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.

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

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

<p>| | |</p>
<table>
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<tbody>
<tr>
<td>1</td>
<td>Reduce overall project costs, usually well in excess of their fees.</td>
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<tr>
<td>2</td>
<td>Enhance quality control to reduce potential for defects and poor workmanship</td>
</tr>
<tr>
<td>3</td>
<td>Provides an early warning of performance problem</td>
</tr>
<tr>
<td>4</td>
<td>Uncover any time and cost deviations from the plan</td>
</tr>
<tr>
<td>5</td>
<td>Forecasting project cost at completion</td>
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<tr>
<td>6</td>
<td>Support decision making</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>strongly agree</th>
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