

# Proposed Road Infrastructure PPP'S Contract Management System (RIPCMS)

Dr. Asmaa I. Tewfic ALjanaby

Senior Chief Engineer/ Ministry of Trade / State Company for Iraqi Fairs & Commercial  
aitj\_303[at]yahoo.com

**Abstract:** Proposed partnership Contract Management System of various fields, including roads starting from the conceptual stage to the end of the concession period and transfer of the project, where the researcher was able to take advantage of the manual and specifications in the preparation of the system from countries that have experience in partnership contracts. In addition the field study, statistical Analysis. The researcher aspires to achieve a successful participation between the public and private sectors During the life of project.

**Keywords:** Road, Infrastructure, contract, system

## 1. Introduction

Proposed Road Infrastructure PPP'S Contract Management System (RIPCMS) represent a conclusion from reviewing and studying the systems of the management of partnership contracts in various fields, including roads in countries that have experience in partnership contracts where the researcher was able to take advantage of the manual and specifications in the preparation of the system, including four main stages of the project starting from the conceptual stage to the end of the concession period and transfer of the road. The researcher prepared the flowcharts that facilitate the process of understanding and summarizing each stage with the significant addition of the criteria that reached through the field study, statistical analysis and ANP which ensures that the road is sustainable and achieve the success of partnership contracts through the criteria of choose the best bidder. The goal of the system is to assist in develops a decision-making process for public-private partnerships and to improve the quality of public-private

partnerships in the roads projects that are planned to be implemented in Iraq. It has been designed to help practitioners of public-private partnerships make the necessary decisions of a plan, develop, and implement successful public-private partnerships.

## 2. System Phases

The system is divided into four phases to be proper to the main activities in the PPP process:

- 1) Phase one: Identify public-private partnerships
- 2) Phase two: Entire feasibility study, PPP elaboration with debugging of the project
- 3) Phase three: PP.P procurement, Final Approval as well as Award
- 4) Phase four: management and observing of PPP, contract agreement (operation & maintenance).

Figure (1) shows RIPCMS activities.

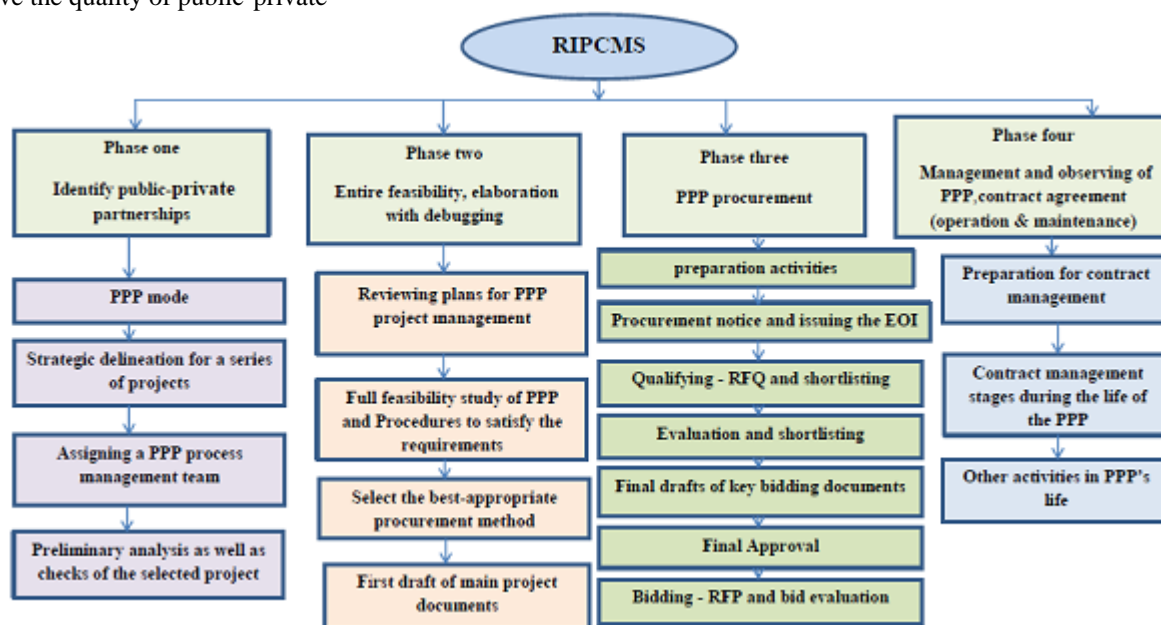


Figure 1: RIPCMS activities

### 1) Phase one: Identify public-private partnerships

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Phase one aims to decide quality ventures for evolution and likely accomplishment as PPPs; it is an entrance to the PPP evolution pipeline .It is an important stage because it set if the chosen project can be implemented by a PPP as an alternative of using traditional procurement. Tools have been established to support analysis and decision- making process; these are (PPP Financial Feasibility Index, PPP family indicator,). Figure (2) clarifies Process Map for Phase 1

