

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

MINISTRY OF HIGHWAYS

ROAD DEVELOPMENT AUTHORITY



**BIDDING DOCUMENT
FOR**

**CONSTRUCTION OF BRIDGE ACROSS THUDUWEGODA ELA,
WATTHEHENA BRIDGE BY REPLACING WITH A CONCRETE DECK,
BRIDGE NEAR WELLA WATHTHA, RAJAWATHTHA ALADENIYA
BRIDGE**

CONTRACT NO: RDA/South/Gall.Mt/GSP/CECB/32

BID SUBMITTED BY

.....

[Name of the Bidder]

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DETAILS OF PROJECT LOCATION

BRIDGE ACROSS THUDUWEGODA ELA



From LB Side



From R/B Side



From U/S Side



From D/S Side



District – Galle DS Division – Hikkaduwa EE Division – Galle

GPS Location of site: N – 6.14551 & E – 80.10577

WATTHEHENA BRIDGE BY REPLACING WITH A CONCRETE DECK



From LB Side



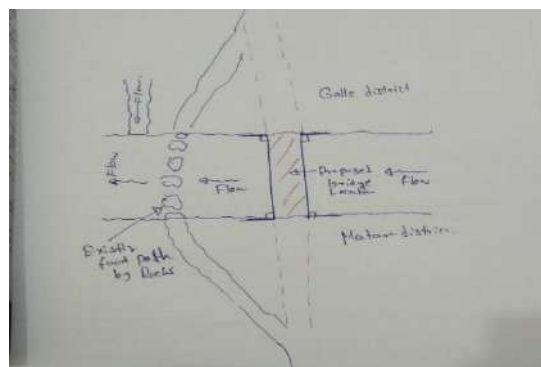
From RB Side



From US Side



From DS Side



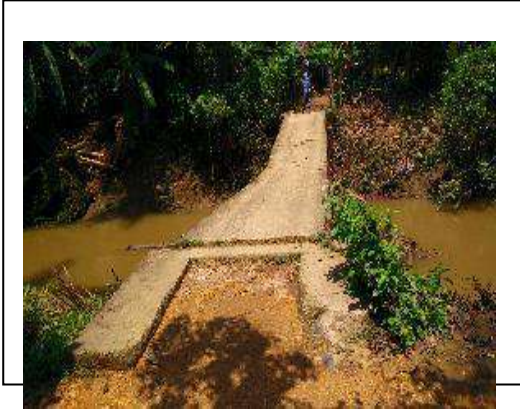
District – Matara

DS Division – Pitabeddara

EE Division – Deniyaya

GPS Location of site: N – 6.24589 & E – 80.43538

BRIDGE NEAR WELLA WATHTHA



From LB Side



From RB Side



From US Side



From DS Side

District – Matara

DS Division – Mulatiyana

EE Division – Hakmana

GPS Location of site: N – 6.1138 & E – 80.56214

RAJAWATHTHA ALADENIYA BRIDGE



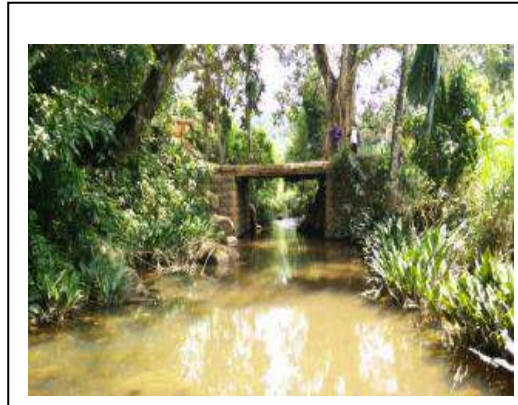
From LB Side



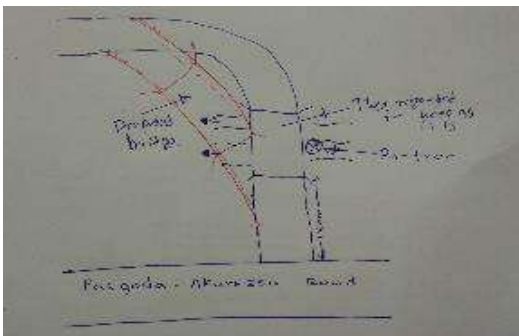
From RB Side



From US Side



From DS Side



District – Matara

DS Division – Pitabeddera

EE Division – Deniyaya

GPS Location of site: N – 6.063663 & E – 80.185374

INTRODUCTION

- This Bidding Document has two parts, namely, Volume 1 and Volume 2.
- The bidders are expected to buy the following Standard Bidding Document from the Construction Industry Development Authority (CIDA): -

STANDARD BIDDING DOCUMENT

PROCUREMENT OF WORKS

SECOND EDITION – JANUARY 2007 with **addendum issued in October 2009 by**

CIDA

- CIDA PUBLICATION NO. – CIDA/SBD/01
- This Bidding Document shall be read in conjunction with the above Standard Bidding Document.
- The Address of CIDA is

Construction Industry Development Authority

‘Savsiripaya’ 123, Wijerama Mawatha,

Colombo-07

VOLUME 1

VOLUME 1

| | | |
|---------|---|---------------------------|
| Section | 1 | Instruction to Bidders |
| Section | 2 | Standard Forms (Contract) |
| Section | 3 | Conditions of Contract |

Section - 1

Instruction to Bidders

The text of this 'Instructions to Bidders' is found in the 'Standard Bidding Document Procurement of Works' CIDA Publication No. CIDA/SBD/01 – Second Edition – January 2007 with Addendum issued in October 2009 by CIDA

This publication is copyright and bidders, if they do not already possess a copy, may obtain it from:
Construction Industry Development Authority
'Savsiripaya'
123, Wijerama Mawatha
Colombo-07

This has to be read in conjunction with Addendum of SBD/01 issued in October 2009 by CIDA and Section – 5 – 'Bidding Data and Contract Data' of this Bidding Document. Wherever the Clauses of the Section -1 – 'Instruction to Bidders' have to be modified and/or supplemented, it is done through the text in the Section -5 – 'Bidding Data and Contract Data'.

Section - 2

Standard Forms (Contract)

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

FORM OF LETTER OF ACCEPTANCE

_____ [Date]

[Contractor's Name & Address]

This is to notify you that your bid dated for the construction and remedying the defects of the CONSTRUCTION OF BRIDGE ACROSS THUDUWEGODA ELA, WATHTHEHENA BRIDGE BY REPLACING WITH A CONCRETE DECK, BRIDGE NEAR WELLAWATHTHA, RAJAWATHTHA ALADENIYA BRIDGE, under Contract No: RDA/South/Gall.Mt/GSP/CECB/32 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 Start Date shall be

The amount of Performance Security is.....

The Performance Security shall be submitted on or before

Director General
Road Development Authority

FORM OF PERFORMANCE SECURITY

(Unconditional)

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

Beneficiary: Director General, Road Development Authority (hereinafter called and referred to as "the Employer") 1st 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 RDA/South/Gall.Mt/GSP/CECB/32 dated
..... with you, for the Construction of Bridge Across Thuduwegoda Ela, Waththehena Bridge by Replacing
With a Concrete Deck, Bridge Near Wellawaththa, Rajawaththa Aladeniya Bridge, (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 of2021 [28 days beyond the expiry of the
intended completion date] and any demand for payment under it must be received by us at this office on or
before that date.

Name, Signature and the Seal of the Agency:

Name of the Organization

Designation

Date:

Witness:

Name NIC NoSignature.....

Name NIC NoSignature.....

FORM OF AGREEMENT

This Agreement made on the [day] of [Month] 2021, between the Road Development Authority established by the Road Development Authority Act No. 73 of 1981, situated at “Maganeguma Mahamedura”, 216, Denzil Kobbekaduwa Mawatha, Battaramulla, (hereinafter called and referred to as “ the Employer”), of the one part, and.....[name and address of Contractor])(hereinafter called and referred to as “the Contractor”), of the other part:

Whereas the Employer desires that the Contractor executes the ‘Construction of Bridge Across Thuduwegoda Ela, Waththehena Bridge by Replacing With a Concrete Deck, Bridge Near Wellawaththa, Rajawaththa Aladeniya Bridge’ by replacing with a concrete deck under Contract No: RDA/South/Gall.Mt/GSP/CECB/32(hereinafter called and referred to as “the Works”) and the Employer has accepted the Bid by the Contractor for the execution and completion of such Works and 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 provisions of the Contract.
3. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

In Witness whereof the parties hereto have caused this Agreement to be executed on the day and year aforementioned in accordance with laws of Sri Lanka.

.....
Name:

Authorized Signatory of Contractor

Common Seal

In the presence of Witness:

.....
Name

NIC No.

Address

.....
Chairmen
Road Development Authority

On behalf of the Employer

In the presence of Witness:

.....
Name

Address

FORM OF ADVANCE PAYMENT SECURITY

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

Beneficiary: Director General, Road Development Authority (hereinafter called and referred to as “the Employer”) 1st floor, “Maganeguma Mahamedura”, 216, Denzil Kobbekaduwa Mawatha, Battaramulla.

Date:

ADVANCE PAYMENT GUARANTEE No.:.....

We have been informed that [name of Contractor](Hereinafter called, “the Contractor”) has entered into Contract No: RDA/South/Gall.Mt/GSP/CECB/32 dated2021, with you, for the “Construction of Bridge Across Thuduwegoda Ela, Waththehena Bridge by Replacing With a Concrete Deck, Bridge Near Wellawaththa, Rajawaththa Aladeniya Bridge” by replacing with a concrete deck” (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 repayment 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 Time for Completion]

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

Name, Signature and the Seal of the Agency:

Designation

Name of the Organization

Date:

Witness:

Name NIC No Signature

Name NIC No Signature

FORM OF RETENTION MONEY GUARANTEE

(Issuing Agency's Name and Address of Issuing Branch or Office)

Beneficiary: Director General, Road Development Authority, 1st Floor, Maganeguma Mahamedura",216, Denzil Kobbekaduwa Mawatha, Battaramulla.

Date: -----

RETENTION MONEY GUARANTEE No.:-----

we have been informed that -----(name of Contractor) (hereinafter called "the Contractor") had entered into Contract No: RDA/South/Gall.Mt/GSP/CECB/32 dated2021, with you, for the execution of 'Construction of Bridge Across Thuduwegoda Ela, Waththehena Bridge by Replacing With a Concrete Deck, Bridge Near Wellawaththa, Rajawaththa Aladeniya Bridge' by replacing with a concrete deck, hereinafter called "the Contract") Furthermore, we understand that, according to the Conditions of Contract, when the works have been taken over and the first half of the Retention Money has been certified for payment, payment of the second half of the Retention Money may be made against a Retention Money guarantee.

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 under the Contract because the Contractor has not attended to the defects in accordance with the Contract.

The guarantee shall expire, at the latest, ----- (insert 28 days after the end of the Defects Notification Period). Consequently, any demand for payment under this guarantee must be received by us at this office on or before that date.

Name, Signature and the Seal of the Agency:

Name of the Organization

Designation

Date:

Witness:

Name NIC No Signature

Name NIC No Signature

Section - 3

Conditions of Contract

The text of this 'Conditions of Contract' is found in the
'Standard Bidding Document Procurement of Works'

CIDA Publication No. CIDA/SBD/01 – Second Edition – January 2007 with Addendum issued in
October 2009

This publication is copyright and bidders, if they do not already possess a copy, may obtain it from:

Construction Industry Development Authority

'Savsiripaya'

123, Wijerama Mawatha

Colombo-07

This has to be read in conjunction with Addendum of SBD/01 issued in October 2009 by CIDA and
Section – 5 – 'Bidding Data and Contract Data' of this Bidding Document. Wherever the Clauses of
the Section -3 – 'Conditions of Contract Bidders' have to be modified and/or supplemented, it is
done through the text in the Section -5 – 'Bidding Data and Contract Data'.

