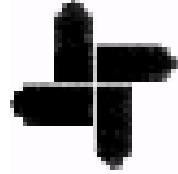


**DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA**



**MINISTRY OF HIGHWAYS**



**ROAD DEVELOPMENT AUTHORITY**

## **BIDDING DOCUMENT**

**FOR**

**CONSTRUCTION OF DELOLUWA MAKULUWATHENNA  
BRIDGE, DEHIOWITA  
(Dehiowita Deloluwa Makuluwathenna Marga Padipela Iwath kara  
Palamak Idikirima)**

**CONTRACT NO: RDA/Sab/Keg/Ruwan/GSP/CECB/17**

**BID SUBMITTED BY**

.....  
**(NAME OF THE BIDDER)**

# TABLE OF CONTENTS

DETAILS OF PROJECT LOCATION .....	3
VOLUME 1 .....	4
SECTION-1:    INSTRUCTION TO BIDDERS .....	5
SECTION-2:    STANDARD FORMS (CONTRACT) .....	6
LETTER OF ACCEPTANCE .....	7
STANDARD FORM OF AGREEMENT .....	8
PERFORMANCE SECURITY .....	9
FORM OF ADVANCE PAYMENT SECURITY .....	10
FORM OF RETENTION MONEY GUARANTEE .....	11
SECTION – 3:    CONDITIONS OF CONTRACT .....	12
VOLUME 2 .....	13
INVITATION FOR BIDS .....	14
SECTION – 4:    FORM OF BID AND QUALIFICATION INFORMATION .....	16
FORM OF BID .....	17
QUALIFICATION INFORMATION .....	18
SECTION – 5: SCHEDULE .....	20
BIDDING DATA .....	21
CONTRACT DATA .....	25
SECTION – 6: SPECIFICATIONS .....	28
GENERAL SPECIFICATION .....	29
PARTICULAR APPLICATION .....	30
SECTION – 7: BILL OF QUANTITIES .....	36
BILL OF QUANTITIES .....	37
DAYWORKS .....	39
SECTION – 8    DRAWING .....	45
DRAWINGS .....	46
SECTION – 9    STANDARD FORMS (BID) .....	47
FORM OF BID SECURITY .....	48
FORM FOR AFFIDAVIT FOR THE CURRENT COMMITMENTS .....	49
FORM FROM THE BANK FOR GRANTING THE REVOLVING LINE OF CREDIT .....	50

## DETAILS OF PROJECT LOCATION



From LB Side



From RB Side



From U/S Side



From D/S Side

District – Kegalle

DS Division – Dehiowita

EE Division – Ruwanwella

**GPS Location of the Bridge**

- **North - 06 57 134**
- **East - 080 16 031**

# VOLUME 1

<b>Section</b>	<b>1</b>	Instruction to Bidders (ITB)
<b>Section</b>	<b>2</b>	Standard Forms
<b>Section</b>	<b>3</b>	Conditions of Contract (COC)

## **SECTION-1: INSTRUCTION TO BIDDERS**

Refer Section 1 of ICTAD Standard Bidding Document, ICTAD publication no. ICTAD/SBD/03 Second Edition January 2007

Please read this in conjunction with Standard Bidding Document for Procurement of Works - Minor Contracts (ICTAD/SBD/03 Second Edition – January 2007)

## **SECTION-2: STANDARD FORMS (CONTRACT)**

- **Form of Letter of Acceptance**
- **Standard Form of Agreement**
- **Form of Performance Security**
- **Form of Advance Payment Security**
- **Form of Retention Money Guarantee**

Please read this in conjunction with Standard Bidding Document for Procurement of Works - Minor Contracts (CIDA/SBD/03 Second Edition – January 2007)

# LETTER OF ACCEPTANCE

.....  
.....  
*[Contractor's Name & Address]*

**Dear Sir,**

## **CONSTRUCTION OF DELOLUWA MAKULUWATHENNA BRIDGE, DEHIOWITA**

**Contract No. RDA/Sab/Keg/Ruwan/GSP/CECB/17**

This is to notify you that your bid dated ..... Construction of Deloluwa Makuluwathenna Bridge, Dehiowita

**Contract No. RDA/Sab/Keg/Ruwan/GSP/CECB/17**

for the Contract Price of Rupees .....  
(.....) As corrected in accordance with Instruction to Bidders is hereby accepted.

You are hereby instructed to proceed with the execution of the said Works in accordance with the Contract Documents.

The Contract Number will be **RDA/Sab/Keg/Ruwan/GSP/CECB/17**

The commencement Date shall be .....

The amount of Performance Security is ..... valid up to .....

The Performance Security shall be submitted on or before .....

Thank You

Yours faithfully,

Director General

Road Development Authority

Copies to:

1. Chairman, RDA – F.i. Pl.
2. General Manager, CECB - Pl. instruct contractor to proceed the work
3. Commissioner of Inland Revenue– F.i.
4. The Auditor General– F.i.
5. Chief Accountant, (MOH) – F.i.
6. Provincial Director (Uva), RDA – F.i.
7. Chief Engineer(Monaragala), RDA – F.i.
8. Executive Engineer (Monaragal), RDA – F.i.

# STANDARD FORM OF AGREEMENT

This AGREEMENT, made on ..... of ....., 2021 between  
..... (hereinafter called “the Employer”) and  
..... (hereinafter called “the Contractor”) of the other part.

WHEREAS the Employer is desirous that the Contractor execute **Construction of Deloluwa Makuluwathenna Bridge, Dehiowita CONTRACT NO: RDA/Sab/Keg/Ruwan/GSP/CECB/17** (hereinafter called “the Works”) and the Employer has accepted the Bid by the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to, and they shall be deemed to form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all respects with the provision of the Contract.
3. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects wherein the initial Contract Price or such other sum as may become payable under the provisions of the Contract at the time and in the manner prescribed by the Contract.

IN WITNESS where of the parties thereto have caused this Agreement to be executed the day and year aforementioned, in accordance with laws of Sri Lanka.

.....  
.....  
Authorized signature of Contractor  
Employer  
Authorized signature of  
Employer

## COMMON SEAL

In the presence of Witnesses:

## COMMON SEAL

1. Name and NIC No: .....  
Signature: .....  
Address: .....
2. Name and NIC No: .....  
Signature: .....  
Address: .....



# PERFORMANCE SECURITY

**(Unconditional)**

.....  
.....  
[Issuing Agency's Name, and Address of Issuing Branch or Office]

a) **Beneficiary:** *Director General , Road Development Authority  
1<sup>st</sup> Floor, "Maganeguma Mahamedura",  
216, Denzil Kobbekaduwa Mawatha, Battaramulla.*

**Date:** .....

**PERFORMANCE GUARANTEE No.:** .....

We have been informed that ..... [Name of Contractor] (Hereinafter called, "the Contractor") has entered into Contract No. \_\_\_\_\_ dated ..... with you, for **Construction of Deloluwa Makuluwathenna Bridge, Dehiowita invited under TENDER No: RDA/Sab/Keg/Ruwan/GSP/CECB/17** (hereinafter called "the Contract").

Furthermore, we understand that, according to the Conditions of the Contract, a performance guarantee is required.

At the request of the Contractor, we ..... [name of Agency] hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of ..... [amount in figures] (.....) [amount in words], upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation(s) under the Contract, without your needing to prove or to show grounds for your demand or the sum specified therein.

This guarantee shall expire, no later than the ..... day of .....2021. [ 28 days beyond the intended completion date] and any demand for payment under it must be received by us at this office on or before that date.

Signature and the Seal of the Guarantor:

.....

Name of the Organization: .....

Address: .....

Date: .....

Witness: .....

## FORM OF ADVANCE PAYMENT SECURITY

----- (Name and addresses of Issuing Agency and Branch)

b) Beneficiary: *Director General , Road Development Authority*  
*1<sup>st</sup> Floor, “Maganeguma Mahamedura”,*  
*216, Denzil Kobbekaduwa Mawatha, Battaramulla.*

Date: \_\_\_\_\_

**ADVANCE PAYMENT GURANTEE No:** \_\_\_\_\_

We have been informed that \_\_\_\_\_ [*Name of Contractor*] (hereafter called “the Contractor”) has entered into Contract No. **RDA/Sab/Keg/Ruwan/GSP/CECB/17** [*reference number of the Contract*] dated \_\_\_\_\_ with you, for Construction of Deloluwa Makuluwathenna Bridge, Dehiowita (hereinafter called “the Contract”).

Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum \_\_\_\_\_ [*amount in figures*] \_\_\_\_\_ [*amount in words*] is to be made against an advance payment guarantee.

At the request of the Contractor, we \_\_\_\_\_ [*name of issuing agency*] hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of \_\_\_\_\_ [*amount in figures*] \_\_\_\_\_ [*amount in words*] upon receipt by us of your first demand in writing accompanied by a written statement stating that the Contractor is in breach of its obligation in repaying of the advance payment under the Contract.

The maximum amount of this guarantee shall be progressively reduced by the amount of the advance payment repaid by the Contractor.