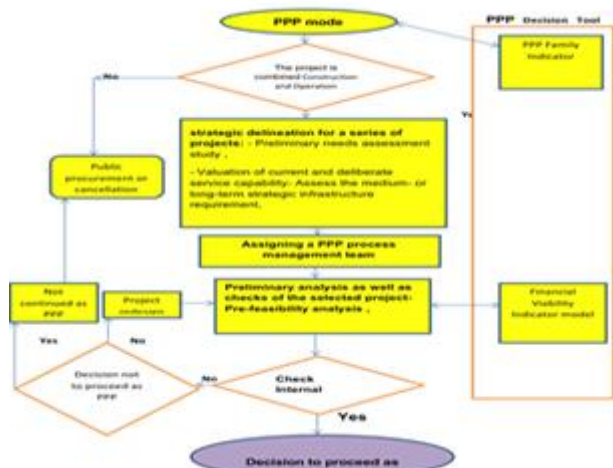


Figure 2: Process Map for Phase one

2) Phase two - Entire feasibility, elaboration with debugging phase

Objective is to conduct a study of feasibility in detail of the project, arrange a procurement project, and look for clearance in precept to move to procurement stage. Two apparatus have been established to assistance in analysis and decision-making; those tools are (Financial Feasibility Index and value for money (VFM) Index).The full feasibility results study and analysis of value for money analysis will be a valuable input in the application of clearance in principle to purchase the project as PPP. Figure (3) clarify Process Map for Phase 2.

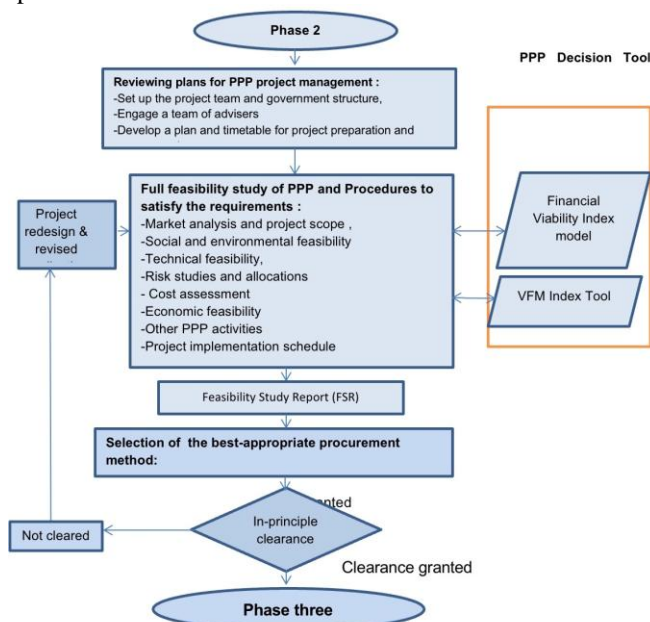


Figure 3: Process Map for Phase two

3) Phase three: PPP procurement, Final Approval as well as Award

Objective of Phase three is to choose a preferable private partner for PPP and convene contracting with him – Phase three carries a project to end of PPP improvement pipeline. Procurement stage begins with the publication of the obtainment notice and finishes with fiscal closure, the time that project activities can begin. Responsibility for Phase three will be with sponsoring authority; Sponsor may want to participate external advisors. Figure (4) clarify Process Map for Phase three.