VOLUME - 2

VOLUME 2

- Invitation for Bids
- Section 4 Form of Bid and Qualification Information
- Section 5 Bidding Data and Contract Data
- Section 6 Specifications
- Section 7 Bill of Quantities
- Section 8 Drawings
- Section 9 Standard Bid Forms

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

INVITATION FOR BIDS - 05

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 (Calendar Days) | CIDA Grade | Non-Refundable Fee | Bid Security (LKR.) |
|----------|---|--|-------------------------------|---|------------------------------------|---------------|--------------------|---------------------|
| 1 | RDA/N.Cent/ Kuru,Put/GS P/CECB/29 | 1. Bridge across Warawewa Spill Canal on Mahagalkaduwalla – Galawewa Road in Kurunegala | Kurunegala / Kurunegala | 58.33 | 270 | C4 & C3 | 12,000/- | 800,000/- |
| | | 2. Bridge in Kottukachchiya - Kachchimaduwa Road in Puttlam | Puttlam/ Puttlam | | | | | |
| 2 | RDA/N.West /Put/Put/GSP/ CECB/30 | Construction of Bridge Across MeeOya in Kaladiya - Muriyakulama road | Puttlam/ Puttlam | 76.89 | 365 | C4 & C3 | 16,000/- | 1,100,000/- |
| 3 | RDA/South/ Gall/Gall/GS P/CECB/31 | 1. Construction of Ahungalla Gallena Bridge | Galle/ Galle | 37.90 | 150 | C5 & C4 | 7,500/- | 550,000/- |
| | | 2. Construction of Bridge across Gintota Koppa Ela - Elabada Bridge | | | | | | |
| 4 | RDA/South/ Gall.Mt/GSP/ CECB/32 | 1. Construction of Bridge across Thuduwegoda Ela | Galle / Galle | 86.64 | 270 | C4 & C3 | 18,000/- | 1,250,000/- |
| | | 2. Construction of Bridge near Wellawaththa | Deniyaya / Matara | | | | | |
| | | 3. Construction of Rajawaththa Aladeniya Bridge | | | | | | |
| | | 4. Reconstruction of Waththehena Bridge by replacing with a concrete deck | | | | | | |
| 5 | RDA/Central/ N. Eliya/Hangu/G SP/CECB/33 | 1. Mada Arawa Bridge | Hanguranketha/ Nuwaraeliya | 33.00 | 210 | C4 & C3 | 6,500/- | 450,000/- |
| | | 2. Kehelwathupitiya Bridge | | | | | | |
| | | 3. Illagolla Bridge | | | | | | |
| 6 | RDA/West/K alu/Agala/GS P/CECB/34 | Construction of Bridge across Alternative Road connecting to Ihala Hewessa - Neluwa Road | Agalawatta / Kaluthara | 41.15 | 270 | C5 & C4 | 8,500/- | 600,000/- |

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. The regional preference and CIDA grade preference shall apply only for the contract packages where Engineer's Estimate is less than Rs. 50 Mn, 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 **Bridgeor 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, 7th Floor, "MaganegumaMahamadura", DenzilKobbakaduwaMawatha, 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, 7th Floor, "MaganegumaMahamadura", DenzilKobbakaduwaMawatha, Battaramulla** or relevant Provincial Director Office from **06th December 2021** until **22nd December 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. Pre-bid meeting will be held at the office of the relevant Provincial Director, Road Development Authority as specified in the bidding document at 10.00 a.m. on 17th December 2021 and Site visit will be arranged if necessary.
8. Bid shall be addressed to the **Chairman, Ministry Procurement Committee 2, C/o Additional Secretary (Engineering), Ministry of Highways, 7th Floor, "MaganegumaMahamedura", DenzilKobbekaduwaMawatha, Battaramulla** and can be submitted to the above addressor to the **Office of Provincial director of Road Development Authority of respective province** in **duplicate** on or before **14:00 hrs** on **23rd December 2021** together **with bid security** as described in the bidding document. **Late bids will be rejected.** Bid opening to be done **soon after the closing of bids** at the **Engineering Division, Ministry of Highways, 7th Floor, "MaganegumaMahamedura", DenzilKobbekaduwaMawatha, Battaramulla.**
9. 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,
7th Floor, MaganegumaMahamedura,
DenzilKobbekaduwaMawatha,
Battaramulla.
02.12.2021

Section - 4

Form of Bid and Qualification Information

FORM OF BID

CONSTRUCTION OF BRIDGE ACROSS THUDUWEGODA ELA, WATHTHEHENA BRIDGE BY REPLACING WITH A CONCRETE DECK, BRIDGE NEAR WELLAWATHTHA, RAJAWATHTHA ALADENIYA BRIDGE

UNDER Contract No: RDA/South/Gall.Mt/GSP/CECB/32

To: Director General,
Road Development Authority,

Gentlemen,

1. Having examined the Standard Bidding Document-Procurement of Works (ICTAD/SBD/01-Second Edition January 2007 with Addendum of SBD/01 issued in October 2009 by ICTAD) along with the Bidding Data, Contract Data, 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, Specifications, Drawings, Bill of Quantities and addenda Nos. for the sum of Sri Lankan Rupees*
.....
.....
..... (SLRs. *.) (The bid price shall include physical & Price Contingencies and provisional sums but excluding VAT) or such other sums as may be ascertained in accordance with the said Conditions.
2. We acknowledge that the Contract Data forms part of our Bid.
3. We undertake, if our Bid is accepted, to commence the Works as stipulated in the Contract Data, and to complete the whole of the Works comprised in the Contract within the time stated in the Contract Data.
4. We agree to abide by this Bid with in the date specified in ITB clause 15.1 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. We understand that you are not bound to accept the lowest or any Bid you may receive.

Dated this day of2021 in the capacity ofduly authorized to sign tenders for and on behalf of

Name :(IN BLOCK CAPITALS)

Signature :

Designation -

Address :

.....

Witness : 1.Name..... Signature

2.Name Signature

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

**Bid signed by a person other than the authorized person shall be as non-responsive

| QUALIFICATION INFORMATION | |
|--|--|
| CIDA Registration | Please attach photo copy of Original Documents (as annex -01) |
| Registration Number | |
| Grade & Speciality | |
| Expiry Date | |
| VAT Registration Number | (Attach as Annex 02) |
| Construction Program | (Attach as annex 11) |
| Legal Status (Please attach photo copy of original documents as annex) | (Attach as Annex 03) |
| Authentication of Signatory | (Attach original with form of bid & a photo copy as annex -04) |
| Value Of Construction works performed (Attach copy of Audited Financial Report) | (Attach as Annex 05) |
| Year 2019/2020 | |
| Year 2018/2019 | |
| Year 2017/2018 | |
| Year 2016/2017 | |
| Year 2015/2016 | |
| | |

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 |
|--------------|----------------------|--------------------|-------------------------------|------------------------|-----------------------------|
| Highways* | | | | | |
| | | | | | |
| | | | | | |
| Bridges* | | | | | |
| | | | | | |
| | | | | | |
| Buildings* | | | | | |
| | | | | | |
| | | | | | |
| Irrigation* | | | | | |
| | | | | | |
| | | | | | |
| # | | | | | |
| | | | | | |
| | | | | | |
| Total | | | | | |

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

Provide 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

Financial Data

As per Latest Audited Financial Statement

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

* 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)

Note : Available Working Capital of bidder should be equal or greater than 50% of minimum amount of the Liquid Asset (i.e. Rs. 21.5 million). Line of Credit shall be provided only to satisfy the balance amount of the required amount of the Liquid Asset.

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

| | |
|---|--|
| Similar work completed in last 05 years (Attach LOA, Completion Certificate, documents to confirming similarity of work) | Value..... Year..... Employer Completed Date Description of work <div style="text-align: right; font-size: small;">(Attach as annex-08)</div> |
| Major Items of Construction Equipment Proposed (Attach as annex-09) | 1. Type.....Capacity..... 2. Type.....Capacity..... 3. Type.....Capacity..... 4. Type.....Capacity..... 5. Type.....Capacity..... |
| Qualification and Experience of Key staff to be attached to the project 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 |

Details of Sub-Contractors

| Section of work | Approximate value | Name(s) & Address (es) of sub-contractors | Description & location of similar works previously executed |
|-----------------|-------------------|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

| Personnel Data | |
|-----------------------|--|
| Name of Institution | |
| Address | |
| Telephone | |
| Facsimile | |
| Email address | |

Road Development Authority and its authorized representatives are hereby authorized to conduct any inquiries or investigations to verify the statements, documents, and information submitted in this connection and to seek clarification from our banks, any other agency or our clients regarding any financial and technical aspects.

Signature of the Bidder.....

Date

Section - 5

Bidding Data and Contract Data

BIDDING DATA

Clause 1, Scope of Bid

Clause 1.1

- a) The Employer is the Road Development Authority established by the Act No.73 of 1981.
- b) Address of the Employer is: *Director General , Road Development Authority
1st Floor, “Maganeguma Mahamedura”,
216, Denzil Kobbekaduwa Mawatha, Battaramulla.
Telephone: 0112862795, Fax: 0112872272
E-mail: gmo@ rda.gov.lk*

The Scope of the Work is to Construction of Bridge Across Thuduwegoda Ela, Waththehena Bridge by Replacing With a Concrete Deck, Bridge Near Wellawaththa, Rajawaththa Aladeniya Bridge
The work consists of Construction of Bridge Across Thuduwegoda Ela, Waththehena Bridge by Replacing With a Concrete Deck, Bridge Near Wellawaththa, Rajawaththa Aladeniya Bridge

The Site is located at **Rathgama,Hakmana,Deniyaya** Electorate in **Galle& Matara** district.

Clause 1.2

Time for completion is **270 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 (Southern),Road Development Authority,Meddewatta,Matara 06/12/2021 to 22/12/2021**
- b) The non-refundable tender fee is **Rs.18,000/-** 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, 7th Floor, “Maganeguma Mahamedura”, Denzil Kobbekaduwa Mawatha, Battaramulla or **Provincial Director (Southern),Road Development Authority,Meddewatta,Matara** from **06/12/2021** to **22/12/2021**.

Clause 2, Source of Funds

Clause 2.1

Funded by Government of Sri Lanka (GOSL)

Clause 3, Ethics, Fraud and Corruption

Add a new sub-Clause 3.3

Clause 3.3

A misrepresentation or omission of facts in order to influence the procurement process shall make the Bid non-responsive and if detected after the award the bidder could be subjected to legal prosecution.

Clause 4, Qualification of the Bidder

Clause 4.2

The bidder shall be currently registered with the Institute for Construction Industry Development Authority (CIDA) in **C4 grades in Highway/ Bridges specialty**.

Clause 4.3 Bidder shall provide in:

- CIDA registration particulars
 - Registration number
 - Specialty & Grade
 - Expiry Date
- VAT registration number.
- Legal status of the bidder (sole proprietor, Partnership, Company etc.)
- Authentication for signatory (written Power of Attorney)
- Audited Financial Statement for latest five years
- Evidence of adequacy of working capital for this contract (liquid assets & other)
- Experience in a work of similar nature and size in the last ten years
- Work in hand and expected completion date
- Qualification and experience of key site management and technical personnel proposed for the Contract
- Major items of construction equipment proposed to carry out the Contract
- Authority to seek references from the bidder's bankers;
- Total monetary Value of construction work performed for each of the last five years.
- The Method statement of the way the bidders proposed to carryout the work
- Construction Program with critical path and cash flow forecast.
- A description and value of work, which the bidder proposes to sub-contract, together with the name and address of the proposed sub-contractors

Clause 4.4

- Average annual volume of construction work performed during the last five years shall be at least **Rs. 129 million**
- **Annual Average Construction Turnover (AACT) is calculated as follows,**

$$AACT = \frac{\sum ACT_n}{5} \quad \text{where, } n = 1st \dots\dots\dots 5th \text{ year (last five years)}$$

ACT_n - Annual Construction Turnover of nth year (from the audited financial report)

- The bidder should have, experience in the construction of at least one contract of a nature and complexity equivalent to the Works over the last 10 years (to comply with this requirement, works cited should be at least 70% completed), the value of which should be at least **Rs. 50 million**.

