

Take your  
Construction to a  
**New Horizon**



**CQRA**

ACTS Group Company  
Your Strategic Partner



**CQRA**  
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## ▼ Why would you need us?

Rome definitely wasn't built in a day. All that magnificent and painstakingly wrought architecture wouldn't have endured time and wowed generations after generations had it not been for well mapped-out strategy, workmanship, and quality. The same holds true for any construction project. To be able to bring it to fruition, it has to be planned and executed meticulously from ground up. It needs to progress steadily under the experienced tutelage of people who know their trade inside out and can pull through any challenging situation.

This is what we, as CQRA offer. CQRA started its journey as a specialized construction quality organization and today offers comprehensive construction management solutions – right from project conceptualization to handover. While the complexity of projects and tight deadlines can make a project daunting and challenging, it is innovative ideas, craftsmanship, and technology that make a project successful.

## ▼ CQRA Vision and Philosophy

CQRA envisages enhancing the quality and profitability of Construction Projects by use of latest technology and domain expertise in line with principles of TQM and Lean management.

Its philosophy is based on following principles:

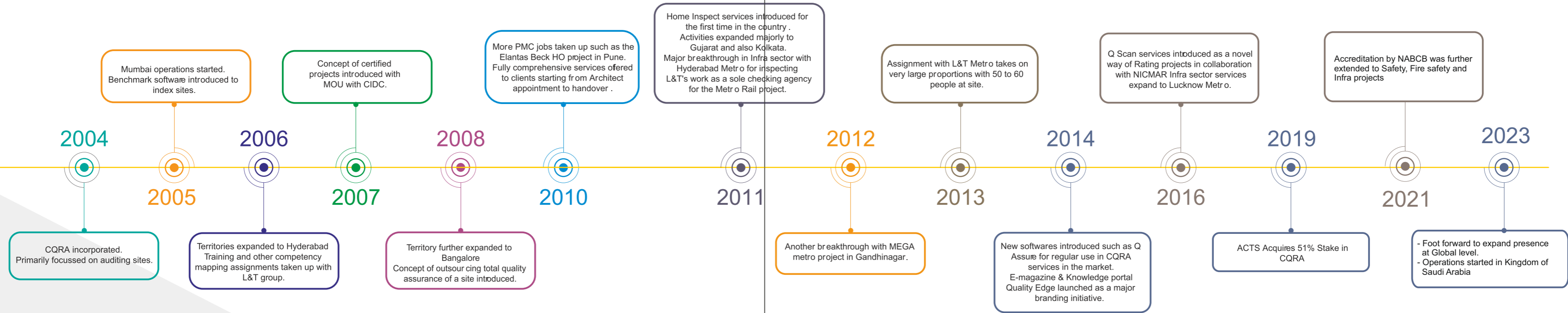
- Quality cannot be achieved by policing but only by bringing change in working of organizations and attitudes of people. CQRA's intention is to educate, motivate and inspire teams for self-driven quality consciousness
- CQRA believes that team spirit and focus must prevail at all times to achieve long-term quality goals
- CQRA will act as change agent and provide thought leadership to enable organizations to achieve excellence
- Extensive use of technology is imperative to maintain integrity and reliability of processes

## CQRA journey

Incorporated in 2004, CQRA was a pioneer in developing objective Quality Indexing Mechanism, which indexes quality on a 10-point scale for all trades covering RCC, Shell and Finishes, and services like Plumbing, Electrical and HVAC.

We set out on our journey dealing with real estate projects and have spread our reach over the years into commercial, industrial, metro-railway, and other infrastructure projects. The portfolio of our services also extends from third party inspection to comprehensive construction management assignments.

CQRA, today is a PAN India company with an eclectic team of around 200 highly skilled professionals who have years of experience behind them in the construction industry. Head Quartered in Pune, our operational teams function in Mumbai, Bangalore, Hyderabad, Ahmedabad, Kolkata and elsewhere.



## Services



### Snap Audits & Indexing Service: Periodic audits to measure quality and safety

Benefits: Provides a tool to objectively assess the performance of site teams including the contractor and the project management team. This in turn helps to get the desired output from the site team.