This guarantee shall expire on \_\_\_\_\_ [*Insert the date, 28 days beyond the expected expiration date of the Contract*]. Consequently, any demand under this guarantee must be received by us at this office on or before that date.

Signature of Authorized officer  
Issuing Agency

## FORM OF RETENTION MONEY GUARANTEE

NUMBER: ..... DATE: .....

SUM GUARANTEED: .....

c) To: *Director General , Road Development Authority  
1<sup>st</sup> Floor, "Maganeguma Mahamedura",  
216, Denzil Kobbekaduwa Mawatha, Battaramulla.*

Whereas, it has been stipulated by the Employer in clause 10.5 of the conditions of contract that he would release to the contractor the full sum mentioned under the contract in pursuance of clause 10.6, on the contractor furnishing an unconditional guarantee acceptable to the Employer to the full value of the retention money, valid up to 28 days beyond the end of the Defects Notification Period.

We. ....(*name and address of the Guarantor*) as instructed by the Contractor, unconditionally and irrevocably, guarantee to pay the Employer upon the Employer's first written-demand and without cavil or objection, any sum or sums within the said amount as aforesaid without the Employer's needing to prove or to show grounds or reasons for the Employer's demand for the sum specified therein and the said amount of Rupees.....(*amount of Guarantee*)..... (*Amount in words*) in the event the contractor fails to carry out his obligations to rectify defects, which he is responsible to rectify under the contract.

This guarantee shall be valid up-to..... (*Date*)

Signature and Seal of the Guarantor: .....

Name of Organization: .....

Address:  
.....  
.

Date: .....

Witness: .....

## **SECTION – 3: CONDITIONS OF CONTRACT**

Refer Section 3 of CIDA Standard Bidding Document, CIDA publication No. CIDA/SBD/03 Second Edition January 2007

Please read this in conjunction with Standard Bidding Document for Procurement of Works - Minor Contracts (CIDA/SBD/03 Second Edition – January 2007)

## **VOLUME 2**

Invitation for Bids (IFB)

**Section 4** Form of Bid and Qualification Information

**Section 5** Schedules

**Section 6** Specifications

**Section 7** Bill of Quantities

**Section 8** Standard Forms (Bid)

**Section 9** Drawings

# DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

## INVITATION FOR BIDS

### GOVERNMENT OF THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA MINISTRY OF HIGHWAYS

#### NATIONAL COMPETITIVE BIDDING

1. The Chairman, Ministry Procurement Committee 2 (MPC 2) of Ministry of Highways, now invites sealed bids from eligible and qualified bidders for the works described below :-

Ref. No.	Contract No	Name of the contract	RDA EE Area/ District	Engineer's Estimate (Including contingencies & without VAT) / (LKR Mn)	Contract period in Calendar Days	CIDA Grade	Non-Refundable Fee	Bid Security (LKR.)
1	RDA/Central/Mathale/Laggala/GSP/CECB/02	Bridge across Atambe Ela for the road near Godaulpatha Bakery	Nalanda / Mathale	10.6	180	C6 & C5	3,500/-	150,000/-
2	RDA/Central/N.Eliya/Hangu/GSP/CECB/03	Mada Arawa Bridge, Kehelwathupitiya Bridge & Illagolla Bridge	Hanguranketha/ Nuwara Eliya	29.39	270	C5 & C4	8,000/-	400,000/-
3	RDA/N.West/Kruput/GSP/CECB/05	Bridge across Warawewa Spill Canal on Mahagalkaduwa - Galawewa Road & Kurunegala and Bridge in Kottukachchiya - Kachchimaduwa Road	Kurunegala/ Kurunegala Puttalam/ Puttalam	52.43	365	C4	12500/-	790,000/-
4	RDA/Sab/Keg/Ruwan/GSP/CECB/06	Construction of Bridge for Egodakanda Village in Pannila	Ruwanwella / Kegalle	48.2	270	C5 & C4	12,000/-	700,000/-
5	RDA/Sab/Keg/Ruwan/GSP/CECB/07	Construction of Bridge behind MOH Office at Maliboda Namalwaththa	Ruwanwella / Kegalle	29.1	270	C5 & C4	8,000/-	400,000/-
6	RDA/Sab/Keg/Ruwan/GSP/CECB/08	Construction of Bridge for Pahala Miyawita to Beligaswaththa	Ruwanwella / Kegalle	7.3	150	C7 & C6	2,500/-	110,000/-
7	RDA/Sab/Keg/Ruwan/GSP/CECB/09	Construction of Bridge in Irekanda Road, Kosgahahinna	Ruwanwella / Kegalle	5.5	120	C7 & C6	2,000/-	80,000/-
8	RDA/Sab/Keg/Ruwan/GSP/CECB/10	Construction of Bridge Linking Ballehela and Pahalagama	Ruwanwella / Kegalle	9.6	150	C7 & C6	3,500/-	145,000/-
9	RDA/Sab/Keg/Ruwan/GSP/CECB/11	Construction of Bridge in Gedarawaththa Adawiya Road	Ruwanwella / Kegalle	14.4	180	C6 & C5	4,000/-	210,000/-
10	RDA/Sab/Keg/Ruwan/GSP/CECB/12	Construction of Bridge across Karawila Ganga in Udamaliboda Dikellakanda Road	Ruwanwella / Kegalle	32.3	270	C5 & C4	9,000/-	480,000/-
11	RDA/Sab/Keg/Ruwan/GSP/CECB/13	Construction of Bridge at Dehiowita Polwaththa	Ruwanwella / Kegalle	8.8	150	C7 & C6	3,000/-	120,000/-
12	RDA/South/Mt. Deniya/GSP/CECB/15	Reconstruction of Waththehena Bridge by replacing with a concrete deck	Deniyaya/ Matara	12.2	150	C6 & C5	4,000/-	150,000/-
13	RDA/Sab/Keg/Ruwan/GSP/CECB/17	Construction of Deloluwa Makuluwathenna Bridge, Dehiowita	Ruwanwella / Kegalle	5.4	120	C7 & C6	2,000/-	80,000/-
14	RDA/Sab/Keg/Ruwan/GSP/CECB/18	Construction of Small Bridge across the Canal which Boundries to Katulanda and Pallewaththa	Ruwanwella / Kegalle	16	180	C6 & C5	4,500/-	240,000/-
15	RDA/Sab/Keg/Ruwan/GSP/CECB/19	Construction of Bridge Across the Canal at Thaligama, Pallewaththa	Ruwanwella / Kegalle	8.4	150	C7 & C6	3,000/-	120,000/-

2. Rehabilitation and Improvement activities (the works) will include but not limited to the following:

- Site Clearing and Excavation;
- Bridge/ Culvert Construction with access Roads.
- Drainage construction / improvements;

- Relocation of utilities
3. Bidding will be conducted through the National Competitive Bidding Procedure. Since the Total Cost Estimate of Bridge across Warawewa Spill Canal on Mahagalkaduwala – Galawewa Road & Kurunegala and Bridge in Kottukachchiya - Kachchimaduwa Road is higher than Rs. 50 Mn, regional preference and CIDA grade preference shall apply only for the all other contract packages, as stipulated in Public Finance Circular No. 04/2016 (ii).
  4. To be eligible for contract award, the successful bidder shall not have been blacklisted and shall be currently registered with the Construction Industry Development Authority formerly named as Institute for Construction Training and Development (ICTAD) for **Bridge or Highway Construction in above grades**.
  5. Interested bidders may obtain further information and inspect the bidding documents during office hours (from 09:00 hrs to 15:00 hrs Monday to Friday inclusive, except Public Holidays) from **Additional Secretary (Engineering), Ministry of Highways, 7<sup>th</sup> Floor, “Maganeguma Mahamadura”, Denzil Kobbakaduwa Mawatha, Battaramulla. TP: 011-2887463, 011-2887543, Fax: 011-2887464.]** or relevant Provincial Director Office.
  6. A complete set of Bidding Documents in English language shall be purchased by interested bidders on submission of a written application with the registration certificate issued by Registrar of Public contracts under the Act No. 3 of 1987, Department of Registrar Companies for Contracts, from the **Additional Secretary (Engineering), Ministry of Highways, 7<sup>th</sup> Floor, “Maganeguma Mahamadura”, Denzil Kobbakaduwa Mawatha, Battaramulla** or relevant Provincial Director Office from **21<sup>st</sup> October 2021** until **5<sup>th</sup> November 2021** during 09:00 hrs to 15:00 hrs upon payment of a non-refundable fee. The non refundable tender fee can be paid by depositing cash to the following account.
    - a. Account Name : Secretary – Ministry of Highways
    - b. Account Number : 0007040370
    - c. Bank Name : Bank of Ceylon- Battaramulla
  7. Bid shall be addressed to the **Chairman, Ministry Procurement Committee 2, C/o Additional Secretary (Engineering), Ministry of Highways, 7<sup>th</sup> Floor, “Maganeguma Mahamedura”, Denzil Kobbekaduwa Mawatha, Battaramulla** and **can be submitted** to the above address or to the **Office of Provincial director of Road Development Authority of respective province in duplicate** on or before **14:00 hrs on 8<sup>th</sup> November 2021** together **with bid security** as described in the bidding document. **Late bids will be rejected.** Bid opening to be done on **10<sup>th</sup> November 2021 at 1.00 pm** at **Engineering Division, Ministry of Highways, 7<sup>th</sup> Floor, “Maganeguma Mahamedura”, Denzil Kobbekaduwa Mawatha, Battaramulla** in the presence of the bidder’s representatives who chooses to attend and those who would not be able to attend due to inter provincial travel restriction, can joint through the online meeting, to be arranged by the ministry and the link will be sent due course. Please write your E Mail address and Phone Number on top of the Submitting Envelope to send the Link and those, who have not written, won’t be able to Joint to this online meeting.
  8. The bidder shall bear all costs associated with the preparation and submission of its Bids, and the Employer shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.  
The Address Referred to above is  
The Chairman,  
Ministry Procurement Committee 2,  
C/o Additional Secretary (Engineering)  
Ministry of Highways,  
7<sup>th</sup> Floor, Maganeguma Mahamedura,  
Denzil Kobbekaduwa Mawatha,  
Battaramulla.