Experience of subcontractors in respect of “Contract of similar size and nature” shall be accepted, only if the reference sub- contract was approved by the Employer. Also such bidder shall submit the sub –contracting agreement along with the Completion Certificate issued by the main contractor and an approval letter issued by the Employer confirming the sub-contracting arrangement. Any bids that, not complying with this requirement shall be rejected.

- Liquid Assets and / or credit facilities required

Minimum Liquid Assets available shall be **Rs. 43 million**

Minimum Liquid Assets Available is calculated as follows:

$$X = (A - L) - 0.1 W + C \quad \text{where;}$$

X = Minimum Liquid Assets available

A = Current Assets as given in the latest audited financial statements

L = Current Liabilities as given in the latest audited financial statements

W = Outstanding contractual commitments as supported by an affidavit as per Form given in Section 9

C = A project specific revolving line of credit given by a bank used by Form given in Section 9

Note : Available Working Capital of bidder should be equal or greater than 50% of minimum amount of the Liquid Asset (i.e. **Rs. 21.5 million). Line of Credit shall be provided only to satisfy the balance amount of the required amount of the Liquid Asset.**

Any Bidder who does not have the minimum liquid assets calculated on the above basis, required under Clause 4.4 shall be treated as non responsive.

Any bid which has to be supported by a project specific revolving line of credit, to meet the requirement of the Clause 4.4 but does not provide it strictly according to Form given in Section 9 shall be treated as non responsive.

The bidder shall submit an affidavit that he has declared all his other contractual commitments – specimen form attached in Section 9. But does not provide all current contract commitment shall be treated as non responsive according to the clause 3.3 of ITB No Conditional Line of Credit will be accepted and any letter of line of credit which has deviated from the specimen format, shall be considered as non responsive.

C. PREPARATION OF BID

Clause 9.1 Employer's address for the purpose of clarification is:

a. Additional Secretary (Engineering), Ministry of Highways, 7th Floor, "Maganeguma Mahamedura", Denzil Kobbekaduwa Mawatha, Battaramulla T: 011 – 2868703, Fax No. 011 – 2864958

b. Provincial Director (Southern), Road Development Authority, Meddewatta.
T.P.No : 041-2222150.

Clause 11.1 The language of the Bid shall be English.

Clause 13.3

The bid price shall include Physical Contingency, Price contingency and Provisional sums.

VAT component shall not be included in the rates. The amount written in the Form of Bid shall be without VAT. However VAT component shall be shown separately at the end of the BOQ.

Clause 13.4

The Contract is **subjected** to price adjustment in accordance with Clause 47 of the Conditions of Contract.

Clause 15.1

The bid shall be valid up to **91 days from closing of Bid.**

Clause 16.1

Bid shall include a Bid Security using the form included in Section 9.

Clause 16.2

Bid Security shall be:

- For an amount of **Rs. 1,250,000 /-**
- Valid until 28 Days beyond the validity of the Bid
- Issued by an agency acceptable to the Employer using the form for bid security (unconditional guarantee) included in Section 9 – Standard Forms.
- Any bond or security issued by ABC Insurance Company Limited is not acceptable.

Clause 17.0

Pre-bid meeting will be held at the office of the Provincial Director (Southern), Road Development Authority, Meddewatta. (T.P.No: 041-2222150, Fax No: 041-2222413) at 10.00 a.m. on **17/12/2021**
Site visit will be arranged if necessary.

D: SUBMISSION OF BID

Clause 19.2 (a)

The Employer's Address for the purpose of bid submission is -

***Chairman, Ministry Procurement Committee
C/o Additional Secretary (Engineering), Ministry of Highways,
7th Floor, "Maganeguma Mahamedura", 216, Denzil Kobbekaduwa Mawatha,
Battaramulla***

Clause 19.2 (b) the name of the Contract is 'Construction of Bridge Across Thuduwegoda Ela, Waththehena Bridge by Replacing With a Concrete Deck, Bridge Near Wellawaththa, Rajawaththa Aladeniya Bridge', UNDER Contract No: RDA/South/Gall.Mt/GSP/CECB/32

Clause 20.1

The deadline for submission of bids shall be 14.00 hrs. on **23/12/2021**.

E: BID OPENING AND EVALUATION

Add new Clause

Clause 29.6

Bid opening to be done on **23rd December 2021 at 2.00 pm** at **Engineering Division, Ministry of Highways, 7th 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.

To ensure that the bids are not unrealistic, following criteria shall be adopted;

- (a) If the bid value is 11% to 19% less than the engineer's estimate, the Performance bond should be increased by 5%.
- (b) If the bid value is 20% to 29% less than the engineer's estimate, the Performance bond should be increased by 10%.
- (c) If the bid value is 30% or higher percentage less than the engineer's estimate, the bid will be rejected.

Add new Clause

Clause 29.7 State Owned Enterprises Preferences

Considering the role of the State Owned Enterprises (SOE), when such SOE submits a bid for a contract on competitive basis then such SOE will be given a 5 percent preference over all other contractors. This will be considered only when the Financial Evaluation and not in Technical Evaluation.

F: AWARD OF CONTRACT

Clause 34.1

The Standard Form of Performance Security acceptable to the Employer shall be a Bank Guarantee from a reputed Bank operating in Sri Lanka and accepted by the Treasury for issue of Guarantees or CGF. The amount of Performance Security is 5% (Five percent) of the Initial Contract Price subjected to Public Finance Circular no. 03/2020 (i) (paragraph 3.1.V) dated 11.01.2021. The Format of the Performance security shall be strictly in accordance with the specific format given in Standard Forms Section 2. Any bond or security issued by Insurance Company Limited is not acceptable

Clause 36

The Adjudicator proposed by the Employer is a member to be appointed by the Institution of Engineers, Sri Lanka (IESL)

Fees and types of reimbursable expenses to be paid to the Adjudicator shall be on a case-to-case basis and shall be shared equally by the Contractor and the Employer.

CONTRACT DATA

1.1 The Employer is the Road Development Authority established by the Act No 73 of 1981.
Address: Road Development Authority, "Maganeguma Mahamedura", 216, Denzil Kobbekaduwa Mawatha, Battaramulla.

a. Name of Representative of the Employer is **Provincial Director (Southern), Road Development Authority, Meddewatta.**

1.1 The Engineer for the Contract is Central Engineering Consultancy Bureau (CECB)
Address: NO- 415 , Bauddaloka Mawatha Colombo - 7
Engineer's Representative: Will be notified later

1.1 The Work consists of **Construction of Bridge Across Thuduwegoda Ela, Waththehena Bridge by Replacing With a Concrete Deck, Bridge Near Wellawaththa, Rajawaththa Aladeniya Bridge**
The scope of the work is **Construction of Bridge Across Thuduwegoda Ela, Waththehena Bridge by Replacing With a Concrete Deck, Bridge Near Wellawaththa, Rajawaththa Aladeniya Bridge**
The Start Date shall be 14 calendar days from the receipt of the Letter of Acceptance.

8.1 Schedule of other Contractors: Public Utility Agencies

9.1 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. & 5 years working experience in similar Nature. |
| b. Contract Administration | Technical Supervisors with 5 years' experience, Quantity Surveyor with 3 years working experience |

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. 400,000/= per event
- Contractor's employees other than workmen is Rs. 550,000/= per event
- For third party and employees of the Employer and other persons engaged by the Employer is Rs. 550,000/= 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.

14.1 Information from the Site investigation, if so applicable and available, is shown on the Drawings.

17.1 The Intended Completion Date for the whole of Works shall be **270 Days** from the Start Date.

21.1 The Site Possession Date shall be within 07 Calendar days from the date of Letter of Acceptance.

- 27.1 The Contractor shall submit a Programme for the Works within **28** Calendar days of the 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.
- 27.3 One Month.
- 27.4 2% of the Initial Contract Price in Rupees.
- 35.1 Add with the following,
The Defects Notification Period is 1 Year.
- 39.2 Engineer may order variations up to a total cumulative value of not exceeding the contingencies provided in the priced BOQ.
- 43.1 Replace the second sentence of Clause 43.1 “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 28 days of the date of each certificate.
- 47.1 Contract Price is subject to price adjustment.

Input proportions (Px Values) shall be computed by the contractor by using the ICTAD document for preparing Px values, before end of first month and submit engineer for approval. Only the approved Px values shall be used for calculating Price Adjustments.

Non-adjustable elements shall be:

- Bill No.1 – Item 1.1– 1.14**
- Bill No.2 – Item A.1.2, A.1.8, A.1.9, A.2.3, A.2.4**
- Bill No.3 - Item C.8**
- Bill No.4 – All Day Work items**

Non- adjustable items are Bill no.01, Day works. Lump sum items and provisional sum items.

- 48.1 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.
- 49.1 The liquidated damages for the whole of the Works shall be **Rs. 43,000/-** per Day.
The maximum amount of Liquidated Damages for the whole of the works shall be 10% (ten percent) of the Initial Contract Price.
- 51.1 Replace the Sub-clause 51.1 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 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 instalments. The second Instalment would be paid only after establishing that the first instalment of the advance payment has been used exclusively for

mobilization as per Cl. 51.2 and submission and approval of detailed construction programme with network analysis and resource scheduling.

Any bond or security issued by Insurance Company is not acceptable.

- 52.1 The Performance Security shall be 5% percent of the Initial Contract Price (subjected to Public Finance Circular no. 03/2020 (i) (paragraph 3.1.V)) and shall be issued by a Bank or CGF acceptable to the Employer.

Any bond or security issued by Insurance Company Limited is not acceptable.

- 58.1 As-Built Drawings shall be submitted to the Engineer within one month after the issuing of Certificate of Completion.

Add the annexure of additional requirements pertaining to the as built drawings to this sub clause

- 60.1 The percentage to apply to the value of the work not completed, representing the Employer's additional cost for completing the Works, is 25%

- 63 Clauses 63.2(b), 63.4, 63.5, 63.6 and 63.7 are not applicable.

- 63.3 Replace the text of Clause 63.3 with the following text: "The total sum paid to the Contractor shall include such amounts, for the work, supplies or services to plus an administrative charge of 10% on the invoiced cost will be paid to the Contractor for Provisional Sum of the Bill of Quantities."

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 Specification

STANDARD SPECIFICATIONS

The Standard Specifications comprise 'Standard Specifications for Construction and Maintenance of Roads and Bridges' issued under the authority of the Director General of the Road Development Authority and published by the Institute of Construction Training and Development.

The ICTAD Publication No. of this publication is SCA/5. Second Edition Published in June 2009

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

PARTICULAR SPECIFICATIONS

These Particular Specifications should be read in conjunction with the Standard Specifications for Construction and Maintenance of Roads and Bridges, ICTAD Publication No SCA/5, which are applicable in all cases not covered herein.

The Particular Specifications for some sections of the works are comprehensive and cover the full extent of the works in these sections. In other sections they apply in conjunction with the Standard Specifications. Finally in some sections not covered in the Particular Specifications, the Standard Specifications shall apply in full.

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

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.
 - x Co-ordination with other Contractors or Authorities carrying out work either in connection with or adjacent to the Works.
 - 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 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. The Units of measurement described in the Bill of Quantities are Metric Units. Abbreviations in the Bill of Quantities are as follows: -

| | | |
|-----------------------|---|-----------------|
| hrs | - | Hours |
| km | - | Kilometre |
| m | - | Linear Metre |
| m ² or sqm | - | Square Metre |
| m ³ or cum | - | Cubic Metre |
| nos. | - | Numbers |
| L.S | - | Lump Sum |
| P.S | - | Provisional Sum |
| nth. | - | Month |
| ltr. | - | Litre |
| kg. | - | Kilogramme |
| mt | - | Metric Tonne |
| mm. | - | Millimetre |
| wk. | - | Week |

DAY WORKS

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, travelling time, transport supervision, administration costs related to the use of such plant.