Snap Audits are conducted at agreed intervals by expert Engineering and Auditors team who collate the site data in a span of 2 to 3 days using a specially developed application on android mobile phones. These audits can be customised to the specific requirements of the clients based on the quality plan of their projects.

The information collected includes primary data based on observation of work as well as secondary data based on documentation available at site. The coverage of snap audits include

- Quality Audits
- Safety Audits
- Cost and Material Consumption Audits
- Audit of Management System

The findings are presented in form of MIS report that includes major nonconformities and a scorecard on 10 point scale which is customised for the client.

These audits are useful for performance appraisal of staff and implementing bonus and penalty system for the contractor at regular milestones based on the quality scores.

## Quality Assurance / Quality Control Services

Benefits: A robust QA/ QC system driven by technology helps to deliver promised quality effortlessly and reduces cost of rework by ensuring first time right principle.

CQRA guides the site execution team with their extensive experience and exposure to the best industry practices and enables implementation of quality systems through the use of latest technology. Quality assurance processes include preventive measures for potential defects through, well-drafted work procedures, mockup approvals, site training and other inputs to facilitate achievement of quality. Quality Control services include deployment of trained quality control personnel at site to identify defects well in time to enable root cause analysis and corrective actions. CQRA has a vast pool of specialist consultants from different trades to give technical solutions to site specific problems.

CQRA experience has shown that a strong quality function does not delay projects but saves time during the end stage of project by reducing rework. CQRA by way of its specialised software and mobile applications is able to maintain the integrity of processes for on-site execution.

QA / QC staff directly under construction management team presents a conflict of interest where quality issues are likely to be compromised in favour of immediate milestone targets. Developers can outsource the QA/ QC function to CQRA even when engaging professional project management services, in order to make them accountable for quality.

## Project Pro - Project Management Services

Benefits: With latest lean construction technology at its disposal CQRA will help to deliver projects in time within the budgeted costs and with required quality and safety standards.

CQRA offers comprehensive project management services from project conceptualisation stage to hand over which includes functions like

- Appointment of consultants
- Tender Preparation
- Bid Evaluation and award of contracts
- Program Management
- Supervision of works
- Cost Management
- Contract Administration

It is well known that lean construction technique can result in cost savings of up to 5% of the project cost. With its extensive experience in wide variety of projects covering real estate, industrial and infrastructure sectors, CQRA employs some of the most talented professionals in the industry who bring with them knowledge from the best contracting and consulting companies. Equipped with the latest technology CQRA takes project management services to a new level.

## Collaborative Project Management Model

Developers/ Clients often have their own staff to manage projects however they may lack staff with specific skills or a functional expertise to manage fast track projects. In some cases client's staff may be inadequate during peak working conditions and it is not feasible to employ additional staff for short durations.

CQRA works in a collaborative model where either a part of project management function like program management, supervision management or quality management etc is outsourced to it. CQRA deploys additional manpower with the required skills to augment the site team.

CQRA provides a combination of expertise, technology and manpower to support the existing site team to ensure successful execution of projects.

## Consulting Services

Benefits – Good Systems and Processes build capability of organization to execute complex projects successfully and give long-term strategic advantage.

CQRA offers comprehensive Consulting services relating to Construction to large and medium scale organisations at the Apex level with systems that percolate down to operating levels. Areas where CQRA offers its expertise range from Quality, Safety to all functions in the Project management domain. Some typical heads where CQRA offers services are:

- Preparation and review of Quality Manual for the organisation. Quality Manual is a basic document governing the organizational processes to ensure quality practices in the functioning of various departments and personnel. This includes organizational reporting, duties, responsibilities and authorities, SOPs for site operations and document control.
- Preparation and review of Technical Specifications for all trades- Civil, Mechanical and Electrical. Technical specifications include material specifications, methods of executions, field inspections, laboratory tests, frequency of tests, tolerances and finished product standards for acceptance, and checklist for various trades. In case client has a quality plan CQRA shall review the existing technical specifications of the shared trade list and shall update the same for identified gaps.
- Contract documentation and administration. In the first stage, CQRA prepares a (blue print) for contract strategy in line with the client's business. Based on the contract strategy, CQRA provides/ reviews documentation packages covering interface with Main Contractor and Consultants. The documents include tender Pack, SOPs for contract administration, procurement, baseline flowcharts and control points.