## **SECTION – 4: FORM OF BID AND QUALIFICATION INFORMATION**

- Form of Bid
- Qualification of information



## FORM OF BID

### Construction of Deloluwa Makuluwathenna Bridge, Dehiowita TENDER NO: RDA/Sab/Keg/Ruwan/GSP/CECB/17

To: Director General,  
Road Development Authority  
Gentlemen,

1. Having examined the Conditions of Contract given in the Standard Bidding Document-Procurement of Works (ICTAD/SBD/03-Second Edition, January 2007) along with the Schedule, Specifications, Drawings and Bill of Quantities and addenda Nos ..... for the execution of the above-named Works, we the undersigned, offer to execute and complete such Works and remedy any defect therein in conformity with the aforesaid Conditions of Contract, Schedule, Specifications, Drawings, Bill of Quantities and addenda Nos..... for the sum of Sri Lankan Rupees\* ..... (SL Rs\*.....) or such other sums as may be ascertained in accordance with the said Conditions.
2. We/I acknowledge that the Schedule forms part of our Bid.
3. We/I undertake, if our Bid is accepted, to commence the Works as stipulated in the Schedule, and to complete the whole of the Works comprised in the Contract within the time stated in the Contract Data.
4. We/I agree to abide by this Bid for the period of **63 days** from the time of closing of the Bids or any extended period to which we may agree and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
5. Unless and until a formal Agreement is prepared and executed, this Bid together with your written acceptance thereof shall constitute a binding contract between us.
6. Unless and until a formal Agreement is prepared and executed, this Bid together with your written acceptance thereof shall constitute a binding contract between us.
7. We/I accept/ we do not accept the Appointing Authority for the Adjudicator.
8. We/I understand that you are not bound to accept the lowest or any Bid you may receive.

Dated this ..... day of .....2021 in the capacity of .....  
duly authorized to sign tenders for and on behalf  
of.....

Name : ..... (IN BLOCK CAPITALS)

Signature : .....

Address : .....

Witness : 1 Name ..... Signature.....

2 Name ..... Signature.....

*\* The amount inserted here should not include the VAT component*

## QUALIFICATION INFORMATION

<b>ICTAD Registration</b>	Please attach photo copy of Original Documents (as annex -01)
Registration Number	
Grade & Specialty	
Expiry Date	
<b>VAT Registration Number</b>	(Attach as Annex 02)
<b>Construction Program</b>	(Attach as annex 11)
<b>Legal Status</b> (Please attach photo copy of original documents as annex)	(Attach as Annex 03)
<b>Authentication of Signatory</b>	(Attach original with form of bid & a photo copy as annex -04)
<b>Value of Construction works performed (Attach copy of Audited Financial Report)</b>	(Attach as Annex 05)
year 2020/2021	
Year 2019/2020	
Year 2018/2019	

### Details of Contract works in hand (Attach as annex 06)

Specialty	Name of the Contract	Name of the Client	Initial Contract Amount (Rs.)	Outstanding Work (Rs.)	Expected date of completion
<b>Highways*</b>					
<b>Bridges*</b>					
<b>Buildings*</b>					
<b>Irrigation*</b>					
<b>#</b>					
<b>Total</b>					

\* Add additional rows to include all the current projects if needed

# Provide additional specialty, to include all the current projects

**Note – The bidders who do not provide all contract commitment shall be treated as non-responsive according to the clause 3.3 of ITB**

### Financial Data

**As per Latest Audited Financial Statement**

<b>1</b>	<b>Current Assets</b>	
<b>2</b>	<b>Current Liabilities</b>	
<b>3</b>	<b>Working Capital (1-2)</b>	
<b>4</b>	<b>Value of Outstanding work in hand</b>	
<b>5</b>	<b>Line of Credit **</b>	
<b>*6</b>	<b>Available Liquid Asset {3 - (0.1) x 4+5}</b>	

\* This amount shall be not less than the amount given in clause 4.4 of ITB

\*\* Line of credit if provided shall strictly be as per the form given in Section -9.  
(Attach as annex 07)

**Similar Work Experience, Construction Equipment Proposed and Qualification & Experience of Key staff**

<b>Similar work completed in last 05 years</b> ( Attach LOA, Completion Certificate, documents to confirming similarity of work)	Value..... Year..... Employer ..... Completed Date ..... Description of work ..... <p style="text-align: right;">(Attach as annex-08)</p>
<b>Major Items of Construction Equipment Proposed</b> (Attach as annex-09)	1. Type.....Capacity..... 2. Type.....Capacity..... 3. Type.....Capacity..... 4. Type.....Capacity..... 5. Type.....Capacity.....
<b>Qualification and Experience of Key staff to be attached to the project</b> Attach details of key personal CVs. Separately, proposed to be at site for supervision.  (Attach as annex-10)	Technical 1. 2. 3. Managerial 1 2 3

**Signature of the Bidder: .....**

**SECTION – 5: SCHEDULE**

**Bidding Data and Contract Data**

# BIDDING DATA

## Clause 1, Scope of Bid

### Clause 1.1

- d) Employer is the Road Development Authority established by the Act No.73 of 1981.
- e) Address of the Employer is: *Director General , Road Development Authority  
1<sup>st</sup> Floor, “Maganeguma Mahamedura”,  
216, Denzil Kobbekaduwa Mawatha, Battaramulla.  
Telephone: 0112862795, Fax: 0112872272*
- E-mail: gmo@ rda.gov.lk*
- f) The works consists of Construction of Deloluwa Makuluwathenna Bridge,  
Dehiowita  
RDA/Sab/Keg/Ruwan/GSP/CECB/17

### Clause 1.2

Time for completion is 120 calendar days from the Start Date.

### Clause 1.3

- a) The Bidding Documents shall be inspected from Additional Secretary (Engineering), Ministry of Highways, 7th Floor, “Maganeguma Mahamedura”, Denzil Kobbekaduwa Mawatha, Battaramulla or from Provincial Director (Sabaragamuwa), Road Development Authority, Rathnapura 21/10/2021 to 05/11/2021
- b) The non-refundable tender fee is **Rs. 2,000/-** can be paid by depositing cash to the following account
- |                   |                                    |
|-------------------|------------------------------------|
| a. Account name   | : Secretary – Ministry of Highways |
| b. Account number | : 0007040370                       |
| c. Bank Name      | : Bank of Ceylon- Battaramulla.    |
- c) The Bidding Documents shall be collected during working hours from *09.00 Hrs to 15.00 Hrs* from the office of the Additional Secretary (Engineering), Ministry of Highways, 7<sup>th</sup> Floor, “Maganeguma Mahamedura”, Denzil Kobbekaduwa Mawatha, Battaramulla or Provincial Director (Sabaragamuwa), Road Development Authority, Rathnapura from 21/10/2021 until 05/11/2021.

## Clause 2. Source of Funds

### Clause 2.1

The source of funds is from the Ministry of Highways.

## Clause 3, Eligible Bidders

### Clause 3.1

The bidder shall be currently registered with the Institute for Construction Industry Development Authority (CIDA) in **C7/C6 grades in Highways / Bridges specialty.**

## Clause 4, qualification of the Bidder

### Clause 4.1

"Bidder shall provide in Section 4, form of Bid and Qualification Information pertaining to the following:

- a. CIDA registration particulars

- Registration number
  - Grade
  - Specialty
  - Expiry Date
- b. NCASL membership
    - Membership number
    - Expiry date
  - c. VAT registration number,
  - d. Construction Programme with critical path and cash flow forecast.
  - e. Legal status of the bidder (sole proprietor, Partnership, Company etc.)
  - f. Authentication or signatory (written Power of Attorney)
  - g. Total monetary Value of construction work performed for each of the last five years.
  - h. Experience in works of a similar nature c for each of the last ten years
  - i. Major items of construction equipment proposed to carry out the Contract
  - j. Qualification and experience of key site management and technical personnel proposed for the Contract ;
  - k. A description and value of work, which the bidder proposes to sub-contract, together with the name and address of the proposed sub-contractors.
  - l. Evidence of adequacy of working capital for this contract;
  - m. Authority to seek references from the bidder's bankers;
  - n. Any other relevant data

#### **Clause 4.2**

\* Average annual volume of construction work performed in any of the last five years shall be at least Rs. 8 Million

\* The minimum amount of liquid Assets and / or credit facilities net of other contractual commitments and exclusive of any advance payment which may be made under the contract shall be not less than Rs.2.7 Million

## C. PREPARATION OF BID (Instructions to Bidders)

### **ITB Clause 11, Language of Bid**

The language of the Bid shall be English.

