

## REFERENCES

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## 1.0 Questionnaire format

### QUESTIONNAIRE

(Survey to find out how effective the usage of Project Management Software in Sri Lankan Building Construction Industry)

Notes:

1. It will take only avg. 20 minutes time to fill up this questionnaire.
2. The questionnaire have to be answered in the following ways,
  - (1) Yes / No (ticking or underline)
  - (2) Ticking on alternatives
  - (3) Word answers
  - (4) Answers to be marked on a scale
3. Please add remarks where useful to expand answers.
4. Information obtained in this questionnaire will be used collectively with other responds.
5. This questionnaire is consisting of mainly seven sections, 18 nos questions to be answered.

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**Section 01**  
**General Organizational Information**  
 Name of Organization (not compulsory) :

#### 1) ICTAD grading:

New category (pervious grading)

- |    |   |                      |
|----|---|----------------------|
| C1 | (M1)                                      | <input type="text"/> |
| C2 | (M1)                                      | <input type="text"/> |
| C3 | (M3, 150 ≥ X ≥ 100 million finance limit) | <input type="text"/> |
| C4 | (M3, 100 ≥ X ≥ 50 million finance limit)  | <input type="text"/> |

#### 2) No of building projects handling simultaneously (average) by the organization

≤2       bet<sup>n</sup> 3 & 4       bet<sup>n</sup> 5 & 6       bet<sup>n</sup> 7 & 8       9≤

#### 3) No of Planning Engineers or Qualified project planners working in the organization?

**Nos**

#### 4) Average Project completion as scheduled % (percentage)

### Section 02

**Software Usage for Project Management: General (PM software, office packages, data bases etc...)**

#### 5) How long the company has been using software for Project management?

☐ 0-5 years   ☐ 6-10 years   ☐ 11-15 years   ☐ 16-20 years   ☐ 20< years

6) Reasons for using software for Project Management (if more than one, put them in priority order)

Easy Administration works, Integration & approach to repetitive tasks ☐

Standardizing company formats ☐

Forced due to Competitors, Project teams, consultants ☐

To reduce cost ☐

Desire to keep up to date with development ☐

Other (please specify)

### Section 03

7) Usage of Dedicated Project Management Software

MS Project ☐

MS Project Server ☐

Primavera Project Planner ☐

Other (PM software, database, Office packages etc)

Scale to be used:

1: none   2: poor   3: average   4: good   5: Excellent

Activity Description

Software Usage

the Quality of Output

(Not depends on Software usage)

8) For **Planning**

To find start/finish/durations ☐ Yes / ☐ No   ☐ 1   ☐ 2   ☐ 3   ☐ 4   ☐ 5

To find floats of activities ☐ Yes / ☐ No   ☐ 1   ☐ 2   ☐ 3   ☐ 4   ☐ 5

Create WBS/OBS ☐ Yes / ☐ No   ☐ 1   ☐ 2   ☐ 3   ☐ 4   ☐ 5

To find critical path ☐ Yes / ☐ No   ☐ 1   ☐ 2   ☐ 3   ☐ 4   ☐ 5

To find critical activities ☐ Yes / ☐ No   ☐ 1   ☐ 2   ☐ 3   ☐ 4   ☐ 5

To check alternative techniques & methods ☐ Yes / ☐ No   ☐ 1   ☐ 2   ☐ 3   ☐ 4   ☐ 5