The purpose of the above exercise is to create best practice documents that secure the client's interest in binding the contractor to quality, cost and time. The documents should be adequately detailed, yet; easy to refer, fair to all concerned parties and easy to execute.

In the second stage, CQRA helps to integrate the processes thus created with the organizational functioning by handholding the implementation on a selected project.

JSW Headquarter Building, BKC

## Home Inspect Services

Benefits – Minimizes snags at the time of handover and reduces chances of rectifications at Developers cost post handing over of units.

Pre-Possession Inspection includes Micro inspection of dwelling units' to sort out defects or snags, in order to get contractors to rectify accordingly and certify workmanship thereafter.

CQRA conducts a Pre-possession inspection of dwelling unit before handing over to the customer. This inspection involves room by room checking for snags and covers over 100 Parameters including electrical, plumbing, waterproofing and many others. Using a special mobile App, the inspection is done thoroughly and meticulously by trained personnel. On successful rectification of snags the unit is re-inspected so that certificates towards satisfactory workmanship are issued for each unit.

CQRA's Home Inspect services for individual flats/ units can achieve the following:

- Satisfied customer who shall be an advocate for the builder and not spread ill word
- Builder can avoid considerable harassment from his customer and resultant post hand over rectification costs
- Contractors shall be vigilant the very first time if they know such checks are to be conducted
- Since a group flats are made available for inspection in stages, snags found in first group can be prevented for the group in next phase

## Training

Benefits: Building competence of staff enhances the organizations capability to execute projects successfully

Expertise and knowledge are elemental to bring off projects successfully CQRA's training programs are crafted to equip personnel of different echelons with relevant skills and knowledge to improve their individual performances and enhance organizational project delivery capacity. The training programs are conducted by professionals with extensive site experience and cover good working practices for execution, dos and don'ts, & troubleshooting at site. Based on our experience of working with many reputed construction groups in the country, CQRA has carefully catalogued best working practices in various trades in building and infrastructure sector. The training programs aim at transferring this know-how to enhance the knowledge and skill levels of construction professionals. These programs are interactive and give ample opportunities to candidates to ask questions and share their experiences.

Participants go through an evaluation, and on successful performance, the participants would be awarded by CQRA with Competency certificate in recognition of having acquired the necessary knowledge and competence levels for the topics covered.

## Q-Scan - Project Rating Services

Benefits: Provides a useful tool for homebuyers to assess projects at different stages of construction and provides a platform to the developers to differentiate their projects on web portals and other media.

All over the world home buying is a serious matter as it is the probably the most important big ticket item a family buys in a lifetime. Ignorant as the final consumers mostly are, it is very important for some competent and responsible agency to check and ensure that the home they are buying in a housing complex has necessary statutory clearances, is designed to withstand earthquakes, has appropriate amenities, has favourable location related attributes, is well constructed with good quality materials and will be delivered on time. A recent market research by a nationally reputed agency indicates that home buyers are ready to pay a premium for a project rated on the above parameters.

CQRA has introduced Q Scan service in technical collaboration with NICMAR a nationally reputed research and educational institute. Under this rating, projects are inspected at 4 stages through planned and systematic audits during a project at 25, 50, 75 and 100% completion levels and evaluated in the following buckets:

- Approvals and Design
- Materials used for construction
- Quality control & Quality of finished flats
- Amenities
- Timely completion
- Location

Based on above parameters, projects are initially categorised as Affordable, Standard or Premium depending on the level at which the different parameters are applicable for the project. Thereafter, projects are audited periodically and are awarded 3, 4 or 5 star ratings within the category in a dynamic manner depending on the level of compliance of the different parameters during each audit.

The audit scores at each stage will be followed by a rating sheet describing the project as:

- 3 star depicted as FAIR Rating
- 4 star depicted as GOOD Rating
- 5 star depicted as VERY GOOD Rating

Each rating is accompanied by a seal.

### Q-scan Quality Seals



The developer will be in a position to use this seal to promote his project in all his communication channels and the buyer of the flat will get guidance while selecting a project which he chooses to make his home.

