

TECHNOESIS

Structural Rehabilitation Consultants

***Structural Audit
&
Rehabilitation***



DHARGALKAR TECHNOESIS (I) PVT. LTD.

Civil -Structural • Project Management • Repair-Redevelopment • Training

D-104, Radha Govind, Near Siddharth Nagar, Off W.E. Highway

Borivali (E), Mumbai 400 066, India

Phones: 91 (22) 2846 1500, 2846 1317, 2846 3012

E-mail: mail@technoesis.co.in • Website: www.technoesis.co.in

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COMPANY PROFILE

- Name:** **DHARGALKAR TECHNOESIS (I) PVT. LTD.**
- Status:** Private Limited Company incorporated in 1997
Registered Service Enterprise (MSME), Govt. of India
- MD & CEO:** Umesh Dhargalkar, B.Tech. (Civil), M.Tech. (Struct.) IIT-Bombay
- Office:** D-104, Radha Govind, Near Siddharth Nagar, Off W.E. Highway
Borivali (E), Mumbai 400 066, India
Phones: 91 (22) 28461500, 28461317, 28463012
Email: mail@technoesis.co.in Website: www.technoesis.co.in
- Consulting:
Services**
1. Project Management - Redevelopment & Construction
 2. Structural Audit, Rehabilitation & Retrofitting of Buildings
 3. Structural Design of Buildings, Transmission Lines & Special Foundations
 4. Professional Training in Construction Industry
 5. Commercial Mediation (Alternate Dispute Resolution)
- Accreditation:**
1. Accredited by CDC, DSIR, Ministry of Science & Technology, Govt of India
 2. Accredited Mediator, Indian Institute of Arbitration & Mediation (Director)
- Empanelment:
& Licenses**
1. Structural Engineer's License, Municipal Corp. of Greater Mumbai
 2. Surveyor License, Municipal Corporation of Greater Mumbai
 3. Empanelled as Mediator & Arbitrator with Indian Institute of Arbitration & Mediation (Director)
 4. Empanelled as a Mediator/ Conciliator with Ministry of Corporate Affairs, Government of India (Director)
- Associates:**
- Architects: S.B. Associates
Structural: Pedanekar & Associates
Legal: Krishna Tanna & Associates
Testing: Aaryan Engineers
- Major Clients:** MCGM, MMRDA, MSEB, Jyoti Structures Ltd., Videsh Sanchar Nigam Ltd. University of Mumbai, Leela Scottish Lace Ltd., Army Welfare Housing Organization, Indian Railways Welfare Organization, Indian Oil Corporation, Konkan Railway Corporation Ltd., MHADA, Kamat Hotels (I) Ltd., Hotel Leela Kempinski, Aga Khan Education Service, Kvaerner Powergas, Bank of India, Aga Khan Planning & Building Service, India, National Housing Bank, Somaiya Polytechnic, Wacker Chemie India Pte Ltd, LIC, ACG Associated Capsules Pvt. Ltd., private developers & housing societies
- Overseas:
Projects**
- National Electric Power Authority of Nigeria, Dept of Electrical Services, Brunei Ministry of Elect & Water, Dubai & Research Project for Purdue University-USA.

CV OF UMESH DHARGALKAR

- Name:** **UMESH DHARGALKAR**
Managing Director, Dhargalkar Technoesis (I) Pvt. Ltd.
- Educational:** B. Tech. (Civil), IIT Bombay, May 1982
Qualifications M. Tech. (Structures), IIT Bombay, Jan 1985
- Fields of Practice:** Civil-Structural Engineering, Construction Project Management
Structural Rehabilitation, Professional Training and Commercial Mediation
- Accreditation & Empanelment**
1. Senior Professional Engineer, Engineering Council of India & CIDC
 2. Accreditation from Consultancy Development Center, DSIR, Ministry of Science & Technology, Govt of India (For the Company)
 3. Accredited Arbitrator & Mediator, Indian Inst. of Arbitration & Mediation
 4. Empanelled as a Mediator/Conciliator with MCA, Government of India
 5. Empanelled as a Neutral, Indian Institute of Arbitration & Mediation
 6. Accredited Mediator & Arbitrator, Mediation & Conciliation Network
 7. Fellow of Indian Institution of Technical Arbitrators
- Prof Licenses:**
1. Structural Engineer's License, Municipal Corp. of Greater Mumbai
 2. Surveyor License, Municipal Corporation of Greater Mumbai
- Memberships:**
1. Advisory Trustee of the Indian Society of Structural Engineers
 2. Fellow of the Institution of Engineers (I): Chartered Engineer
 3. Life Member of the American Concrete Institute
 4. Life Member of the Indian Concrete Institute
 5. Life Member of the Association of Consulting Civil Engineers
 6. Life Member of Indian Association for Structural Engineering
 7. Member of Practicing Engr, Arch & Town Planners Association
 8. Life Member of Indian Geotechnical Society, Mumbai Chapter
- Awards:** Received CIDC Vishwakarma Award 2017 as an "Innovator" in March 2017 from Construction Industry Development Council
- Publications:** He is a co-author of a Manual of Practice "*Professional Services by Structural Design Consultants*" published by the Indian Society of Structural Engineers.

