

## Factor & Elemental Analysis of Nanotechnology as Green Technology using ABCD Framework

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### ABSTRACT

There are many definitions for the research process in both natural sciences and philosophical sciences. Out of them, the most popular two definitions are (1) Creating new knowledge, and (2) Interpretation of existing knowledge in a new way through the suitable method of analysis. There are many analysis frameworks used to interpret concepts, ideas, technologies, models, systems, solutions to any problems, strategies, products or services of an organization, resources, etc. Out of them, recently developed analysis framework called ABCD analysis framework is flexible to use in both qualitative and quantitative manner. ABCD analysis method allows the researcher to interpret the given concepts, ideas, technologies, models, systems, solutions of any problems, strategies, products or services of an organization, resources including material, machine, men, money, and information, systematically by considering various determinant issues related to the problem under analysis. The various determinant issues like organizational issue, business issues, customer issues, technological issues, government issue, environmental issues, and societal issues are identified and the affecting factors under the constructs Advantages, Benefits, Constraints, and Disadvantages are determined for identified key attributes. The critical constitutional elements of the nanotechnology as green technology are also identified for the same four constructs. The scores are given to each critical element under all four constructs and based on calculating overall scores the importance of nanotechnology as green technology in solving both basic and advanced problems in the society are determined and rated.

**Keywords:** ABCD Analysis Framework, Green Technology, Factor analysis, Elemental analysis.

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