

Appendix 2.1 Questionnaire Survey:-

SURVEY ON KNOWLEDGE MANAGEMENT (KM)

IN CONSTRUCTION COMPANIES

INTRODUCTION

Knowledge management (KM) is a process that helps organizations to create, organize, store, use, and share expertise necessary for activities such as problem solving, dynamic learning, strategic planning, and decision making. **Knowledge Management system** refers to a type of information system developed to include information, documents, knowledge, experience, and perception of employees through e-messaging, e-chatting, and other tools. The aim of the survey is to capture the initiatives for KM and investigate the critical success factors for implementing knowledge management in the construction industry. You are kindly requested to participate in the survey. This will not take you more than 15 minutes to complete.

This survey is not aiming to capture any commercially sensitive information. Nevertheless, all information will be treated as strictly confidential with full anonymity to participating organizations.

INSTRUCTION

This questionnaire asks for your opinion about KM in general and also KM systems in your organization.

The answer will depend on your own judgment that comes from your experience in this domain.

Note: If you don't know or are unsure of how to respond, please leave the box blank.

Note: If your company does not practice a knowledge management system, please go to section 4.

SECTION 1: GENERAL INFORMATION

This section seeks general information about you and your company. This information is used only to analyze the results of submitted questionnaires. It will be treated as strictly confidential.

1. Company name

2. Your name (optional)

3. Job title

4. Your location

1. Defining aims and objectives for KM .

2. Using KM models to represent KM activities



Method, components.

3. Preparing an action plan and guideline for KM



Implementation.

A3.System Implementation

1. Implementation of a prototype before applying



Wide range KM system.

2. Appointing KM offices to provide training and



Support to employees.

3. Embedding KM activities into employees work



Processes.

A4. System Maintaining and Monitoring

1. Collecting feed backs from end users regarding



Improvement requirement.

2. Observing the differences in operation after



Implementing KM.

3. Monitoring the system performance and showing



Bottle necks.

4. Monitoring the environmental factor such as



Management strategy employee's culture and technological factor.

A5.system evaluation

1. Investigating business process improvement



3. Evaluating the system correctness and alignment



With design Specifications.

4. Evaluating the system usefulness ease of use



And application.

A6. Knowledge capturing and storing

1. Recording problem solution & experience



In electronic repository.

2. Referring knowledge to its sources



3. Recording new ideas and perception of experts



And engineers.

4. Attaching pictures, video, and text files to clarify



Knowledge content.

A7. Knowledge Reusing and sharing

1. Using internet to share and transfer knowledge.



2. Using sharing tools to find required knowledge.



3. Showing contact details and experience of employees.



A8. Knowledge reviewing and approving

1. Using internet to publish and edit knowledge



2. Reviewing knowledge contents by experts or knowledge team



3. Classifying knowledge to facilitate knowledge



Searching function.

A9. Using database to create data



1. Capturing data and information of projects

In electronic repository.

2. Using data mining, dataanalysis, and reporting tools

3. Recording knowledge and information concluded

By using previous tools.

A10. System tools

1. User manual and help desk.

2. Dataminting, analysis and reporting.

3. Document management.

4. Photo and/ or video management.

5. Training and support.

6. Knowledge searching.

7. Knowledge Map.

8. Yellow pages and/or contact details..

9. Subscribing and/or internet password interning

To define authority level

10. E-meeting, messaging, chatting, discussion

Board, forum.

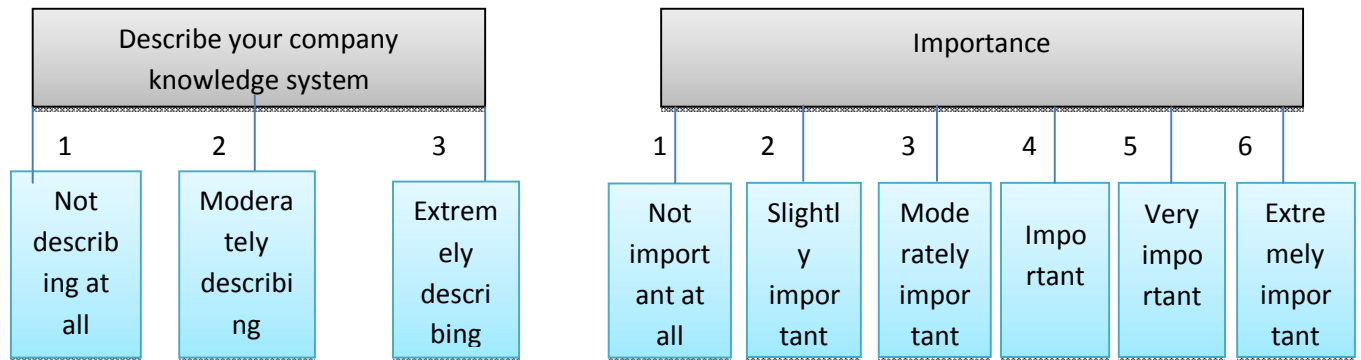
11. Decision support system and or intelligent.