Technical Papers Published:**A] Construction Project Management**

Title of Paper	Name of Journal/ Conference	Date of Publication
1. A Management Information System for Monitoring Construction Projects	Proceedings of 6 th National Conference on Construction, CIDC, New Delhi	Nov 2003
2. A Model for Evaluation of Item-Rate Bids	Proceedings of 6 th National Conference on Construction, CIDC, New Delhi	Nov 2003
3. Essentials of Redevelopment of Infrastructure – An Indian Scenario	International Conference on “Recent Advances in Civil and Environmental Engg, Walchand College, Sangli	Mar 2017

B] Structural Design & Detailing

Title of Paper	Name of Journal/ Conference	Date of Publication
1. Guidelines for a Structural Engineer for Practicing as Design Consultant	The Indian Concrete Journal	Jan 2002
2. Quick Calculations of Steel for Singly Reinforced Section	Journal of the Indian Society of Structural Engineers	Jan-Mar 2002
3. Generalized Approach for Designing RC Beams	The Indian Concrete Journal	Dec 2002
4. Ready Formulae for Calculating stress in Steel	Journal of the Indian Society of Structural Engineers	Jul-Sep 2002
5. Effects of Distribution of Rebars on Design of Columns	Journal of the Indian Society of Structural Engineers	Apr-Jun 2003
6. Design of Simply Supported One-Way Slab loaded by Strip Load along Span	The Indian Concrete Journal	Feb 2004
7. Post Tensioned Slabs	Journal of the Indian Society of Structural Engineers	Oct-Dec 2004
8. Understanding Quenched & Tempered Rebars	Journal of the Indian Society of Structural Engineers	Oct-Dec 2006
9. Structural Design Using Quenched & Tempered Rebars	Journal of the Indian Society of Structural Engineers	Jan-Mar 2007
10. Corrosion of Reinforcement	Journal of the Indian Society of Structural Engineers	Oct-Dec 2007

C] Structural Assessment & Rehabilitation

Title of Paper	Name of Journal/ Conference	Date of Publication
1. Regulating Alterations within Apartments in a Co-op Housing Society	The Indian Concrete Journal	Aug 2003
2. Seismic Assessment of Buildings: A Suggested Methodology	The Indian Concrete Journal	Aug 2002, Special Issue
3. Structural Rating of RC Buildings using Qualitative Parameters	Proceedings of the 12 th Symposium on Earthquake Engineering, IIT-Roorkee	Dec 2002
4. A Structural Distress Scenario for the City of Mumbai	Proceedings of the National Seminar on "Repair and Rehabilitation of Structures", ACI-IC, Mumbai	Jan 2004
5. Seismic Rating of Buildings using Qualitative Parameters	Proceedings of the International Conference on "Managing Seismic Risk in Developing Countries", Bhopal	Mar 2004
6. A Web-Based Model for Rapid Seismic Assessment of Buildings	Proceedings of the 19th Indian Engineering Congress, The Institution of Engineers (I), Mumbai	Dec 2004

Seminars/ Workshops: He has conducted/ given talks at the following seminars/ workshops:

Seminar/ Workshop Topic	Date	Venue	Remarks
1. Seismic Design and Detailing of RCC Framed Structures	Feb 2002	Mumbai	For Indian Society of Structural Engineers
2. Software Tools for Structural Design of Buildings	Feb 2003	Mumbai	For Indian Society of Structural Engineers
3. Seismic Aspects for Design of Buildings	Oct 2003	Bhiwandi	For Municipal Corporations of Mumbai and Bhiwandi
4. Structural Audit: Methodology, Guidelines and Related Issues	Nov 2003	Mumbai	For Indian Society of Structural Engineers
5. Structural Audit/ Assessment	Nov 2003	Mumbai	For Indian Society of Structural Engineers
6. Structural Audit/ Assessment	Apr 2004	Pune	For Indian Society of Structural Engineers
7. Post Tensioned Slabs	Oct 2004	Mumbai	For Indian Society of Structural Engineers
8. Structural Audit/ Assessment	Dec 2004	Mumbai	At K.J. Somaiya Polytechnic
9. Rapid Seismic Assessment of Buildings	Jun 2005	Dubai	For Aga Khan Planning & Building Service
10. Structural Detailing In RCC Buildings	May 2007	Mumbai	For Indian Society of Structural Engineers

Seminar/ Workshop Topic	Date	Venue	Remarks
11. Seismic Isolation and Column shortening of High-rise	Sep 2008	Mumbai	For Indian Society of Structural Engineers
12. Structural Audit/ Assessment	Sep 2008	Pune	For Indian Society of Structural Engineers
13. Structural Audit/ Assessment	Apr 2009	Pune	At Sinhgad College of Engineering
14. Structural Detailing Using Software	Jun 2009	Mumbai	For Indian Society of Structural Engineers
15. Structural Design of Multistoried RCC Buildings	Jul 2009	Mumbai	With Sardar Patel College of Engineering
16. Design of Steel Structures Using IS 800: 2007	Nov 2009	Mumbai	With Sardar Patel College of Engineering
17. Effective Property Management in the 21st Century	Dec 2009	Mumbai	At K.J. Somaiya Institute of Management Studies
18. Planning & Designing Earthquake Resistant Buildings	Feb 2010	Mumbai	With IES College of Architecture
19. Structural Audit & Rehabilitation of Buildings	Mar 2010	Mumbai	At VJTI
20. Structural Audit/ Assessment	Feb 2011	Pune	At Sinhgad College of Engineering
21. Structural Audit/ Assessment	Mar 2011	Solapur	For Indian Society of Structural Engineers
22. Structural Audit/ Assessment	Jan 2012	Mumbai	At VJIT
23. Understanding Essentials of Redevelopment Projects	Sep 2014	Mumbai	For General Public
24. Redevelopment of Buildings – Role of Various Agencies	Dec 2014	Mumbai	At VJIT
25. Process of Redevelopment, Roles of Different Agencies & Selection of a PMC	Jan 2015	Mumbai	For Institute of Chartered Accountants of India
26. Understanding Essentials of Redevelopment Projects	Mar 2015	Mumbai	For General Public
27. Structural Audit & Non-destructive of Buildings	Mar 2016	Mumbai	At CETTM
28. Construction of Civil works: Reinforcement	Jul 2016	Mumbai	Industry Readiness Program for Fresh Engineers
29. Effective Supervision of Projects: Site Records, Communication and Reporting	Aug 2016	Mumbai	Industry Readiness Program for Fresh Engineers
30. Structural Audit: Concept, Scope & Procedures	Aug 2016	Amravati	For Government College of Engineering, Amravati
31. Mediation for Dispute Resolution in Construction Projects	Sep 2016	Mumbai	At Big5 Construct India Exhibition
32. Deal Mediation	Feb 2017	Mumbai	Professional Mediation Training Program at CETTM

