SCOPE OF WORK
FOR
THE FEASIBILITY STUDY
ON
THE CONSTRUCTION
OF
A NEW BRIDGE ACROSS RIVER NILE AT JINJA
IN
THE REPUBLIC OF UGANDA

AGREED UPON BETWEEN

MINISTRY OF WORKS AND TRANSPORT
AND

JAPAN INTERNATIONAL COOPERATION AGENCY

Kampala, July 6, 2008

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I. INTRODUCTION

In response to the official request of the Government of Republic of Uganda (hereinafter referred to as "GOU"), the Government of Japan (hereinafter referred to as "GOJ") decided to conduct the Study on the construction of a new bridge across River Nile at Jinja (hereinafter referred to as "the Study") in accordance with the relevant laws and regulations in force in Japan.

Accordingly, the Japan International Cooperation Agency (hereinafter referred to as "JICA"), the official agency responsible for the implementation of the technical cooperation programmes of the GOJ, will jointly undertake the Study with the authorities concerned of GOU.

On the part of GOU, Uganda National Roads Authority (hereinafter referred to as "UNRA") which is autonomous under Ministry of Works and Transport (hereinafter referred to as "MOWT"), shall act as the counterpart agency to the Japanese study team and as the coordinating body in relation with other concerned organizations for the smooth implementation of the Study.

UNRA is the organization mandated to plan, develop, and maintain the national road network and bridges in the country of Uganda.

The present document sets forth the Scope of Work with regard to the Study.

II. OBJECTIVES OF THE STUDY

The objectives of the Study are:

1. to conduct the feasibility study on the construction of a new bridge across River Nile at Jinja including its approach roads

2. to transfer relevant skills and technologies to personnel concerned with the Study

III. STUDY AREA

The Study shall focus on the area directly influenced by the proposed bridge construction project, as shown in Appendix-1.

IV. SCOPE OF THE STUDY

In order to achieve the objectives mentioned above, the Scope of Work for the Study shall cover the following items:

1. Preparatory Works
   1-1. Planning for Implementation of the Study
   1-2. Preparation of the Inception Report (IC/R)

2. Analyses of Existing Conditions
   2-1. Analyses based on existing/available data, information and reports
      (1) The country and Study area
         a) Socio-Economic conditions and future development plans of the country as well as Study area
         b) Current conditions and future development plans of the transport sector of the country as well as Study area
         c) Environment protection laws and regulations including "Environment Impact Assessment (EIA)"
            and land acquisition
         d) Policies, laws and regulations regarding resettlement
         e) Other data and information related to the Study

   (2) The Study Area

[Signature]
a) Natural, socio-economic and environmental conditions  
b) Land use including environmentally sensitive areas  
c) Current transport network and traffic of roads and railways  
d) Traffic data on land transport and other transport in the Study area  
e) Future transport development plan of roads and railways  
f) Other data and information related to the Study

2-2. Analyses based on the investigations and surveys by the Study  
   a) Socio-economic survey in the Study area including land use  
   b) Surveys of transport infrastructure, systems and service in the Study area  
   c) Traffic survey in the Study area  
   d) Engineering survey related to the proposed bridge construction including topographic surveys and geotechnical investigation for bridge foundation and approach road.  
   e) Environment survey related to the proposed bridge and road construction including possible land acquisition  
   f) Social survey related to the proposed bridge and road construction including possible impacts and mitigation measures of resettlement

3. Future Traffic Demand Forecast  
   3-1. Clarification of the current socio-economic framework of the study area  
   3-2. Clarification of the current traffic demand related to the study area including (a) generation and attraction, (b) distribution, (c) modal split, and (d) traffic assignment  
   3-3. Review of national and regional development plans related to the Study area  
   3-4. Assumption of future socio-economic framework of the Study area  
   3-5. Assumption of the future transport network related to the Study area  
   3-6. Forecast of future traffic demand related to the Study area  
   3-7. Clarifications of the structure of future traffic demand using the new bridge across River Nile

4. Study on alternative methods for crossing the River Nile  
   4-1. Identification of the alternative methods for crossing the river as well as criteria for selecting the best option  
   4-2. Surveys on alternative methods  
      a) Socio-economic condition survey including land use  
      b) Natural condition survey from engineering view point  
      c) Study on possible environmental and social impacts  
   4-3. Assessment of alternatives and selection of best option  
      a) Improvement of other methods  
      b) Construction of the bridge  
      c) Zero option  
   4-4. Recommendation on the method for crossing the river