Labour Wages, overtime, bonuses, travelling 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 (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 travelling: Actual travel time of and to place of stationing on the day of the work.

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

Labour: Travel time for the means of transport used.

Materials: Travelling 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 BRIDGES IDENTIFIED UNDER "GAMA SAMAGA PILISANDARAK" PROGRAMME | | |
|--|--|---------------|
| Province | Southern | |
| District | Galle | |
| Summary Of Bill of Quantities | | |
| 2. Thuduwegoda Bridge | | |
| 3. Waththehena Bridge | | |
| 4. Wellawaththa bridge | | |
| 5. Dankoluwa - Rajawaththa bridge | | |
| 1. Common Preliminaries for the whole package | | |
| | Sub Total 01 | |
| 2. Thuduwegoda Bridge | | |
| Bill No | Description | Amount |
| Bill No 1 | Preliminary & General | |
| Bill No 2 | Site Clearing | - |
| Bill No 3 | Construction of Approach Road | |
| Bill No 4 | Construction of Bridge Sub-Structure | |
| Bill No 5 | Construction of Bridge Super-Structure | |
| Bill No 6 | Miscellaneous | - |
| Bill No 7 | Day Works | |
| | Sub Total 02 | |
| 3. Waththehena Bridge | | |
| Bill No 1 | Preliminary & General | |
| Bill No 2 | Site Clearing | |
| Bill No 3 | Construction of Approach Road | |
| Bill No 4 | Construction of Bridge Sub-Structure | |
| Bill No 5 | Construction of Bridge Super-Structure | |
| Bill No 6 | Miscellaneous | - |
| Bill No 7 | Day Works | |
| | Sub Total 03 | |
| 4. Wellawaththa bridge | | |
| Bill No 1 | Preliminary & General | |
| Bill No 2 | Site Clearing | |

| | | |
|--|--|---------------------|
| Bill No 3 | Construction of Approach Road | |
| Bill No 4 | Construction of Bridge Sub-Structure | |
| Bill No 5 | Construction of Bridge Super-Structure | |
| Bill No 6 | Miscellaneous | - |
| Bill No 7 | Day Works | |
| | Sub Total 04 | |
| 5. Dankoluwa - Rajawaththa bridge | | |
| | Preliminary & General | |
| Bill No 2 | Site Clearing | |
| Bill No 3 | Construction of Approach Road | |
| Bill No 4 | Construction of Bridge Sub-Structure | |
| Bill No 5 | Construction of Bridge Super-Structure | |
| Bill No 6 | Miscellaneous | - |
| Bill No 7 | Day Works | |
| | Sub Total 05 | |
| <i>A</i> | Sub Total- 01 (Sub Total 01+02+03+04+05) | |
| <i>B</i> | Total of Provisional sums | |
| <i>C</i> | Sub Total-02 without Provisional sums (A-B) | 3,958,121.00 |
| <i>D</i> | Discount if any Amount in words | |
| <i>E</i> | Sub Total 03 (C-D) | |
| <i>F</i> | Sub Total 04 with provisional sums (B+E) | |
| <i>G</i> | Allow for Physical Contingencies 10% (10% of F) | |
| <i>H</i> | Allow for Price Contingencies 5% (5% of F) | |
| <i>I</i> | Bid Price (F+G+H) without VAT | |

Amount in words: _____

Name of the Bidder: _____

Signature : _____

Rubber Stamp:

Date:

1. Common Preliminaries for the whole package

| ITEM NO | DESCRIPTION | UNIT | QTY | RATE | AMOUNT RS. Cts. |
|---|--|-------------|------------|-------------|----------------------------|
| BILL NO - 01 PRELIMINARY AND GENERAL | | | | | |
| 1.2 | Provide all necessary Insurances | LS | Item | Allow | |
| 1.3 | Provide all necessary Bonds,Securities | LS | Item | Allow | |
| SUB TOTAL -01 Preliminaries Common for the Package | | | | | |

BRIDGE ACROSS THUDUWEGODA ELA

| ITEM NO | RATE NO | PAY ITEM NO | DESCRIPTION | UNIT | QTY | RATE | AMOUNT RS. Cts. |
|--|---------|-------------|--|------|-------|-------|--------------------|
| BILL NO - 01 PRELIMINARY AND GENERAL | | | | | | | |
| 1.1 | LS1 | P-001 | Allow for Mobilization and Demobilization of Contractors facilities, plant and equipment | LS | Item | Allow | |
| 1.4 | LS4 | P-002 | Allow sum for Environmental monitoring and mitigation work | LS | Item | Allow | |
| 1.5 | LS5 | 302(10) | Allow sum for Construction of necessary cofferdams, shoring and bracing and their subsequent removal | LS | Item | Allow | |
| 1.6 | LS6 | 302(11) | Allow sum for Dewatering | LS | Item | Allow | |
| 1.7 | PS1 | 103(1a) | 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 | 302,400.00 |
| 1.9 | PS3 | 118(1) | Provide & maintain Project Name Board (2 m x 1.0m) | PS | Item | Allow | 22,120.00 |
| 1.10 | PS4 | 203(3) | Allow for relocation of Public Utilities | PS | Item | Allow | 500,000.00 |
| 1.11 | PS5 | P-003 | Dismantle the Existing Massonary Structures, Concrete Structures, Steel Structures & Culvert pipes | PS | Item | Allow | 55,000.00 |
| 1.12 | PS6 | P-004 | Allow sum for Surveying, Investigation & Design (Preparation of Shop Drawings) | PS | Item | Allow | 121,000.00 |
| 1.13 | PS7 | P-004A | Allow sum for Trees Plantation & maintainance | PS | Item | Allow | 4,840.00 |
| 1.15 | PS8 | 109(1) | Allow sum for Quality Control | PS | Item | Allow | 231,000.00 |
| SUB TOTAL BILL NO -01 PRELIMINARY AND GENERAL | | | | | | | |
| BILL NO - 02 SITE CLEARING | | | | | | | |
| 2.1 | RA-01 | 201 (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 | 25.00 | | |
| SUB TOTAL BILL NO - 02 SITE CLEARING | | | | | | | |
| BILL NO - 03 CONSTRUCTION OF APPROCH ROAD | | | | | | | |
| EARTH WORKS | | | | | | | |
| 3.1 | RA-06 | 301(1) | Roadway excavation, soil suitable for fill roadway excavation | Cu.m | 7.00 | | |
| 3.2 | RA-07 | 301(1)a | Roadway excavation, soft soil | Cu.m | 3.50 | | |
| 3.6 | RA-11 | 301(11) | Roadway excavation, unsuitable | Cu.m | 31.50 | | |

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|---|-------|-----------|---|-------|--------|--|--|
| 3.7 | RA-12 | 304 (1) b | Embankment construction using material from roadway excavation Type I materials | Cu.m | 13.30 | | |
| 3.8 | RA-13 | 304 (2) b | Embankment construction using barrow material Type I materials | Cu.m | 54.20 | | |
| 3.10 | RA-14 | 304(3) | Trimming, levelling and compaction of original ground | Sq.m | 25.00 | | |
| 3.11 | RA-15 | 304(6) | Embankment construction using Rock fill | Cu.m | 13.50 | | |
| 3.12 | RA-16 | 304(4) | Provide and place Geofabric | Sq.m | 30.00 | | |
| BASES AND SHOULDERS | | | | | | | |
| 3.14 | RA-18 | 408(2) | Scarification of existing base | Sq.m | 105.00 | | |
| CONCRETE SURFACING | | | | | | | |
| 3.22 | RA-26 | 901B(1) | Supply, laying & compacting Grade 30 Concrete layer including Formwork | Cu.m | 20.25 | | |
| GUARDSTONE FIXING | | | | | | | |
| 3.25 | RA-97 | 808(5) | Supply & fixing Guardstones | Nos. | 17.00 | | |
| SUB TOTAL BILL NO -03 CONSTRUCTION OF APPROCH ROAD | | | | | | | |
| BILL NO - 04 CONSTRUCTION OF BRIDGE SUBSTRUCTURE | | | | | | | |
| 4.A | | | CONSTRUCTION OF ABUTMENT & WING WALLS | | | | |
| | | | FOUNDATION,SUB STRUCTURE & CAPPING BEAM | | | | |
| 4.A.1 | RA-29 | 302(1) | Excavation for structures, soil suitable for backfill | Cu.m. | 7.66 | | |
| 4.A.2 | RA-30 | 302(2) | Excavation for structures, Soft rock | Cu.m | 1.54 | | |
| 4.A.4 | RA-32 | 302(4b) | Excavation for structures, Hard rock (Using Explosive) | Cu.m | 0.38 | | |
| 4.A.5 | RA-33 | 302(5) | Excavation for structures, unsuitable soil | Cu.m | 63.16 | | |
| 4.A.6 | RA-34 | 302(5a) | Excavation for structures, Marshy material | Cu.m | 3.82 | | |
| 4.A.7 | RA-35 | 302(8) | Granular Backfill for Structures | Cu.m | 57.48 | | |
| 4.A.8 | RA-36 | P-005 | Supplying geotextile for foundation base as necessary | Sq.m | 152.63 | | |
| 4.A.9 | RA-37 | P-006 | Supplying & compacting ABC for foundation base as necessary | Cu.m | 11.72 | | |
| 4.A.10 | RA-38 | P-007 | Boulder packing for foundation base as necessary | Cu.m | 67.96 | | |
| Concrete for Structure | | | | | | | |
| 4.A.11 | RA-39 | 1001(3a) | Concrete grade 15(19 mm) as screed in foundation | Cu.m. | 3.76 | | |
| 4.A.12 | RA-41 | 1001 (2) | Concrete of grade 20 (40mm) in abutment , wing wall (Mass Concrete wall) | Cu.m. | 43.32 | | |
| 4.A.14 | RA-43 | 1001 (1) | Concrete of grade 25 (20mm) in abutment , wing wall Base (Mass Concrete) | Cu.m. | 19.34 | | |

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|--|-------|-----------|--|--------|--------|--|--|
| 4.A.17 | RA-46 | 1001 (1) | Concrete of grade 25(19mm) in Capping beams, ballast wall and curtain walls in Mass concrete Abutment | Cu.m. | 6.54 | | |
| | | | Formwork | | | | |
| 4.A.20 | RA-49 | 1008(2) | Rough finish formwork for abutments & Wing walls Base | Sq.m | 27.46 | | |
| 4.A.22 | RA-51 | 1008(1) | Smooth finish formwork for abutment, wing walls, capping beams, ballast wall and curtain wall | Sq.m | 145.97 | | |
| | | | Reinforcement | | | | |
| 4.A.24 | RA-53 | 1002(1) | Fabricating & laying tor steel r/f for abutments, wing walls, capping beams, ballast wall and curtain wall | Tonnes | 1.19 | | |
| | | | Weep holes | | | | |
| 4.A.27 | RA-56 | 706(1) | Forming weep holes using type 400 PVC pipe of internal dia. Not less than 110mm | L.m | 22.80 | | |
| | | | Drainage & Backfilling | | | | |
| 4.A.28 | RA-57 | 705(1) | Backfill using aggregate 50~200mm for dry stone lining behind abutment & wing walls | Cu.m | 19.14 | | |
| 4.A.29 | RA-58 | 705(2) | Filter medium using aggregate 37.5mm behind abutment and wing walls | Cu.m | 3.00 | | |
| 4.A.30 | RA-59 | 705(3) | Clay puddle laid under the porous backfill, behind abutment and wing wall | Sq.m | 13.32 | | |
| SUB TOTAL BILL NO -04 CONSTRUCTION OF BRIDGE SUBSTRUCTURE | | | | | | | |
| BILL NO - 05 BRIDGE SUPER STRUCTURE CONSTRUCTION | | | | | | | |
| 5.2 | | | Concrete PSC Beam Superstructure | | | | |
| 5.2.1 | RA-63 | 1001 (1)b | Class A concrete of grade 40(19mm) in Bridge Deck | Cu.m | 19.50 | | |
| 5.2.2 | RA-96 | 1001 (1) | Class A concrete of grade 25(19mm) in Footwalk | Cu.m | 3.92 | | |
| | | | Beams | | | | |
| 5.2.5 | RA-66 | 1003(1c) | Supplying of 11.50m long P.S.C. concrete beams | Nos | 9.00 | | |
| 5.2.12 | RA-73 | 1003(2c) | Launching of 11.50m long P.S.C. concrete beams | Nos | 9.00 | | |
| | | | Form work | | | | |
| 5.2.19 | RA-80 | 1008(1b) | Smooth finish form work for deck slab. | Sq.m | 56.37 | | |
| | | | Reinforcements | | | | |
| 5.2.20 | RA-81 | 1002(1a) | Fabricating & laying Tor steel reinforcement | Tonnes | 0.94 | | |
| | | | Bridge bearings | | | | |
| 5.2.26 | RA-87 | 1010(1) | 75x12mm. Hard rubber bearing pads over capping beam | L.m | 10.20 | | |
| 5.4 | | | Miscellaneous | | | | |
| 5.4.1 | RA-88 | 1009(1) | M.S. angle iron & hard rubber expansion joints (Type drawing T/B/107 rev1 of RDA) | L.m | 10.20 | | |

