rebound hammer test
As per Clause No. 7.1.3	A wet surface will give rise to underestimation of the strength of concrete calibrated under dry conditions. In structural concrete, this can be about 20 percent lower than in an equivalent dry concrete.
As per Clause No. 7.1.5	Carbonated concrete gives an overestimate of strength which in extreme cases can be up to 50%. The carbonation depth shall be checked in cases where the age of concrete is more than 6 months.

NIKIL GANGARAM CHOUGULE.
Digitally signed by NIKIL GANGARAM CHOUGULE.
Date: 2025.12.14 12:54:21 +05'30'
N. G. Chougule, B. E. Civil
Authorized Signatory

Notes:-

- 1 Test conducted on RCC member referred in the report.
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6. The test points were taken as suggested by the customer.

**** End of RBH Test Report ****

'CARBONATION DEPTH' TEST (CD)

Reference: BS EN 14630: 2006

Report Date:	24.12.2025	Report No. PN/DEC/2025/2270
Visit (inspection) Date :	16.12.2025	
Laboratory Name & Address:	Precise NDT Pvt. Ltd., Office No. 14, Sudarshan Gupta Chawl, Behind Rolex Shopping Center, Station Road, Goregaon West, Mumbai- 400 104	
Client Name &Address:	M/S Arvind Singh Consultant, 302/38, Opp Sainath C.H.S.L., Anand Nagar, Vakola, Santacruz (E), Mumbai – 400 055.	
Structure (site) Name:	Structure of 'Roof Top CHSL' , Sher-E-Punjab Colony, Andheri East, Mumbai-400093.	
Age of Structure:	--	Story's of Structure: G+4 & G+3 Floor
Concrete Surface Temperature:	28°C	Mode of Structure: RCC
Reference IS Code:	BS EN 14630: 2006	

Sr. No.	Member ID	Member Type	Member floor Level	Total depth of specimen (drilled hole) in 'mm' (by drilling)	Carbonated depth in 'mm'
1	C1	Column	Gr. level	60.00	29.00
2	C2	Column	Gr. level	60.00	25.00

Important as per Clause 2.1 in 'IS 516 (Part 5/Sec 3) : 2021':

Carbonation process leads to cause a reduction in the pH value of the concrete, which causes de-passivation of protective layer (concrete) of the reinforcement bars and initiates their corrosion.

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Authorized Signatory

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**** End of CD Report ****

HALF CELL POTENTIAL (HCP)

Reference: IS 516 (Part 5/Sec 2): 2021

Report Date:	24.12.2025	Report No. PN/DEC/2025/2270
Visit (inspection) Date :	16.12.2025	
Laboratory Name & Address:	Precise NDT Pvt. Ltd., Office No. 14, Sudarshan Gupta Chawl, Behind Rolex Shopping Center, Station Road, Goregaon West, Mumbai – 400 104	
Client Name & Address:	M/S Arvind Singh Consultant, 302/38, Opp Sainath C.H.S.L., Anand Nagar, Vakola, Santacruz (E), Mumbai – 400 055.	
Structure (site) Name:	Structure of ' Roof Top CHSL ', Sher-E-Punjab Colony, Andheri East, Mumbai-400093.	
Age of Structure:	--	Story's of Structure: G+4 & G+3 Floor
Concrete Surface Temperature:	28°C	Mode of Structure: RCC
Reference IS Code:	IS 516 (Part 5/Sec 2) : 2021	

Sr. No.	Member ID	Member Type	Member floor Level	HCP Results (-V)
1	C1	Column	Gr. level	-0.236
2	C2	Column	Gr. level	-0.268

- Criteria as per IS 516 (Part 5/Sec 2): 2021

Sr. No.	Half cell potential reading, cu/cuSO4	Likely Corrosion Condition	No. Of readings	Overall Avg. Of reading
		Low (there is a greater than 90 percent probability that no reinforcing steel corrosion is occurring in that area at the time of measurement)	--	--
1	>-0.200 V	Corrosion activity of the reinforcing steel in that area is uncertain	02.00	-0.252 V
		High (there is a greater than 90 percent probability that reinforcing steel corrosion is occurring in that area at the time of measurement)	--	--
2	-0.200 V to -0.350 V			
3	< -0.350 V			

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**** End of HCP Report ****

CONCRETE CORE COMPRESSIVE TEST (CT)

Reference: IS 516 (Part 4) : 2018

Report Date:	24.12.2025	Report No. PN/DEC/2025/2270
Visit (inspection) Date:	16.12.2025	
Laboratory Name & Address:	Precise NDT Pvt. Ltd., Office No. 14, Sudarshan Gupta Chawl, Behind Rolex Shopping Center, Station Road, Goregaon West, Mumbai – 400 104	
Client Name & Address:	M/S Arvind Singh Consultant, 302/38, Opp Sainath C.H.S.L., Anand Nagar, Vakola, Santacruz (E), Mumbai – 400 055.	
Structure (site) Name & Age:	Structure of ‘Roof Top CHSL’ , Sher-E-Punjab Colony, Andheri East, Mumbai-400093.	
Age of Structure:	--	Story's of Structure: G+4 & G+3 Floor
Concrete Surface Temperature:	28°C	Mode of Structure: RCC
Reference IS Code:	IS 516 (Part 4) : 2018	Equipment Used: CTM-01

