



Suyog Structural Design Consultants

Designing Buildings to Protect Mankind

RCC Design • Steel Design • Structural Audit & Project Management Consultancy

Suyog V. Tikle

Chartered Engineer

ME (Struct.), MBA (HR), BE (Civil Engg.), D.C.E.

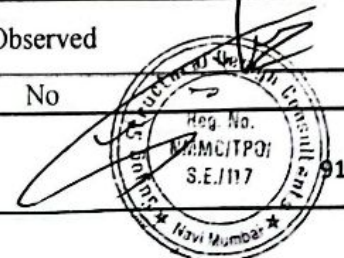
Corporate Office : 103, 1st Floor, Technocity Building, Plot No. X-5/3, Near Hotel Sarovar Portico, TTC Industrial Area, MIDC Mahape, Near Ghansoli Station, Navi Mumbai-400701.

Mob. : +91 9860219373 E-mail : suyog.ssdcc@gmail.com

PROFORMA 'B'

Sub: - Structural Audit of "RISHABH SOCIETY C.H.S. LTD" Plot No: -01, Sector -09, Vashi, Navi Mumbai - 400 703.

Name of Consultant: -	Suyog Tikle
1 Name of Bldg.	"RISHABH SOCIETY C.H.S. LTD"
2 Address	"RISHABH SOCIETY C.H.S. LTD" Plot No: -01, Sector -09, Vashi, Navi Mumbai - 400 703.
3 No. of Story	Ground + 03
4 Year of Construction/Age	1986
5 Nature of use	Residential & Commercial Building
6 Year of Repairing	2012
7 Mode of construction of existing bldg.-	
i) Foundation	RCC
ii) Floors	RCC
iii) Walls	Brick wall
iv) Beams	RCC
v) Columns	RCC
vi) Roof	RCC Slab with Brick bat coba
8 History of Repairs done year-wise-	
(a) Slab recasting	Not Known
(b) Column Jacketing	-
i) Structural Repairs	Not Known
ii) Tenantable Repairs	Not Known
iii) Roof/Waterproofing	Not Known
iv) Plumbing	Not Known
v) Additions/Alterations if any	Not Known
9 Date of Inspection by Consultant-	29-07-2024
Date of Preparation of Report	12-08-2024
10 Condition of -	
i) Internal plaster	Cracks & Hollowness observed at many locations
ii) External plaster	External plaster noted cracks at some locations. Major cracks were also noted in the external plaster at some locations.
iii) Plumbing	Leakages Observed at some locations
iv) Drains lines/chambers	Observed
11 Observations-	
a) Doors & windows don't close	Observed
b) Columns & steel exposed	Major Cracked RCC Column, Beams & Slab at many locations.
c) Settlement uneven flooring gaps between and skirting & floor	Observed
d) Foundation settlement	No





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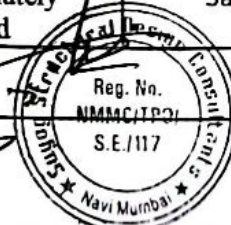
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	e) Deflections/sagging	No signs of Deflections/sagging are observed anywhere in the structure
	f) Major cracks in column/beams	Major Cracked RCC Column, Beams & Slab with exposed reinforcement at some locations.
	g) Seepages/Leakages	Seepages/ leakages Observed at many locations.
	h) Staircase area/Column condition	Cracked concrete in RCC beams & slab at some locations
	i) Lift walls	No
	j) U. G. Tank	N.A
	k) OHT/Column condition	Cracked observed
	l) Parapet at terraces	Cracked observed
	m) Chajja	observed
	n) Common areas	The existing R.C.C. members of the Common areas like staircase, passages etc. noted minor cracks, peeling of paint mark of dampness/seepages etc. were observed at many locations
	o) Toilet blocks	No
	p) Terrace/Water proofing	Cracked Observed at some locations
12	Test carried out on structure/observations thereof- NDT	Findings
	a. Ultrasonic pulse velocity test	1.08
	b. Rebound Hammer, Test	20
	c. Half Cell Potential Test	-220 to -555 mV
	d. Carbonation Depth Test	50 to 96 percent
	NDT	Range as per IS Codes
		No integrity, large voids suspected
		Fair quality of surface hardness/ Strength
		90% probability of corrosion
		85%
13	Brief Description of repairs to be done	
	a) Water Proofing	Structure Beyond viable repairs
	b) External Plaster	Structure Beyond viable repairs
	c) Structural repairs	Structure Beyond viable repairs
	i. Column jacketing	Structure Beyond viable repairs
	ii. Slab recasting	Structure Beyond viable repairs
	iii. RCC cover to be replaced.	Structure Beyond viable repairs
	iv. Beam recasting	It's not required beam.
	d) Partial Evacuation during repairs needed	Not required
	e) Propping	-
14	Conclusions of Consultants-	Observations
	i. Whether structure is livable/or whether it is to be evacuated/pulled down	To be immediately Evacuated
		Key reason
		Safety





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ii.	Whether structure requires tenantable repairs/Major structural repairs & its time frame	Structure Beyond viable Repairs	Severe Structural Deteriorations.
iii.	Whether structure can be allowed to occupy during course of repairs	Structure Beyond Viable Repairs	Safety
iv.	Nature/Methodology of repairs	NA	Severe Structural Deteriorations.
v.	Whether structure requires immediate propping. If so, its propping plan/ methodology given	No	
vi.	Whether other immediate safety measures required- What is specific recommendation?	About to fall chunks of concrete and plaster of columns, beams & Slabs should be carefully removed, refer immediate action plan.	Safety
vii.	Enhancement in life of structure after repairs/frequency of repairs required in extended life period	NA	
viii.	Specific remarks, whether building needs to be vacated/demolished/repairable	NA	NA
ix.	Whether structure in extremely critical condition	Based on our detailed Audit	Based on our detailed Audit
15	Critical Observation	- Major Structural Cracks observed	
16	Classification of Building		
	Category	Auditor's final Conclusion	
	C1	To be evacuated/demolition immediately	
Classification of building			Category
To be evacuated/demolition immediately			C1
To be evacuated and /or partial demolition requiring major structural repairs			C2-A
No eviction only structural repairs			C2-B
No eviction needs minor repairs only			C3

Signature



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