

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

MINISTRY OF TRANSPORT & HIGHWAYS

ROAD DEVELOPMENT AUTHORITY



BIDDING DOCUMENT

FOR

**RECONSTRUCTION OF BRIDGE NO. 8/5 ON AKKARAIPATTU –
SAGAMAM ROAD (B002)**

CONTRACT NO: RDA/MM/EP(AKK)/GOSL(WB)/2024/05

BID SUBMITTED BY

.....

[Name of the Bidder]

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Project Location Map

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): -

STANDARD BIDDING DOCUMENT

PROCUREMENT OF WORKS

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

ICTAD

- ICTAD PUBLICATION NO. – ICTAD/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 '

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

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 ICTAD 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 Security
- 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 **'RECONSTRUCTION OF BRIDGE NO. 8/5 ON AKKARAIPATTU – SAGAMAM ROAD (B002)'** under Contract No: **RDA/MM/EP(AKK)/GOSL(WB)/2024/05** 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

Authorized Signature
Name and title of Signatory
Name of Agency

FORM OF PERFORMANCE SECURITY

(Unconditional)

.....
[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:

PERFORMANCE GUARANTEE No.:

We have been informed that [Name of Contractor]

(hereinafter called, "the Contractor") has entered into Contract No

RDA/MM/EP(AKK)/GOSL(WB)/2024/05. dated with you, for the '**RECONSTRUCTION OF BRIDGE NO. 8/5 ON AKKARAIPATTU – SAGAMAM ROAD (B002)**' (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 of2024 [28 days beyond the intended completion date] and any demand for payment under it must be received by us at this office on or before that date.

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] 2024, 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 ‘**RECONSTRUCTION OF BRIDGE NO. 8/5 ON AKKARAIPATTU – SAGAMAM ROAD (B002)**’, under Contract No: **RDA/MM/EP(AKK)/GOSL(WB)/2024/05** (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.

.....

.....

Authorized Signatory of Contractor
Name of Signatory:

Authorized signature of Employer
Name & Title of Signatory

Common Seal

In the presence of Witness:

In the presence of Witness:

.....
Name

.....
Name

NIC No.

Address

Address

FORM OF ADVANCE PAYMENT SECURITY

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

Beneficiary: Director General, Road Development Authority, 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/MM/EP(AKK)/GOSL(WB)/2024/05** dated2024, with you, for the ‘**RECONSTRUCTION OF BRIDGE NO. 8/5 ON AKKARAIPATTU – SAGAMAM ROAD (B002)**’ (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 Intended Completion Date]

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 NoSignature

Name NIC NoSignature

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/MM/EP(AKK)/GOSL(WB)/2024/05** dated2023, with you, for the execution of '**RECONSTRUCTION OF BRIDGE NO. 8/5 ON AKKARAIPATTU – SAGAMAM ROAD (B002)**' (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 Liability 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'

ICTAD Publication No. ICTAD/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 ICTAD 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

GOVERNMENT OF THE DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF TRANSPORT & HIGHWAYS
ROAD DEVELOPMENT AUTHORITY
INVITATION FOR BIDS

1. The Chairman, Road Development Authority Procurement Committee, on behalf of the Road Development Authority (RDA), invites sealed bids from eligible and qualified bidders for the **project** described below:-

Contract No.	Contract Name	Engineer's Estimate w/o contingencies (Mn)	CIDA Grade	Bid Security (Rs) (Mn)	Contract Period (Calendar days)
RDA/MM/EP(AKK)/GOSL(WB)/2024/05	Reconstruction of Bridge No. 8/5 on Akkaraipattu – Sagamam Road (B002).	64.5 Mn	C4 or above	1.1	364

2. The work consists of construction of single span of 7.01 m long bridge of 7.4 m wide clear carriageway, 2/1.5 wide footwalk on both sides and mass concrete spread footing abutment & wingwalls.
3. Bidding will be conducted through the National Competitive Bidding Procedure.
4. To be eligible for contract award, the successful bidder shall be currently registered with the Construction Industry Development Authority (CIDA) in grade given in the above table in **Bridge** specialty.
5. Interested bidders may obtain further information from the following offices and inspect the bidding documents via www.rda.gov.lk from 29.05.2024.
- Additional Provincial Director (Akkaraipattu), Road Development Authority, Akkaraipattu.
T: 067-2277428 Fax: 067-2278971
 - Deputy Director General (RM & M), Road Development Authority, 6th Floor, "Maganeguma Mahamedura", 216, Denzil Kobekaduwa Mawatha, Battaramulla.
T P :011-2882196 Fax: 011-2882195
6. The Pre-Bid meeting will be held at **10:00 hrs.** on **05/06/2024** at the office of the **Additional Provincial Director (Akkaraipattu), Road Development Authority, Akkaraipattu** and a site visit will be arranged thereafter if necessary.
7. A complete set of Bidding Documents in English language shall be purchased by interested bidders on submission of a written application and valid cash deposit slip of non - refundable tender fee (contract number and name of the contractor should be indicated on the cash deposit slip) to the **Additional Provincial Director (Akkaraipattu), RDA, Akkaraipattu OR Deputy Director General (RM & M), 6th Floor, "Maganeguma Mahamedura", 216, Denzil Kobekaduwa Mawatha, Battaramulla** from 29/05/2024 until 18/06/2024 during 09:00 hrs to 15:00 hrs.
Non - refundable tender fee of Rs. 15,071.50 (with SSCL & VAT) can be paid by depositing cash to the following account.
- Account Name : Director General – RDA
 - Account Number : 0000001943
 - Bank Name : Bank of Ceylon – Corporate Branch
- As per the Public Contract Act No. 3 of 1987, only the Agents and Successful winners of tenders shall be registered in Department of Registrar of Companies.
8. Bid shall be accompanied by a Bid- Security for an amount given in the above table. Bid- Security shall be valid up to **16/10/2024**. Bids shall be valid up to **18/09/2024**.

9. Bids shall be delivered in **duplicate** to the **Chairman, Road Development Authority Procurement Committee, C/o Director General, Road Development Authority, 1st Floor, "Maganeguma Mahamedura", Denzil Kobekaduwa Mawatha, Battaramulla** on or before **14:00 hrs** on **19/06/2024**. Late bids will be rejected. Bids will be opened soon after the closing, in the presence of the bidders' or their representatives who choose to attend.

**The Chairman,
Road Development Authority Procurement Committee
Road Development Authority,
First Floor, "Maganeguma Mahamedura",
216, Denzil Kobekaduwa Mawatha, Battaramulla.**

Section - 4

Form of Bid and Qualification Information

FORM OF BID

**RECONSTRUCTION OF BRIDGE NO. 8/5 ON AKKARAIPATTU – SAGAMAM ROAD (B002)
UNDER
CONTRACT NO: RDA/MM/EP(AKK)/GOSL(WB)/2024/05**

To: 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 of202... 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 treated 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)
For Joint Venture	Please attach draft copy of Joint Venture Agreement
Authentication of Signatory	(Attach original with form of bid & a photo copy as annex -04)
Value Of Construction works performed (Attach certified copy of Audited Financial Report)	(Attach as Annex 05)
Year 2022/2023	
Year 2021/2022	
Year 2020/2021	
Year 2019/2020	
Year 2018/2019	

Details of Contract works in hand

(Attach as annex 06)

Specialty	Name of the Contract	Name of the Client	Initial Contract Amount (Rs.)	Outstanding Work (Rs.)	Expected date of completion
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 positive (+)

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

Details of Performance of Contracts

Project Name	Contract No.	Contract Period (Days)	Initial/Revised completion Date	Substantial Completion Date

*Work completed/ongoing in last five years

**If EOT is not submitted, submit the recommendation report from the Engineer for the Contract with reasons.

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

The Scope of the Work is **Reconstruction of Bridge No. 8/5 on Akkaraipattu – Sagamam Road.**

The work consists of Construction of single span 7.01 m long bridge of 7.4 m clear carriageway, 2/1.5 footwalk on both sides and mass concrete spread foundation abutment & wingwalls.