### **Clause 13, Bid Prices**

Price adjustment is not applicable.

### **Clause 15, Bid Validity**

The bid shall be valid for 63days from the time of closing date of the Bid

### **Clause 16, Bid Security**

The amount of Bid Security shall be Rs. 80,000/-

Bid security shall be valid up to 28 Calendar days beyond the validity of the bid.

### **Clause 17, Pre-Bid Meeting**

The pre-bid meeting will be held at the office of the Provincial Director (Sabaragamuwa), Road Development Authority, Rathnapura . ( Tel No. 045- 2222608, Fax No. 045-2222471) at 10.00 hrs on 01/11/2021 and site visit will be arranged on the same day if necessary.

**D: SUBMISSION OF BID**

**Clause 19, Sealing and Marking of Bid**

**Clause 19.2**

(a) Chairman, Ministry Procurement Committee 2, C/o Additional Secretary (Engineering), Ministry of Highways, 7<sup>th</sup> Floor, “Maganeguma Mahamedura”, Denzil Kobbekaduwa Mawatha, Battaramulla

(b) Construction of Deloluwa Makuluwathenna Bridge, Dehiowita  
Contract No. is RDA/Sab/Keg/Ruwan/GSP/CECB/17

The location of work is Deraniyagala Electorate, Kegalle District.

**Clause 20, Deadline for submission of Bid**

The deadline for submission of bids shall be 14.00 hours on 08/11/2021.

**Clause 26, Correction of Errors**

- (c) Not modified
- (d) Sub Clause 26(d) is applicable.

**Clause 31, Performance Security**

The Standard Form of Performance security shall be an unconditional, on demand guarantee issued by a reputable bank in Sri Lanka or any other organization approved by the Treasury for this purpose.

The amount of Performance Security is 5% (Five percent) of the Initial Contract Price.

**Clause 32 Advance payment**

Advance payment of 20% of the initial contract sum less contingencies and provisional sums would be made in two equal installments. The second installment would be paid only after establishing that the first installment of the advance payment has been used exclusively for mobilization. The advance Payment guarantee shall only be from a Bank acceptable to the employer.

**Clause 33, Adjudicator**

The Adjudicator proposed by the Employer is the Institution of Engineers Sri Lanka

Appointing Authority for the Adjudicator shall be the Institution of Engineers Sri Lanka

Name of the Adjudicator is the person appointed by the Institution of Engineers Sri Lanka

Hourly rate 2,500/- (All inclusive) & Reimbursable cost Rs. 1,000/-



## CONTRACT DATA

The Name of the Contract: - Construction of Deloluwa Makuluwathenna Bridge, Dehiowita

Contract Number :- RDA/Sab/Keg/Ruwan/GSP/CECB/17

g) 1.1.8 The Employer :- *Director General , Road Development Authority, 1<sup>st</sup> Floor, "Maganeguma Mahamedura", 216, Denzil Kobbekaduwa Mawatha, Battaramulla. Telephone: 0112862795, Fax: 0112872272*

1.1.10 The Engineer for the Contract : Central Engineering Consultancy Bureau (CECB)

Engineer's Representative: Will be notified later

1.1.12 The Start Date shall be **14** calendar days from the receipt of the Letter of Acceptance.

1.1.14 Intended Completion Date 120 calendar days from start date.

1.1.19 Site is located at Deraniyagala electorate, Kegalle.

1.1.21 Construction of Deloluwa Makuluwathenna Bridge, Dehiowita

4.2 Schedule of Key Personnel: (Directly involved in the project)

Minimum persons with qualifications and experience to be defined,

- |    |                         |  |
|----|-------------------------|--|
| a. | Technical               | Project Manager with B.Sc Civil Eng. & 2 years working experience in similar Nature.   |
| b. | Contract Administration | Technical Supervisors with 4 years experience,<br>Quantity Surveyor with 3 years working experience other Contractors: Public Utility Agencies |

4.4 The Performance Security shall be 5% percent of the Initial Contract Price and shall be issued by a Bank acceptable to the Employer If one bidder will be selected as substantially responsive lowest evaluated bidder for both contracts, then the performance security will increase by another 3%(three percent, totally 8%) from the initial contract price for each contract

6.2 The Contractor shall submit a Programme for the Works within 14 Calendar days of the days from the date of Letter of Acceptance.

Contractor shall work only during normal working days unless otherwise agreed with the Engineer or in unusual circumstances where the safety of the public or work is in jeopardy. Holidays declared by the RDA shall be treated as non-working days.

6.4 The liquidated damages for the whole of the Works shall be **Rs.2,600.00** per Day  
The maximum amount of Liquidated Damages for the whole of the works shall be 10% (ten percent) of the Initial Contract Price.

8.1 The Defects Liability Period is **365** days

9.2 Engineer may order variations up to a total cumulative value of not exceeding the contingencies provided in the priced BOQ.

10.3 Replace the first sentence of Clause 10.3 “The Employer shall pay 56 date of each certificate” with the following.

“The Employer shall pay the Contractor the amounts certified by the Engineer within 54 days of the date of each certificate

10.5 The retention from each payment shall be 10% percent of the certified work done. The limit of retention shall be 5 % of the Initial Contract Price.

10.10 Price Adjustment

Price fluctuation is to be paid using simplified formula method of ICTAD under all civil works category.

10.12 Replace the Sub-clause 10.12 with the following: -

‘The Employer shall make advance payment to the Contractor in an amount equivalent to 20% of the Initial Contract Price less contingencies less Provisional Sums, Lump sum, Day works & within 14 Days after furnishing of an unconditional guarantee in a form and by a bank acceptable to the Employer or from the Construction Guarantee Fund. The guarantee shall remain effective until the advance payment has been repaid, but the amount of the guarantee shall be progressively reduced by the amounts repaid by the Contractor. Interest will not be charged on the advance payment.

Advance Payment would be made in two equal installments. The second Installment would be paid only after establishing that the first installment of the advance payment has been used exclusively for mobilization as per Cl. 10.12 and submission and approval of detailed construction programme. It should be make sure that Interest will not be paid for delaying of advance payments

13.1 The minimum insurance covers shall be:

- The minimum cover for insurance of the Works, Temporary Works and of Plant and Materials is 110% of the Initial Contract price.
- The minimum for insurance of other property is Rs. 1 Million per occurrence with the third party, number of occurrences unlimited.

The minimum cover for personal injury or death,

- For the Contractor’s workmen is Rs. 300,000/= per event
- Contractor’s employees other than workmen is Rs. 500,000/= per event
- For third party and employees of the Employer and other persons engaged by the Employer is Rs. 500,000/= per event

For all the above the number of occurrence shall unlimited.

The insurance cover shall be valid from the Start Date to the end of the Defects Liability Period.

14.2. Adjudicator

The Adjudicator proposed by the Employer is the Institution of Engineers Sri Lanka  
Appointing Authority for the Adjudicator shall be the Institution of Engineers Sri Lanka  
Name of the Adjudicator is the person appointed by the Institution of Engineers Sri Lanka

Hourly rate 2,500/- (All inclusive) & Reimbursable cost Rs. 1,000/

## **120 AS BUILT DRAWINGS**

### **120.1 Description**

The work shall consist of preparation of As Built Drawings necessary for performance of the completion of the work covered by the Contract, the Contractor shall supply them by the dates stated in the Contract Data.

The Contractor shall retain, at his sole expense, a qualified engineer for appropriate on site construction inspections to ensure that all improvements as set forth required, pursuant to RDA standards and specification, and as-built shall be provided. The contractor shall certify, in writing, to the Engineer that the improvements were done in compliance with the approved plan or agreement pursuant to RDA Standards & Specifications and as-built shall be provided.

Field managed record drawings should be provided to the Engineer with indicating additions and deletions for approval before preparation of the final as-built Drawings.

The following requirements shall be applied to each as-built drawing developed for the project and a hard copy together with an electronic AutoCAD drawing file format on CD shall submit for the Engineer.

### **120.2 Construction Requirement**

The following items shall be required for all "As-Built Drawings.