Sr. No	Memb ID	Memb. Type	Core length L (mm)	Core Dia. D (mm)	Core weight (Kg.)	C/s area mm ²	Max Load (KN)	Actual Comp. strength (N/mm ²) (Mpa)	Correc-tion factor for l/d ratio	Corrected comp. Strength (after Dia& l/d ratio N/mm ² _)	Equivalent core comp. Strength (N/mm ²)
1	C1 Gr. level	Column	106.90	68.05	0.846	3637.50	39.77	10.93	0.953	11.04	13.80

Acceptance Criteria as per IS: 456-2000 (Reaff: 2016) Clause No. 17.4.3:

Concrete in the member represented by a core test shall be considered acceptable if the average equivalent strength of the cores is equal to at least 85% of the cube strength of the grade of concrete specified for the corresponding age and no individual core has a strength less than 75%

Important Factors:

1. Core length & weight after trimming & capping of specimen
2. Correction factor for diameter as per clause 8.4.1 for Dia. less than 100mm
3. For h/d ratio correction factor are as per IS: 516 (Part 4) : 2018
4. Equivalent cube compressive strength: 1.25 x corrected cylinder compressive strength as per clause 8.4.2 of IS: 516 (Part 4) : 2018

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**** End of CT Report ****

DETERMINATION OF PH, SULPHATE & CHLORIDE CONTENT (CHEMICAL TEST)

Reference: IS 456-2000 (RA 2011)

Report Date:	24.12.2025	Report No. PN/DEC/2025/2270
Visit (inspection) Date :	16.12.2025	
Laboratory Name & Address:	Precise NDT Pvt. Ltd., Office No. 14, Sudarshan Gupta Chawl, Behind Rolex Shopping Center, Station Road, Goregaon West, Mumbai- 400 104	
Client Name & Address:	M/S Arvind Singh Consultant, 302/38, Opp Sainath C.H.S.L., Anand Nagar, Vakola, Santacruz (E), Mumbai – 400 055.	
Structure (site) Name:	Structure of ' Roof Top CHSL ', Sher-E-Punjab Colony, Andheri East, Mumbai-400093.	
Age of Structure:	--	Story's of Structure: G+4 & G+3 Floor
Concrete Surface Temperature:	28°C	Mode of Structure: RCC
Reference IS Code:	IS 456-2000 (RA 2011)	

Sample collected from Specimen				Test Parameters		
Sr. No.	Member ID	Member Type	Member Level	PH Value (Potential of Hydrogen)	Chloride (CL) Content as Kg/Cum. of Reinforced Concrete	Sulphate (SO ₃) as % of mass of Cement in the Concrete Mix
1	C1	Column	Gr. level	9.87	0.173	1.043

• **Permissible limits IS 456-2000 (RA 2011):**

Test Parameters	Permissible limits
PH Value (Potential of Hydrogen)	Not less than 8.00
Chloride as CL (Kg/Cum)	For RCC, Max. 0.60 Kg/Cum.
Sulphate as SO ₃ (%)	Less than 4 %

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**** End of Chem. Report ****

COVER METER TEST (CM)

Reference: BS 1881 Part 201

Report Date:	24.12.2025	Report No. PN/DEC/2025/2270
Visit (inspection) Date :	16.12.2025	
Laboratory Name & Address:	Precise NDT Pvt. Ltd., Office No. 14, Sudarshan Gupta Chawl, Behind Rolex Shopping Center, Station Road, Goregaon West, Mumbai- 400 104	
Client Name & Address:	M/S Arvind Singh Consultant, 302/38, Opp Sainath C.H.S.L., Anand Nagar, Vakola, Santacruz (E), Mumbai – 400 055.	
Structure (site) Name:	Structure of ' Roof Top CHSL ', Sher-E-Punjab Colony, Andheri East, Mumbai-400093.	
Age of Structure:	--	Story's of Structure: G+4 & G+3 Floor
Concrete Surface Temperature:	28°C	Mode of Structure: RCC
Reference IS Code:	BS 1881 Part 201	

Sr. No.	Mem . ID	Member Type	Member Level	Column Size (mm)	Along Length (mm)	Clear Concrete Cover (mm) Avg.	Spacing between vertical steel (mm) Avg.	Spacing between stirrups (mm) Avg.
Note: Plaster thickness includes in member size & concrete cover								
1	C1	Column	Gr. level	280 X 560	280.00	78.00	124.00	180.00
					560.00	95.00	123.33	180.00

Summary:

Mem . ID	Column Size (mm)	Avg. Clear Concrete Cover (mm)	No. of Vertical Bars	Avg. Spacing between stirrups (mm) Avg.
C1	280.00 X 560.00	86.50	8.00	180.00

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Submitted by 'Precise Ndt Pvt Ltd.'

**** End of CM Report ****