In case a developer expresses the need for a Provisional Rating to facilitate sales/bookings prior to commencement of the project, the same can be provided based on Documentary checks, the developer's track record and suitable affidavit from the developer assuring adherence to the standards prescribed under the category that is desired for the Rating. The provisional rating gets replaced by regular ratings/seals after the first audit is conducted and its results thereof.

### Quality Edge: The knowledge portal

CQRA has launched a knowledge portal with the objective of improving the knowledge base of Architectural and Civil Engineering Community on the latest developments, new products, and their applications. It is a theme based quarterly E-magazine, where each issue is focused on a topic like – Flooring systems, Landscaping, Structural Glazing, etc. The issue gives latest developments, expert opinion, and practical tips on the selected topic. The subscription is accompanied with an online quiz that can access the knowledge up gradation with respect to the theme of the magazine.



## ▼ Quality Journey – Building Competencies

Quality is increasingly becoming a differentiator that can make or break brands. It is a journey and the destination of that journey is customer satisfaction. We believe that satisfaction comes out of meeting the implicit and explicit but rationalized expectations of the customer. In order to do that, an organization needs to develop competencies to deliver quality consistently and effortlessly.

### Technical Competency

The Technical competency of an organization can be achieved through:

- Framing appropriate specifications, work procedures and method statements for the various trades to be followed at the sites in line with the commitments made to the customers in order to fulfil the brand promise. Quality plan made for the project guides the site staff on periodic inspections and acceptance criteria in consonance with relevant IS codes or international best practices.
- Elevating the knowledge and awareness levels of the staff at the sites so that they understand the specifications and learn to follow the best work practices. The awareness levels can be enhanced through classroom training delivered by senior consultants, and site level hands-on training by engineers and master craftsmen.

### Management Competency

The Management competency includes systems and procedures at organizational level to execute work as per the quality plan. It can be assessed by looking at capabilities of organization in Program Management, Contract Management, Materials Management, Construction Management and Human Resource Management skills.

A study of these areas in any project can arrive at what is known as a Quality Quotient of an organization. Quality quotient on a 10 point rating scale is a measure of an organization's capability to deliver quality without exceeding budgets or timelines.

## ▼ Technology - A game changer

CQRA through its wholly owned subsidiary has developed unique software solutions to assist in the delivery of services that it offers to the market. The software technologies help to maintain the integrity of systems and procedures and are designed to improve the productivity and quality of output of the site teams. The software's are based on cloud technology with a mobile application for site teams. These soft wares give real-time access of the construction activities at site to the management teams and are designed based on strong domain expertise that CQRA has acquired over the years. CQRA offers its software technology as a part of its service along with the manpower and expertise for successful execution as an end to end solution. The range of software solutions offered by CQRA include:

### Work Flo- Project Management Software

Work-Flo is a cutting edge scheduling system based on principles of lean management which cuts idle time between activities makes the work flows at site more reliable resulting in substantial savings in time and cost of projects. This is a pro-active scheduling system that takes over the planning and scheduling function at site. This system generates user specific alerts every day for activities to be carried out at site. Work Flo alerts the site teams on:

- Work fronts available & activities that have to start immediately
- Activities likely to start in near future
- Materials / Equipments to be procured
- Drawings to be followed up
- Contracts to be awarded
- Pending decisions related to activities

A management dashboard provides real-time update on completion date and cost to completion of a project.

## Q Assure – Quality Management Software

This is a state of the art technology for managing quality assurance and quality control functions at site. This cloud-based system is designed to capture real-time data at site with help of mobile phones. This system aligns all the quality assurance measures like work procedures, method statements, mock-ups, training and work authorizations with the actual flow of work. Once the activities are in progress, it has quality control function that enables the CQRA team to capture the data along with photographs, which are uploaded on the server instantaneously. The system automatically generates NCs from the site data based on the rules set, considering the severity and frequency of observation. The system also tracks closure of NCs with corrective action. The technology also enables much better resolution of NCs by sharing information on root causes for similar problems across a wide variety of sites in a much more efficient manner. Through this software reports can be generated much faster, systematically and notifications are sent automatically. Thus QA/QC process is implemented with much higher integrity and the entire quality function is monitored online.

