



防貪諮詢服務
Corruption Prevention
Advisory Service

CORRUPTION PREVENTION GUIDE FOR **CONSTRUCTION** **INDUSTRY**



3.6.4 Digitalisation of Works Supervision

To enhance the control and efficiency on quality of works, project clients and / or their consultants are advised to adopt digital works supervision system which may comprise a web-based portal for collecting construction works information and managing the workflows of site activities. In developing the digital works supervision system, project clients / consultants are advised to adopt the “SMART” principles (i.e. **S**implicity, **M**obility, **A**ccountability, **R**obustness, and **T**ransparency, **Annex 2**) and make reference to the following key recommended measures.

3.6.4.1 Security of Works Supervision System

- ✔ Specify clear performance requirements (e.g. audit trail, automatic sending of notifications / alerts) of the system.
- ✔ Allow access to the system only by authorised users with unique user accounts and passwords.
- ✔ Equip the system with an audit trail function logging the creation of and any changes to the inspection results.
- ✔ Store the inspection results in a local server and a cloud-based system.
- ✔ Conduct user acceptance tests to ensure all performance requirements are complied with.

3.6.4.2 Digitalisation of Workflows

- ✔ Digitalise the workflows for submission of inspection forms, assignment of site supervisory staff, recording, countersigning and acknowledgement of inspection results.
- ✔ Allow the use of mobile devices for recording works inspections (e.g. identities of the site supervisory staff, date / time and results of inspections) and taking of photographs as attachment to support the inspections.
- ✔ Facilitate supervisors to conduct real-time checks / verification of inspection results with such checks documented in the system.
- ✔ Enable the generation of management reports to detect irregularities (e.g. an inspection form submitted for a long time without an inspection).

3.6.4.3 Automation of Site Supervision Processes

- ✔ Automate manual processes in site supervision as far as possible to avoid errors, inaccuracy or manipulation (e.g. allow selection of inspection items from a database, generate automatic notifications alerting the submission of inspection forms and the taking of timely actions against late submission of inspection forms).

3.6.4.4 Integration with Other Computer Systems

- ✔ Integrate with other computer systems (e.g. BIM) to form a common data platform through which useful information can be shared and utilised with one another to enhance effectiveness in detecting anomalies and deterring manipulations.