Seminar/ Workshop Topic	Date	Venue	Remarks
33. Mediation for Dispute Resolution in Construction Projects	Feb 2017	Pune	For Indian Society of Structural Engineers, Pune
34. RCC Design using Spreadsheet Applications	Apr 2017	Mumbai	CPD Program approved & supported by ECI & CIDC
35. Rehabilitation & Strengthening of Structures	May 2017	Mumbai	CPD Program approved & supported by ECI & CIDC
36. Construction Cost Management - A Modern Approach: Billing, Bill Checking and Certification	Jul 2017	Mumbai	CPD Program approved & supported by ECI & CIDC
37. Construction Cost Management - A Modern Approach: Engineer's & Architect's Certificates as per RERA	Jul 2017	Mumbai	CPD Program approved & supported by ECI & CIDC
38. RERA – New Challenges & Opportunities	Sep 2017	Mumbai	CPD Program approved & supported by ECI & CIDC
39. RERA - Introduction to Dispute Resolution Methods	Sep 2017	Mumbai	CPD Program approved & supported by ECI & CIDC
40. Mediation & Conciliation for Resolution of Construction Disputes	Nov 2017	Mumbai	CPD Program approved & supported by ECI & CIDC
41. Conciliation & ADR in Construction	Jan 2018	Mumbai	For NICMAR, Mumbai
42. Understanding the Process of Redevelopment	Jun 2018	Mumbai	For Members of Housing Societies
43. Avoiding Pitfalls & Failures in Redevelopment	Jun 2018	Mumbai	For Members of Housing Societies
44. Structural Audit & Non-destructive Testing	Jun 2018	Mumbai	CPD Program approved & supported by ECI & CIDC
45. Understanding the Process of Redevelopment	Jul 2018	Mumbai	For Members of Housing Societies
46. Understanding the Process of Redevelopment	Aug 2018	Mumbai	For Members of Housing Societies

CV OF NEETIN KHEDKAR

- Name:** **NEETIN KHEDKAR**
Director, Dhargalkar Technoosis (I) Pvt. Ltd.
- Educational:** B. Tech. (Civil), IIT Bombay, May 1982
Qualifications Post Graduate Diploma in Computer Programming
- Fields of Practice:** Construction Project Management, Structural Rehabilitation
- Skills & Expertise:** Project Management, Progress Monitoring, Time Management, Budget Management, Contract Management, Operations Management, Technical Documentation, Negotiation
- Memberships:**
1. Senior Professional Engineer, Engineering Council of India & CIDC
 2. Member of the Institution of Engineers (I)
 3. Member of IIT Bombay Alumni Association
- Experience:** Completed more than 20000 houses in various cities in India.
Recently completed projects:
1. 'Lords' at Nahur ... A mini township with 268 flats of 2 BHK each
 2. 'Solitaire' at Thane ... A tower housing 108 apartments at Ghodbunder Road, Thane, presently nearing completion.
 3. 'Rajas Residency' at Ghatkopar ... A tower with 2 and 1 BHK flats at Pant Nagar, Ghatkopar, presently nearing completion.
 4. Skywalks at Wadala and Cotton Green ... Project Management
 5. Shushrusha Hospital, Vikhroli ... Complete Project Management on behalf of the Client, Shushrusha Citizens Coop Hospitals Ltd.
A 120 bed Multi Speciality Hospital, for the benefit of Lower Income Group, Coop Sector.
- Awards:** He received Limca Book Award in June 2013 for constructing 268 flats in a record time of 731 days using conventional technology despite challenges faced during construction on Mumbai
- Publications:** South East Asian Housing Program, ASEAN – Jan 2008
The publication discusses problems related to Housing for the Poor.