5. Feasibility analysis of the Study  
   5-1. Basic policy for the feasibility study on the bridge construction project  
   5-2. Development of bridge alternatives by location, design and alignment from cost effective and updated technology considerations  
   5-3. Development of decision matrix for selection of the best alternative  
   5-4. Feasibility study on the selected best alternative  
      a) Designing (bridge section and approach road sections)  
         The design is to include design of components (including investigations such as Hydraulic Study, Wind Impact Study, Seismic Impact Study, etc.) and drawings including construction methodology and Bill of Quantity (BOQ).  
      b) Costing (Investment and operation/maintenance)  
         Cost estimate will be based on BOQ and estimated unit rates  
      c) Scheduling  
      d) Financial evaluation including finding FIRR and other parameters
e) Economic evaluation including finding EIRR and other parameters
f) Evaluation of environmental and social impacts including the costing of mitigation measures for possible impacts
g) Conclusion of the feasibility analysis

6. Overall Evaluation and Recommendations
6-1. Overall evaluation of the project
6-2. Recommendations for the project implementation
6-3. Recommendations for environmental and social considerations
6-4. Recommendations for land acquisition and rehabilitation/ resettlement plan

7. Technology Transfer to Counterpart Personnel

V. SCHEDULE OF THE STUDY

The Study is estimated twelve (12) months in accordance with the tentative schedule as attached in the Appendix-2. The schedule is tentative and subject to be modified when both parties agree upon any necessity that will arise during the course of the Study.

VI. STUDY IMPLEMENTATION MECHANISM

1. Steering Committee and Technical Committee
   MOWT will establish the Steering Committee to provide policy guidelines, and Technical Committee to provide technical advice for the Study and sort out technical problems, if any.

2. Collaboration between JICA Study Team and Counterpart Team of UNRA
   UNRA will assign the counterpart personnel to work together with JICA Study Team on a daily basis.

3. Technical Committee
   Technical Committee which is consisted of both GOU and JICA Study Team is to review the Study and make comments for improving results of the Study from time to time. The comments and recommendations suggested by the Technical Committee shall be suitably integrated into the Study.

VII. REPORTS

JICA shall prepare and submit following reports in English to the GOU.

1. Inception Report:

   Thirty (30) copies, at the time of commencement of the Study

2. Progress Report I:

   Thirty (30) copies will be submitted at the time of three (3) months after the commencement of the Study.

3. Interim Report:

   Thirty (30) copies will be submitted at the time of about six (6) months after the commencement of the Study.

4. Progress Report II:

   Thirty (30) copies will be submitted at the time of about eight (8) months after the commencement of the Study.
5. Draft Final Report:

Forty (40) copies will be submitted at the time of about ten (10) months after the commencement of the Study.

The GOU shall submit its comments within one (1) month after the receipt of the Draft Final Report.

6. Final Report:

Fifty (50) copies will be submitted within one (1) month after the receipt of the comments on the Draft Final Report.

VIII. UNDERTAKINGS OF JICA

For the implementation of the Study, JICA shall take the following measures;
1. To dispatch, as its own expense, the Japanese Study Team (hereinafter referred to as “the Study Team”) and
2. To pursue technology transfer to the counterpart personnel during the Study.

IX. UNDERTAKINGS OF THE GOU

1. To facilitate the smooth conduct of the Study; the GOU shall take necessary measures:

   (1) To permit the members of the Team to enter, leave and sojourn in Uganda for the duration of their assignments therein and exempt them from foreign registration requirements and consular fees;
   (2) To exempt the members of the Team from taxes, duties and any other charges on equipment, machinery and other materials brought into Uganda for the implementation of the Study;
   (3) To exempt the members of the Team from income tax and charges of any kind imposed on or in connection with any emoluments or allowances paid to the members of the team for their services in connection with the implementation of the Study;
   (4) To provide necessary facilities to the Team for the remittance as well as utilization of the funds introduced into Uganda from Japan in connection with the implementation of the Study.

2. GOU shall bear claims, if any arises, against the members of the Team resulting from, occurring in the course of, or otherwise connected with, the discharge of their duties in the implementation of the Study, except when such claims arise from gross negligence or willful misconduct on the part of the Team.

3. MOWT shall act as a counterpart agency to the Team and also as a coordinating body with other relevant organizations for the smooth implementation of the Study, on behalf of the GOU.

4. MOWT shall, at its own expense, provide the Team with the following, in cooperation with other organizations concerned:

   (1) Security-related information on as well as measures to ensure the safety of the Team;
   (2) Information on as well as support in obtaining medical service;
   (3) Available data (including maps and photographs) and information related to the Study;
   (4) Counterpart personnel;
(5) Suitable office space with necessary equipment; and
(6) Credentials or identification cards.

5. GOU shall be responsible for the environmental and social impact considerations process which includes the cost of hiring of consultants, ELA approval, etc., in accordance with the time schedule of the Study.

X. CONSULTATION

JICA and the MOWT shall consult with each other in respect of any matter that may arise from or in connection with the Study.
## TENTATIVE SCHEDULE

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IC/R: Inception Report  
PR/R: Progress Report  
IT/R: Interim Report  
DF/R: Draft Final Report  
F/R: Final Report