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|--|--------|----------|--|--------|-------|--|--|--|
| 5.4.2 | RA-89 | 1011(1) | Supplying & fixing 200mm long , 20mm dia. Stainless steel bars as dowels in capping beam at fixed end. | Nos | 8.00 | | | |
| 5.4.4 | RA-90a | 1020(1b) | Supplying & fixing 50 mm dia. Type 400 PVC pipes as rain water outlets through deck as per drawing. | L.m | 3.31 | | | |
| 5.4.6 | RA-92 | 1013(1) | Bituminous sealing material supplied and laid under beam ends to prevent grout leak to capping beam. | L.m | 10.20 | | | |
| 5.4.7 | RA-97 | 1303(3) | Painting Bridge hand rail with weather shield Emulsion Paint Two coats | Sq.m. | 39.83 | | | |
| 5.4.8 | RA-98 | 1303(4) | Stenciling and Numbering on Bridges | Nos | 2.00 | | | |
| 5.5 | | | Approch Slab Construction | | | | | |
| | | | Concrete | | | | | |
| 5.5.1 | RA-93 | 1001 (1) | Class A concrete of grade 25(19mm) in Approach Slab | Cu.m | 6.12 | | | |
| | | | Form work | | | | | |
| 5.5.2 | RA-94 | 1008(2) | Rough finish formwork for sides of Approach Slab | Sq.m | 3.24 | | | |
| | | | <u>Reinforcements</u> | | | | | |
| 5.5.3 | RA-95 | 1002(1) | Fabricating & laying Tor steel reinforcement | Tonnes | 0.49 | | | |
| SUB TOTAL BILL NO -05 BRIDGE SUPER STRUCTURE CONSTRUCTION | | | | | | | | |
| BILL NO - 06 MISCELLANEOUS | | | | | | | | |
| SUB TOTAL BILL NO -06 MISCELLANEOUS | | | | | | | | |

BILL NO - 07 DAY WORKS

| ITEM NO | DESCRIPTION | UNIT | QTY | RATE | AMOUNT RS. Cts. |
|------------|---|-------|-------|------|--------------------|
| 7.1 | Labour | | | | |
| 7.1.1 | Unskilled labour | Day | 5.00 | | |
| 7.1.2 | Semi skilled labour | Day | 5.00 | | |
| 7.1.3 | Skilled labour | Day | 5.00 | | |
| 7.1.4 | Operators | Day | 5.00 | | |
| | Total cost of Labour | | | | |
| 7.2 | Equipment | | | | |
| 7.2.1 | Backhoe loader - 2WD, 0.15 scoop capacity | Hrs | 5.00 | | |
| 7.2.2 | Farm Tractor with 3T trailer | Hrs | 10.00 | | |
| 7.2.3 | Water Bowser - 6000 ltrs | Hrs | 10.00 | | |
| 7.2.4 | Concrete Mixer - 200ltrs (10/7) | Hrs | 10.00 | | |
| 7.2.5 | Water pump - 2 inch | Hrs | 25.00 | | |
| 7.2.6 | Porker vibrator (Petrol) - 1.8m.hour | Hrs | 5.00 | | |
| 7.2.7 | Lorry 3 Ton - 3Ton | Km | 50.00 | | |
| 7.2.8 | Plate Compactor - 80kg tamper plates | Hrs | 10.00 | | |
| 7.2.9 | Excavator | Hrs | 5.00 | | |
| | Total cost of Equipment | | | | |
| 7.3 | Materials | | | | |
| 7.3.1 | Cement - Ordinary | 50kg | 5.00 | | |
| 7.3.2 | Aggregate for concrete (19mm) | Cu.m. | 2.00 | | |
| 7.3.3 | Sand | Cu.m. | 2.00 | | |
| | Total cost of Material | | | | |
| | | | | | |

Summary of Day works

| Description | Amount (Rs.) |
|--------------|--------------|
| 1. Labour | |
| 2. Equipment | |
| 3. Material | |
| Total | |

WATTHEHENA BRIDGE BY REPLACING WITH A CONCRETE DECK

| ITEM NO | RATE NO | PAY ITEM NO | DESCRIPTION | UNIT | QTY | RATE | AMOUNT RS. Cts. |
|--|---------|-------------|--|------|------|-------|--------------------|
| BILL NO - 01 PRELIMINARY AND GENERAL | | | | | | | |
| 1.1 | LS1 | P-001 | Allow for Mobilization and Demobilization of Contractors facilities,plant and equipment | LS | Item | Allow | |
| 1.4 | LS4 | P-002 | Allow sum for Environmental monitoring and mitigation work | LS | Item | Allow | |
| 1.5 | LS5 | 302(10) | Allow sum for Construction of necessary cofferdams, shoring and bracing and their subsequent removal | LS | Item | Allow | |
| 1.6 | LS6 | 302(11) | Allow sum for Dewatering | LS | Item | Allow | |
| 1.9 | PS3 | 118(1) | Provide & maintain Project Name Board (2 m x 1.0m) | PS | Item | Allow | 22,120.00 |
| 1.12 | PS6 | P-004 | Allow sum for Surveying, Investigation & Design (Preparation of Shop Drawings) | PS | Item | Allow | 121,000.00 |
| 1.13 | PS7 | P-004A | Allow sum for Trees Plantation & maintainance | PS | Item | Allow | 2,420.00 |
| SUB TOTAL BILL NO -01 PRELIMINARY AND GENERAL | | | | | | | |

BILL NO - 02 SITE CLEARING

| | | | | | | | |
|---|-------|---------|--|------|--------|--|--|
| 2.1 | RA-01 | 201 (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 | 140.00 | | |
| 2.2 | RA-02 | 201(2) | Cutting tress girth 301mm to 600 mm | Nos | 10.00 | | |
| 2.3 | RA-03 | 201(3) | Cutting tress girth 601mm to 1200 mm. | Nos | 2.00 | | |
| SUB TOTAL BILL NO - 02 SITE CLEARING | | | | | | | |

BILL NO - 03 CONSTRUCTION OF APPROCH ROAD

| EARTH WORKS | | | | | | | |
|---------------------------|-------|-----------|---|------|--------|--|--|
| 3.1 | RA-06 | 301(1) | Roadway excavation,soil suitable for fill roadway excavation | Cu.m | 50.00 | | |
| 3.2 | RA-07 | 301(1)a | Roadway excavation,soft soil | Cu.m | 25.00 | | |
| 3.4 | RA-09 | 301(8) | Roadway excavation,hard rock (Using explosive) | Cu.m | 15.00 | | |
| 3.6 | RA-11 | 301(11) | Roadway excavation,unsuitable | Cu.m | 210.00 | | |
| 3.7 | RA-12 | 304 (1) b | Embankment construction using material from roadway excavation Type I materials | Cu.m | 95.00 | | |
| 3.8 | RA-13 | 304 (2) b | Embankment construction using barrow material Type I materials | Cu.m | 155.00 | | |
| 3.10 | RA-14 | 304(3) | Trimming, levelling and compaction of original ground | Sq.m | 140.00 | | |
| 3.11 | RA-15 | 304(6) | Embankment construction using Rock fill | Cu.m | 2.50 | | |
| 3.12 | RA-16 | 304(4) | Provide and place Geofabric | Sq.m | 5.00 | | |
| CONCRETE SURFACING | | | | | | | |
| 3.22 | RA-26 | 901B(1) | Supply, laying & compacting Grade 30 Concrete layer including Formwork | Cu.m | 27.00 | | |
| GUARDSTONE FIXING | | | | | | | |
| 3.25 | RA-97 | 808(5) | Supply & fixing Guardstones | Nos. | 9.00 | | |

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|--|-------|----------|---|--------|--------|--|--|--|
| SUB TOTAL BILL NO -03 CONSTRUCTION OF APPROCH ROAD | | | | | | | | |
| BILL NO - 04 CONSTRUCTION OF BRIDGE SUBSTRUCTURE | | | | | | | | |
| 4.A | | | CONSTRUCTION OF ABUTMENT & WING WALLS | | | | | |
| | | | FOUNDATION,SUB STRUCTURE & CAPPING BEAM | | | | | |
| 4.A.1 | RA-29 | 302(1) | Excavation for structures, soil suitable for backfill | Cu.m. | 1.18 | | | |
| 4.A.2 | RA-30 | 302(2) | Excavation for structures, Soft rock | Cu.m | 2.34 | | | |
| 4.A.4 | RA-32 | 302(4b) | Excavation for structures, Hard rock (Using Explosive) | Cu.m | 1.18 | | | |
| 4.A.5 | RA-33 | 302(5) | Excavation for structures, unsuitable soil | Cu.m | 42.22 | | | |
| 4.A.7 | RA-35 | 302(8) | Granular Backfill for Structures | Cu.m | 59.96 | | | |
| | | | Concrete for Structure | | | | | |
| 4.A.11 | RA-39 | 1001(3a) | Concrete grade15(19 mm) as screed in foundation | Cu.m. | 1.62 | | | |
| 4.A.12 | RA-41 | 1001 (2) | Concrete of grade 20 (40mm) in abutment , wing wall (Mass Concrete wall) | Cu.m. | 60.66 | | | |
| 4.A.14 | RA-43 | 1001 (1) | Concrete of grade 25 (20mm) in abutment , wing wall Base (Mass Concrete) | Cu.m. | 38.90 | | | |
| 4.A.17 | RA-46 | 1001 (1) | Concrete of grade25(19mm) in Capping beams,ballast wall and curtain walls in Mass concrete Abutment | Cu.m. | 35.38 | | | |
| | | | Formwork | | | | | |
| 4.A.20 | RA-49 | 1008(2) | Rough finish formwork for abutments & Wing walls Base | Sq.m | 22.10 | | | |
| 4.A.22 | RA-51 | 1008(1) | Smooth finish formwork for abutment, wing walls, capping beams,ballast wall and curtain wall | Sq.m | 254.63 | | | |
| | | | Reinforcement | | | | | |
| 4.A.24 | RA-53 | 1002(1) | Fabricating & laying tor steel r/f for abutments,wing walls, capping beams,ballast wall and curtain wall | Tonnes | 3.09 | | | |
| 4.A.26 | RA-55 | 1005(8) | 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. | 24.00 | | | |
| | | | Weep holes | | | | | |
| 4.A.27 | RA-56 | 706(1) | Forming weep holes using type 400 PVC pipe of internal dia. Not less than 110mm | L.m | 36.80 | | | |
| | | | Drainage & Backfilling | | | | | |
| 4.A.28 | RA-57 | 705(1) | Backfill using aggregate 50~200mm for dry stone lining behind abutment & wing walls | Cu.m | 22.66 | | | |
| 4.A.29 | RA-58 | 705(2) | Filter medium using aggregate 37.5mm behind abutment and wing walls | Cu.m | 3.58 | | | |
| 4.A.30 | RA-59 | 705(3) | Clay puddle laid under the porous backfill , behind abutment and wing wall | Sq.m | 12.60 | | | |
| SUB TOTAL BILL NO -04 CONSTRUCTION OF BRIDGE SUBSTRUCTURE | | | | | | | | |
| BILL NO - 05 BRIDGE SUPER STRUCTURE CONSTRUCTION | | | | | | | | |
| 5.2 | | | Concrete PSC Beam Superstructure | | | | | |
| 5.2.2 | RA-96 | 1001 (1) | Class A concrete of grade 25(19mm) in Footwalk | Cu.m | 2.67 | | | |
| | | | Form work | | | | | |
| 5.2.19 | RA-80 | 1008(1b) | Smooth finish form work for deck slab. | Sq.m | 18.09 | | | |