TECHNICAL TEAM**Directors:****Umesh Dhargalkar**

Designation: Managing Director
 Qualifications: B. Tech. (Civil), IIT Bombay
 M. Tech. (Struct.), IIT Bombay
 Experience: 33 years

Neetin Khedkar

Designation: Director
 Qualifications: B. Tech. (Civil), IIT Bombay
 Experience: 35 years

Rupali Joshi

Designation: Director
 Qualifications: B E (Civil)
 Experience: 22 years

Project Coordinators:**Laxmikant Umarji**

Designation: Sr. Project Coordinator
 Qualifications: B E (Civil)
 Experience: 40 years

R.K. Nair

Designation: Project Coordinator
 Experience: 12 years

Other Technical Staff:

Name	Designation	Qualification	Experience
1. Shruthi Argekar	Sr. Project Engineer	B E (Civil)	9 yrs
2. Nilesh Kale	Sr. Project Engineer	B E (Civil)	7 yrs
3. Darshan Tawade	Project Engineer	B E (Civil)	5 yrs
4. Dhruv Patel	Project Engineer	B Tech (Civil)	3 yrs
5. Ketan Waghela	Project Engineer	B E (Civil)	1 yr
6. Ajay Pawar	Project Engineer	Diploma (Civil)	2 yrs
7. Rupesh Hatankar	Site Supervisor	B Com, CBM	3 yrs

Associates:

- Architects: Suhas Borole, S.B. Associates
- Structural: Pedanekar & Associates
- Legal: Krishna Tanna & Associates
- Testing: Aaryan Engineers

Structural Audit/ Condition Survey

What is Structural Audit?

The general health and performance of a building depends on its quality of maintenance. As a building grows old, ageing, use (or misuse) and exposure to the environment can affect the health of the building significantly. Therefore, it is advisable to monitor it periodically by taking a professional opinion. Structural Audit is a preliminary technical survey of a building to assess its general health as a civil engineering structure. It is usually initiated as the first step for repair. This is similar to the periodic health checkup recommended for older people.

When to do Structural Audit?

Model bye-law no. 77 specifies Structural Audit as a mandatory requirement. It stipulates that if the age of a building is 15 to 30 years, Structural Audit must be carried out once in 5 years and for buildings older than 30 years it must be carried out once in 3 years. You may, however, go for it even earlier if you suspect the condition of your building to be bad.

How is it carried out?

Structural Audit is commissioned by appointing a Consulting Structural Engineer registered with the Municipal Corporation of Greater Mumbai (MCGM or BMC). The Consultant carries out a visual survey of the building covering its faces, stilts, staircase, terrace, flats, shops and ancillary structures such as pump room, compound wall, etc. A light tapping hammer, damp detector, spirit level, magnetic compass and magnifying glass are used during survey. Repair history of the building and specific observations/ experiences of the members are also noted. Critical observations, probable causes of distress, remarks on structural health and recommendations for further action are given in the Structural Audit Report.

Why Technoesis?

With several years of experience and expertise in the field of structural assessment, we at Technoesis have evolved a unique methodology for carrying out structural audit. Technoesis offers you the following advantages:

1. Licensed Structural Engineers (highest category) registered with MCGM.
2. Member of a Special Repair Panel formed by MCGM and several professional bodies
3. Member of a Panel for Repair & Reconstruction of Buildings formed by MHADA
4. Trained and experienced surveyors (engineers)
5. Structural Audit as per the guidelines of the Indian Society of Structural Engineers
6. Methodology supported by exhaustive checklists and software
7. Detailed report along with documentation of flat wise observations
8. Over 100 structural audits completed
9. Conducted professional training seminars on Structural Audit
10. Extended consultancy for all further needs such as testing, repairs, extension etc

Articles on Structural Audit:

1. Understanding Structural Audit www.technoesis.co.in/Art3-SAudit1.asp
2. More about Structural Audit www.technoesis.co.in/Art4-SAudit2.asp

Comprehensive Services for Repair - Rehabilitation

Cracks in the RCC, walls or plaster, seepage through walls and slabs, hollowness in RCC or plaster and corrosion of reinforcement are some of the common signs of distress, which suggest that your building needs to be repaired. Structural damage can be very serious and should be attended to immediately. Repair/ rehabilitation of a building is a specialized job requiring good engineering judgment, experience and special skills. It also requires experience in the fields of tendering, project management and dispute resolution.

We offer a comprehensive and standardized methodology for repair-rehabilitation of structures, spread over the following phases:

Phase I: Assessment, scheme of repair and cost estimate

1. Collection of basic information about the building and about previous repair/ maintenance/ extension works
2. Visual survey of the building and ancillary structures in the premises and taking measurements for the cost estimate
3. Conducting non-destructive, chemical or other tests, if necessary
4. Deciding on a scheme repair
5. Preparing an item wise estimate of cost based on guideline rates along with assignment of priorities, if necessary

Phase II: Tendering and evaluation of bids received

1. Finalizing the scheme of repair and dividing work into phases, if necessary, in consultation with the client
2. Preparing specifications of work, conditions of contract and bill of quantities
3. Preparing the Tender document
4. Assisting the client to invite bids from contractors
5. Evaluating bids received, preparing comparative statement and advising on selection of a contractor

Phase III: Supervision and certification

1. Advising for signing the contract and completing formalities as per the Tender conditions
2. Briefing session for the contractor for deciding on a mechanism on reporting and quality control
3. Providing necessary technical support during the execution of work
4. Periodic evaluation of quality and progress of work through site visits and meetings
5. Regular supervision of work through our engineer, if necessary
6. Checking of measurements and certification of contractor's bills
7. Certification of virtual completion of work

Phase IV: Completion and defect liability period

1. Completion report giving description and terms of work completed and terms of maintenance during defect liability period
2. Inspecting the work towards the end of the defect liability period, if necessary and submitting a report

Structural Rehabilitation & Seismic Retrofitting

If your building is in a very bad structural health or its stability is a matter of concern, you need to consult an experienced structural engineer immediately. Settlement or tilting of building, diagonal cracks at beam column junction, major distress in structural members etc indicate such a need. Fire, earthquake, cyclone, explosion etc may also cause serious damage to a building. Such a structure may need **major structural rehabilitation**.

