

Project:

Nikoo Homes II

Location:

Bengaluru, India

Project completed:

2018-2021

Owner/s:

M/s Bharatiya City

Applicator/Contractor:

Urbanac Projects Pvt Ltd

Designer/Architect/Specifier:

Innotech Consultants

Market sector:

Residential

Products used & amounts:

MasterGlenium SKY 8630 -
150 MT

MasterGlenium SKY 8664 -
12.5 MT

Nikoo Homes II - Bharatiya City

Smart Dynamic Concrete for High Rise Building Construction



Our reference in Bengaluru (India): Nikoo Homes II

The background

Nikoo Homes II is a prestigious project of M/s Bharatiya City. The project is located at Thanisandra Main Road, Bengaluru and spanning over 9 towers and 30 floors. The project by Bhartiya Builders Ltd. consists of 2,116 units offering 1 BHK, 2 BHK, 3 BHK, 4 BHK apartments and 3 BHK, 4 BHK penthouses.

The challenge

The structure was constructed using Mivan formwork. The project called for a M30 free flow and honeycomb-free concrete.

The major challenge was to create a free flow concrete requiring no vibration enabling the concrete to flow to every corner of the formwork. Another challenge was to obtain a cohesive mix that could pump up to 30 floors, as a non cohesive mix requires more pump pressure which may choke the pump lines.. The final challenge was to obtain a smooth off-form finish on the walls.

Contact:

Master Builders Solutions India

construction-india@mbcc-group.com

Nikoo Homes II - Bharatiya City

Smart Dynamic Concrete for High Rise Building Construction



Our reference in Bengaluru (India): Nikoo Homes II

Our solution

We offered and provided our Smart Dynamic Concrete (SDC) concept as a solution, which includes MasterGlenium SKY 8630 and MasterGlenium SKY 8664. As part of our SDC offering, the M30 SDC mix design was specially created taking into consideration all the project's requirements. The concrete mix achieved was cohesive with no bleeding and segregation for up to two hours. The concrete was able to flow smoothly into all the corners of the formwork with no vibration resulting in a honeycomb-free concrete surface. The concrete was able to be pumped up to 30 floors without hindrances. A smooth off-form finish was also achieved.

The customer's benefit

- No bleeding and segregation occurred in SDC and as a result there was no honey combing.
- Considerable time and labour saved as the entire wall was cast in one go with SDC flowing and filling all the corners of the formwork.
- SDC minimized construction joints.
- 80 kgs cementitious saved as compared to SCC (Self Compacting Concrete).
- Minimized the usage of plaster/putty due to smoother finish.
- No vibrator was used for compaction.

Project achievements at a glance

- Apart from the basement, the complete 30-floor structure was made of SDC.
- The structure was completed without any hindrances and smooth off-form finish was achieved.
- We supplied 150 MT of MasterGlenium SKY 8630 and 12.5 MT of MasterGlenium SKY 8664.

Master Builders Solutions by MBCC Group

The Master Builders Solutions brand brings all of our expertise together to create chemical solutions for new construction, maintenance, repair and renovation of structures.

Master Builders Solutions is built on the experience gained from more than a century in the construction industry. The know-how and experience of a global community of construction experts form the core of Master Builders Solutions. We combine the right elements from our portfolio to solve your specific construction challenges.

Further information is available at:

<https://www.master-builders-solutions.com/en-in>