## Q Control - Supervision Management Software

It is a state of the art technology to monitor the quality of supervision by the contractor's staff and client's engineers. In this system, the process of site supervision is made paperless with all checklists/pour cards uploaded on the cloud. Authorized persons from contractor's side (makers) download the relevant checklist/pour card on mobile and send request for inspection to the client's engineer (Checker). The checker checks the work and uploads the filled checklists along with photographs. If there are pending rectifications, the checklists go back to the maker. The entire transactions between makers and checkers can be monitored online from anywhere on a real time basis. The technology ensures diligent checking on ground with evidence of photograph and brings accountability to the supervision team.

## S Assure - Safety Management Software

This is our well established in-house technology to capture real time safety data at site as well as manage safety through the use of android based mobile phones. This enables the CQRA team to capture the data along with photographs based on carefully designed safety checklists which can be uploaded on the server instantaneously. Through this method, reports can be generated much faster, systematically and with much higher integrity, since the entire process is monitored online.

## Measurement

Andrew Grove - ex-chairman of Intel Corporation, once remarked that "Anything that we measure tends to improve". The same goes for Quality. CQRA has special expertise in the measurement of quality, safety and strength of organizational systems on a 10 point objective scale.

While variance in time and cost of a project can be measured, quality being a subjective parameter is difficult to quantify. It can be greatly improved if it is measured periodically during lifecycle of a project. One of the biggest challenges for measuring quality and safety is removing subjectivity and personal bias. In order to do that, one needs to knock down quality into parameters and sub-parameters such that each sub-parameter can be measured on nominal or ordinal scale. Thus detailed checklists need to be developed with guidelines covering inspection methods and tolerance for answering each question. The checklists should cover all aspects of the quality management system, quality of resources, quality of processes and quality of finished product. The non-compliance to each parameter (question) is classified into 5 categories e.g. mild, moderate, severe, very severe and extreme based on its impact on quality. For maintaining the accuracy of measurement, the method of sampling plays an important role and techniques need to be established for randomizing the sample of site data. A reference line needs to be created by auditing a sample project by the group of experts. Thus the 10 point quality scale is calibrated with help of a benchmark audit. Once this is done, site data can be captured by trained inspectors on carefully designed questionnaires and quality can be measured against this scale periodically and the results are then representative of the actual quality status at site.

The results are expressed in the form of indices or scores on a 10 point scale for the different trades as well as for the project as a whole; calculated through a "Benchmark" Software program which eliminates the subjectivity of ratings. Measurement enables comparison of quality of different projects, buildings & contractors over a period of time and can be used as a tool to measure the performance of the project management teams.



## ▼ Spring Grove

Client name : Lokhandwala Constructions Pvt Ltd

Location : Mumbai

Type of project : Residential

Ensnconced in Kandivli, Mumbai in a one million square feet area, Spring Grove by Lokhandwala Constructions Pvt Ltd puts a spin to contemporary living. Positioned in Kandivli's most sought-after residential areas, Spring Grove comprises of 4 towers of 19 storey and 9 buildings of 7 storeyseach. With a swimming pool, a centrally located garden, and a club-house, Spring Grove possesses all the alluring ingredients that make for a picture perfect setting. CQRA rendered engineering supervision and quality control servicesto this project and the high point of this project was an achievement of Platinum rating for Quality from Construction Industry Development Council, New Delhi.



## ▼ Elantas Beck "Omkar"

Client name : Elantas Beck

Location : Pune

Type of project : Office building

Project Omkar the corporate headquarters of Elantas Beck, an international speciality Chemical Group is the perfect encapsulation of modern design and utility. For this project ElantasBeck appointed CQRA as Project Management Consultant. The scope of CQRA services included finalizing the design in line with the client's requirements, appointment of architects and other consultants, selection of the contractor and subsequent execution of the work. CQRA arranged a competition amongst the best architects from Pune to design the structure as per the requirements of clients. Each and every design then was reviewed and rated on 0 to 10 scale by CQRA on all parameters such as structural aspects, aesthetics, constructional feasibility, cost etc. top 3 designs were shortlisted and then final design given by COREArchitects was selected by the client from Germany. This award- winning project included features such as form finished concrete, RCC cavity walls for reducing the heat load and an environment friendly design. The project went on to win several awards like Best Build Structure from Builders Association of India, The Best Structure award from Indian Concrete Institute