In case your building was not designed for earthquake, its stability during an earthquake can be doubtful even if presently it does not show significant distress. Even newly constructed structures can be vulnerable to earthquakes. Your building may need **seismic retrofitting** if:

1. It was initially not designed and constructed to resist earthquakes
2. It was initially designed and constructed to resist earthquakes but,
 - a) The loading/ load carrying parameters have changed since its construction e.g.:
 - The present structural quality is bad due to poor maintenance or ageing
 - Loads have increased due to change of mode of use etc
 - Alterations/ extensions are carried out or are currently being contemplated
 - b) The design specifications have changed since its construction such as:
 - Upgrade of the seismic zone, Importance factor etc
 - Revision in the methodology or specifications of structural design/ detailing

Technoesis has the necessary expertise to take up such specialized works.

Non-destructive Testing of Structures

Your building is a civil engineering structure. You may need to carry out non-destructive tests, chemical analysis or concrete core tests to assess the quality of concrete, the amount of corrosion in the reinforcement, the extent of carbonation of concrete etc. Many times such tests are useful in arriving at an appropriate methodology for structural repair.

Technoesis has the necessary expertise to carry out such tests.

Internal Alterations/ Change of Mode of Use

There may be times when an organization/ a member of the Society wants to carry out internal alterations or change the mode of use to satisfy the new requirements. The most common examples of this aspect would be provision of a mezzanine, loft or an internal staircase, removal of walls for combining two areas, enclosing an external area such as a balcony, installing a water tank, use of an apartment as an office space or a store etc. It is important to check the structural feasibility of the proposed work before the same is carried out.

In such cases, we not only check the feasibility of such alterations or change of mode of use before the work is carried out but we also confirm that the actual work is carried out as per the approved plan. This is ensured through the following steps:

1. Prepare a sketch plan showing proposed alterations/ change of mode of use
2. Check structural feasibility of the proposal and suggest modifications, if necessary
3. Incorporate the suggestions in the plan and issue the feasibility report
4. After the work is completed, inspect the work and issue a compliance report

For this purpose we may be appointed by the owner of the building (or a Society) or by the owner of an individual unit, who intends to carry out such alterations/ change of mode of use.

LIST OF STRUCTURAL AUDIT & REHABILITATION WORKS

	Name of Work	Name of Client	Year	Stage of Work
1.	Structural Repair of Laundry at Mumbai	Hotel The Leela	1999	Completed
2.	Extension and Repair of Factory Bldg at Vasai	Leela Scottish Lace Ltd.	1999	Completed
3.	Assessment for Repair of a Residential Building at Vikhroli	Videsh Sanchar Nigam Ltd.	2000	Completed
4.	Structural Assessment of Staff Quarters, Ahmedabad	Indian Oil Corporation	2000	Completed
5.	Assessment & Estimate of Aroon Ind. Estate, Malad	Mr. Aroon Patel	2001	Completed
6.	Assessment of Iqbal House, Malad, Mumbai	Iqbal House Co-op. Housing Society	2001	Completed
7.	Repair of building Blasé View at Andheri, Mumbai	Blasé View 'A' Co-op. Housing Society	2001	Completed
8.	Repair of building Shivanjali Andheri	Shivanjali Co-op. Housing Society	2001	Completed
9.	Repair of building Meher Abad at Bhulabhai Desai Road	Meher Abad Co-op. Housing Society	2002	Completed
10.	Repair of Central and other building, Dadar (E)	Bombay Hindu Co-op. Housing Society	2002	Completed
11.	Assessment & Repair of building Supriya, Andheri	Supriya Co-op. Housing Society	2002	Completed
12.	Repair of Satguru House, Bandra	Satguru House Co-op. Housing Society	2002	Completed
13.	Struct. Audit of 11 buildings at Bandra	MIG VI Co-op. Housing Society	2002	Completed
14.	Assessment & Estimate of building Shreeji, Vile Parle	Shreeji Co-op. Housing Society	2002	Completed
15.	Struct Audit & Repair of building Keshav, Mahim	Keshav Co-op. Housing Society	2003	Completed
16.	Estimate of buildings D51, B55 at Bandra	MIG VI Co-op. Housing Society	2003	Completed
17.	Assessment & Estimate of 9 buildings at Nerul	Shree Ganesh Co-op. Housing Society	2003	Completed
18.	Repair of elevated Storage Reservoir at Mahim	Municipal Corp. of Greater Mumbai	2003	Completed
19.	Struct Audit & Repair of building Joycelyn, Bandra	Joycelyn Co-op. Housing Society	2003	Completed
20.	Struct Audit & Estimate of building Devrup at Bandra	Devrup Co-op. Housing Society	2003	Completed
21.	Struct Audit & Estimate of bldg Suleman Chambers, Apollo Bunder	Suleman Chambers Co-op. Housing Society	2003	Completed
22.	Struct Audit & Repair of Krishna Kunj, Khar (W)	Mayfair Housing Builders & Property Developers	2003	Completed

