

(54) Title of the invention : SYSTEM AND METHOD FOR MANAGING CONSTRUCTION QUALITY DOCUMENTS IN A BIM-INTEGRATED QMS ENVIRONMENT

(51) International classification	:G06Q0050080000, G06Q0010063900, G06Q0010100000, G06Q0010063100, G06Q0010060000	(71)Name of Applicant : 1)National Institute of Technology, Durgapur Address of Applicant :Mahatma Gandhi Avenue, Durgapur-713209, West Bengal, India. Durgapur -----
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
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(57) Abstract :
The present invention relates to a system (100) and method for managing construction quality documents within a Building Information Modeling (BIM) environment. The system (100) comprises a processor, memory, and modules including an automation module (101), record management module (102), RFI/NCR management module (103), inspection checklist module (104), documentation control module (105), and audit module (106). The automation module (101) captures real-time inspection data using standardized checklists and detects deviations against predefined standards. The record management module (102) maintains traceable quality records, while the RFI/NCR management module (103) automates request-for-information and non-conformance report workflows. The inspection checklist module (104) enables real-time data entry and retrieval to ensure compliance. The documentation control module (105) centralizes and secures quality-related workflows, reducing errors and delays. The audit module (106) facilitates third-party audits and systematic reviews to verify compliance and generate traceable reports. The invention streamlines quality management, enhances collaboration, and ensures cost-effective and standardized construction processes. (to be published with figure 1)

No. of Pages : 32 No. of Claims : 16