- (a) All as-built for projects are required to be on 24" x 36" or similar size of construction drawings and shall bear the name and address, of the person who preparing the drawings and the date the as-built data is added to the original via the revision block. Electronic Auto CAD drawing files, based on the GPS coordinate, are also required (if the construction drawings are prepared based on GPS coordinates). Surveyor's/Engineer's statement (with embossed or wet seal and with an original signature on each sheet) shall verify that as-built drawings reflect the true conditions in the field.
- (b) Contractor's statement (with an original signature on each sheet) shall verify that all construction specifications and product qualities have been met or exceeded.
- (c) "AS BUILT DRAWINGS" of "RECORD DRAWING" shall be clearly labelled on each sheet.
- (d) If the details of under-ground service lines (Water, Sewerage, ducts &etc) are available needs to be included to the as-built drawings on the approval of Engineer
- (e) The location and elevation of the benchmark referenced will be shown on the drawing. If the reference benchmark is within the project, then a complete description of its location will be provided to assist in future locating.
- (f) Survey data, relative to the GPS coordinate grid, on right-of-way monuments installed or encountered within the project
- (g) Note any changes to the alignment either vertically or horizontally of curb & gutter sidewalk, pavers or any other surface improvement.

### **120.3 Measurement & Payments**

No payment shall pay for the preparation of As built drawings. If the Contractor does not supply the As Built Drawings by the dates stated in the contract data, or they do not receive the Engineer's approval, the Engineer shall withhold the release of Final payment of the Contract.

## **SECTION – 6: SPECIFICATIONS**

- **Standard Specification**
- **Particular Application**

## **GENERAL SPECIFICATION**

The Standard Specifications comprise 'Standard Specifications for Construction and Maintenance of Roads and Bridges' prepared by Road Development Authority and printed in 1989 shall be used.

Bidders who are not in possession of this publication can purchase it from the CIDA.

The 'Standard Specifications for Construction and Maintenance of Roads and Bridges' issued under the authority of the General Manager of the Road Development Authority and published by the Institute of Construction Training and Development under publication number SCA/5. The cover page of this publication is illustrated here for reference.

## **PARTICULAR APPLICATION**

This Particular Application should be read in conjunction with the Standard Specifications for Construction and Maintenance of Roads and Bridges, prepared by Road Development Authority and printed in 1989 or CIDA Publication No SCA/5 printed in 2008.

The Particular Application endeavor to deliver the requirements comprehensively and cover the full extent of the works referred to. Despite, the sections they apply shall be read in conjunction with the Standard Specifications for requirements of the similar products and works if not specified.

Where there is an ambiguity or discrepancy between the Particular Application and the Standard Specifications, the Particular Application shall prevail.

**PRELIMINARIES & GENERAL**

**1.1 MOBILIZATION AND DEMOBILIZATION OF PLANT AND EQUIPMENT**

The Contractor shall submit to the Engineer within 14 days from the date of Letter of Award his mobilization and demobilization plan for equipment, plant and machinery required for the Project. Plan shall include the location of plant, machinery and equipment and mode of transport. Engineer shall approve the mobilization and demobilization plan and payment shall be based on schedule of mobilization.

**Payment**

Payment shall be made according to the schedule submitted by bidder and within the lump sum amount agreed in the Bill of Quantities.

<b>Item No</b>	<b>Description</b>	<b>Pay Unit</b>
P-001	Allow for Mobilization and Demobilization of Contractor's facilities, plant and equipment	L.S.

**1.4 ALLOW SUM FOR ENVIRONMENTAL MONITORING AND MITIGATION WORK.**

The Contractor shall provide an access plan that outlines the proposed access route(s), types of equipment to be used for various phases and locations/sizes of lay-down areas in order to prevent/minimize disturbance to vegetation and soils if necessary. The Contractor shall provide details of the containment systems proposed for use in preventing any debris from entering the Cascade River during break-up and removal of the south abutment and during construction/installation of the bridge as per the instruction given by the Engineer. The Contractor shall provide an Emergency Response Plan that outlines procedures to follow in the case of a spill or other type of emergency when needed. The Contractor shall provide an dust and noise preventing plan in the site during the construction. All demolition, construction debris and other waste materials will be disposed of at an approved landfill facility outside the park. Vegetation removal will be minimized as much as possible, especially in riparian areas. No excavation or removal of material from the riverbed will be allowed. The site will be secured against erosion during any periods of construction inactivity or shutdown. If blasting is proposed in order to break up the south abutment, this must be done in accordance with the relevant DFO Measures to Avoid Harm to Fish and Fish Habitat. All other work for the bridge is to occur above the wetted stream and in a manner that minimizes disturbances to the banks of the watercourse. Machinery is to arrive on site in a clean condition and is to be maintained free of fluid leaks. Machinery is to be washed, refueled and serviced and fuel is to be stored at least 100 m away from the river to prevent any deleterious substance from entering the water. Equipment and materials lay down areas will use existing trails, roads and hard surfaces wherever possible to avoid disturbance to native vegetation, especially riparian vegetation.

**Payment**

Payment shall be made at the unit price as contained in the BOQ

<b>Item No</b>	<b>Description</b>	<b>Pay Unit</b>
P-002	Allow sum for Environmental monitoring and mitigation work	L.S.

**1.11 DISMENTLE THE EXISTING MASSONARY STRUCTURES, CONCRETE STRUCTURES, STEEL STRUCTURES & CULVERT PIPES.**

**Measurement**

Dismantle & removal of existing structures shall be measured as the Provisional sum for satisfactory dismantled and removed of existing structures.

**Payment**

Payment shall be made as Provisional sum. The price shall be full compensation for all materials and labor required to perform the work described.

<b>Item No</b>	<b>Description</b>	<b>Pay Unit</b>
<b>P-003</b>	Dismantle the existing masonry structures, concrete Structures, steel structures & culvert pipes	<b>P.S.</b>

**1.12 ALLOW SUM FOR SURVEYING, INVESTIGATION & DESIGN (PREPARATION OF SHOP DRAWINGS)**

**SURVEYING**

Establishment of TBMs and determination of its Horizontal coordinates (N, E) and Zenith (Z) value of the control points to be done by arbiter to site. TBM shall be established away from the proposed site but shall not too far to the site. Having established X, Y, Z coordinates of all control points the surveyor shall proceed with the detail surveying.

The surveyor shall have kept hand written survey notes for all the observations of detail survey. Detail survey shall have cover at least 50m length either side along the road or up to exiting road from proposed bridge location with corridor of 15m either sides and 25m length either side on waterway from the proposed bridge center. All points taken on features and structures should record their North and East coordinates and Elevations. For features and structures/buildings partly falling within the defined corridor, it must be fully surveyed to obtain closed geometries. The Contractor shall provide the relevant computerized drawing database in a good quality CD.

Initially contractor shall excavate up to foundation bottom level of the abutment, after that contractor should carried out soil investigation (Using mackintosh test or Manual SPT) with the approval of Engineer. If soil condition is not in satisfactory level, Engineer has to propose the suitable solution accordingly. After finalizing the dimension and other consideration of the bridge contractor shall finalize the preparation of the shop drawing and get the approval from Engineer.

**Payment**

Payment shall be made from the pay item in the Bill of Quantities.

<b>Item No.</b>	<b>Description</b>	<b>Pay Unit</b>
<b>P-004</b>	Allow sum for Surveying, Investigation & Design (Preparation of Shop Drawings)	<b>P.S</b>

**1.13 ALLOW SUM FOR TREES PLANTAION & MAINTAINANCE**

Planting trees should be selected according to the site's typology, the hardness of the tree species, and the ability of the tree species to improve drainage, trap dust, and reduce surface runoff. Selection criteria are based on the medicinal, nutritional, economic and ecological value of the trees, as well as their adaptability, the cultural values associated with specific tree species, and their ability to absorb carbon dioxide. Different tree



planting designs can be applied depending on the availability of space. The general guidance for row plantings is to plant larger trees at 3 to 5 m apart between two trees. Single row planting only be used on where space is limited. The planting area has to be shallow and wide to suit the development of roots, because most of the roots grow within the upper 12 inches of the soil.

Planting holes should be dug 30 cm x 30 cm, 45 cm x 45 cm, or 60 cm x 60 cm (especially in dry areas) for planning trees. The dimensions of the hole will depend on the size of the seedling. The Contractor shall maintain the plants during the construction period & through the defect liability period.

**Payment**

Payment shall be made from the pay item in the Bill of Quantities.

<b>Item No.</b>	<b>Description</b>
<b>Pay Unit</b>	

<b>P-004 A</b>	Allow sum for Tree Plantation & maintenance
	<b>P.S.</b>

<b>Description</b>
<b>Pay Unit</b>

<b>P 004 H</b>	Maintain site office for the site Engineer
<b>Month</b>	

**ROADWAY EXCAVATION, HARD ROCK USING CHEMICAL**

Location of control blasting will be limited to selected area bound within the Right of way (ROW), approved by the Engineer. After soil excavation, measurements or cross sections shall be taken to quantify the work done. Before the commencement of the work, the Engineer shall be notified via written request letter to identify the area where rock be blasted. Accordingly, the Engineer will inspect the area for releasing hold point before commencement of the work.