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|--|--------|-----------|---|--------|-------|--|--|
| | | | <u>Reinforcements</u> | | | | |
| 5.2.20 | RA-81 | 1002(1a) | Fabricating & laying Tor steel reinforcement | Tonnes | 0.11 | | |
| 5.3 | | | Concrete Deck Slab | | | | |
| | | | Concrete | | | | |
| 5.3.1 | RA-96 | 1001 (1) | Class A Concrete G25 (19mm) in deck slab & Parapet wall | Cu.m. | 17.08 | | |
| | | | Formwork | | | | |
| 5.3.2 | RA-61 | 1008(1) | Smooth finish formwork for sides of deck slab & Parapet wall | Sq.m | 43.59 | | |
| | | | Reinforcement | | | | |
| 5.3.3 | RA-62 | 1002 (1)b | Fabricating, laying & tying of tor steel r/f. | Tonnes | 1.71 | | |
| 5.4 | | | <u>Miscellaneous</u> | | | | |
| 5.4.4 | RA-90a | 1020(1b) | Supplying & fixing 50 mm dia. Type 400 PVC pipes as rain water outlets through deck as per drawing. | L.m | 2.26 | | |
| 5.4.7 | RA-97 | 1303(3) | Painting Bridge hand rail with weather shield Emulsion Paint Two coats | Sq.m. | 27.41 | | |
| 5.4.8 | RA-98 | 1303(4) | Stenciling and Numbering on Bridges | Nos | 2.00 | | |
| | | | | | | | |
| SUB TOTAL BILL NO -05 BRIDGE SUPER STRUCTURE CONSTRUCTION | | | | | | | |
| BILL NO - 06 MISCELLANEOUS | | | | | | | |

BILL NO - 07 DAY WORKS

| ITEM NO | DESCRIPTION | UNIT | QTY | RATE | AMOUNT RS. Cts. |
|------------|---|-------|-------|------|--------------------|
| 7.1 | Labour | | | | |
| 7.1.1 | Unskilled labour | Day | 5.00 | | |
| 7.1.2 | Semi skilled labour | Day | 5.00 | | |
| 7.1.3 | Skilled labour | Day | 5.00 | | |
| 7.1.4 | Operators | Day | 5.00 | | |
| | Total cost of Labour | | | | |
| 7.2 | Equipment | | | | |
| 7.2.1 | Backhoe loader - 2WD, 0.15 scoop capacity | Hrs | 5.00 | | |
| 7.2.2 | Farm Tractor with 3T trailer | Hrs | 10.00 | | |
| 7.2.3 | Water Bowser - 6000 ltrs | Hrs | 10.00 | | |
| 7.2.4 | Concrete Mixer - 200ltrs (10/7) | Hrs | 10.00 | | |
| 7.2.5 | Water pump - 2 inch | Hrs | 25.00 | | |
| 7.2.6 | Porker vibrator (Petrol) - 1.8m.hour | Hrs | 5.00 | | |
| 7.2.7 | Lorry 3 Ton - 3Ton | Km | 50.00 | | |
| 7.2.8 | Plate Compactor - 80kg tamper plates | Hrs | 10.00 | | |
| 7.2.9 | Excavator | Hrs | 5.00 | | |
| | Total cost of Equipment | | | | |
| 7.3 | Materials | | | | |
| 7.3.1 | Cement - Ordinary | 50kg | 5.00 | | |
| 7.3.2 | Aggregate for concrete (19mm) | Cu.m. | 2.00 | | |
| 7.3.3 | Sand | Cu.m. | 2.00 | | |
| | Total cost of Material | | | | |

Summary of Day works

| Description | Amount (Rs.) |
|--------------|--------------|
| 1. Labour | |
| 2. Equipment | |
| 3. Material | |
| Total | |

BRIDGE NEAR WELLAWATHTHA

| ITEM NO | RATE NO | PAY ITEM NO | DESCRIPTION | UNIT | QTY | RATE | AMOUNT RS. Cts. |
|--|----------------|--------------------|--|-------------|------------|-------------|----------------------------|
| BILL NO - 01 PRELIMINARY AND GENERAL | | | | | | | |
| 1.1 | LS1 | P-001 | Allow for Mobilization and Demobilization of Contractors facilities,plant and equipment | LS | Item | Allow | |
| 1.4 | LS4 | P-002 | Allow sum for Environmental monitoring and mitigation work | LS | Item | Allow | |
| 1.5 | LS5 | 302(10) | Allow sum for Construction of necessary cofferdams, shoring and bracing and their subsequent removal | LS | Item | Allow | |
| 1.6 | LS6 | 302(11) | Allow sum for Dewatering | LS | Item | Allow | |
| 1.8 | PS2 | 103(2) | Allow sum for temporary road diversion & maintenance | PS | Item | Allow | 201,400.00 |
| 1.9 | PS3 | 118(1) | Provide & maintain Project Name Board (2 m x 1.0m) | PS | Item | Allow | 22,120.00 |
| 1.10 | PS4 | 203(3) | Allow for relocation of Public Utilities | PS | Item | Allow | 66,000.00 |
| 1.11 | PS5 | P-003 | Dismantle the Existing Massonary Structures, Concrete Structures, Steel Structures & Culvert pipes | PS | Item | Allow | 331,212.00 |
| 1.12 | PS6 | P-004 | Allow sum for Surveying, Investigation & Design (Preparation of Shop Drawings) | PS | Item | Allow | 253,000.00 |
| 1.13 | PS7 | P-004A | Allow sum for Trees Plantation & maintainance | PS | Item | Allow | 4,840.00 |
| 1.15 | PS8 | 109(1) | Allow sum for Quality Control | PS | Item | Allow | 297,000.00 |
| 1.17 | | | Crane Mobilization | PS | Item | Allow | 800,000.00 |
| SUB TOTAL BILL NO -01 PRELIMINARY AND GENERAL | | | | | | | |
| BILL NO - 02 SITE CLEARING | | | | | | | |
| 2.1 | RA-01 | 201 (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 | | |
| 2.2 | RA-02 | 201(2) | Cutting tress girth 301mm to 600 mm | Nos | 10.00 | | |
| 2.3 | RA-03 | 201(3) | Cutting tress girth 601mm to 1200 mm. | Nos | 2.00 | | |
| SUB TOTAL BILL NO - 02 SITE CLEARING | | | | | | | |
| BILL NO - 03 CONSTRUCTION OF APPROCH ROAD | | | | | | | |
| EARTH WORKS | | | | | | | |
| 3.1 | RA-06 | 301(1) | Roadway excavation,soil suitable for fill roadway excavation | Cu.m | 25.00 | | |
| 3.2 | RA-07 | 301(1)a | Roadway excavation,soft soil | Cu.m | 12.50 | | |

| | | | | | | | |
|---|-------|-----------|---|-------|--------|--|--|
| 3.6 | RA-11 | 301(11) | Roadway excavation,unsuitable | Cu.m | 112.50 | | |
| 3.7 | RA-12 | 304 (1) b | Embankment construction using material from roadway excavation Type I materials | Cu.m | 47.50 | | |
| 3.8 | RA-13 | 304 (2) b | Embankment construction using barrow material Type I materials | Cu.m | 77.50 | | |
| 3.10 | RA-14 | 304(3) | Trimming, levelling and compaction of original ground | Sq.m | 100.00 | | |
| 3.11 | RA-15 | 304(6) | Embankment construction using Rock fill | Cu.m | 67.50 | | |
| 3.12 | RA-16 | 304(4) | Provide and place Geofabric | Sq.m | 225.00 | | |
| | | | CONCRETE SURFACING | | | | |
| 3.22 | RA-26 | 901B(1) | Supply, laying & compacting Grade 30 Concrete layer including Formwork | Cu.m | 27.00 | | |
| | | | GUARDSTONE FIXING | | | | |
| 3.25 | RA-97 | 808(5) | Supply & fixing Guardstones | Nos. | 20.00 | | |
| SUB TOTAL BILL NO -03 CONSTRUCTION OF APPROCH ROAD | | | | | | | |
| BILL NO - 04 CONSTRUCTION OF BRIDGE SUBSTRUCTURE | | | | | | | |
| 4.A | | | CONSTRUCTION OF ABUTMENT & WING WALLS | | | | |
| | | | FOUNDATION,SUB STRUCTURE & CAPPING BEAM | | | | |
| 4.A.1 | RA-29 | 302(1) | Excavation for structures, soil suitable for backfill | Cu.m. | 18.96 | | |
| 4.A.2 | RA-30 | 302(2) | Excavation for structures, Soft rock | Cu.m | 3.80 | | |
| 4.A.4 | RA-32 | 302(4b) | Excavation for structures, Hard rock (Using Explosive) | Cu.m | 0.94 | | |
| 4.A.5 | RA-33 | 302(5) | Excavation for structures, unsuitable soil | Cu.m | 156.38 | | |
| 4.A.6 | RA-34 | 302(5a) | Excavation for structures, Marshy material | Cu.m | 9.48 | | |
| 4.A.7 | RA-35 | 302(8) | Granular Backfill for Structures | Cu.m | 148.13 | | |
| 4.A.8 | RA-36 | P-005 | Supplying geotextile for foundation base as necessary | Sq.m | 213.63 | | |
| 4.A.9 | RA-37 | P-006 | Supplying & compacting ABC for foundation base as necessary | Cu.m | 22.08 | | |
| 4.A.10 | RA-38 | P-007 | Boulder packing for foundation base as necessary | Cu.m | 120.72 | | |
| | | | Concrete for Structure | | | | |
| 4.A.11 | RA-39 | 1001(3a) | Concrete grade15(19 mm) as screed in foundation | Cu.m. | 7.59 | | |
| 4.A.12 | RA-41 | 1001 (2) | Concrete of grade 20 (40mm) in abutment , wing wall (Mass Concrete wall) | Cu.m. | 157.92 | | |
| 4.A.14 | RA-43 | 1001 (1) | Concrete of grade 25 (20mm) in abutment , wing wall Base (Mass Concrete) | Cu.m. | 37.44 | | |