Name of Work	Name of Client	Year	Stage of Work
23. Repair of Bldg. C9, CBD Belapur, Navi Mumbai	Nilgiri Gardens Co-op. Housing Society	2004	Completed
24. Structural Audit of 2 buildings at Dahisar	Gomant Nagar Co-op. Housing Society	2004	Completed
25. Struct Audit of building Sahyagiri at Goregaon	Sahyagiri Co-op. Housing Society	2004	Completed
26. Struct Audit & Repair of building Casa Maria at Bandra (W)	Casa Maria Co-op. Housing Society	2004	Completed
27. Struct Audit of building Del House at Santa Cruz	Del House Co-op. Housing Society	2004	Completed
28. Struct Audit & Estimate of building Flo-Ville, Santa Cruz	Silvex Realty Ltd.	2004	Completed
29. Struct Audit of building Chandrama, Prabhadevi	Chandrama Co-op. Housing Society	2004	Completed
30. Struct Audit & Estimate of Mangireesh, Mahim	Mangireesh Co-op. Society	2004	Completed
31. Rapid seismic assessment of 719 buildings & houses in Maharashtra, Gujarat & Andhra Pradesh	Aga Khan Planning & Building Services, India	2004	Completed
32. Struct Audit & Repair of building Meher Abad, Bhulabhai Desai Rd	Meher Abad Co-op. Housing Society	2005	Completed
33. Struct Audit & Repair of Mahavir Indl. Estate, Andheri (E)	Mahavir Indl. Estate Premises Co-op. Society	2005	Completed
34. Struct Audit & Repair of building Verawali, Chunabhatti	Verawali Co-op. Housing Society	2005	Completed
35. Struct Audit & Estimate of Holy View building, Dongri	Holy View Co-op. Housing Society	2005	Completed
36. Structural Audit of building Payal, Versova	Payal Co-op. Housing Society	2005	Completed
37. Struct Audit of building Shreepad, Ghatkopar (E)	Ghatkopar Garden View Co-op. Hsg. Society	2005	Completed
38. Rapid Seismic Assessment of building Sudhakar, Nepean Sea Rd	Sudhakar Co-op. Hsg. Society	2005	Completed
39. Structural Assessment of Wagal Hospital Building, Girgaon	Municipal Corporation of Greater Mumbai	2005	Completed
40. Structural Assessment of Vithaldas Building, Grant Road	Municipal Corporation of Greater Mumbai	2005	Completed
41. Struct Audit of R & D Building, Wadala (E)	Castrol India Ltd.	2005	Completed
42. Assessment of Vidya Vinay Vivek buildings, Vile Parle (W)	Vidya Vinay Vivek Co-op. Hsg. Society	2005	Completed
43. Structural Audit of Meera Apartments, Versova	Meera Apartments Co-op. Hsg. Society	2006	Completed
44. Survey & Repair of Jay Nagar buildings, Malad	Jay Nagar Co-op. Hsg. Society	2006	Completed

Name of Work	Name of Client	Year	Stage of Work
45. Struct. Audit of Dunhill building, Andheri (W)	Dunhill Co-op. Hsg. Society	2006	Completed
46. Structural Survey of Adarsh Indl Estate, Andheri (E)	Adarsh Ind. Estate Premises Co-op Soc	2006	Completed
47. Structural Survey of Kohinoor Indl Estate, Goregaon (E)	Kohinoor Ind. Estate Premises Co-op Soc	2006	Completed
48. Structural Survey of Green Crest buildings, Andheri (E)	Green Crest Co-op Hsg. Soc	2006	Completed
49. Struct. Audit of Purvanchal building, Mulund (E)	Purvanchal Co-op. Hsg. Society	2006	Completed
50. Struct. Audit of Manhar building, Jogeshwari (E)	Manhar Co-op. Hsg. Society	2006	Completed
51. Structural Audit & Repair of Kenmore building, Andheri (W)	Kenmore Co-op. Hsg. Society	2006	Completed
52. Repair of building Sahyagiri at Goregaon (E)	Sahyagiri Co-op. Housing Society	2006	Completed
53. Struct Audit & Repair of building Shantivan 'A', Andheri (W)	Oshiwara Shantivan 'A' Co-op. Housing Society	2006	Completed
54. Structural Survey & Repair of Royal Ind. Estate at Wadala	Royal Ind. Estate Co-op. Hsg. Society	2006	Completed
55. Structural Survey of "The Shack" bungalow, Juhu	Tata Chemicals Ltd.	2006	Completed
56. Struct. Audit of Sea Shell building, Andheri (W)	SBI Officers' Co-op. Hsg. Society	2007	Completed
57. Struct. Audit of Oscar Diamond, Andheri (W)	Oscar Diamond Co-op. Hsg. Society	2007	Completed
58. Struct. Audit & Repair of Yogi Prestige, Borivali (W)	Yogi Prestige Co-op. Hsg. Society	2007	Completed
59. Survey & Repair of Sonmarg building, Nepean Sea Road	Sonmarg Co-op. Hsg. Society	2007	Completed
60. Feasibility of installation of large hoardings on the buildings, Oshiwara	Tarapore Garden Co-op. Hsg. Society	2007	Completed
61. Structural Audit of Abhishek building, Goregaon (W)	Abhishek Co-op. Hsg. Society	2007	Completed
62. Structural Audit of Motamahal building, Andheri (W)	Motamahal Co-op. Hsg. Society	2007	Completed
63. Structural Audit of Whispering Palms Building No. 4, Kandivali	Whispering Palms Co-op. Hsg. Society	2007	Completed
64. Structural Audit of Yogi Jyot, Borivali (W)	Yogi Jyot Co-op. Hsg. Society	2007	Completed
65. Structural Audit & Repair of Lotus bldg, Andheri W	Lotus Co-op. Hsg. Society	2007	Completed
66. Structural Audit of Sriranjani, Chembur	Sriranjani Co-op. Hsg. Society	2007	Completed