The Site is located in **Ambara** District.

Clause 1.2

Time for completion is **364 Days** from the Start Date:

Clause 1.3

- a) The Bidding Documents shall be inspect from the RDA web site [www.rda.gov.lk] from 29/05/2024 to 18/06/2024.
- b) The non-refundable tender fee of **Rs. 15,071.50** with SSCL & VAT can be paid by depositing cash to the following account.
- | | |
|---------------------|-------------------------------------|
| (i) Account Name | : Director General – RDA. |
| (ii) Account Number | : 0000001943 |
| (iii) Bank Name | : Bank of Ceylon – Corporate Branch |
- c) The Bidding Documents shall be collected during working hours from *09.00 Hrs to 15.00 Hrs* from the office of the Additional Provincial Director (Akkaraipattu), RDA, Akkaraipattu or Deputy Director General (RM & M), 6th Floor, “Maganeguma Mahamedura”, 216, Denzil Kobbekaduwa Mawatha, Battaramulla from 29/05/2024 until 18/06/2024.

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 or above **grades in Bridge 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)
- Certified 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
- 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 carry out 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.
- Performance of the bidder in previous contracts in last five years.

Clause 4.4

- Average annual volume of construction work performed during the last five years shall be at least **Rs. 111.5 million**

Annual Average Construction Turnover (AACT) is calculated as follows,

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

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

- The bidder should have, experience in 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. 52.0 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. 18.5 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 positive (+).

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.

Add new clause 4.5

Clause 4.5

- Any Bidder who has abandoned any of the previous contracts awarded to him.
- Any Bidder who has delayed contracts awarded to him beyond period of 50% of the respective contract period in last five years before date.....(28 days beyond the bid opening date) due to contractor's default.
- If any contract has been terminated due to the contractor's default within last five years before date(28 days beyond the bid opening date)

If any bidder has one or more poor performed/ performing contracts shall be considered as non – responsive.

$$\text{Contract Period} = \text{Original Contract Period} + \text{Approved EOTs}$$

C. PREPARATION OF BID

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

- a. Deputy Director General (RM & M), Road Development Authority, 6th Floor, "Maganeguma Mahamedura", Denzil Kobbekaduwa Mawatha, Battaramulla.
T P :011-2882196 Fax: 011-2882195
- b. Additional Provincial Director (Akkaraipattu),
Road Development Authority,
Akkaraipattu.
T.P: 067 - 2277428, Fax: 067-2278971

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 18/09/2024.

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. 1,100,000.00.
- Valid until 16/10/2024.
- 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 Additional Provincial Director (Akkaraipattu), Road Development Authority, Akkaraipattu at 10.00 a.m. on 05/06/2024. 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, RDA Procurement Committee
C/o Director General, Road Development Authority,
1st Floor, "Maganeguma Mahamedura", 216, Denzil Kobbekaduwa Mawatha,
Battaramulla*

Clause 19.2 (b)

The name of the Contract is '**RECONSTRUCTION OF BRIDGE NO. 8/5 ON AKKARAIPATTU – SAGAMAM ROAD (B002)**', UNDER Contract No: RDA/MM/EP(AKK)/GOSL(WB)/2024/05

Clause 20.1

The deadline for submission of bids shall be 2.00 p.m. on 19/06/2024.

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

The name of Authorized Person who acting on behalf of Employer for the purpose of the Contract shall be as per the RDA circular no. RDA/ADGP/CIR/VOL-3 dated 8th of January 2024.

Name of Employer’s Representative will be notified later.

- 1.1 The Engineer for the Contract will be notified later.

Engineer’s Representative: Will be notified later

- 1.1 The Work consists of construction of single span 7.01 m long bridge of 7.4 m clear carriageway , 2/1.5 m footwalks on both sides and mass concrete spread foundation abutment & wingwalls.

The scope of the work is Reconstruction of bridge no. 8/5 on Akkaraipattu – Sagamam Road (B002)

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. & 10 years working experience in similar nature. |
| b. | Contract Administration | Minimum qualification shall be Diploma in Civil Engineering or Quantity Surveying in recognized institute with 3 years working experience in relevant field. |

- 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 **364 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 Liability Period is 364 Days.
- 39.2 Engineer may order variations up to a total cumulative value of not exceeding the contingencies provided in the priced BOQ when an emergency situation occurs and to ensure proper implementation of construction activities in a timely manner. Any variation order which involves the increase of contract price or variation order on change of scope would need the prior approval of the Employer.
- 43.1 Replace the second sentence of Clause 43.1 “The Employer shall pay 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 Price Adjustment
The contract is subjected to price adjustment.

Indices No	NAME OF INPUT	PERCENTAGE
L3	Unskilled Labour	21.1
M4	Cement	9.5
P3	Fuel	9.3
M41	Prestressed Bridge Beams	9.0
P1	Small Equipment	6.8
M13	Steel Reinforcement	6.6
M7	Metal	6.2
P2	Heavy Equipment	5.2
M43	Precast Items for Bridges & Roads	4.7
L2	Semiskilled Labour	4.1
L1	Skilled Labour	3.6
M21	Formwork Timber	2.2
M8	Sand	1.7

Non-adjustable items shall be Bill No. 01 – Preliminaries & General, Bill No.04 – Day Works, and all PS & LS 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. 37,240.00** per Day.

The maximum amount of Liquidated Damages for the whole of the works shall be 10% (ten percent) of the Initial Contract Price.

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 and shall be issued by a Bank 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 plus following percentage of actual cost shall be paid to the Contractor for Provisional Sum of the Bill of Quantities.”

1. For the works executed by Utility Authorities - 10%
2. For the works directly executed by the Contractor – 20%
3. For supplying and services-10%

AS BUILT DRAWINGS

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.

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.

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.

PRELIMINARIES & GENERAL

P001. Mobilization and Demobilization

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

Payment

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

Item No	Description	Pay Unit
P (001)	Allow for mobilization & demobilization	L.S.

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

**RECONSTRUCTION OF BRIDGE NO. 8/5 ON AKKARAIPATTU – SAGAMAM ROAD (B002)
CONTRACT NO. RDA/MM/EP(AKK)/GOSL(WB)/2024/05**

<i>Bill No</i>	<i>Description</i>	<i>Amounts / Rs</i>
<i>I</i>	Preliminaries & General	
<i>2 (a)</i>	Removal of Existing Structure	
<i>2 (b)</i>	Construction of Foundation & Sub structure	
<i>2 (c)</i>	Construction of Super structure	
<i>2 (d)</i>	Miscellaneous Structures	
<i>3</i>	Construction of Approaches	
<i>4</i>	Day Works	
A	Sub Total-01	
B	Provisional sums (PS)	
C	Sub Total -02 without PS (A-B) (deduct PS from sub total 01)	
<i>D</i>	Discount if any	Amount in words
		Amount in figures
E	Sub Total 03 (C -D)	
F	Sub Total 04 with PS (E+B) (add PS to sub total 03)	
<i>G</i>	Allow for physical contingencies 10% (F*10%)	
<i>H</i>	Allow for price contingencies 5% (F*5%)	
<i>I</i>	Bid Price (F+G+H) [Form of Bid price]	
<i>J</i>	VAT (18%*I)	
K	Bid Price with VAT (I+J)	