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|--|-------|-----------|---|--------|--------|--|--|
| 4.A.15 | RA-44 | 1001 (1) | Concrete of grade 30(19mm) in Foundation base,abutment, wing wall, Capping beams,ballast wall and curtain walls | Cu.m. | 85.76 | | |
| | | | Formwork | | | | |
| 4.A.20 | RA-49 | 1008(2) | Rough finish formwork for abutments & Wing walls Base | Sq.m | 54.81 | | |
| 4.A.22 | RA-51 | 1008(1) | Smooth finish formwork for abutment, wing walls, capping beams,ballast wall and curtain wall | Sq.m | 473.72 | | |
| | | | Reinforcement | | | | |
| 4.A.24 | RA-53 | 1002(1) | Fabricating & laying tor steel r/f for abutments,wing walls, capping beams,ballast wall and curtain wall | Tonnes | 14.17 | | |
| | | | Weep holes | | | | |
| 4.A.27 | RA-56 | 706(1) | Forming weep holes using type 400 PVC pipe of internal dia. Not less than 110mm | L.m | 51.80 | | |
| | | | Drainage & Backfilling | | | | |
| 4.A.28 | RA-57 | 705(1) | Backfill using aggregate 50~200mm for dry stone lining behind abutment & wing walls | Cu.m | 106.14 | | |
| 4.A.29 | RA-58 | 705(2) | Filter medium using aggregate 37.5mm behind abutment and wing walls | Cu.m | 13.42 | | |
| 4.A.30 | RA-59 | 705(3) | Clay puddle laid under the porous backfill , behind abutment and wing wall | Sq.m | 19.20 | | |
| SUB TOTAL BILL NO -04 CONSTRUCTION OF BRIDGE SUBSTRUCTURE | | | | | | | |
| BILL NO - 05 BRIDGE SUPER STRUCTURE CONSTRUCTION | | | | | | | |
| 5.2 | | | Concrete PSC Beam Superstructure | | | | |
| 5.2.1 | RA-63 | 1001 (1)b | Class A concrete of grade 40(19mm) in Bridge Deck | Cu.m | 30.00 | | |
| 5.2.2 | RA-96 | 1001 (1) | Class A concrete of grade 25(19mm) in Footwalk | Cu.m | 5.00 | | |
| | | | Beams | | | | |
| 5.2.8 | RA-69 | 1003(1f) | Supplying of 15.50m long P.S.C. concrete beams | Nos | 9.00 | | |
| 5.2.15 | RA-76 | 1003(2f) | Launching of 15.50m long P.S.C. concrete beams | Nos | 9.00 | | |
| 5.2.18 | RA-79 | 1015(1b) | 230 mm Dia.Polythene displacers supplied and filled with saw dust or similar light material in deck. | L.m | 93.00 | | |
| | | | Form work | | | | |
| 5.2.19 | RA-80 | 1008(1b) | Smooth finish form work for deck slab. | Sq.m | 74.16 | | |
| | | | Reinforcements | | | | |
| 5.2.20 | RA-81 | 1002(1a) | Fabricating & laying Tor steel reinforcement | Tonnes | 1.20 | | |
| | | | Bridge bearings | | | | |
| 5.2.26 | RA-87 | 1010(1) | 75x12mm. Hard rubber bearing pads over capping beam | L.m | 9.00 | | |
| 5.4 | | | Miscellaneous | | | | |

| | | | | | | | | |
|--|--------|----------|--|--------|-------|--|--|--|
| 5.4.1 | RA-88 | 1009(1) | M.S. angle iron & hard rubber expansion joints (Type drawing T/B/107 rev1 of RDA) | L.m | 9.00 | | | |
| 5.4.2 | RA-89 | 1011(1) | Supplying & fixing 200mm long , 20mm dia. Stainless steel bars as dowels in capping beam at fixed end. | Nos | 7.00 | | | |
| 5.4.4 | RA-90a | 1020(1b) | Supplying & fixing 50 mm dia. Type 400 PVC pipes as rain water outlets through deck as per drawing. | L.m | 4.23 | | | |
| 5.4.6 | RA-92 | 1013(1) | Bituminous sealing material supplied and laid under beam ends to prevent grout leak to capping beam. | L.m | 9.00 | | | |
| 5.4.7 | RA-97 | 1303(3) | Painting Bridge hand rail with weather shield Emulsion Paint Two coats | Sq.m. | 50.63 | | | |
| 5.4.8 | RA-98 | 1303(4) | Stenciling and Numbering on Bridges | Nos | 2.00 | | | |
| | | | | | | | | |
| 5.5 | | | Approch Slab Construction | | | | | |
| | | | Concrete | | | | | |
| 5.5.1 | RA-93 | 1001 (1) | Class A concrete of grade 25(19mm) in Approch Slab | Cu.m | 5.40 | | | |
| | | | Form work | | | | | |
| 5.5.2 | RA-94 | 1008(2) | Rough finish formwork for sides of Approch Slab | Sq.m | 3.00 | | | |
| | | | Reinforcements | | | | | |
| 5.5.3 | RA-95 | 1002(1) | Fabricating & laying Tor steel reinforcement | Tonnes | 0.43 | | | |
| SUB TOTAL BILL NO -05 BRIDGE SUPER STRUCTURE CONSTRUCTION | | | | | | | | |
| BILL NO - 06 MISCELLANEOUS | | | | | | | | |
| SUB TOTAL BILL NO -06 MISCELLANEOUS | | | | | | | | |

BILL NO - 07 DAY WORKS

| ITEM NO | DESCRIPTION | UNIT | QTY | RATE | AMOUNT RS. Cts. |
|------------|---|-------|-------|------|--------------------|
| 7.1 | Labour | | | | |
| 7.1.1 | Unskilled labour | Day | 5.00 | | |
| 7.1.2 | Semi skilled labour | Day | 5.00 | | |
| 7.1.3 | Skilled labour | Day | 5.00 | | |
| 7.1.4 | Operators | Day | 5.00 | | |
| | Total cost of Labour | | | | |
| 7.2 | Equipment | | | | |
| 7.2.1 | Backhoe loader - 2WD, 0.15 scoop capacity | Hrs | 5.00 | | |
| 7.2.2 | Farm Tractor with 3T trailer | Hrs | 10.00 | | |
| 7.2.3 | Water Bowser - 6000 ltrs | Hrs | 10.00 | | |
| 7.2.4 | Concrete Mixer - 200ltrs (10/7) | Hrs | 10.00 | | |
| 7.2.5 | Water pump - 2 inch | Hrs | 25.00 | | |
| 7.2.6 | Porker vibrator (Petrol) - 1.8m.hour | Hrs | 5.00 | | |
| 7.2.7 | Lorry 3 Ton - 3Ton | Km | 50.00 | | |
| 7.2.8 | Plate Compactor - 80kg tamper plates | Hrs | 10.00 | | |
| 7.2.9 | Excavator | Hrs | 5.00 | | |
| | Total cost of Equipment | | | | |
| 7.3 | Materials | | | | |
| 7.3.1 | Cement - Ordinary | 50kg | 5.00 | | |
| 7.3.2 | Aggregate for concrete (19mm) | Cu.m. | 2.00 | | |
| 7.3.3 | Sand | Cu.m. | 2.00 | | |
| | Total cost of Material | | | | |

Summary of Day works

| Description | Amount (Rs.) |
|--------------|--------------|
| 1. Labour | |
| 2. Equipment | |
| 3. Material | |
| Total | |

RAJAWATHTHA ALADENIYA BRIDGE

| ITEM NO | RATE NO | PAY ITEM NO | DESCRIPTION | UNIT | QTY | RATE | AMOUNT RS. Cts. |
|--|----------------|--------------------|--|-------------|------------|-------------|----------------------------|
| BILL NO - 01 PRELIMINARY AND GENERAL | | | | | | | |
| 1.1 | LS1 | P-001 | Allow for Mobilization and Demobilization of Contractors facilities,plant and equipment | LS | Item | Allow | |
| 1.4 | LS4 | P-002 | Allow sum for Environmental monitoring and mitigation work | LS | Item | Allow | |
| 1.5 | LS5 | 302(10) | Allow sum for Construction of necessary cofferdams, shoring and bracing and their subsequent removal | LS | Item | Allow | |
| 1.6 | LS6 | 302(11) | Allow sum for Dewatering | LS | Item | Allow | |
| 1.7 | PS1 | 103(1a) | 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 | 216,000.00 |
| 1.9 | PS3 | 118(1) | Provide & maintain Project Name Board (2 m x 1.0m) | PS | Item | Allow | 22,120.00 |
| 1.10 | PS4 | 203(3) | Allow for relocation of Public Utilities | PS | Item | Allow | 22,000.00 |
| 1.11 | PS5 | P-003 | Dismantle the Existing Massonary Structures, Concrete Structures, Steel Structures & Culvert pipes | PS | Item | Allow | 217,109.00 |
| 1.12 | PS6 | P-004 | Allow sum for Surveying, Investigation & Design (Preparation of Shop Drawings) | PS | Item | Allow | 121,000.00 |
| 1.13 | PS7 | P-004A | Allow sum for Trees Plantation & maintainance | PS | Item | Allow | 2,420.00 |
| SUB TOTAL BILL NO -01 PRELIMINARY AND GENERAL | | | | | | | |
| BILL NO - 02 SITE CLEARING | | | | | | | |
| 2.1 | RA-01 | 201 (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 | 160.00 | | |
| 2.3 | RA-03 | 201(3) | Cutting tress girth 601mm to 1200 mm. | Nos | 3.00 | | |
| 2.4 | RA-04 | 201(4) | Cutting tress girth 1201mm to 2000 mm. | Nos | 2.00 | | |
| SUB TOTAL BILL NO - 02 SITE CLEARING | | | | | | | |
| BILL NO - 03 CONSTRUCTION OF APPROCH ROAD | | | | | | | |
| EARTH WORKS | | | | | | | |
| 3.1 | RA-06 | 301(1) | Roadway excavation,soil suitable for fill roadway excavation | Cu.m | 15.00 | | |
| 3.2 | RA-07 | 301(1)a | Roadway excavation,soft soil | Cu.m | 7.50 | | |
| 3.6 | RA-11 | 301(11) | Roadway excavation,unsuitable | Cu.m | 67.50 | | |

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|---|-------|-----------|--|--------|--------|--|--|
| 3.7 | RA-12 | 304 (1) b | Embankment construction using material from roadway excavation Type I materials | Cu.m | 28.50 | | |
| 3.8 | RA-13 | 304 (2) b | Embankment construction using barrow material Type I materials | Cu.m | 9.00 | | |
| 3.10 | RA-14 | 304(3) | Trimming, levelling and compaction of original ground | Sq.m | 160.00 | | |
| | | | CONCRETE SURFACING | | | | |
| 3.22 | RA-26 | 901B(1) | Supply, laying & compacting Grade 30 Concrete layer including Formwork | Cu.m | 13.50 | | |
| | | | GUARDSTONE FIXING | | | | |
| 3.25 | RA-97 | 808(5) | Supply & fixing Guardstones | Nos. | 9.00 | | |
| SUB TOTAL BILL NO -03 CONSTRUCTION OF APPROCH ROAD | | | | | | | |
| BILL NO - 04 CONSTRUCTION OF BRIDGE SUBSTRUCTURE | | | | | | | |
| 4.A | | | CONSTRUCTION OF ABUTMENT & WING WALLS | | | | |
| | | | FOUNDATION,SUB STRUCTURE & CAPPING BEAM | | | | |
| 4.A.1 | RA-29 | 302(1) | Excavation for structures, soil suitable for backfill | Cu.m. | 42.46 | | |
| 4.A.2 | RA-30 | 302(2) | Excavation for structures, Soft rock | Cu.m | 5.06 | | |
| 4.A.4 | RA-32 | 302(4b) | Excavation for structures, Hard rock (Using Explosive) | Cu.m | 1.02 | | |
| 4.A.5 | RA-33 | 302(5) | Excavation for structures, unsuitable soil | Cu.m | 52.58 | | |
| 4.A.7 | RA-35 | 302(8) | Granular Backfill for Structures | Cu.m | 88.73 | | |
| | | | Concrete for Structure | | | | |
| 4.A.11 | RA-39 | 1001(3a) | Concrete grade15(19 mm) as screed in foundation | Cu.m. | 4.66 | | |
| 4.A.12 | RA-41 | 1001 (2) | Concrete of grade 20 (40mm) in abutment , wing wall (Mass Concrete wall) | Cu.m. | 111.31 | | |
| 4.A.14 | RA-43 | 1001 (1) | Concrete of grade 25 (20mm) in abutment , wing wall Base (Mass Concrete) | Cu.m. | 33.30 | | |
| 4.A.17 | RA-46 | 1001 (1) | Concrete of grade25(19mm) in Capping beams,ballast wall and curtain walls in Mass concrete Abutment | Cu.m. | 6.66 | | |
| | | | Formwork | | | | |
| 4.A.20 | RA-49 | 1008(2) | Rough finish formwork for abutments & Wing walls Base | Sq.m | 33.82 | | |
| 4.A.22 | RA-51 | 1008(1) | Smooth finish formwork for abutment, wing walls, capping beams,ballast wall and curtain wall | Sq.m | 244.91 | | |
| | | | Reinforcement | | | | |
| 4.A.24 | RA-53 | 1002(1) | Fabricating & laying tor steel r/f for abutments,wing walls, capping beams,ballast wall and curtain wall | Tonnes | 1.84 | | |
| | | | Weep holes | | | | |