Section 3: critical success factor

This section seek your perception on the importance of factor for successful KM in your company

9. Which of the following statement can be used to describe the KMS in your company? Decide

The level of importance for each statement for successful KMS in general. Please use this scale



Factors

Describing knowledgeimportance

System in your company

1 2 3 1 2 3 4 5 6

F1.CULTURE

1. Culture that values knowledge seeking

And problem solving.

2. Providing time to employees to perform

Knowledge related activates.

3. Updating employees and other user

About change in KMS.

4. Building up awareness and training

Onuse of kms.

F2.MANAGEMENT LEADERSHIP AND SUPPORT

1. Management establishes the necessary

Condition for KM.

2. Leader encourage and support knowledge

Creation,sharing and use.

3. Knowledge managers constantly search

for newApproaches to KM.

4. Development of a km strategy which

Clear objectives andgoals.

5. Sufficient financial resources for

Building up Technological system.

F3.INFORMATION TECHNOLOGY

1. Matching the kms with km objectives

Andusers' needs.

2. Utilization of internet and internet.

3. Ease of use of the technology.

4. Protection knowledge from unauthorized

5. Exposure or being stolen.

6. 5. Ability of system to capture and store

Tacitknowledge.

6. Appropriate categorization and

Updating of knowledge.

7. Application of technological tools.

F4.MEASUREMENT

1. Measurement benefits per unit



of investment.

2. Mentoring the system performance



and showing bottle neck.

3. Developing indicator for measurement of KM.



F5 ORGANIZATION INFRASTRUCTURE

1. Appointing of km leader and /or km team
or work.



2. Ensure of sufficient human resource to



Support km initiatives.

3. Specifying activities, tasks and process



For performing km.

4. Specifying roles and responsibilities



for performing km tasks

5. Recruiting and hiring of employees to



fill knowledge gaps

F6 DRIVERS FOR KM

1. Buildingup and maintaining employees



2. Sharing employees expertise and perce



3. Identifying internal and or time to solve



Problem in projects.



4. Enhancing work quality of projects

5. Reducing cost and /or to solve



Problem in project.

6. Providing competitive advantages to



The company.

7. Helping senior engineers and manage



to avoid Many problems cause



8. Presenting accurate and timely

Knowledge to Facilitate decision making.

9. Providing an effective tool to train



Juniorengineer.

10. Enhancing relation and coordination



With customer, Partners and suppliers.

11. Encouraging continuous improvement



and/or new Product and services .

12. Reducing rework and save time of



Solving repeated problem.

F7 . SPECIFICATION OF KM SYSTEM

1. The knowledge system easy to use .



2. It is easy for users to find useful



Information for Problem solving.

3. The system collects knowledge that



Important for organization.



4. The system ignores knowledge that is not important For the organization.

5. The system facilitate knowledge sharing

6. Between company's employees.

7. The system maintains good

Relationship with Customer and other partners.

8. The role of knowledge team worker

Is very important.

F8. KM barriers and challenges

1. The nature of construction projects (e.g. no type Work, no standard procedure, pressure to complete on Schedule, changing employee's different phase).

2. Lack of organization culture for knowledge Creation and sharing (e.g. build trust among employees Establish time and place for km transfer provide).

3. Lack of structured procedure and process to implemented km.

4. Lack the adoption of well formulated km strategies and implementation plane .

5. Lack of knowledge manager or team to Implement KM strategy.

6. Lack of awareness of the importance of KM organization.

7. Lack of training and support.

8. Lack of technology and techniques for

km capture and sharing

☐☐☐☐☐☐☐☐☐☐

9. Lack of leader ship support

10. Lack of recourse in team of a budget,

☐☐☐☐☐☐☐☐☐☐

Staff, and it infrastructure.

11. Employee resistance to share knowledge

☐☐☐☐☐☐☐☐☐☐

12. Lack of post-projects reviews and

☐☐☐☐☐☐☐☐☐☐

Project documentation.

10. To what extent do you consider your company knowledge management effort to
besuccessful?

11.To what extent do you consider the KM activities and critical success factor?

PresentedEelier to successful indescribing thosewhich are

Crucialfor km adoption in construction industry.

SECTION 4: FOR NON-KNOWLEDGE MANAGEMENT ADOPTERS

12. why do you not practise KM in your company (you may tick more than one answer) .

☐

Lack Of Time

☐

Have Never Hard

☐

Lack Of Financial Resources

☐

Don't Understand

☐

Top Management Does Not Support

☐

Unsure Of Its Potential Benefits

☐

Not Need

☐

Not Interested

13. Do You Plan To Implement Km In The Future.

Feedback

14. If you're interested to be contacted for follow up short interviews, please tick this box.

☐

15. If your company is interested in participating in the research case study, please tick this box.

☐

16. If you require summary of the findings of this survey, please tick this box.

☐

17. If you ticked any of the feedback questions, please enter your email address and or contact details.

☐

Other comment

(Please Use The Space Provided To Reflect On How To Improve Km In Construction Industry)

THANK YOU VERY MUCH FOR YOUR VALUABLE TIME AND CONTRIBUTION TO THIS SURVEY.

ALL RESPONSES WILL BE TREATED ANONYMOUSLY.