Amount in words: _____

Name of Authorized Officer: _____

Signature: _____

BILL NO. 01**PRELIMINARIES AND GENERAL FOR RECONSTRUCTION OF BRIDGE NO. 8/5 ON
AKKARAIPATTU - SAGAMAM ROAD**

Item No.	Pay Item	Description	Qty	Unit	Rate Rs.	Amount	Rs.
1	P(001)	Allow for mobilisation & demobilisation	Item	L.S.			
2	203(3)	Utility diversions	Item	P.S.			2,000,000.00
3	103(1)	Allow for safety of road users including barricading lighting, watching, traffic controlling, providing temporary sign boards & maintain existing road.	12	Month			
4	118(1)	Provision of project name boards as directed by the Engineer	2	Nos.			
5	119(1)	Allow for all risk insurance, workmen compensation & third party	Item	L.S.			
6	119(2)	Allow for all bond & guarantees.	Item	L.S.			
SUMMARY OF BILL NO. 01							

BILL NO 02

RECONSTRUCTION OF BRIDGE NO. 8/5 ON AKKARAIPATTU - SAGAMAM ROAD AS PER DRAWING NOS. EP/B/1353/1, 1A, 1B & 2 TO 5

Item	Pay Item	Description	Quantity	Unit	Rate	Amount
<u>A. REMOVAL OF EXISTING STRUCTURES</u>						
A.1	202(1b)	Removal and disposal of existing bridge deck, dismantling of steel work, transporting the reusable material to a place within 10km. as directed and stacking the same after completion of the bypass and allowing traffic on the same and demolishing the existing substructure to level specified in the drawing.	Item	L.S.		
A.2	202(1b)	Removal and disposal of existing bridge foundation in the area under new foundation.	Item	P.S.		500,000.00
<u>B. FOUNDATION & SUBSTRUCTURE</u>						
<u>Abutment & Wingwall</u>						
<u>Clearing & Grubbing</u>						
B.1	201(1)	Clearing & Grubbing	200.00	m ²		
<u>Excavation & Backfill</u>						
B.2	302(1)	Excavation in unclassified soil and backfill for abutments, and wingwalls.	470.00	m ³		
B.3	302(2)	Excavation in weathered rock.	10.00	m ³		
B.4	302(10)	Construction of necessary cofferdams cribs sheeting, shoring and bracing and their subsequent removal.	Item	L.S.		
B.5	302(11)	Dewatering	Item	L.S.		
<u>Concrete For Structures</u>						
B.6	1001(3a)	Class C concrete of nominal mix 1:3:6(20) as screed under foundation slabs of abutments & wingwalls.	7.50	m ³		
B.7	1001(1d)	Class A concrete of Grade 25 (20) in foundation slabs of abutments & wingwalls.	60.00	m ³		
B.8	1001(2a)	Class B concrete nominal mix 1:3:6 (40) in abutments & wingwalls.	250.00	m ³		
B.9	1001(1c)	Class A concrete of Grade 25(20) in capping beams, ballast walls, curtain walls, bearing pads and approach slabs.	23.00	m ³		
<u>Formwork</u>						
B.10	1008(2)	Rough finish formwork for foundation slabs of abutments & wingwalls.	50.00	m ²		
B.11	1008(1a)	Smooth finish formwork for abutments & wingwalls	490.00	m ²		

Item	Pay Item	Description	Quantity	Unit	Rate	Amount
B.12	1008(1b)	Smooth finish formwork for abutment capping beams, ballast walls, curtain walls, bearing pads and approach slabs.	64.00	m ²		
		<u>Reinforcement</u>				
B.13	1002(1a)	Cold worked deformed high yield steel bars of Grade 460 in foundation slabs of abutments and wingwalls.	3.80	M.T.		
B.14	1002(1a)	Cold worked deformed high yield steel bars of Grade 460 in abutments & wingwalls junction.	1.00	M.T.		
B.15	1002(1b)	Hot rolled mild steel bars of Grade 250 in bearing pads and approach slabs.	0.10	M.T.		
B.16	1002(1a)	Cold worked deformed high yield steel bars of Grade 460 in abutment capping beams, curtain walls, ballast walls, bearing pads and approach slabs.	1.00	M.T.		
		<u>Weep Holes</u>				
B.17	706(1)	Forming weep holes in abutments & wingwalls using 110mm dia. P.V.C. pipes and finished smooth with dripledge and surround complete as per drawing.	50.00	L.m.		
		<u>Drainage Backfill Material</u>				
B.18	705(1)	50-200mm. dry stone lining behind abutment & wingwalls as per drawing.	75.00	m ³		
B.19	705(2)	75mm. thick 40mm. stone filter layer behind dry stone lining as per drawing.	9.00	m ³		
B.20	705(3)	Clay puddled & laid behind abutments & wingwalls to form the impervious layer as per drawing.	20.00	m ²		
		<u>C. SUPER STRUCTURE</u>				
		<u>Concrete For Structures</u>				
C.1	1001(1a)	Infiller concrete of Class A Grade 40(20) between beams in bridge deck inclusive of end make up, screed and camber.	7.50	m ³		
C.2	1001(1c)	Class A concrete of Grade 25(20) in footwalks & footwalk ramps.	7.50	m ³		
		<u>Formwork</u>				
C.3	1008(1b)	Smooth finish formwork on sides for deck & foot walk concreting.	21.00	m ²		
		<u>Reinforcement</u>				
C.4	1002(1b)	Hot rolled mild steel bars of Grade 250 in tie rods of deck.	0.50	M.T.		
C.5	1002(1a)	Cold worked deformed high yield steel bars Grade 460 in deck & foot walks.	0.70	M.T.		
		<u>Prestressed Concrete</u>				

Item	Pay Item	Description	Quantity	Unit	Rate	Amount
C.6	1003(1)	Pre-tensioned precast concrete beams of cast length 7.01m supplied as per drawing No. i/B/30.	14	Nos.		
C.7	1003(1)	Pre-tensioned precast concrete end beams of cast length 7.01m supplied as per drawing No. T/B/30.	2	Nos.		
C.8	1003(2)	Pre-tensioned precast concrete beams launched into position as per drawing.	16	Nos.		
		<u>Railings</u>				
C.9	1018(1)	Precast reinforced concrete railing & uprights in Class A Grade 25(20) concrete inclusive of light reinforcement & mould as per drawing No. T/B/102 A & B.	20.00	L.m.		
C.10	1019(1)	End pilasters in Class A concrete of Grade 25(20) with foundation type IV as per drawing No. T/B/513.	4	Nos.		
		<u>Concrete Kerbs</u>				
C.11	807(1)	Precast kerb in Class B Grade 25(20) concrete with light reinforcement & mould as per drawing No. T/B/512.	35.00	L.m.		
C.12	807(4)	Lower kerbs in Class B Grade 20(14) concrete cast insitu as per drawing.	35.00	L.m.		
		<u>Expansion joints</u>				
C.13	1009(1)	Supplying and fixing of mild steel angle iron & hard rubber expansion joint as per drawing No. T/B/107 Rev. 1	21.00	L.m.		
		<u>Bridge Bearings</u>				
C.14	1010(2)	75x12mm. hard rubber bearing pads supplied & laid over capping beam and corbel for approach slab as per drawing.	37.00	L.m.		
		<u>Miscellaneous</u>				
C.15	1012(1)	20mm Dia. 200mm long stainless steel dowels supplied fixed and grouted at fixed ends as per drawing.	18	Nos.		
C.16	1011(1)	25mm Dia. 200mm long hot rolled mild steel dowels supplied fixed and grouted for the approach slab as per drawing.	32	Nos.		
C.17	1013(1)	Bituminous sealing felt under beams at ends to prevent grout leak on to capping beam as per drawing.	21.00	L.m.		
C.18	1014(1)	Bituminous sealing felt under approach slabs at capping beam ends to prevent bitumen running on capping beam as per drawing.	15.00	L.m.		
C.19	1016(1d)	Service duct of size 350x200mm. formed in deck as per drawing.	15.00	L.m.		

