



**Ministry of Agriculture, Rural Economic Affairs, Livestock
Development, Irrigation and Fisheries & Aquatic Resources
Development**

**Climate Resilience Improvement Project (CRIP)
(Loan/Credit/Grant No Cr. 5417 - LK)**

REQUEST FOR EXPRESSIONS OF INTEREST

**Carryout Feasibility Study and Detailed Engineering Designs for
“Anuradhapura City Flood Protection Project”- CRIP/CS/QCBS/44**

**Carryout Feasibility Studies for Gampaha and Ja-Ela Cities Flood
Protection Projects - CRIP/CS/QCBS/45**

**Carry out Feasibility Study for Proposed Upper Deraniyagala
Reservoir - CRIP/CS/QCBS/46**

**Carryout Feasibility Study and Detailed Engineering Designs for
Kandakadu Diversion Structure - CRIP/CS/QCBS/47**

Climate Resilience Improvement Project (CRIP) which is functioning under the Ministry of Agriculture, Rural Economic Affairs, Livestock Development, Irrigation and Fisheries & Aquatic Resources Development under World Bank funds, carried out studies for development of basin Investment Plans (DBIP) to find out the structural and non-structural solutions considering the severe damages to the human lives caused by floods and droughts for selected six river basins up to Pre-feasibility level.

| Package Name and Number | Description |
|--|--|
| Carryout Feasibility Study and Detailed Engineering Designs for “Anuradhapura City Flood Protection | Considering the severe floods occurred in Malwathu Oya Basin, Anuradhapura city flood protection project is recommended as one of the prioritized projects continuing up to detail design studies. |

| | |
|---|--|
| <p>Project”- CRIP/CS/QCBS/44</p> | <p>Accordingly, flood mitigation strategy suggested for Anuradhapura City is; increasing spillway discharge capacity from Nachchaduwa Reservoir to Malwathu Oya incorporated with predicted weather forecast by providing additional radial gates and improve the existing spill structure by lowering ogee crest at required level with flood embankments along both banks of Malwathu Oya within Anuradhapura city wherever necessary when carrying the bank full capacity including pumping arrangements for local drainage.</p> <p>The objective of study is to carry out the feasibility Study and Detailed Engineering Design of flood mitigation for Anuradhapura City. The Eligible firms should experience in,</p> <ol style="list-style-type: none"> I. Carry out feasibility studies and detail engineering designs for earthen dams with radial gated spillways and improvements to associated structures II. Preparation of Cost Estimates and Bidding Documents |
| <p>Carryout Feasibility Studies for Gampaha and Ja-Ela Cities Flood Protection Projects - CRIP/CS/CQS/45</p> | <p>Accordingly, Raising of existing Flood Bund and Construction of new flood bunds at Gampaha and Ja-Ela together with implementation of pumping stations and drainage improvement has been recommended for Feasibility Studies in Attanagalu Oya Basin.</p> <p>Gampaha and Ja-Ela are major towns in Gampaha District and have been affected by flooding, more frequently. Both towns are in areas of rapid urban development as part of the Greater Colombo Megapolis, with attendant growth in population and population density as well as in economic and commercial activity. Protection of these towns is important to the continued development of Greater Colombo.</p> <p>The overall objective is to prepare a Feasibility Study for flood mitigation schemes in order to protect the towns of Gampaha and Ja-Ela from flooding, considering social, environmental and economic aspects. The Eligible firms should have experiences in,</p> <ol style="list-style-type: none"> I. Carry out feasibility studies for flood mitigation with respect to the hydraulic model results. II. Upgrading the Hydraulic 2D model and develop detailed 1D/2D model using TUFLOW and Flood Modeler Software. III. Analyzing Local Drainage Problems (in hydraulically complex conditions in low lying |