Resource allocation for tasks ☐ Yes / ☐ No   ☐ 1   ☐ 2   ☐ 3   ☐ 4   ☐ 5

Resource planning ☐ Yes / ☐ No   ☐ 1   ☐ 2   ☐ 3   ☐ 4   ☐ 5

Assigning Base line for planning ☐ Yes / ☐ No   ☐ 1   ☐ 2   ☐ 3   ☐ 4   ☐ 5

Assign responsibilities ☐ Yes / ☐ No   ☐ 1   ☐ 2   ☐ 3   ☐ 4   ☐ 5

Cash flow forecasting ☐ Yes / ☐ No   ☐ 1   ☐ 2   ☐ 3   ☐ 4   ☐ 5

Enterprise Resource pool ☐ Yes / ☐ No   ☐ 1   ☐ 2   ☐ 3   ☐ 4   ☐ 5

Planning multiple projects ☐ Yes / ☐ No   ☐ 1   ☐ 2   ☐ 3   ☐ 4   ☐ 5

## 9) Scheduling

Linking tasks (dependency)	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>
Linking between projects	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>
Create calendars	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>
Usage of resource calendars	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>
Resource adjustments of Critical path	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>
Resource leveling	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>
Sharing resource in multiple projects	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>
Adjusting different working times for resources	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>
Resource substitution (Enterprise projects)	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>

## 10) Monitoring & Controlling

Monitor progress: using % complete	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>
Monitor progress: using qty of work completed	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>
To check alternative techniques	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>
Tracking using Base Lines (using actual dates)	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>
Delay analysis	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>
Measuring performance using Earn Value (EV)	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>
Measuring performance using S-Curve						
Cash flow monitoring & controlling	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>
Cost Histograms	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>
Resource re-Scheduling	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>
Generating reports on cost (EV, Cash flow, Budget, Over budget etc)	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>
Generating reports on time (Started works, completed works, not started works etc)	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>
Generating reports on resources	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>
Sharing project data with other Applications (ex: cash flow in Excel)	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>
Importing & Exporting Information	<input type="checkbox"/> Yes / <input type="checkbox"/> No	<input type="text" value="1"/>	<input type="text" value="2"/>	<input type="text" value="3"/>	<input type="text" value="4"/>	<input type="text" value="5"/>

#### **Section 4**

##### **User Satisfaction**

- 11) Satisfaction level for **Time management** facility available in Project Management software:

Scale: ☐1 ☐2 ☐3 ☐4 ☐5

- 12) If satisfied, Contributing factors for satisfaction (if more than one, put them in priority order)

Straight forward application ☐

Easy & Quick execution ☐

Technical support available ☐

Other (please specify)

- 13) If Not satisfied, Contributing factors (if more than one, put them in priority order)

Comparably low return from software usage ☐

Available software does not fulfil the needs ☐

Insufficient time for planning ☐

Lack of experienced people with software ☐

Other (please specify)

- 14) Satisfaction level for **Cost management** facility available in Project Management

software:

Scale: ☐1 ☐2 ☐3 ☐4 ☐5

- 15) Satisfaction level for **Resource management** facility available in Project Management software:

Scale: ☐1 ☐2 ☐3 ☐4 ☐5

#### **Section 05**

##### **Difficulties faced**

- 16) What are the difficulties faced by Organization of using PM Software? (if more than one, put them in priority order)

High cost ☐

Non availability of trained staff ☐

Lack of interest among top management ☐

Lack of interest among the staff involving in PM activities ☐

Fear of change to new systems from staff of long tenure ☐

### **Section 06**

#### **Benefits gained**

17) What are the benefits gained using PM software? (if more than one, put them in priority order)

Easy for management & Administration activities	<input type="checkbox"/>
Increase of profit margins	<input type="checkbox"/>
Generating Quality reports	<input type="checkbox"/>
Increase company reputation (image)	<input type="checkbox"/>

### **Section 07**

#### **Future Development**

18) Any plan of expanding Project Management Software usage within the organization?

Yes ☐ No ☐

19) If yes, how? (If more than one, put them in priority order)

Introducing latest versions	<input type="checkbox"/>
Introducing new software packages	<input type="checkbox"/>
Recruiting trained people	<input type="checkbox"/>
Training relevant staff	<input type="checkbox"/>
Introducing company policies (ex: software usage is a must)	<input type="checkbox"/>
Other (please specify)	<input type="text"/>



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