Item	Pay Item	Description	Quantity	Unit	Rate	Amount
C.20	1017(1a)	500x450x75mm. thick cover slabs for service ducts in Class B Grade 25(20) concrete inclusive of light reinforcement and smooth shuttering provided as per drawing.	32	Nos.		
C.21	806(4)	450x450x50mm. thick paving slabs in Class B Grade 25(20) concrete inclusive of light reinforcement and smooth shuttering provided as per drawing.	11.00	m ²		
C.22	1020(1a)	110mm. dia. P.V.C. rain water outlets supplied and fixed through deck as per drawing.	6	Nos.		
C.23	1020(1c)	50mm. dia. P.V.C. drain pipes supplied and fixed through deck as per drawing.	6	Nos.		
C.24	812(1)	12 m high steel lamp post with single arm bracket , supplied & fixed as per drawing. (Drg. No. T/0041/B) This includes installation of electric cables, fixing of lamps and other necessary appliances.	2	Nos.		
C.25	1403(7)	Supply & application of weather seal enamel paint on sides of bridge deck, end pilasters, uprights & railing etc. as specified by the Engineer.	50.00	m ²		
		<u>Tack Coat</u>				
C.26	502(2)	Medium curing cut back bitumen (10-20%) or emulsified bitumen Grade CSS-1 or CSS-1h tack coat applied at the rate of 0.5 litres/m ² to concrete deck and approach slab surface.	100.00	m ²		
		<u>Asphaltic Concrete Surfacing</u>				
C.27	506(2)	Asphaltic Concrete Surfacing compacted to a thickness of 50mm over the concrete deck & approach slab.	12.00	M.T.		
		<u>D. MISCELLANEOUS STRUCTURES</u>				
D.1	103(2)	Providing & maintaining of a temporary by-pass to accommodate the traffic flow during the construction, and removing of the same after completion of new bridge.	Item	L.S.		
D.2		Construction of 2 Nos. reinforced concrete staircase to access underneath of the bridge.	Item	P.S.		250,000.00
		<u>SUMMARY OF BILL NO 02</u>				
		A. Removal of Existing Structures				
		B. Foundations & Sub Structures				
		C. Super Structure				
		D. Miscellaneous Structures				
		TOTAL				

BILL NO 03

CONSTRUCTION OF IMMEDIATE APPROACHES FOR BRIDGE NO. 8/5 ON AKKARAIPATTU - SAGAMAM ROAD - AS PER DRAWING NOS. EP/B/1353/1, 1A, 1B & 2 TO 5

Item	Pay Item	Description	Quantity	Unit	Rate	Amount
<u>A. SITE CLEARING</u>						
<u>Clearing & Grubbing</u>						
A.1	201(1)	Clearing & Grubbing	1,350.00	m ²		
<u>Removal of Structures and Obstructions</u>						
A.2	202(6)	Removal of Structures and obstructions where necessary and transport reusable material to a place within 10.0Km. as directed and staking the same.	Item	P.S.		300,000.00
<u>B. EARTHWORKS</u>						
<u>Roadway excavation</u>						
B.1	301(1)	Roadway excavation in unclassified soil.	10.00	m ³		
<u>Embankment Construction</u>						
B.2	304(2a)	Embankment Construction using borrow material of type I compacted in position.	270.00	m ³		
B.3	304(2b)	Embankment Construction using borrow material of type II compacted in position.	135.00	m ³		
B.4	304(3)	Trimming Levelling & Compacting of Original ground.	600.00	m ²		
<u>Shoulder Construction</u>						
B.5	409(1)	Shoulder construction using shoulder material and compacted in position.	125.00	m ³		
<u>Top Soiling</u>						
B.6	801(1)	Top soil supplied, piled & spread.	75.00	m ³		
<u>Grassing</u>						
B.7	802(4)	Solid sodding	1,000.00	m ²		
<u>Guard Stones</u>						
B.8	808(5)	Precast Concrete guard stones supplied and fixed as per Drawing.	8	Nos		
<u>Rip Rap Protection</u>						
B.9	804(1)	Grouted rip rap filled with 1:3 cement mortar as per drawing.	12.00	m ³		

Item	Pay Item	Description	Quantity	Unit	Rate	Amount
<u>C. ROAD PAVEMENT</u>						
<u>Soil Sub Base</u>						
C.1	401(1a)	Soil sub base type I material compacted in position.	100.00	m ³		
C.2	401(1b)	Soil sub base type II material compacted in position.	50.00	m ³		
<u>Reconstruction of Existing Base</u>						
C.3	408(2a)	Scarifying existing surface as necessary.	50.00	m ²		
<u>Dense Graded Aggregate Base</u>						
C.4	405(1)	Dense graded aggregate base of nominal maximum size 50mm for existing carriageway and widening sections to a maximum thickness of 225mm as per drawing.	150.00	m ³		
<u>Prime Coat</u>						
C.5	501(5)	M.C. Cutback bitumen (20-45%) or MC30 or Bituminous emulsion of Grade CSS-1 or CSS 1h applied at the rate of 0.9 -1.5 litre per square meter over the finished dense grade aggregate base.	650.00	m ²		
<u>Tack coat</u>						
C.6	502(2a)	M.C. Cutback bitumen (10-20%) or emulsified bitumen Grade CSS-1 or CSS 1h tack coat applied at the rate of 0.5 litre per square meter over the finished dense grade aggregate base before the application of asphaltic concrete binder course.	650.00	m ²		
C.7	502(2b)	M.C. Cutback bitumen (10-20%) or emulsified bitumen Grade CSS-1 or CSS 1h tack coat applied at the rate of 0.5 litre per sqr meter over the asphaltic concrete binder course before the application of asphaltic concrete surfacing.	1,200.00	m ²		
<u>Asphaltic Concrete Surfacing</u>						
C.8	506(2)	Asphaltic Concrete binder course compacted to a thickness of 50mm in position.	80.00	M.T.		
C.9	506(2)	Asphaltic Concrete Surfacing compacted to a thickness of 50mm in position.	160.00	M.T.		
<u>Road Markings</u>						
C.10	810	Application of road markings as per specification.	60.00	m ²		

SUMMARY OF BILL NO 03

- A. SITE CLEARING
- B. EARTH WORK
- C. ROAD PAVEMENT

TOTAL

SCHEDULE 'B' TO BILL OF QUANTITIES DAY WORK MATERIALS ON SITE

ALL QUANTITIES ARE PROVISIONAL

The rate entered in this Schedule shall form the schedule of Materials on Site for the purpose of the Contract.

The rates shall be the cost of purchase including any customs duty demurrage or other freight charges, loading and off loading, haulage and any other expenses in connection with bringing of the material of site. The rate given must be supported by quotations and other documentary evidence.

Additional items may be written in with the prior agreement of the Engineer. The rates entered in this Schedule shall also be used for works ordered to be carried out as Day works.

All Quantities are Provisional

01. LABOUR

No.	Grade of Staff	Qty	Unit	Unit Rate (8 hr/day)	Amount (Rs.)
1	Unskilled labour	10	Days		
2	Semi skilled labour	10	Days		
3	Skilled labour	5	Days		
4	Mechanic	2	Days		
5	Driver	3	Days		
6	Operator	5	Days		
7	Surveyor	1	Days		
	Total				

02. **EQUIPMENT**

The rates are exclusive of Driver, Operator or Attendant, but inclusive of fuel and Consumable stores.