Rock will be drilled using handheld drilling machines which are pneumatically operated. Holes should be drilled no further than 15-30cm apart. Recommended hole diameter 38mm -50mm. Dril 80-90% of the depth depending on the type of rock/material to be removed. Use rubber gloves and safety glasses while mixing the materials.

**Payment;** Payment shall be made from the pay item in the Bill of Quantities.

<b>Item No.</b>	<b>Description</b>	<b>Pay</b>
<b>Unit</b>		

<b>P-005</b>	Roadway excavation, hard rock using Chemical
<b>Cu.m</b>	

**4. A.8 SUPPLYING GEOTEXTILE FOR FOUNDATION BASE AS NECESSARY**

**Payment**

Payment shall be made from the pay item in the Bill of Quantities.

<b>Item No.</b>	<b>Description</b>	<b>Pay</b>
<b>Unit</b>		
<b>P-005A</b>	Supply geo-textile for foundation base as necessary	<b>Sq.m</b>

**A.9 SUPPLYING & COMPACTING ABC FOR FOUNDATION BASE AS NECESSARY**

**Payment;** Payment shall be made from the pay item in the Bill of Quantities.

<b>Item No.</b>	<b>Description</b>	<b>Pay</b>
<b>Unit</b>		
<b>P-006</b>	Supply & compacting ABC for foundation base as necessary	<b>Cu.m</b>

**4. A.10 BOULDER PACKING FOR FOUNDATION BASE AS NECESSARY**

**Payment**

Payment shall be made from the pay item in the Bill of Quantities .

<b>Item No.</b>	<b>Description</b>	<b>Pay</b>
<b>Unit</b>		
<b>P-007</b>	Boulder packing for foundation base as necessary	<b>Cu.m</b>

**5.1.1 FABRICATION OF STEEL SUPERSTRUCTURE, LOADING, TRANSPORT AND UNLOADING STEEL SUPERSTRUCTURE. ERECTION OF STEEL BRIDGE SUPERSTRUCTURE SPAN AS SPECIFIED IN THE DRAWING.**

RDA issue the design & drawing. Contractor shall submit alternative design if given member sizes is not available. Weight of each member should be selected with 10% tolerance in weight. Contractor is not allowed to change the Configuration given in the drawing.

The Contractor shall prepare shop drawings for the fabrication of all members. All drawings should carry standard symbols as per BS 499. Complete information regarding location, type, size and extend of welds shall be clearly shown on the shop drawings.

Details of the procedure for fabrication and assembly shall be submitted by the Contractor with the fabrication program before commencement of fabrication. Structural steel shall conform to EN 10025 or equivalent standard. Bridge (including handrails) shall be hot dip galvanized in accordance to BS EN ISO 1461 or provided with equivalent painting according to EN ISO 12944-1. The bolted connections shall be designed as connections of friction type or shear type whichever is applicable. For main structural steel, pre-loaded HSFG bolts grade 10.9 shall be used, for secondary steel structures bolts of minimum grade 4.6 can be used. The Contractor shall, to the extent necessary carry out trial erection in his regular workshop.

The painting shall consist of the complete surface treatment including surface preparation and final protective coating of all structural steel parts. Clean surfaces shall be finished with two coats of water borne self-priming finished (acrylic type).

Contractor should arrange all vehicles and machineries for loading, transportation and unloading at the site location. All members except Main girders, transoms bracings and rails should be packed well and store in timber pallet boxes and shall ensure that during

transport there will be no distortion or damages to the steel work and its protective coating. Contractor is responsible for security and safeguard of all components after taking over of components during transport and store & erection at site

During erection, the parts shall be accurately assembled as shown in the approved drawings. The material shall be carefully handled so that no parts are bent, broken. All field rivets and bolts, the heads of such rivets and bolts, all welds and any surfaces from which the shop or first coat of paint has become worn off or has otherwise become defective, shall be cleaned and thoroughly covered in accordance with agreed repair procedures.

The Contractor shall undertake the Test in a planned and controlled manner to ensure that the quality requirements are achieved. The Contractor's Test Plan included in the QMS/CVS shall cover and Testing shall be in conformity with the British Standards Institution (BSI)

### **Payment**

Payment shall be made from the pay item in the Bill of Quantities.

<b>Item No</b>	<b>Description</b>	<b>Pay Unit</b>
<b>P-012</b>	Steel: Fabrication, Loading, Transport, Unloading, Erection span as specified in the drawing.	<b>P.S</b>

## **SECTION – 7: BILL OF QUANTITIES**

# **BILL OF QUANTITIES**

## **PREAMBLE**

1. The Bill of Quantities shall be read in conjunction with all other bidding documents.
2. General directions and descriptions of work or materials given elsewhere in the bidding Documents are not necessarily repeated in the Bills of Quantities. For the full meaning of each Item, reference should be made to the applicable passages in the bidding Documents.
3. The prices and rates entered by the Contractor in the Bill of Quantities shall be deemed to cover the complete and finished works in the final position as required by the bidding Documents, including, inter alia, all costs and expenses which may be required in and for the construction and maintenance of the works, together with all risks, liabilities, contingencies, insurance, sampling, testing, providing all necessary assistance to the Engineer and in general all obligations imposed or implied by the contract.
4. Without affecting the generality of the foregoing provisions the prices and rates entered by the contractor in the Bills of Quantities shall also include, inter alia, all costs and expenses involved with or arising from the following:
  - i The provision, storage, transport, handling, use, distribution and maintenance of all materials, plant, equipment, machinery and tools, including all costs, charges, dues demurrage or other outlays involved in carriage and importation.
  - ii The provision and maintenance of all staff and labour and their payment, accommodation, transport, fares and other requirements.
  - iii Setting out, including the location, construction and preservation of survey markers, measurement and supervision.
  - iv The provision, storage, transport, use, handling, distribution and maintenance of all consumable stores fuel, water and electricity including the requirements of the Engineer's Representative and his staff.
  - v The location, test proving, opening, operation, reinstatement of all quarries and borrow pits, as well as compensation and mining royalties costs associated with quarries and borrow pits or any other land the contractor may require additional to that provided free for the execution of the permanent works.
  - vi Sampling, the transport of samples, testing, the carrying out of trial sections of earthworks or payment and the checking of all information given by the Engineer.
  - vii Injury caused to the Works under Construction, Plant, Materials and consumable stores by weather.
  - viii Repairs to the Works either prior to or during the Period of maintenance.
  - ix Maintenance work as detailed in the Specifications and the Conditions of Contract and the maintenance of public amenities.
  - xi The supply of manufacturers test certificates.
  - xii The protection of mains and services, and cost of repairs in case of damage caused by the Contractor.
  - xiii Pumping and dewatering; the protection of excavation faces.
  - xiv The provision and maintenance of temporary diversions in order that through traffic flow shall remain unobstructed through the contract period and in general the provision of all temporary works required in connection with the works.
  - xv Insurance, custom duties, taxes(excluding VAT) levies, first aid, welfare and safety requirements and all other overheads and costs, protection of existing bridge in case of stage construction and profit.
5. A price or rate shall be entered against each Item in the Bills of Quantities whether quantities are stated or not. Item against which no price or rate is entered shall be deemed to be covered by the other prices or rates entered by the Contractor in the Bill of Quantities. The unit price or rate entered against any Item shall take Precedence over any miscalculation in the total sum against that Item. Where separate items have

not been provided in the Bill of Quantities for work shall be deemed to have been included in the other prices and rates.

6. The Quantities given in the Bill of Quantities are estimated only and are given to provide a basis for the tender. No guarantee is given for their accuracy and payments to Contractor will be based on the prices and rates quoted in the bills applied to measured quantities for work done.

The quantity for each Item of work executed by the Contractor in accordance with the Contract shall be measured net and no allowance will be made for waste, bulking, shrinkage decrease of volume due to compaction or the provision of working space.

7. The items in the Bills of Quantities are the general application to the whole of the works at any location on site or any part of the works as indicated in the bid documents or instructed by the Engineer's representative.
8. Tenders, which group several items together in the Bill of Quantities under one price, will not be accepted.
9. Items mentioned "Provisional" in the Bill of Quantities are not to be executed unless ordered by the Engineer. They may be expended wholly or in part or not at all as directed by the Engineer. Payments for Utility diversions will be made by the contractor to the CEB, SLT, NWS&DB or any other agency with the approval of the Engineer from the Provisional Sum in Item No 2.2. An Administrative charge of 10percent on the invoiced cost will be paid to the contractor. The contractor will obtain the estimated cost of the utility diversion from the respective utility agency and submit for the approval of the Engineer. The contractor will be responsible for the timely completion of the utility diversion. The client will assist the contractor in this regard.
10. Preliminary expenses which are not specifically mentioned in the document are expected to be included in the overhead component of the rates.
11. The Units of measurement described in the Bill of Quantities are Metric Units. Abbreviations in the Bill of Quantities are as follows: -

hrs	-	Hours
m	-	Linear Meter
m <sup>2</sup> /Sq.m	-	Square Meter
m <sup>3</sup> /Cu.m	-	Cubic Meter
Nos.	-	Numbers
L.S	-	Lump Sum
Mth.	-	Month
lt	-	Liter
kg.	-	Kilogramme
MT	-	Matrice Tonne

## DAYWORKS

1. The rates entered in the Schedule for Bill of Quantities shall form day works items for pricing extra work ordered to be done in accordance with the Contract.
2. The rates shall include all overheads and profit and all other costs of whatever nature necessary for and incidental to the performance of extra work whenever ordered and these rates required anywhere on the Site for the operation of plant the provision of labour or the provision of materials and shall be deemed to include inter alia:

Plant                                    Operation, maintenance, repairs, fuel, oils grease, hydraulic fluids, taxes, duties operator's wages and overtime, traveling time, transport supervision, administration costs related to the use of such plant.