## ▼ Hyderabad Metro Rail Project

Customer name : L&T Metro Rail (Hyderabad) Limited (LTMRL)

Location : Hyderabad

Type of project : Metro Rail Project

Capital Outlay : INR 16,000 Crores

This is the largest PPP-based project in the country spread along 71 kms, 3 corridors and 66 stations. The Hyderabad Metro Rail project once completed, will serve as the city's public transport backbone. CQRA is appointed as a sole checking agency on behalf of LTMRL. CQRA team is involved in the project as owner's engineer and attends RFIs (request for inspections) to check if the project operation is being carried out as per the GFC, Standards, and CWP (construction working procedure). CQRA is dedicatedly working with the client to improve quality so that it is on par with the international standards. The project has won several awards, some of them are:

- Life Time Achievement Awards by American Concrete Institute
- Metro Rail Project Of The Year by The Construction Week





## ▼ Sahyadri Park

Customer name : TRIL(Tata Realty and Infrastructur e Ltd.)

Location : Hinjewadi, Pune

Type of project : Softwar e Park

This mammoth project spread over 2.6 mn sq ft in the software hub of Hinjewadi in Pune had some of the best names associated with it such as Project Concept Architect-Saga Studio of Los Angeles, Tata Consulting Engineers Ltd (TCE) as the PMC, Shapoorji Pallonji as the principal contractors and CQRA handled the entire QA/ QC function. The project was executed in 4 phases and CQRA's involvement was right through till the high-end fit-outs and finishes were executed in the work areas. The project also boasted of exposed form finished concrete walls and columns executed under CQRA's expert guidance. CQRA services also brought about several Value Engineering initiatives which saved the project substantial money.



## ▼ Godrej Properties

Customer name : GODREJBUILDCON PVT LTD

Location : BKC Mumbai

Type of project : Commercial Building

Filling the urban void with modern office architecture, Godrej BKC (Bandra-Kurla Complex) is a project by Godrej Properties Limited developed in partnership with Jet Airways located in Mumbai, India. This 1.2 million sq. ft. of construction with 6500 tons of structural steel as well, would be used as the corporate headquarters of Jet Airways (India) Limited and Abbott India Ltd and many others. The Architectural Partner is SOM (Skidmore, Owings and Merrill) and the construction is done by L&T. Godrej BKC is LEED Platinum pre-certified. It is also famous for the biggest real estate deal in Indian market till 2015 (INR. 1400 CR) with Abbott India Ltd.

CQRA was appointed to render complete engineering supervision services. With CQRA expert team's guidance, a slew of additions were incorporated including use of PU Foam at block work top layer, use of Lightweight concrete, application of foam concrete, Use of Temperature controlled concrete etc. Other special features included Automated Car Parking System, Landscape garden at terrace, 5.5 m height entrance lobby with Italian marble flooring & cladding. The project has won several awards such as "Indian Concrete Institute Special Jury Award for Outstanding Concrete Structure" and "Vishwakarma Award" from Construction Industry Development Council, New Delhi.