No.	Description	Capacity	Qty	Unit	Rate Rs.	Amount Rs.
1	Poker vibrator	1 - 2 inches	10	Hrs.		
2	Tractor with Trailer	Any	12	Hrs.		
3	Wheel Loader	1.70 Cu.m	4	Hrs.		
4	Hand Rammers	60 kg	10	Hrs.		
5	Smooth Roller	8 - 10 Ton	8	Hrs.		
6	Concrete Mixer	1 - 2 cu.m	8	Hrs.		
7	Steel Wheel Roller self - Propelled Static	8 - 10 Ton	8	Hrs.		
8	Water pump	2 inch dia.	50	Hrs.		
9	Bitumen Distributor	750 Lts.	3	Hrs.		
10	Water Bowser	6000 Ltr.	10	Hrs.		
11	Backhoe loader	2 W.D	8	Hrs.		
12	Dump Truck	30 Ton	4	Hrs.		
13	Van or similar utility vehicle	above 10 seats	125	Km		
14	Tipper Truck (Inclusive of return trip)	7 Ton	125	Km		
15	Welding plant engine driven	--	20	Hrs.		
16	Extractor (sheet pile)	--	10	Hrs.		
17	Hammer (Vibro electric)	--	5	Hrs.		
18	Generator	7 - 10 KVA	5	Hrs.		
19	Compressor	750 CFM	10	Hrs.		
20	Hand held breaker demolition	Pneumatic	10	Days		
21	Mobile Crane	30 Tones	5	Hrs.		
22	Excavator (Crawler with breaker)	--	5	Hrs.		
	Total					

03. MATERIAL**Note : All items in this bill are Provisional**

No.	Material	Qty	Unit	Rate	Amount
1	Cement ordinary (50 kg bag)	10	Nos.		
2	Aggregate (19 mm)	5	Cu.m.		
3	Aggregate (37.5 mm)	5	Cu.m.		
4	Sand	5	Cu.m.		
5	Bitumen 80/100	200	Liter		
6	Bituminous emulsion CRS-1	200	Liter		
7	Asphalt concrete - surfacing material - binder 60/70 bitumen at 4.7% of mix.	2.5	Mt.		
8	Aggregate Base Course (37.5 mm down graded)	5	Cu.m.		
9	Random Rubble (150-225 mm) (Excluding piling)	5	Cu.m.		
10	Reinforcement in bars Grade 250	0.25	Mt.		
11	Reinforcement in bars Grade 460	0.25	Mt.		
12	Timber Class II of Sri Lanka Timber Corporation or equivalent	2	Cu.m.		
13	Plywood (15 mm thick)	25	Sq.m.		
14	Diesel	80	Liter		
	Total				

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 '**RECONSTRUCTION OF BRIDGE NO. 8/5 ON AKKARAIPATTU – SAGAMAM ROAD (B002)**' under Contract No: **RDA/MM/EP(AKK)/GOSL(WB)/2024/05**

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

Chairman,
Road Development Authority Procurement Committee.

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*				
#				
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 2024 [*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 **'RECONSTRUCTION OF BRIDGE NO. 8/5 ON AKKARAIPATTU – SAGAMAM ROAD (B002)'** UNDER Contract No: **RD/MM/EP(AKK)/GOSL(WB)/2024/05**

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 **'RECONSTRUCTION OF BRIDGE NO. 8/5 ON AKKARAIPATTU – SAGAMAM ROAD (B002)'** under Contract No: **RD/MM/EP(AKK)/GOSL(WB)/2024/05** 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

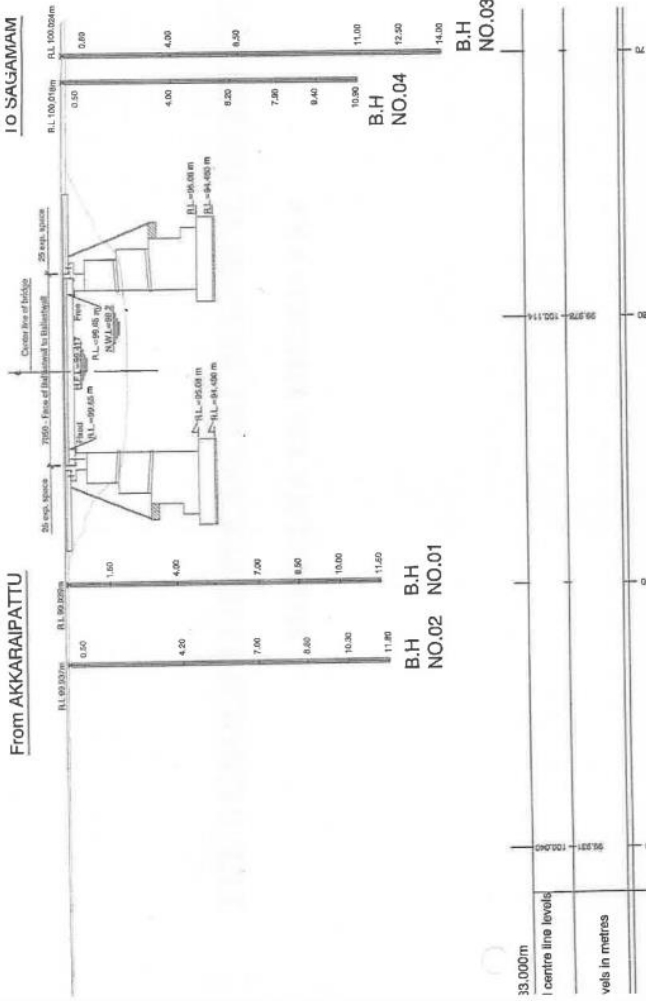
2 Name of Bank

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

Section - 8

Drawings



SITE SKETCH
1:50 to Scale

Legend

- Sample Key / Test Key
- C.A. - Core Recovery
- R.Q.D. - Rock Quality Designation
- S.P.T. - Standard Penetration Test (SPT)
- F.L. - Friction Index

NOTE:

1. All dimensions are in metres unless otherwise stated.

LONGITUDINAL SECTION
Scale = 1:100

BORE HOLE NO. 01

DATE OF BORING: 28.08.2017	S.P.T. VALUES	LEGEND	DEPTH IN METRES	DEPTH IN METRES	NO. OF BLOWS
R.L. ON TOP OF BORE HOLE = 100.000 m	DEPTH IN METRES				
DESCRIPTION OF MATERIAL: Clayey sand with gravel particles. (Yellowish brown)	1.00	CL	1.00	1.00	SPT-06
Clay with medium to fine sand. (Yellowish brown)	1.00	CL	2.00	2.00	SPT-08
Very silty clay with fine sand. (Darkish grey)	1.00	CL	3.00	3.00	SPT-10
Highly weathered rock.	1.00	HR	4.00	4.00	SPT-12
Bed rock.	1.00	BR	5.00	5.00	SPT-14
Bed rock.	1.00	BR	6.00	6.00	SPT-16

BORE HOLE NO. 02

DATE OF BORING: 28.08.2017	S.P.T. VALUES	LEGEND	DEPTH IN METRES	DEPTH IN METRES	NO. OF BLOWS
R.L. ON TOP OF BORE HOLE = 100.000 m	DEPTH IN METRES				
DESCRIPTION OF MATERIAL: Clayey sand. (Yellowish brown)	1.00	CL	1.00	1.00	SPT-06
Silty clay. (Yellowish brown)	1.00	CL	2.00	2.00	SPT-08
Medium to fine sand with clay and mica. (Yellowish grey)	1.00	CL	3.00	3.00	SPT-10
Highly weathered rock.	1.00	HR	4.00	4.00	SPT-12
Bed rock.	1.00	BR	5.00	5.00	SPT-14
Bed rock.	1.00	BR	6.00	6.00	SPT-16