Labour                                    Wages, overtime, bonuses, traveling time, hand tools, accommodation, fringe benefits, transport and supervision.

Materials                                Provision, transport, handling, wastage and storage.

In the case of Plant and labour, only time spent working shall be paid for.

For Day works required outside the Site area (which for these purposes shall mean all areas shown on the plans for permanent works and all areas of temporary works such as Contractor's and Engineer's camps, quarry, borrow pits and their access roads, diversion roads etc. ), the following should be chargeable :

Plant                                    :Self traveling : Actual travel time of and to place of stationing on the day of the work.

Transport :                            Traveling time of the places of transport (lorry, low loader etc.)

Labour                                    :Travel time for the means of transport used.

Materials :                            Traveling time for the means of transport used.

The rates shall apply only to such work, as the Engineer shall instruct in writing to be carried out as day works. All items should be priced.

## Summary of Bill of Quantity

**Construction of Deloluwa Makuluwathenna Bridge, Dehiowita**  
**Contract Number: RDA/Sab/Keg/Ruwan/GSP/CECB/17**

<i>Bill No</i>	<i>Description</i>		<i>Amounts / Rs.</i>
1	Preliminary & General		
2	Site Clearing		
3	Construction of Approach Road		
4	Construction of Bridge Sub-Structure		
5	Construction of Bridge Super-Structure		
6	Miscellaneous		
7	Day works		
<b>A</b>	<b>Sub Total-01</b>		
<b>B</b>	<b>Total of Provisional sums</b>		<b>249,478.00</b>
<b>C</b>	<b>Sub Total-02 without Provisional sums (A-B)</b>		
<i>D</i>	Discount if any	Amount in words	Amount in figures
		.....	
		.....	
		.....	
<b>E</b>	<b>Sub Total 03 (C-D)</b>		
<b>F</b>	<b>Sub Total 04 with provisional sums (B+E)</b>		
<b>G</b>	Allow for Physical Contingencies 10% (10% of F)		
<b>H</b>	Allow for Price Contingencies 2% (2% of F)		
<b>I</b>	<b>Bid Price (F+G+H) without VAT</b>		

Amount in word:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Name and address of bidder:

\_\_\_\_\_

\_\_\_\_\_

Signature: \_



ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT RS. Cts.
<b>BILL NO - 01 PRELIMINARY AND GENERAL</b>					
1.1	Allow for Mobilization and Demobilization of Contractors facilities,plant and equipment	LS	Item	Allow	
1.2	Provide all necessary Insurances	LS	Item	Allow	
1.3	Provide all necessary Bonds,Securities	LS	Item	Allow	
1.4	Allow sum for Environmental monitoring and mitigation work	LS	Item	Allow	
1.5	Allow sum for Construction of necessary cofferdams, shoring and bracing and their subsequent removal	LS	Item	Allow	
1.6	Allow sum for Dewatering	LS	Item	Allow	
1.7	Allow for traffic safety & control providing, erecting and maintaining barricades, road signs, markings, lights etc. (As per RDA Traffic control manual Part - 11)	PS	Item	Allow	129,600.00
1.8	Allow sum for temporary road diversion & maintenance	PS	Item	Allow	16,100.00
1.9	Provide & maintain Project Name Board (2 m x 1.0m)	PS	Item	Allow	21,960.00
1.11	Dismantle the Existing Massonary Structures, Concrete Structures, Steel Structures & Culvert pipes	PS	Item	Allow	22,308.00
1.12	Allow sum for Surveying, Investigation & Design ( Preparation of Shop Drawings)	PS	Item	Allow	55,000.00
1.13	Allow sum for Trees Plantation & maintainance	PS	Item	Allow	4,510.00
<b>SUB TOTAL BILL NO -01 PRELIMINARY AND GENERAL</b>					
<b>BILL NO - 02 SITE CLEARING</b>					
2.1	Clearing and grabbing inclusive of removing top soil to an average depth of 0.15m and backfilling/trenches caused by removal of stumps	Sq.m	100.00		
<b>SUB TOTAL BILL NO - 02 SITE CLEARING</b>					
<b>BILL NO - 03 CONSTRUCTION OF APPROCH ROAD</b>					
<b>EARTH WORKS</b>					
3.8	Embankment construction using barrow material Type I materials	Cu.m	15.00		
3.10	Trimming, levelling and compaction of original ground	Sq.m	100.00		
<b>CONCRETE SURFACING</b>					
3.22	Supply, laying & compacting Grade 30 Concrete layer including Formwork	Cu.m	13.50		
<b>GUARDSTONE FIXING</b>					
3.25	Supply & fixing Guardstones	Nos.	9.00		
<b>SUB TOTAL BILL NO -03 CONSTRUCTION OF APPROCH ROAD</b>					

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT RS. Cts.
<b>BILL NO - 04 CONSTRUCTION OF BRIDGE SUBSTRUCTURE</b>					
<b>4.A</b>	<b>CONSTRUCTION OF ABUTMENT &amp; WING WALLS</b>				
	<b>FOUNDATION,SUB STRUCTURE &amp; CAPPING BEAM</b>				
4.A.1	Excavation for structures, soil suitable for backfill	Cu.m.	0.94		
4.A.2	Excavation for structures, Soft rock	Cu.m	1.88		
4.A.4	Excavation for structures, Hard rock ( Using Explosive)	Cu.m	0.94		
4.A.5	Excavation for structures, unsuitable soil	Cu.m	33.88		
4.A.7	Granular Backfill for Structures	Cu.m	39.32		
	<b>Concrete for Structure</b>				
4.A.11	Concrete grade 15(19 mm) as screed in foundation	Cu.m.	1.62		
4.A.12	Concrete of grade 20 (40mm) in abutment , wing wall ( Mass Concrete wall)	Cu.m.	37.10		
4.A.14	Concrete of grade 25 (20mm) in abutment , wing wall Base ( Mass Concrete)	Cu.m.	26.02		
4.A.17	Concrete of grade 25(19mm) in Capping beams,ballast wall and curtain walls in Mass concrete Abutment	Cu.m.	17.46		
	<b>Formwork</b>				
4.A.20	Rough finish formwork for abutments & Wing walls Base	Sq.m	19.48		
4.A.22	Smooth finish formwork for abutment, wing walls, capping beams,ballast wall and curtain wall	Sq.m	183.09		
	<b>Reinforcement</b>				
4.A.24	Fabricating & laying tor steel r/f for abutments,wing walls, capping beams,ballast wall and curtain wall	Tonnes	1.77		
4.A.26	Supplying & fixing MS dowels, spliced and droved tailed with wedge at one end 20mm dia, 1m long, boring holes to 0.3m depth in fixing	Nos.	18.00		
	<b>Weep holes</b>				
4.A.27	Forming weep holes using type 400 PVC pipe of internal dia. Not less than 110mm	L.m	25.80		
	<b>Drainage &amp; Backfilling</b>				
4.A.28	Backfill using aggregate 50~200mm for dry stone lining behind abutment & wing walls	Cu.m	16.70		
4.A.29	Filter medium using aggregate 37.5mm behind abutment and wing walls	Cu.m	2.68		

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT RS. Cts.
4.A.30	Clay puddle laid under the porous backfill , behind abutment and wing wall	Sq.m	11.40		
<b>SUB TOTAL BILL NO -04 CONSTRUCTION OF BRIDGE SUBSTRUCTURE</b>					
<b>BILL NO - 05 BRIDGE SUPER STRUCTURE CONSTRUCTION</b>					
<b>5.2</b>	<b>Concrete PSC Beam Superstructure</b>				
5.2.2	Class A concrete of grade 25(19mm) in Footwalk	Cu.m	2.40		
	<b><u>Form work</u></b>				
5.2.19	Smooth finish form work for deck slab.	Sq.m	16.29		
	<b><u>Reinforcements</u></b>				
5.2.20	Fabricating & laying Tor steel reinforcement	Tonnes	0.10		
<b>5.3</b>	<b>Concrete Deck Slab</b>				
	<b>Concrete</b>				
5.3.1	Class A Concrete G25 (19mm) in deck slab & Parapet wall	Cu.m.	8.26		
	<b>Formwork</b>				
5.3.2	Smooth finish formwork for sides of deck slab & Parapet wall	Sq.m	28.17		
	<b>Reinforcement</b>				
5.3.3	Fabricating, laying & tying of tor steel r/f.	Tonnes	0.83		
<b>5.4</b>	<b><u>Miscellaneous</u></b>				
5.4.4	Supplying & fixing 50 mm dia. Type 400 PVC pipes as rain water outlets through deck as per drawing.	L.m	2.03		
5.4.7	Painting Bridge hand rail with weather shield Emulsion Paint Two coats	Sq.m.	24.71		
5.4.8	Stenciling and Numbering on Bridges	Nos	2.00		
<b>SUB TOTAL BILL NO -05 BRIDGE SUPER STRUCTURE CONSTRUCTION</b>					