Name of Work	Name of Client	Year	Stage of Work
67. Structural Audit of Satyam building, Borivali (W)	Satyam Co-op. Hsg. Society	2007	Completed
68. Visual Survey of G.K. Industrial Estate, Thane	Wacker Metroark Chemicals Pvt. Ltd.	2007	Completed
69. Structural Audit of Skandha bldg, Chembur	Arumuga Co-op. Hsg. Society	2007	Completed
70. Structural Audit of Nirmal bldg, Govalia Tank	Nirmal Co-op. Hsg. Society	2007	Completed
71. Structural Audit of an office bldg, Andheri (E)	IndusInd Media & Communications Ltd.	2007	Completed
72. Structural Audit of Satguru House, Bandra W	Satguru House Co-op. Hsg. Society	2008	Completed
73. Structural Audit of Nityanand Nagar - 4, Andheri (E)	Nityanand Nagar -4 Co-op Hsg. Society	2008	Completed
74. Structural Assessment & Proof Checking of an Industrial building, Goregaon (E)	Wacker Chemicals (South Asia) Pte. Ltd.	2008	Completed
75. Structural Audit of Tapasya bldg, Chembur	Tapasya Co-op. Hsg. Society	2008	Completed
76. Structural Audit of Gokul Monarch, Kandivali (E)	Gokul Monarch Co-op. Hsg. Society	2008	Completed
77. Structural Audit of Om Parshwanath, Borivali (W)	Om Parshwanath Co-op. Hsg. Society	2008	Completed
78. Structural Audit of M.A. High School, Andheri (W)	The Andheri Education Society	2008	Completed
79. Structural Audit of K.J. Somaiya Polytechnic, Vidyavihar, Mumbai	K.J. Somaiya Polytechnic	2008	Completed
80. Structural Audit of Corner View building, Bandra (W), Mumbai	Corner View Co-op Housing Society	2008	Completed
81. Structural Audit of Star View bldg. Sion	Star View Co-op Housing Society	2008	Completed
82. Structural Audit of Pushpagandha bldg, Prabhadevi	Pushpagandha Co-op. Hsg. Society	2008	Completed
83. Structural Audit of Del House, Santa Cruz (W)	Clarence D' Sa	2008	Completed
84. Structural strengthening of Keval Estate, Goregaon (E)	Wacker Chemie India Pte. Ltd.	2008	Completed
85. Repair of Sneh CHS, Goregaon (E)	Sneh Co-op. Hsg. Society	2008	Completed
86. Structural Audit of Darpan building, Andheri (W)	Darpan Co-op. Hsg. Society	2009	Completed
87. Structural Audit & block estimate for building Oceana, Marine Drive	Rohini K. Gupta & Mohini K. Gupta	2009	Completed
88. Structural Audit of Reena Apartments, Malad (W)	Reena Apartments Co-op. Hsg. Society	2009	Completed

Name of Work	Name of Client	Year	Stage of Work
89. Structural audit of 2 buildings at Ballard Estate and a godown at Sewree for Binani Industires, Ballard Estate	Binani Industires Ltd.	2009	Completed
90. Structural Audit of Zarine Palace, Malad (W)	Zarine Palace Co-op. Hsg. Society	2009	Completed
91. Structural Audit & NDT of Tirupati Balaji, Khar (W)	Tirupati Balaji Co-op. Hsg. Society	2009	Completed
92. Structural Audit & Estimate of Vyomesh, Borivali (W)	Vyomesh Co-op. Hsg. Society	2009	Completed
93. Structural Audit & Estimate of Ratan Palace, Ulhasnagar	Ratan Palace Co-op. Hsg. Society	2009	Completed
94. Structural audit of building Meher Abad at Bhulabhai Desai Road	Meher Abad Co-op. Housing Society	2010	Completed
95. Structural audit of building Jawahar Mansion at Sitaram Podar Marg	Jawahar Mansion Co-op. Housing Society	2010	Completed
96. Structural audit & extension of Shivaji Shikshan Sanstha's school building at Ghatkopar (E)	Shivaji Shikshan Sanstha	2010	Completed
97. Structural audit of building Krishna Palace at Kandivali (E)	Krishna Palace Co-op. Housing Society	2010	Completed
98. Structural audit of building Ajit Park at Malad (W)	Ajit Park Co-op. Housing Society	2010	Completed
99. Structural audit of Indian Mercantile building at Dadar	Life Insurance Corporation of India	2010	Completed
100. Structural audit & repair of Associated Capsules factory building	ACG Associated Capsules Pvt. Ltd.	2010	Completed
101. Structural audit of Nariman building at Maharshi Karve Road	Nariman building Co-op. Housing Society	2010	Completed
102. Structural audit & repair of Ajas Components Pvt. Ltd. factory building	Ajas Components Pvt. Ltd.	2010	Completed
103. Structural audit and repair of Aram Nagar Meena at Andheri (W)	Aramnagar Meena Co-op. Housing Society	2010	Completed
104. Structural Audit of K.L. Ponda High School at Dahanu	K.L. Ponda High School, Dahanu	2010	Completed
105. Non-destructive testing of Charkop Jeevan Akshay at Kandivali (W)	Charkop Jeevan Akshay Co-op. Hsg. Society	2010	Completed
106. Structural Audit & Estimation of Cost of Repair of Chandrama Apts at Prabhadevi	Chandrama Apts Co-op. Housing Society	2011	Completed
107. Repair of Sindur CHS at Goregaon (E)	Sindur Co-op. Housing Society	2011	Completed
108. Condition Survey & Estimation for Bhanukant Complex, Goregaon (E)	Bhanukant Complex Co-op. Housing Society	2011	Completed
109. Structural Audit of Shilpa building at Bhayandar (E)	Shilpa Co-op. Housing Society	2011	Completed