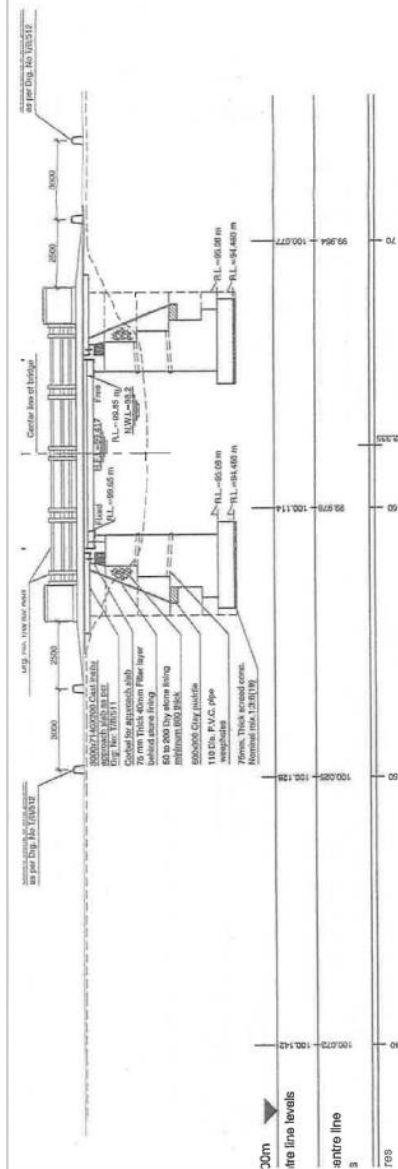
BORE HOLE NO. 03

DATE OF BORING: 28.08.2017	S.P.T. VALUES	LEGEND	DEPTH IN METRES	DEPTH IN METRES	NO. OF BLOWS
R.L. ON TOP OF BORE HOLE = 100.000 m	DEPTH IN METRES				
DESCRIPTION OF MATERIAL: Clayey sand. (Yellowish brown)	1.00	CL	1.00	1.00	SPT-06
Clay with medium to fine sand. (Yellowish brown)	1.00	CL	2.00	2.00	SPT-08
Clay with silty sand and fine sand. (Yellowish brown)	1.00	CL	3.00	3.00	SPT-10
Highly weathered rock.	1.00	HR	4.00	4.00	SPT-12
Bed rock.	1.00	BR	5.00	5.00	SPT-14
Bed rock.	1.00	BR	6.00	6.00	SPT-16

BORE HOLE NO. 04

DATE OF BORING: 28.08.2017	S.P.T. VALUES	LEGEND	DEPTH IN METRES	DEPTH IN METRES	NO. OF BLOWS
R.L. ON TOP OF BORE HOLE = 100.000 m	DEPTH IN METRES				
DESCRIPTION OF MATERIAL: Clayey sand. (Yellowish brown)	1.00	CL	1.00	1.00	SPT-06
Clay with medium to fine sand. (Yellowish brown)	1.00	CL	2.00	2.00	SPT-08
Clay with silty sand and fine sand. (Yellowish brown)	1.00	CL	3.00	3.00	SPT-10
Highly weathered rock.	1.00	HR	4.00	4.00	SPT-12
Bed rock.	1.00	BR	5.00	5.00	SPT-14
Bed rock.	1.00	BR	6.00	6.00	SPT-16

TENDER ISSUED
NOT FOR CONSTRUCTION

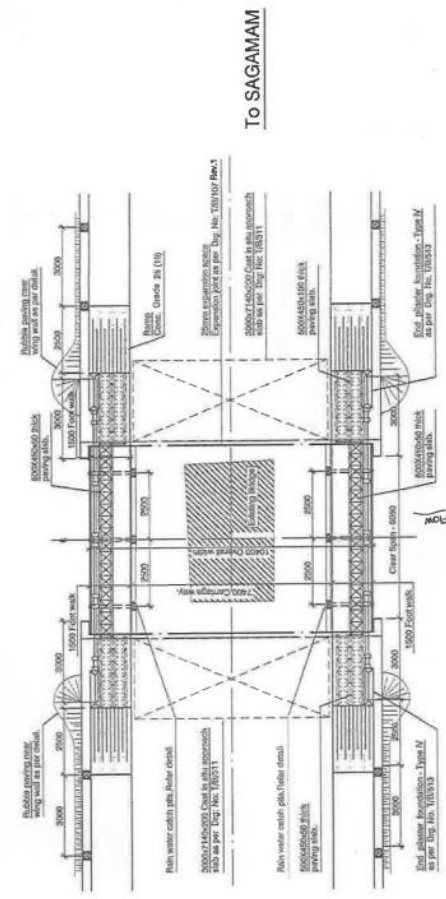


CO-ORDINATES FOR SETTING OUT OF PILES ON EASTING NORTHING

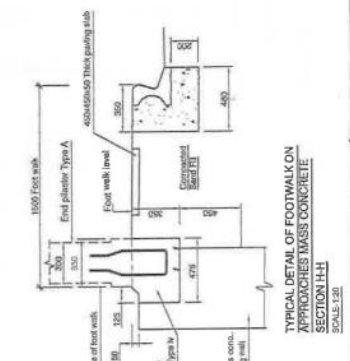
PILE NO.	EASTING	NORTHING
A1F1	985.0297	849.25
A1F2	983.2115	851.37
A1F3	981.3933	853.49
A1F4	979.5751	855.61
A1F5	977.7569	857.73
A1F6	975.9387	859.85
A1F7	974.1205	861.97
A1F8	972.3023	864.09
A1F9	970.4841	866.21
A1F10	968.6659	868.33
A2F1	971.8933	866.01
A2F2	969.2748	867.52
A2F3	966.6563	869.03
A2F4	964.0378	870.54
A2F5	961.4193	872.05
A2F6	958.8008	873.56
A2F7	956.1823	875.07
A2F8	953.5638	876.58
A2F9	950.9453	878.09
A2F10	948.3268	879.60
A2F11	945.7083	881.11
A2F12	943.0898	882.62
A2F13	940.4713	884.13
A2F14	937.8528	885.64
A2F15	935.2343	887.15
A2F16	932.6158	888.66
A2F17	930.0000	890.17
A2F18	927.3815	891.68
A2F19	924.7630	893.19
A2F20	922.1445	894.70
A2F21	919.5260	896.21
A2F22	916.9075	897.72
A2F23	914.2890	899.23
A2F24	911.6705	900.74
A2F25	909.0520	902.25
A2F26	906.4335	903.76
A2F27	903.8150	905.27
A2F28	901.1965	906.78
A2F29	898.5780	908.29
A2F30	895.9595	909.80
A2F31	893.3410	911.31
A2F32	890.7225	912.82
A2F33	888.1040	914.33
A2F34	885.4855	915.84
A2F35	882.8670	917.35
A2F36	880.2485	918.86
A2F37	877.6300	920.37
A2F38	875.0115	921.88
A2F39	872.3930	923.39
A2F40	869.7745	924.90
A2F41	867.1560	926.41
A2F42	864.5375	927.92
A2F43	861.9190	929.43
A2F44	859.3005	930.94
A2F45	856.6820	932.45
A2F46	854.0635	933.96
A2F47	851.4450	935.47
A2F48	848.8265	936.98
A2F49	846.2080	938.49
A2F50	843.5895	940.00
A2F51	840.9710	941.51
A2F52	838.3525	943.02
A2F53	835.7340	944.53
A2F54	833.1155	946.04
A2F55	830.4970	947.55
A2F56	827.8785	949.06
A2F57	825.2600	950.57
A2F58	822.6415	952.08
A2F59	820.0230	953.59
A2F60	817.4045	955.10
A2F61	814.7860	956.61
A2F62	812.1675	958.12
A2F63	809.5490	959.63
A2F64	806.9305	961.14
A2F65	804.3120	962.65
A2F66	801.6935	964.16
A2F67	799.0750	965.67
A2F68	796.4565	967.18
A2F69	793.8380	968.69
A2F70	791.2195	970.20
A2F71	788.6010	971.71
A2F72	785.9825	973.22
A2F73	783.3640	974.73
A2F74	780.7455	976.24
A2F75	778.1270	977.75
A2F76	775.5085	979.26
A2F77	772.8900	980.77
A2F78	770.2715	982.28
A2F79	767.6530	983.79
A2F80	765.0345	985.30
A2F81	762.4160	986.81
A2F82	759.7975	988.32
A2F83	757.1790	989.83
A2F84	754.5605	991.34
A2F85	751.9420	992.85
A2F86	749.3235	994.36
A2F87	746.7050	995.87
A2F88	744.0865	997.38
A2F89	741.4680	998.89
A2F90	738.8495	1000.40
A2F91	736.2310	1001.91
A2F92	733.6125	1003.42
A2F93	731.0000	1004.93
A2F94	728.3815	1006.44
A2F95	725.7630	1007.95
A2F96	723.1445	1009.46
A2F97	720.5260	1010.97
A2F98	717.9075	1012.48
A2F99	715.2890	1013.99
A2F100	712.6705	1015.50

