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• **Examining the impact of quality failure in a controlled environment**

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ABSTRACT

The issue of poor quality is a contentious one in a controlled system as far as engineering is concerned. It is true that quality has different definitions in several industries but we must note that there is a minimum standard which must be adhered to ascertain 'good quality'. This study focuses mainly on the cost of failure in quality in a regulated industry; the Nigerian construction industry. The construction industry in Nigeria has been facing challenges owing to building collapse. In engineering and construction, collapse is often seen as a mechanical failure of structures. The source of both the general and specific causes of failure of construction components has been traced to majorly substandard materials. From analysis, we can see that building materials are subject to stress or failure at varying rates depending on the methods of design construction, materials, designs and the mode of application. The underlying reasons building components failure, besides that of substandard materials and errors in designs, can be primarily linked to construction process and the utilization of several building components. Non-compliance to regulatory standards and specifications is another factor that has severe consequences on the successful outcome of a construction project/structural outfit.

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