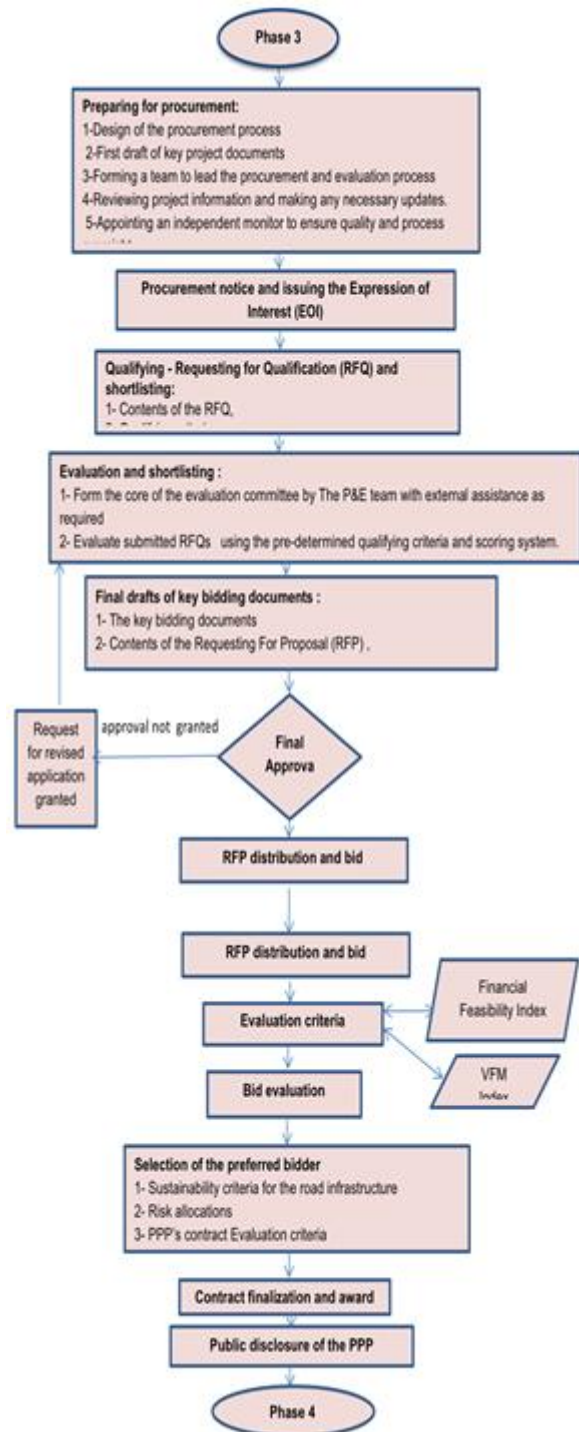


Figure 4: Process Map for Phase three

4) Phase four: management and observing of PPP, contract agreement (operation & maintenance)

Phase four start when PPP project is being implemented and Continues until the expiry of the PPP contract, it aims to ensure that the PPP project is executed according to the terms of concession agreement, permit flexibility to deal with the change when it arises throughout the life of the PPP and monitoring the concessionaire’s execution and take a correct action in under-performance, figure (5) summarizes the Process Map for Phase four.

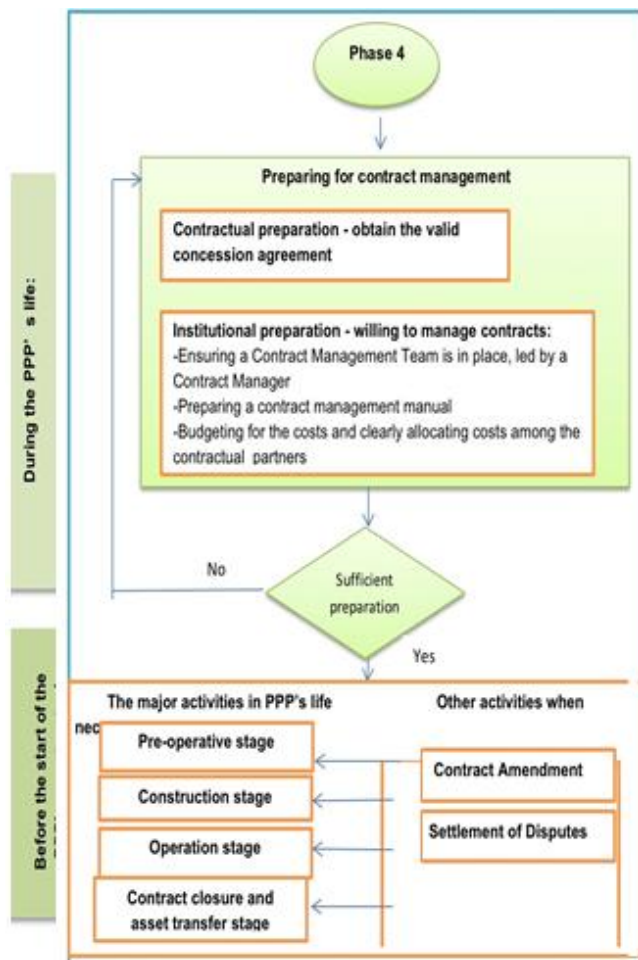


Figure 5: Process Map for Phase For

### Author Profile

**Asmaa Ibraheem** received the B.S. and M.S. degrees in Civil Engineering from College of Engineering, University of Baghdad in 1993 and 2005, respectively, received Ph. Dgree in Project management from the same university in 2017 and got German Strategic Planning Diploma in 2020. During 1995-1996, she worked at the National Center for Engineering Consulting, Iraqi Ministry of Construction and Housing, from 1998-2021 worked in Iraqi Ministry of Trade.