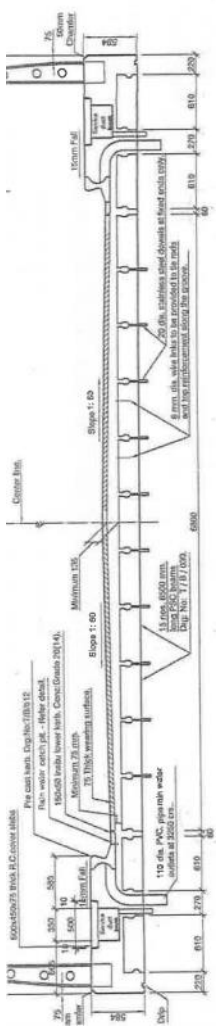
ELEVATION AT ABUTMENT SAGAMA END
Scale = 1:100

LONGITUDINAL SECTION
Scale = 1:100

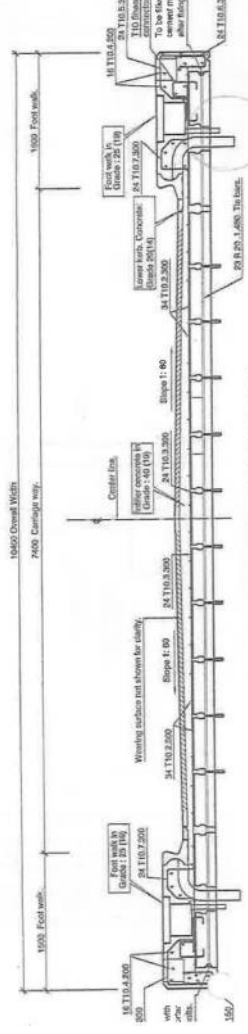


PLAN
Scale = 1:100

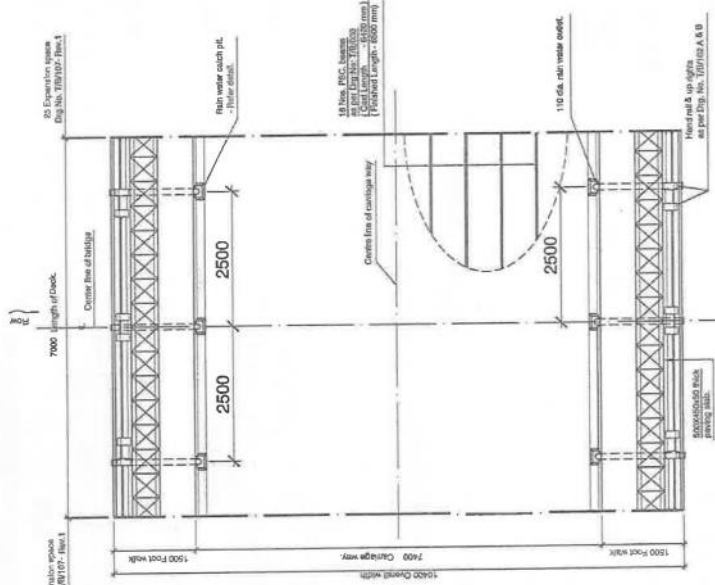




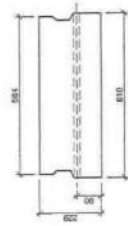
CROSS SECTION OF DECK - GENERAL DETAILS
Scale: 1:30



CROSS SECTION OF DECK R/F DETAILS
Scale: 1:30

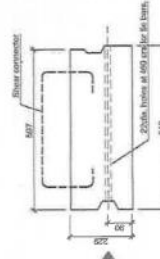


PLAN OF DECK
Scale: 1:30



C.S. OF INTERMEDIATE BEAM
Scale: 1:10

CAST LENGTH OF BEAM = 7010mm (230 FT)
FINISHED LENGTH OF BEAM = 7035mm (23 FT)
7010mm) 22-Ø7 LONG P. S. C. BEAM
REQ. NO. 7/10/030



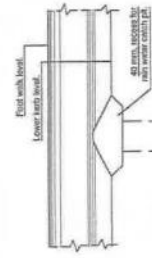
C.S. OF EDGE BEAM
Scale: 1:10

DETAIL OF RECESS FOR FIXING
Scale: 1:10

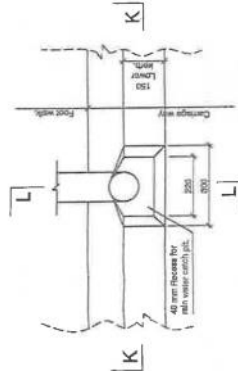
SCHEDULE OF REINFORCEMENT

Member	Type and Size	No. of bars	Length of each bar in m	Total length in m	Total weight in kg
Deck Slab	T10	1	16	16	10320
	T10	1	34	34	6900
	T10	1	34	34	6900
	T10	1	34	34	6900
Foot walk	T10	2	16	32	6560
	T10	2	16	32	6560
	T10	2	24	48	9840
	T10	2	24	48	9840
	T10	2	24	48	9840
	T10	2	24	48	9840
	T10	2	24	48	9840

NOTE: This schedule is indicative only. The contractor shall be responsible for producing his own schedule.



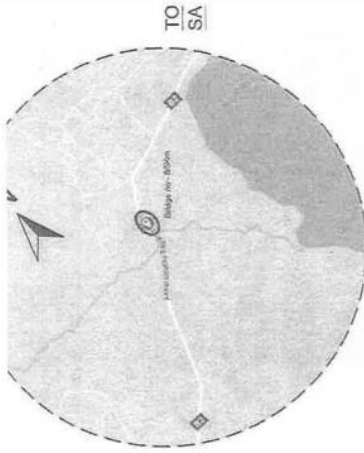
SECTIONAL ELEVATION
Scale: 1:15



PLAN
Scale: 1:10

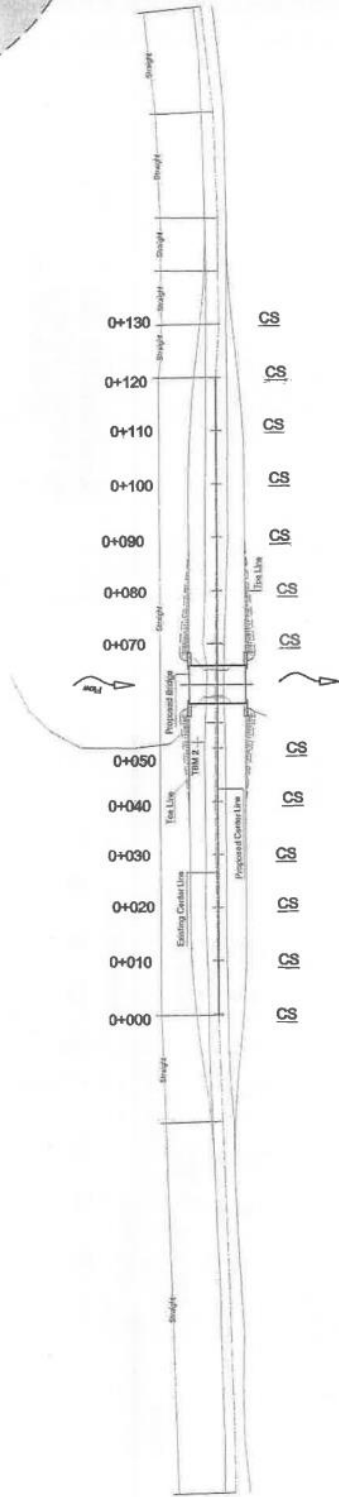
L-L
DETAIL OF RAIN WATER CATCH PIT.
Scale: 1:10