| | | | | | | | |
|--|--------|-----------|--|--------|-------|--|--|
| 4.A.27 | RA-56 | 706(1) | Forming weep holes using type 400 PVC pipe of internal dia. Not less than 110mm | L.m | 43.80 | | |
| | | | Drainage & Backfilling | | | | |
| 4.A.28 | RA-57 | 705(1) | Backfill using aggregate 50~200mm for dry stone lining behind abutment & wing walls | Cu.m | 42.76 | | |
| 4.A.29 | RA-58 | 705(2) | Filter medium using aggregate 37.5mm behind abutment and wing walls | Cu.m | 5.29 | | |
| 4.A.30 | RA-59 | 705(3) | Clay puddle laid under the porous backfill , behind abutment and wing wall | Sq.m | 13.32 | | |
| SUB TOTAL BILL NO -04 CONSTRUCTION OF BRIDGE SUBSTRUCTURE | | | | | | | |
| BILL NO - 05 BRIDGE SUPER STRUCTURE CONSTRUCTION | | | | | | | |
| 5.1 | | | Steel Composite Super Structure | | | | |
| | | | Concrete | | | | |
| 5.1.2 | RA-60 | 1001 (1)b | Class A Concrete G40 (19mm) in deck slab | Cu.m. | 6.12 | | |
| | | | Formwork | | | | |
| 5.1.3 | RA-61 | 1008(1) | Smooth finish formwork for sides of deck slab | Sq.m | 4.44 | | |
| | | | Reinforcement | | | | |
| 5.1.4 | RA-62 | 1002 (1)b | Fabricating, laying & tying of tor steel r/f. | Tonnes | 0.61 | | |
| 5.2 | | | Concrete PSC Beam Superstructure | | | | |
| 5.2.2 | RA-96 | 1001 (1) | Class A concrete of grade 25(19mm) in Footwalk | Cu.m | 2.88 | | |
| | | | Form work | | | | |
| 5.2.19 | RA-80 | 1008(1b) | Smooth finish form work for deck slab. | Sq.m | 7.20 | | |
| | | | Reinforcements | | | | |
| 5.2.20 | RA-81 | 1002(1a) | Fabricating & laying Tor steel reinforcement | Tonnes | 0.12 | | |
| | | | Railings | | | | |
| 5.2.22 | RA-84 | 1019(1) | Construction of end pilasters type III with foundation in class A concrete of grade 25(19) Type drawing T/B/106 - Rev 1) | Nos | 4.00 | | |
| 5.4 | | | Miscellaneous | | | | |
| 5.4.4 | RA-90a | 1020(1b) | Supplying & fixing 50 mm dia. Type 400 PVC pipes as rain water outlets through deck as per drawing. | L.m | 4.63 | | |
| 5.4.8 | RA-98 | 1303(4) | Stenciling and Numbering on Bridges | Nos | 2.00 | | |
| 5.5 | | | Approch Slab Construction | | | | |
| | | | Concrete | | | | |
| 5.5.1 | RA-93 | 1001 (1) | Class A concrete of grade 25(19mm) in Approach Slab | Cu.m | 6.12 | | |
| | | | Form work | | | | |
| 5.5.2 | RA-94 | 1008(2) | Rough finish formwork for sides of Approach Slab | Sq.m | 3.24 | | |
| | | | Reinforcements | | | | |

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|--|-------|---------|--|--------|------|--|---|
| 5.5.3 | RA-95 | 1002(1) | Fabricating & laying Tor steel reinforcement | Tonnes | 0.49 | | |
| SUB TOTAL BILL NO -05 BRIDGE SUPER STRUCTURE CONSTRUCTION | | | | | | | |
| BILL NO - 06 MISCELLANEOUS | | | | | | | |
| SUB TOTAL BILL NO -06 MISCELLANEOUS | | | | | | | - |

BILL NO - 07 DAY WORKS

| ITEM NO | DESCRIPTION | UNIT | QTY | RATE | AMOUNT RS. Cts. |
|------------|---|-------|-------|------|--------------------|
| 7.1 | Labour | | | | |
| 7.1.1 | Unskilled labour | Day | 5.00 | | |
| 7.1.2 | Semi skilled labour | Day | 5.00 | | |
| 7.1.3 | Skilled labour | Day | 5.00 | | |
| 7.1.4 | Operators | Day | 5.00 | | |
| | Total cost of Labour | | | | |
| 7.2 | Equipment | | | | |
| 7.2.1 | Backhoe loader - 2WD, 0.15 scoop capacity | Hrs | 5.00 | | |
| 7.2.2 | Farm Tractor with 3T trailer | Hrs | 10.00 | | |
| 7.2.3 | Water Bowser - 6000 ltrs | Hrs | 10.00 | | |
| 7.2.4 | Concrete Mixer - 200ltrs (10/7) | Hrs | 10.00 | | |
| 7.2.5 | Water pump - 2 inch | Hrs | 25.00 | | |
| 7.2.6 | Porker vibrator (Petrol) - 1.8m.hour | Hrs | 5.00 | | |
| 7.2.7 | Lorry 3 Ton - 3Ton | Km | 50.00 | | |
| 7.2.8 | Plate Compactor - 80kg tamper plates | Hrs | 10.00 | | |
| 7.2.9 | Excavator | Hrs | 5.00 | | |
| | Total cost of Equipment | | | | |
| 7.3 | Materials | | | | |
| 7.3.1 | Cement - Ordinary | 50kg | 5.00 | | |
| 7.3.2 | Aggregate for concrete (19mm) | Cu.m. | 2.00 | | |
| 7.3.3 | Sand | Cu.m. | 2.00 | | |
| | Total cost of Material | | | | |
| | | | | | |

Summary of Day works

| Description | Amount (Rs.) |
|--------------|--------------|
| 1. Labour | |
| 2. Equipment | |
| 3. Material | |
| Total | |

Section - 8

Drawings

DRAWINGS

BRIDGE ACROSS THUDUWEGODA ELA

| No. | Description | Drawing No. | Nor. Of Drawings |
|-----|------------------------------|-------------|------------------|
| 1 | S Lab and Pad Footing Detail | - | 1 |
| 2 | RB and LB Abutment Detail | - | 1 |

WATHTHEHENA BRIDGE BY REPLACING WITH A CONCRETE DECK

| No. | Description | Drawing No. | Nor. Of Drawings |
|-----|--------------------------------------|---------------------|------------------|
| 1 | Slab Single Span Bridge | DD/D/CP/RBP/MSLB/03 | 1 |
| 2 | RB and LB Abutment Detail | - | 1 |
| 3 | Slab and Pad Footing Details | - | 1 |
| 4 | Typical Mass Concrete Retaining Wall | DD/D/CP/RBP/MR/01 | 1 |

BRIDGE NEAR WELLAWATHTHA

| No. | Description | Drawing No. | Nor. Of Drawings |
|-----|--|------------------------------|------------------|
| 1 | Composite Single Span Bridge | DD/D/CP/RBP/MST/03 | 1 |
| 2 | Details of Deck sections at Abutment Bracing | DD/D/CP/RBP/S/DECK/CW 3.5/01 | 1 |
| 3 | Typical Details | DD/D/CP/RBP/TY/01 | 1 |
| 4 | Approach Slab | DD/D/CP/RBP/TY/06 | 1 |
| 5 | Type Handrails and Uprights | T/B/102/A-B | 1 |
| 6 | End Pillaster with Different Types of Foundation and Precast Guard Stone | T/B/106-REV-1 | 1 |

RAJAWATHTHA ALADENIYA BRIDGE

| No. | Description | Drawing No. | Nor. Of Drawings |
|-----|--|------------------------------|------------------|
| 1 | Details of Deck sections at Abutment Bracing | DD/D/CP/RBP/S/DECK/CW 3.5/01 | 1 |
| 2 | Typical Details | DD/D/CP/RBP/TY/01 | 1 |
| 3 | Approach Slab | DD/D/CP/RBP/TY/06 | 1 |
| 4 | Type Handrails and Uprights | T/B/102/A-B | 1 |
| 5 | End Pillaster with Different Types of Foundation and Precast Guard Stone | T/B/106-REV-1 | 1 |
| 6 | Typical Mass Concrete Retaining wall | DD/D/CP/RBP/MR/01 | 1 |

Section - 9

Standard Bid Forms

- * 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]*

Beneficiary: Director General, Road Development Authority, "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]* (herein after called "the Bid") for the execution of **Construction of Bridge Across Thuduwegoda Ela, Waththehena Bridge by Replacing With a Concrete Deck, Bridge Near Wellawaththa, Rajawaththa Aladeniya Bridge**, under Contract No: **RDA/South/Gall.Mt/GSP/CECB/32**. 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:

Designation

Name of the Organization

Date:

Witness:

Name NIC No Signature

Name NIC No Signature

Note: Any bid security which has deviated from this bid Security format shall be considered as non-responsive

FORM FOR AFFIDAVIT FOR THE CURRENT COMMITMENTS

Director General,
Road Development Authority

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.) |
|--------------------|----------------------|--------------------|-------------------------------|------------------------|
| Highways* | | | | |
| | | | | |
| | | | | |
| Bridges* | | | | |
| | | | | |
| | | | | |
| Buildings* | | | | |
| | | | | |
| | | | | |
| Irrigation* | | | | |
| | | | | |
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| | | | | |
| Total | | | | |

.....

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 (RDA)
1st Floor, "Maganeguma Mahamedura",
216, Denzil Kobbekaduwa Mawatha,
Battaramulla, Sri Lanka

SUB: Letter from the bank for providing a line of credit in favour of¹ in case of award to them of works for the Contract of **Construction of Bridge Across Thuduwegoda Ela, Waththehena Bridge by Replacing With a Concrete Deck, Bridge Near Wellawaththa, Rajawaththa Aladeniya Bridge** (Name of the Project) UNDER Contract No: **RDA/South/Gall.Mt/GSP/CECB/32**

Dear Sir,

We² bankers of³ 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....., (Name of the Project) under Contract No: 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

¹ Name of Beneficiary / Bidder

² Name of Bank

³ Name of Beneficiary / Bidder

Note - Does not provide it strictly according to given Form shall be treated as non responsive Revolving Line of Credit

Check List for Bidders

| | ITB clause | Yes | Reference |
|--|------------|-----|-----------|
| Form of Bid | | | |
| Completed? | 18 | | |
| Signed? | 18 | | |
| No of addendum issued (<u>taken to form of Bid</u>) | | | |
| Bid security | | | |
| Addressed to the Employer? | 16 | | |
| Format as required? | 16 | | |
| Issuing agency as specified? | 16 | | |
| Amount as required? | 16 | | |
| Validity 28 days beyond the validity of bid? | 16 | | |
| Qualification information | | | |
| Copy of ICTAD Registration? (Registration No, Grade, Specialty, Expiry Date) | 4 | | |
| Copy of VAT registration or a letter form Inland Revenue that the Bidder is not VAT registered? | 4 | | |
| Authentication of for signature (Power of Attorney)? | 4 | | |
| 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) | 4 | | |
| A letter from a <u>Bank</u> on the provision of credit facilities? | 4 | | |
| The Affidavit For The Current Contractual Commitments? | 4 | | |
| Construction Programme and Cash Flow Chart? | 4 | | |
| Similar work completed in last 10 years | 4 | | |
| Major items of construction equipment proposed | 4 | | |
| Qualification and Experience of key staff | 4 | | |
| Addendum | | | |
| Content of addendum (if any) taken in to account? | 10 | | |
| Bid package | | | |
| All the documents given in ITB clause 12 enclosed in the original and copy? | 12 | | |
| ITB clause 19 followed before sealing the bid package? | 19 | | |