APPENDICES

Appendix (1)

- QUESTIONNAIRE

Sudan University of Science and Technology

QUESTIONNAIRE

GENERAL INFORMATION

Name:……..

-Type of work: (Select only one.)

□ Common

□ Privet

□ other: ……. State.

-Age:……..

-How long have you served the construction industry?

(Select only one.)

□□□□□Below 5 years

□□□□□5 – 10 years

□□□□□11 – 15 years

□□□□□16 – 20 years

□□□□□Above 20 years

- **Degree Honor:**

(Select only one.)

□□□□□High diploma

□□□□□Bachelor

□□□□□Master Degree

□□□□□Dr. Degree

SECTION A

1. Which organization do you represent?

(Select only one.)

□□□Developer/Client
□□□Architectural firm
□□□General Building Contractor
□□□Consultant Firm
□□□Government Agency
□□□Others:_____(state)

2. What is the type of project your company usually deals with?

(Select only one.)

□□□□□Government sector

□□□□□Private sector

□□□□□Both

3. What is the size of your company ?

(Select only one.)

□□□□□Small (5 million SDG)

□□□□□Medium (15 million SDG)

□□□□□Large (50 - 200 million SDG)

□□□□□Mega (more than 200 million SDG)

4. Who is involved in planning and monitoring projects in your organization?

(Select only one.)

□□□□□Planner engineer

□□□□□General Manager

□□□□□Project manager

□□□□□Site engineer

5. What is your profession in construction industry?

(Select only one.)

□□□□□Architect

□□□□□Project Manager

□□□□□Engineer

□□□□□Quantity Surveyor

□□□Others:_____(state)

SECTION B

6. In your opinion, rank the following elements that were considered in developing the success of a construction projects.

The Elements	strongly agree	agree	uncertain/ not applicable	disagree	strongly disagree
1. Within the allocated time period	☐	☐	☐	☐	☐
2. Within the budgeted cost	☐	☐	☐	☐	☐
3. At the proper performance or specification level	☐	☐	☐	☐	☐
4. With acceptance by the customer or user	☐	☐	☐	☐	☐
5. With minimum or mutually agreed upon scope changes	☐	☐	☐	☐	☐
6. Without disturbing the main work flow of the organization	☐	☐	☐	☐	☐
7. Effective communication process	☐	☐	☐	☐	☐
8. Without changing the company culture	☐	☐	☐	☐	☐

SECTION C

EVM (Earned Value Management)

7. Using the options provided below, please assess your knowledge about EVM techniques:

(Select only one.)

□□□□□Poor

□□□□□Fair

□□□□□Good

□□□□□Very good

□□□□□Excellent

8. In your opinion, the (EVM)could be considered as:-

(Select only one.)

□□□□□Reporting Tool Only

□□□□□Reporting Tool with (some) Management Uses

□□□□□Equal Parts Reporting and Management Tool

□□□□□Management Tool with (some) reporting Uses

□□□□□Management Tool Only

9. How do you implementEVM in your projects?

(Select only one.)

□□□□□Least frequent

□□□□□less frequent

□□□□□Moderate

□□□□□Frequent

□□□□□Most frequent

10. In your opinion, rank the following concepts that were considered in developing EVM.

The concepts	strongly agree	agree	uncertain/ not applicable	disagree	strongly disagree
1. EVM provides early warming of performance problems	☐	☐	☐	☐	☐
2. EVM assists the project team to achieve cost objective	☐	☐	☐	☐	☐
3. EVM improves communication among team members	☐	☐	☐	☐	☐
4. EVM assists the project team to achieve schedule objectives	☐	☐	☐	☐	☐
5. EVM improves project scope management	☐	☐	☐	☐	☐
6. EVM is a cost –effective tool for performance management	☐	☐	☐	☐	☐

11. In your company, the most used tools and technique that used in implementing project is:

(Select only one.)

□□□□□Primavera p6

□□□□□Microsoft project

□□□□□Others: ----------(-state).

12. Throughout your experience can you rank the use of (EVM)in the construction industry in Sudan.

(Select only one.)

□□□□□Never

□□□□□Rarely

□□□□□Sometimes

□□□□□Most of the time

□□□□□Always

13. In your opinion what is the best way to apply EVM in construction industry (Select only one.)

□□□□□assign planner engineer to each project.

□□□□□Develop the management skills of project managers.

□□□□□Others: ----------(state)

14. In your opinion, rank the following advantages behind analyzing and controlling the performance of construction project

Advantages	strongly agree	agree	uncertain/ not applicable	disagree	strongly disagree
1. Reduce overall project costs, usually well in excess of their fees.	☐	☐	☐	☐	☐
2. Enhance quality control to reduce potential for defects and poor workmanship	☐	☐	☐	☐	☐
3. Provides an early warning of performance problem	☐	☐	☐	☐	☐
4. Uncover any time and cost deviations from the plan	☐	☐	☐	☐	☐
5. Forecasting project cost at completion	☐	☐	☐	☐	☐
6. Support decision making	☐	☐	☐	☐	☐