Name of Work	Name of Client	Year	Stage of Work
110. Structural Audit of PIRAMAL NAGAR at Goregaon (W)	PIRAMAL NAGAR Co-op. Housing Society	2011	Completed
111. Structural Audit of Sea Shells at Andheri (W)	Sea Shells Co-op. Housing Society	2011	Completed
112. Structural Audit of Shri Mahavir Prasad Near Apollo Mill	Shri Mahavir Prasad Co-op. Housing Society	2011	Completed
113. Structural repairs to the Canada building at Fort	Life Insurance Corporation of India	2011	Completed
114. Structural Audit of Sagar View building at Andheri (E)	Sagar View Co-op. Housing Society	2011	Completed
115. Repair of Janhavi building at Goregaon (E)	Janhavi Co-op. Housing Society	2011	Completed
116. Repair of Textila buildings at Prabhadevi	Textila Co-op. Housing Society	2011	Completed
117. Structural Audit of Anand Prakash Satyam building at Andheri (E)	Anand Prakash Satyam Co-op. Housing Society	2011	Completed
118. Structural Audit of Manali building at Dadar	Manali Co-op. Housing Society	2011	Completed
119. Structural Audit of New Ekta building at Airoli	New Ekta Co-op. Housing Society	2011	Completed
120. Structural Audit of Suresh Colony building at Vile Parle (W)	Surech Colony Co-op. Housing Society	2011	Completed
121. Structural Audit of Devendra building at Borivali (W)	Devendra Co-op. Housing Society	2012	Completed
122. Structural Audit of Girish Kunj building at Vile Parle (W)	Vatsal Sheth, Vile Parle (W)	2012	Completed
123. Repair Pranam building, Borivali (W)	Pranam Co-op. Housing Society	2012	Completed
124. Struct Audit of Sahyagiri building at Goregaon (E)	Sahyagiri Co-op. Housing Society	2012	Completed
125. Repair of MIG Adarsh Nagar CHS, Worli	MIG Adarsh Nagar Co-op. Hsg. Society	2013	Completed
126. Structural Audit & repair of building on Plot No.130A for ACG Associated Capsules Pvt. Ltd., Kandivali (W)	ACG Associated Capsules Pvt. Ltd.	2016	Completed
127. Repair of Aram Nagar Meena at Andheri (W)	Aram Nagar Meena Co-op. Hsg. Society	2016	Completed
128. Structural Audit and Repair of Meher Abad at Grant Road	Meher Abad Co-op. Hsg. Society	2016	In Progress
129. Structural Audit of BOB Officers' Quarters Building II, Bhandup (W)	Bank of Baroda	2016	Completed
130. Repair of building for ACG Associated Capsules Pvt. Ltd., at Kandivali (W)	ACG Associated Capsules Pvt. Ltd.	2016	Completed
131. Structural Audit of Jawahar Mansion at Charni Road	New Jawahar Mansion Co-op. Hsg. Society	2017	Completed

Name of Work	Name of Client	Year	Stage of Work
132. Structural Audit of office building at Parel	Serdia Pharmaceutical Company Pvt. Ltd.	2017	Completed
133. Structural Audit of Krishna Building at Vile Parle (E)	Krishna Co-op. Hsg. Society	2017	Completed
134. Structural Audit and Repair of Parimal Building at Andheri (W)	Parimal Co-op. Hsg. Society	2017	Completed
135. Structural Audit and Repair of Naya Daur Building at Jogeshwari (W)	Naya Daur CHS Co-op. Hsg. Society	2017	Completed
136. Structural Audit and Repair of Bhanukant Building at Goregaon (E)	Bhanukant CHS Co-op. Hsg. Society	2017	In Progress
137. Structural Audit of Park Flat Owners Building at Shivaji Park	Park Flat Owners Co-op. Hsg. Society	2017	Completed
138. Structural Audit and Estimate of Sahyagiri Building at Goregaon (E)	Sahyagiri CHS, Co-op. Hsg. Society	2017	Completed
139. Condition Survey and Repair of Pranam Building at Borivali (W)	Pranam Co-op. Hsg. Society	2017	In Progress
140. Repair of Krishna Building at Vile Parle (E)	Krishna Co-op. Hsg. Society	2018	In Progress
141. Structural Audit of Ram Laxman Kutir Building at Andheri (W)	Ram Laxman Kutir Co-op. Hsg. Society	2018	Completed
142. Structural Audit of Pushpa Gandha Building at Prabhadevi	Pushpa Gandha Co-op. Hsg. Society	2018	In Progress

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