<b>BILL NO - 07 DAY WORKS</b>					
<b>ITEM NO</b>	<b>DESCRIPTION</b>	<b>UNIT</b>	<b>QTY</b>	<b>RATE</b>	<b>AMOUNT RS. Cts.</b>
<b>7.1</b>	<b>Labour</b>				
7.1.1	Unskilled labour	Day	2.00		
7.1.2	Semi skilled labour	Day	2.00		
7.1.3	Skilled labour	Day	2.00		
7.1.4	Operators	Day	2.00		
	<b>Total cost of Labour</b>				
<b>7.2</b>	<b>Equipment</b>				
7.2.1	Backhoe loader - 2WD, 0.15 scoop capacity	Hrs	1.00		
7.2.2	Farm Tractor with 3T trailer	Hrs	5.00		
7.2.3	Water Bowser - 6000 ltrs	Hrs	2.00		
7.2.4	Concrete Mixer - 200ltrs (10/7)	Hrs	5.00		
7.2.5	Water pump - 2 inch	Hrs	10.00		
7.2.6	Porker vibrator (Petrol) - 1.8m.hour	Hrs	5.00		
7.2.7	Lorry 3 Ton - 3Ton	Km	25.00		
7.2.8	Plate Compactor - 80kg tamper plates	Hrs	2.00		
7.2.9	Excavator	Hrs	2.00		
	<b>Total cost of Equipment</b>				
<b>7.3</b>	<b>Materials</b>				
7.3.1	Cement - Ordinary	50kg	2.00		
7.3.2	Aggregate for concrete (19mm)	Cu.m.	1.00		
7.3.3	Sand	Cu.m.	1.00		
	<b>Total cost of Material</b>				

### Summary of Day works

<b>Description</b>	<b>Amount (Rs.)</b>
1. Labour	
2. Equipment	
3. Material	
<b>Total</b>	

## **SECTION – 8    DRAWING**

## DRAWINGS

No.	Description	Drawing No.	Nor. Of Drawings
1	Slab Single Span Bridge	DD/D/CP/RBP/MSLB/03	1
2	Typical Mass Concrete Retaining Wall	DD/D/CP/RBP/MR/01	1

## **SECTION – 9    STANDARD FORMS (BID)**

- Bid Security
- Affidavit for the Current Commitments
- Bank Letter Granting the Revolving Line of Credit

## FORM OF BID SECURITY

*[this Guarantee form shall be filled in accordance with the instructions indicated in brackets]*

.....  
...*[insert issuing agency's name, and address of issuing branch or office]*

h) **Beneficiary:** Director General , Road Development Authority  
1<sup>st</sup> Floor, "Maganeguma Mahamedura",  
216, Denzil Kobbekaduwa Mawatha, Battaramulla.

**Date:** .....*[insert (by issuing agency) date]*

**BID GUARANTEE No.:** .....*[insert (by issuing agency) number]*

We have been informed that .....*insert (by issuing agency) name of the Bidder]* ( hereinafter called "the Bidder") has submitted to you its bid dated ..... *[insert (by issuing agency) date]* (Hereinafter called "the Bid") for the execution of **Construction of Deloluwa Makuluwathenna Bridge, Dehiowita with Contract No: RDA/Sab/Keg/Ruwan/GSP/CECB/17**

Furthermore, we understand that, according to your conditions, Bids must be supported by a Bid Guarantee.

At the request of the Bidder, we .....*[insert name of issuing agency]* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of .....*[insert amount in figures]* .....*[insert amount in words]* upon receipt by us of your first demand in writing accompanied by a written statement stating that Bidder is in breach of its obligation(s) under the bid conditions, because the Bidder:

- i. has withdrawn its Bid during the period of bid validity specified; or
- ii. does not accept the correction of errors in accordance with the Instruction to Bidders (hereinafter "the ITB") of the IFB or
- iii. having been notified of the acceptance of its Bid by the Employer during the period of bid validity,
  - (i) fails or refuses to execute the Contract Form, if required, or
  - (ii) fails or refuses to furnish the Performance Security, in accordance with the ITB.

This Guarantee shall expire:

- (a) if the Bidder is the successful bidder, upon our receipt of copies of the Contract signed by the Bidder and of the Performance Security issued to you by the Bidder; or
- (b) if the Bidder is not successful bidder, upon the earlier of the successful bidder furnishing the performance security, otherwise it will remain in force up to .....*(insert date)*

Consequently, any demand for payment under this Guarantee must be received by us at the office on or before that date.

Signature and the Seal of the Guarantor:

Name of the Organization .....

Date: .....

Witness: .....



## FORM FOR AFFIDAVIT FOR THE CURRENT COMMITMENTS

i) Director General , Road Development Authority, 1<sup>st</sup> Floor, “Maganeguma Mahamedura”, 216, Denzil Kobbekaduwa Mawatha, Battaramulla

In accordance with the Clause 4.4 of the Instructions to Bidders, I (We) declare that the outstanding Contract Commitments of

(Name of the Bidder (s)) are as follows. I (We) further declare that all the outstanding contract commitments are listed below.

Specialty	Name of the Contract	Name of the Client	Initial Contract Amount (Rs.)	Outstanding Work (Rs.)
<b>Highways*</b>				
<b>Bridges*</b>				
<b>Buildings*</b>				
<b>Irrigation*</b>				
<b>#</b>				
<b>Total</b>				

.....  
Signature of the Bidder

The foregoing Affidavit having been duly read over and explained by me to the Affirmant and he having understood the contents of same, signed before me at

..... [Place], on this ..... 2021 [date]

.....  
Justice of The Peace

\* Add additional rows to include all the current projects if needed

# Add additional speciality to include all the current projects

Note –The bidders who do not provide all contract commitment shall be treated as non responsive according to the clause 3.3 of ITB

# FORM FROM THE BANK FOR GRANTING THE REVOLVING LINE OF CREDIT

[In Letterhead of the bank]

FROM : .....

TO: Director General , Road Development Authority, 1<sup>st</sup> Floor, “Maganeguma Mahamedura”, 216, Denzil Kobbekaduwa Mawatha, Battaramulla.

SUB: Letter from the bank for providing a line of credit in favour of .....<sup>1</sup> in case of award to them of works for the Contract of **Construction of Deloluwa Makuluwathenna Bridge, Dehiowita with Contract No: RDA/Sab/Keg/Ruwan/GSP/CECB/17**

Dear Sir,

We .....<sup>2</sup> bankers of .....<sup>3</sup> hereby agree to grant revolving line of credit for an amount of Sri Lanka Rupees ..... for the purpose of the execution of the Civil Work Contracts under the Contract of **Construction of Deloluwa Makuluwathenna Bridge, Dehiowita**

,under **Contract No: RDA/Sab/Keg/Ruwan/GSP/CECB/17**

. This revolving line of credit will be maintained until the works are taken over by the RDA.

## Signature and the Seal of the Bank:

Name.....  
Designation .....  
Name of the Organization .....  
Date: .....

## Witness:

Name ..... NIC No .....  
.....Signature .....  
Name ..... NIC No .....  
.....Signature .....

<sup>1</sup> Name of Beneficiary / Bidder

<sup>2</sup> Name of Bank

<sup>3</sup> Name of Beneficiary / Bidder

### CHECK LIST FOR BIDDERS

	ITB clause	Yes	Reference
<b>Form of Bid</b>			
Completed?			
Signed?			
No of addendum issued ( <u>taken to form of Bid</u> )			
<b>Bid security</b>			
Addressed to the Employer?			
Format as required?			
Issuing agency as specified?			
Amount as required?			
Validity 28 days beyond the validity of bid?			
<b>Qualification information</b>			
Copy of ICTAD Registration? (Registration No, Grade, Specialty, Expiry Date)			
Copy of VAT registration or a letter from Inland Revenue that the Bidder is not VAT registered?			
Authentication of for signature (Power of Attorney)?			
Certified Copy of Audited Financial Statements for the last five years? (Construction turn over for last five years; Current assets and current liabilities for last year)			
A letter from a <u>Bank</u> on the provision of credit facilities?			
The Affidavit For The Current Contractual Commitments?			
Construction Programme and Cash Flow Chart?			
Similar work completed in last 10 years			
Major items of construction equipment proposed			
Qualification and Experience of key staff			
<b>Addendum</b>			
Content of addendum (if any) taken in to account?			
<b>Bid package</b>			
All the documents given in ITB clause 12 enclosed in the original and copy?			