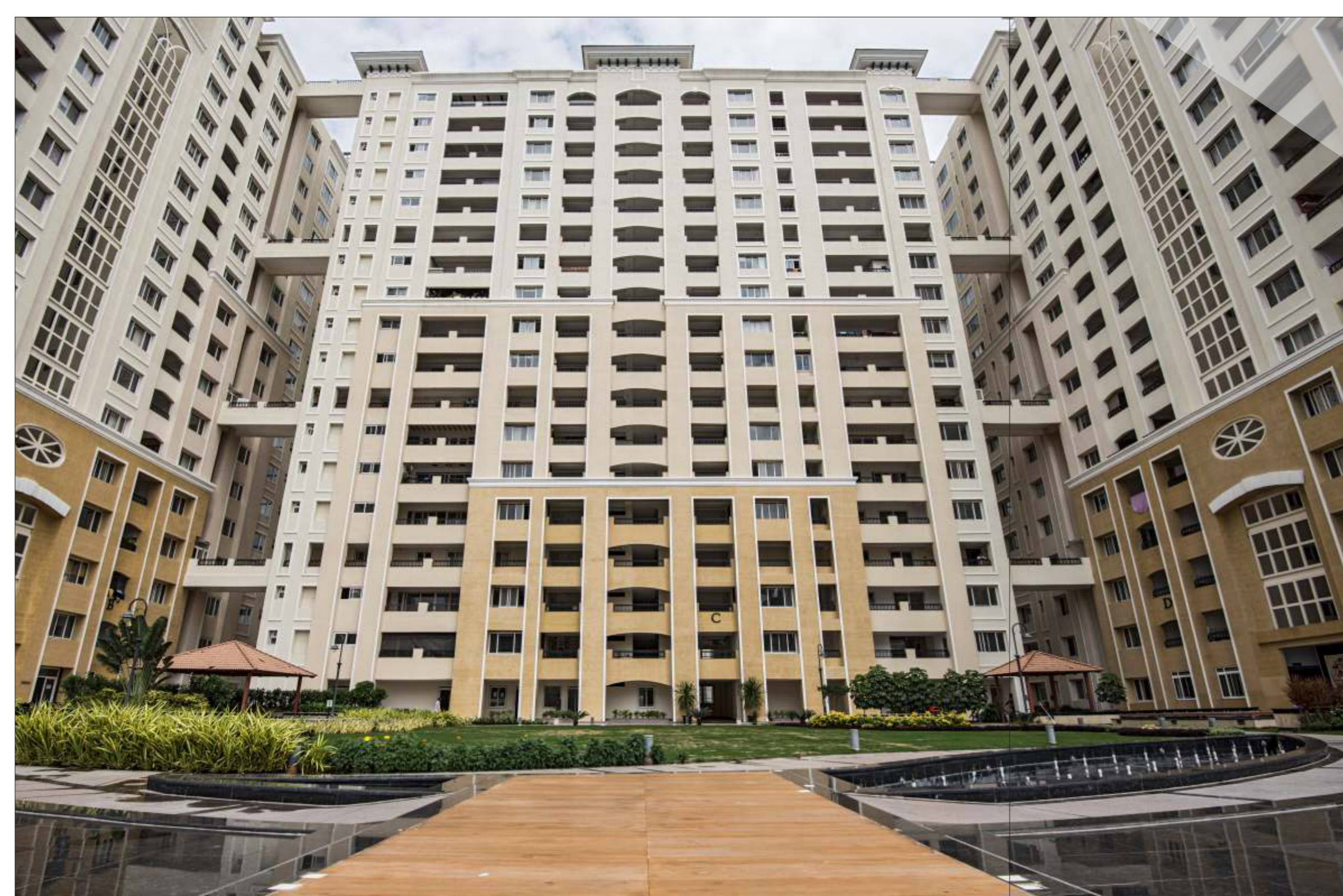
## ▼ JSW headquarters

Customer name : Orbit Corporation Ltd.( OCL)

Location : BKC, Mumbai

Type of project : Commercial building

OCL appointed CQRA as Third Party Quality Agency for QA/QC Advisory Services for the JSW Head Quarters spread over 850000sq ft executed in 32 months and a capital outlay Rs 1000 crores. The project has a unique elevation resembling a ship and has a complete Super structure made of approximately 4000 tons of structural steel. The project boasts of a Platinum LEED green building compliance and has used several cutting edge technologies in the areas of Power back ups and HVAC all of which were under CQRA's ambit.



## ▼ My Home Abhra ( Hyderabad )

Customer name : My Home Group, Hyderabad

Location : Hyderabad

Type of project : Premium residential complex

Set amidst sprawling area of 5 acres and a million sq ft of construction, My Home Abhra offers exclusive and intimate residences for urban families. CQRA offered comprehensive engineering supervision services for the project in a collaborative model including the management of the batching plant operations for making M50 grade concrete. The efforts showed consistent results, excellent finish and elevation of the project. CQRA has also offered several Value engineering suggestions in this project which resulted in substantial financial savings.