| | |
|---|---|
| | <p>coastal areas and highly urbanized areas) using models</p> <p>IV. Preparation of Cost Estimates</p> |
| <p>Carry out Feasibility Study for Proposed Upper Deraniyagala Reservoir - CRIP/CS/QCBS/46</p> | <p>Considering the severe flood in 2016 May in Kelani River Basin, identified flood mitigation projects were prioritized for implementation after completion of feasibility studies. Accordingly, Upper Deraniyagala Multipurpose Reservoir in Kelani River Basin has been recommended for Feasibility Studies.</p> <p>Proposed Upper Deraniyagala Multipurpose Reservoir Dam site is located across Seethawaka Ganga at Deraniyagala Divisional Secretariats in Kegalle District. The Main purpose of this reservoir is Flood Storage, Drinking Water Supply and Hydropower Production. The proposed reservoir capacity is 69 MCM with 56.0 m height dam at pre-feasibility level.</p> <p>The objective of the study is to carry out the Feasibility Study of Upper Deraniyagala multipurpose Reservoir. The Eligible firms should experience in carry out feasibility study of different types of dams with associated structures.</p> |
| <p>Carryout Feasibility Study and Detailed Engineering Designs for Kandakadu Diversion Structure - CRIP/CS/QCBS/47</p> | <p>Allai irrigation scheme (approx.25, 000 Acs) in Mahaweli lower basin is fed by Marvil Aru anicut and is the largest irrigation scheme found in lower basin. This scheme is highly vulnerable to droughts due to lack of a proper water diversion structure at Kandakadu in Mahaweli river, where diversion during dry periods is done by building a temporary sand bag weir. Therefore, as a solution for thriving reliable water transfer to the Marvil Aru anicut through the Mavil aru feeder canal, it has been proposed to have a permanent diversion structure across Mahaweli Ganga at Kandakadu.</p> <p>At pre-feasibility study level, a collapsible gated weir has been recommended and it can be pneumatically actuated. This has been suggested as the most practicable solution for a diversion structure considering the low and high flow regimes at this location.</p> <p>The objective of study is to carry out the feasibility study with detailed designs of proposed diversion/regulating structure across Mahaweli River at Kandakadu to divert water to Mavil aru anicut.</p> <p>The Eligible firms should have experiences in,</p> <p>I. Carrying out feasibility study and Detailed Engineering Designs for diversion/regulating</p> |

| | |
|--|---|
| | structures across large rivers with largely varying flow regimes. |
| | II. Preparation of Cost Estimates and Bidding Documents |

Document Requirement

The interested firms may provide relevant details for **one or more assignment(s) listed above indicating the specific task(s) that they are interested in your covering letter** including the following information to support their eligibility for qualifying and undertaking the corresponding assignment.

The shortlisting criteria based on;

1. Company profile
2. Name and CVs of the key staff/ officers of the firm
3. Audited financial statements for the most recent 05 years
4. List and descriptions of major similar assignments (ie. Feasibility studies and/or detail engineering designs of large dams) undertaken by the firm during past 5 years
5. Broachers and other supporting documents and any relevant documents in proof of their eligibility

Therefore, the firm should provide necessary details/information as requested above with **01 original and 05 copies** for shortlisting along with the EOI. Qualified and interested firms shall submit their applications along with the documents to prove their qualifications. Joints Ventures of two or more specialized firms are also acceptable.

The attention of interested Consultants is drawn to paragraph 1.9 of the World Bank's Guidelines: Selection and Employment of Consultants by World Bank Borrowers - January 2011. The Consultant will be selected in accordance with the Cost and Quality Based Selection (QCBS) set out in the Consultant Guidelines.

Further information can be obtained from **Project Director (CRIP)** at the address below during working office hours, *i.e.* 09:00 to 16:00 hours.

Please forward the EOI with above mentioned documents on or before **16:00 hours on 14th June 2019** to the address below. **Name of the interested assignment(s) shall be written on top left corner of the envelope.**

**Project Director - Climate Resilience Improvement Project
No 11, Jawatta Road,
Colombo 05.**

Tel: 0112 058452

Fax: 0112 058451

Email: pdcrip@sltnet.lk