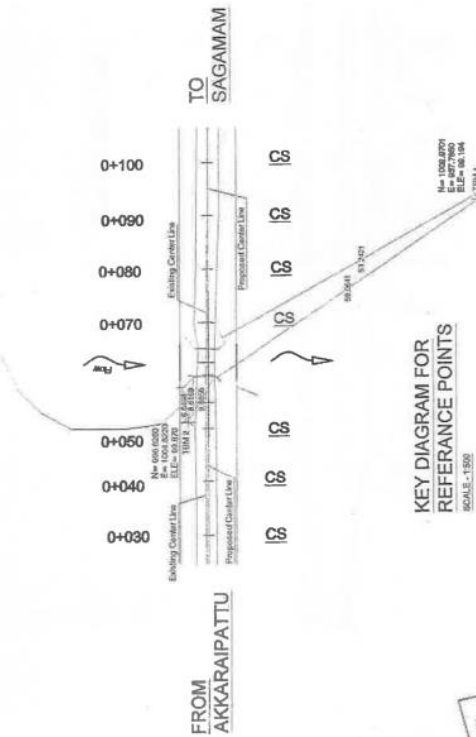


FROM
AKKARAI PATTU

TO
SAGAMAM



SITE PLAN
SCALE: 1:500



KEY DIAGRAM FOR
REFERENCE POINTS
SCALE: 1:500

CO-ORDINATES FOR REFERENCE POINTS		
CO-ORDINATES (m)		
E	N	
TBM 1	867.7860	1002.7910
TBM 2	1004.8220	980.0200
S1	1000	1000

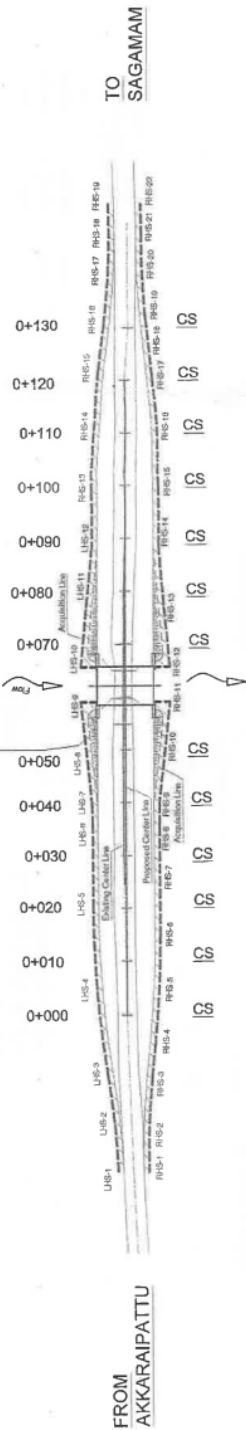
NOTE:

1. Alignment of bridge and approach to be done subsequently and shall be related to the engineer's prior to location of tunnel.
2. TBM 1 - 08.134 m, TBM 2 - 08.370 m & as shown above.

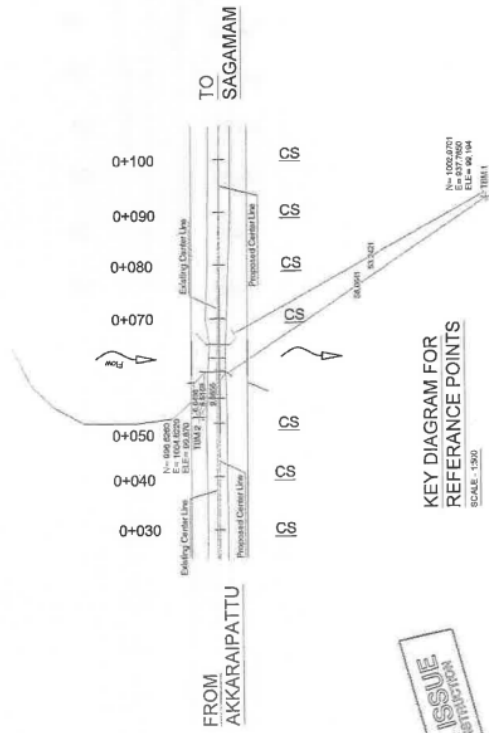
CO-ORDINATES FOR
SETTING OUT OF NEW CENTER LINE

	CO-ORDINATES (m)	
	E	N
0	1037.1580	1036.8080
10	1030.1507	1029.2927
20	1023.3312	1021.9787
30	1016.5117	1014.6647
40	1009.6922	1007.3508
50	1002.8728	1000.0368
60	996.0531	992.7228
70	989.2336	985.4088
80	982.4141	978.0949
90	975.5946	970.7809
100	968.7750	963.4669
110	961.9555	956.1530
120	955.1360	948.8390
130	947.7720	941.9540

UNDER ISSUE
 NOT FOR CONSTRUCTION



ACQUISITION PLAN
SCALE: 1:500



KEY DIAGRAM FOR
REFERENCE POINTS
SCALE: 1:500

CO-ORDINATES FOR REFERENCE POINTS	
CO-ORDINATES (m)	
E	N
TBM 1	937.7850
TBM 2	1004.8220
S1	1000

NOTE:

TOTAL AREA TO BE ACQUIRED = 187,156 m²

CO-ORDINATES FOR ACQUISITION I

SIDE	CO-ORDINATES (m)	
	E	N
LHS-1	603.5933	707.1347
LHS-2	597.8777	700.1108
LHS-3	592.5078	692.6171
LHS-4	583.0136	679.7532
LHS-5	572.6942	667.6635
LHS-6	562.4784	656.7070
LHS-7	559.5148	653.3708
LHS-8	553.7070	645.6909
LHS-9	547.9038	638.0118
LHS-10	543.3932	633.2190
LHS-11	535.0053	625.7355
LHS-12	526.6174	618.2521
LHS-13	519.4539	610.5629
LHS-14	511.2305	602.2426
LHS-15	502.5371	594.4147
LHS-16	495.8409	588.7292
LHS-17	487.4063	580.9909
LHS-18	482.7714	576.1881
LHS-19	479.5906	572.6279
RHS-1	599.3260	710.9726
RHS-2	595.5850	706.9639
RHS-3	586.9377	698.7218
RHS-4	581.9845	694.3659
RHS-5	574.6753	687.6099
RHS-6	567.7094	680.5003
RHS-7	559.1302	671.2991
RHS-8	553.4008	665.1542
RHS-9	550.3301	661.9348
RHS-10	543.0511	655.6293
RHS-11	535.7721	649.3238
RHS-12	531.3180	644.4802
RHS-13	524.2049	635.3436
RHS-14	517.0919	626.2070
RHS-15	509.5056	618.0765
RHS-16	502.6076	610.2833
RHS-17	496.1223	602.1435
RHS-18	492.6978	597.6093
RHS-19	489.2733	593.0751
RHS-20	484.1460	586.6616
RHS-21	478.6731	580.5404
RHS-22	475.2061	576.7165

TENDER ISSUE
NOT FOR CONSTRUCTION

Check List for Bidders

	ITB clause	Yes	Reference
Form of Bid			
Completed?	18		
Signed?	18		
No of addendum issued (taken to form of Bid)			
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		