## ▼ Sasan UMPP Project

Customer name : Reliance Infrastructure Limited  
Location : Sasan, MP  
Type of project : Ultra Mega Power Plant

With a capital outlay of Rs 20,000 crores distributed over 6 units of 660 MW each, this ultra mega thermal power plant is set amongst the most challenging weather conditions and terrain. With critical concrete structures involved in Turbo generator sections, Coal handling plants, chimneys and other areas, Reliance requisitioned comprehensive Quality Assurance services of CQRA to supervise the construction of this project.



## ▼ Gujarat Medical Foundation

Customer name : PIU (Project Implementation Unit), Gujarat Government

Location : Patan, Gujarat

Type of project : Fully integrated Hospital and Medical College complex

This project was executed by CQRA as PMC in collaboration with CIDC, New Delhi in a record time of 9 months. With an investment of Rs 108 crores, the project used a vast amount of Prefabricated construction for the hospital which had a provision for 400 to 500 beds and modular type operation theaters using all types of modern technologies. The project also included asphalt roads, ESR, GSR, Power substation, landscaping etc. apart from the main hospital complex buildings.

Some of our reputed clients:

### Real Estate

- Tata Housing Development Company Ltd, Pan India
- Godrej Properties Ltd, Mumbai & Kolkata
- Lokhandwala Construction, Mumbai
- Kalpataru Limited, Mumbai
- K Raheja, Mumbai & Hyderabad
- Panchshil, Pune
- Amar Builders, Pune
- Amaya Properties LLP Ahmedabad
- Lunkad Realty Pune
- My Home Group, Hyderabad
- Prestige Group, Bangalore
- Tata Realty Pan India
- L & T Construction, Pan India
- Max Group, Dehradun
- PS Group, Kolkata
- Bengal Peerless, Kolkata
- Mahindra Resorts, Pan India
- Elantas Beck, Pune
- Bhutani Infra
- Country Garden (China Based Developer)

- Capacity Infraprojects Limited
- Vatika Group
- ANPG
- North Star Developers Private Limited
- Mahagun Group

### Infrastructure

- L & T Metro Rail ( Hyderabad ) Ltd.
- MEGA, Ahmedabad
- L & T Construction, Lucknow
- CEC Infra, Noida
- Gammon India Limited.
- NCC Ltd.
- MEP Infrastructure Developers Limited
- Eagle Infra India Ltd

### Industrial

- Welspun Group, Vapi & Anjar
- Reliance Infrastructure, Sasan
- Sintex Group, Diu
- IndoSpace Development Management , Pan India
- Organica Water Pvt. Ltd, Karnal

## Our Strategic Partner – ACTS

Established in 1996, ACTS has become the preferred third-party provider for geotechnical engineering, materials testing, and consulting, and is the Local Sponsoring Group for the American Concrete Institute (ACI)'s programs in the Middle East. ACTS were the first consulting firm in this field in the Middle East to obtain the ISO 9001, ISO 17025, ISO 14001 and OHSAS 18001 certifications, and they are the recognized representative of IHS, ASTM, BSI, IEEE and many other global standards development organizations.

ACTS have pioneered technological advancements in concrete materials and geoenvironmental engineering, and successfully adapted new advancements in the field to local practices and specifications in the MENA region.

ACTS proudly host the largest library of hard copy and online engineering specifications, standards, codes of practice, and regulations in the world, and they are dedicated to spreading knowledge through seminars, training, and conferences, including Future Concrete, a unique technical forum for the applications of concrete and the largest concrete conference in the region, which they annually organize.

ACTS operations currently cover the entire MENA region through their branches and activities in Lebanon, Qatar and KSA.

*For every project, whether consulting, geotechnical engineering, materials testing, environmental assessment, training and certification, or speaking engagements, ACTS use their substantial knowledge and resources to help clients achieve the highest standards of excellence.*

Projects done by ACTS



Riyadh Metro, KSA



World Cup Stadiums, Qatar



Expansion of King Abdulaziz International Airport, KSA



Jeddah Tower (1 km long), KSA



Doha Metro, Qatar

CQRA