

[FORM - 2 (Annexure)]

ENGINEER'S CERTIFICATE FOR QUALITY ASSURANCE

Quality Assurance Certificate for Quarter Ending- 07/08/2022

Project Registration Number - P51700008927
(Certificate for the quarter ending - 07/05/2023)**Project Name - SANIYA HEIGHTS**

Sir,

I have undertaken an assignment of supervision of this real estate project.

Responsibility:

To carry out the work in accordance with the development permission and as per the approved plan and submit certificate of supervision of work and to carry out material testing in-situ or in the NABL approved Lab / GTU affiliated Eng. Colleges & Polytechnic Lab / GICEA Lab and to ensure quality of work and workmanship as per prescribed specifications as per NBC and or other relevant code of practice. The materials used in the project are conforming to the standards stipulated in IS SP21, 2005.

Material Testing:

I have applied following mandatory checks on the basic materials used in the construction:

✓ **Cement -**

It has been tested for its fineness, soundness, setting time, compressive strength etc. as per IS code 3535:1986 or as per other relevant IS/BS/NBC code, or as per industry standards and its results are within the permissible limits.

✓ **Coarse Aggregate -**

It has been tested, for deleterious materials, clay lumps, crushing value, impact value as per IS 2430:1986 or as per other relevant IS/BS/NBC code or as per industry standards and its results are within the permissible limits.

✓ **Bricks / Blocks -**

They have been tested for water absorption, crushing strength etc. as per IS 5454:1978 or as per other relevant IS/BS/NBC code or as per industry standards and its results are within permissible limits.

✓ **Concrete / Ready-mix Concrete -**

It has been tested for compressive strength for various periods as per IS 456:2000 and IS 1199 or as per other relevant IS/BS/NBC code or as per industry standards and its results are within permissible limits.



✓ Steel for Concrete -

It has been tested as per IS 2062:2011 or as per other relevant IS/BS/NBC code or as per industry standards for tensile strength, elongation and gauge length etc. and its results are within permissible limits.

Testing of Other Materials:

Other materials like sand, crushed sand, floor tiles, fixtures and fittings, pipes and sanitary fittings etc. (List out all items) used in this project conform to relevant IS/BS/NBC code or as per standards laid down by the industry for a particular material.

Number and Frequency of testing:

The materials used are subjected to required tests in prescribed number and frequency.

Codes of foreign country:

Material used in the project for which IS code or standard is not available; the same is tested using relevant code of other country or as per standards laid down by the industry.

Fire Resistance:

The materials/composites used in construction complied to the required fire resistance.

Workmanship:

I hereby certify that work has been carried out under my supervision. I further certify that workmanship and quality is satisfactory and up to the mark and the work has been acceptable within the permissible limits of deviations as per relevant code of practice.

Electrical Materials and Workmanship:

Works of all the electrical wiring / connections / lift installation / other electrical installations have been carried out under authorized / registered electrical engineer and its records has been maintained. The materials used conform to the relevant IS / BS / National Building Codes or as per industry standards.

Structural Engineer:

Promoter has engaged structural engineer **KHAN ZIAUR REHMAN (Z.Z. Consultant)**. The structural design of buildings in this project has been done under my supervision. I have checked the soil report before laying PCC for foundation in consultation with soil consultant. The formwork and concrete mix design have been done as per relevant codes as applicable. Her periodic checks and certificates for STABILITY and SAFETY have been kept on record. The structural design is carried out





ZZ Consultants

Consulting Civil & Structural Engineers

9005, 9th Floor, OZONE Biz Centre, Next to Maharashtra College, Mumbai-400008
Contact No.: (+91) 9867194381/9869207493 • Email: zzconsultants@rediffmail.com

considering applicable earthquake and/or wind load for this project and copes with the required fire resistance.

Preservation of Records:

Record of all test results of this project have been properly kept in the prescribed formats and will be preserved at least up to the defect liability period or for the period as required by any other provision of law.

The following materials or any other item of work which were not conforming to the standard specifications and which were not rejected, because of reasons specified here under; **I declare** all the tests mentioned above may be required as per NBC and relevant IS codes as may be applicable for this project as per the approved plan has been carried out and necessary records are preserved. Execution is carried out as per structural design prepared by Structural Engineer.

The following materials or any other item of work which were not conforming to the standard specifications and which were not rejected, because of reasons specified here under;

Yours Faithfully,

KHAN ZIAUR REHMAN (Z.Z. Consultant)
Regn. No. BNMCR/2022/APL/00017

