

**CEYLON PETROLEUM STORAGE TERMINALS
LIMITED**

NATIONAL COMPETITIVE BIDDING

BIDDING DOCUMENT

FOR

**STABILIZING UNSTABLE EMBANKMENT AT
TANK FARM AREA AT LBD PERADENIYA**

KPE/15/2025

Employer:

Chairman
Ceylon Petroleum Storage Terminals Limited
Oil Installation, Kolonnawa

Engineer:

Manager
Engineering Function
Ceylon Petroleum Storage Terminals Limited
Oil Installation, Kolonnawa

Issued to :.....

Issued by :.....

Date :.....

February 2025

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Section - 01

INSTRUCTIONS TO BIDDERS

DUPLICATE

INSTRUCTIONS TO BIDDERS

Instructions to Bidders applicable to this contract shall be those given in Section-I of the Standard Bidding Document, Procurement of Works, and ICTAD Publication No. **ICTAD/SBD/01, Second Edition, January 2007** with **addenda issued up to February 2011**, published by the Construction Industry Development Authority (CIDA),” Savsiripaya”, 123, Wijerama Mawatha, Colombo 7.

This publication will not be issued with the Bidding Document and the Bidder is advised to purchase it from CIDA

Instructions to Bidders shall be read in conjunction with the Bidding Data provided under Section-5 of Bidding Document.

Instructions to Bidders will not be a part of the Contract and will cease to have effect once the Contract is signed.

Section - 02

STANDARD FORMS (CONTRACT)

- *Letter of Acceptance*
- *Agreement*
- *Performance Security*
- *Advance Payment Security*

Notes on Standard Forms:

- *Bidders should not complete the Form of Agreement at the time of preparation of bids.*
- *The successful bidder will be required to sign the Form of Agreement after the award of contract.*
- *Any corrections or modifications to the accepted bid resulting from arithmetic corrections, acceptable deviations, or quantity variations in accordance with the requirements of the bidding documents should be incorporated into the Agreement.*
- *The Form of Performance Security and Form of Advance Payment Security should not be completed by the bidders at the time of preparation of bids.*
- *The successful bidder will be required to provide these securities in compliance with the requirements herein or as acceptable to the Employer.*

FORM OF LETTER OF ACCEPTANCE

..... [date]

To:

.....

[Name and address of the Contractor]

This is to notify you that your Bid dated [Insert date] for the **Stabilizing Unstable Embankment at Tank farm in CPSTL LBD – Peradeniya** (Contract No:) for the Contract price of Rupees (Rs...../=)

[Amount in figures and words] as corrected in accordance with Instructions to Bidders and/or modified by a Memorandum of Understanding (if any), is hereby accepted.

The adjudicator proposed by appointing authority is **Construction Industry Development Authority (CIDA)**

You are hereby instructed to precede with the execution of the said Works in accordance with the Contract documents.

The start date shall be: (fill the date as per Conditions of Contract)

The amount Performance Security is: (fill as per Conditions of Contract)

The Performance Security shall be submitted on or before..... (Fill the date as per Conditions of Contract)

Authorized Signature:

Name & title of Signatory:

Name of Agency:

FORM OF CONTRACT AGREEMENT

STANDARD FORM: AGREEMENT

This AGREEMENT, made the -----[day] day of ----- [month] 20---- [year] between -----
-----[name and address of Employer] (hereinafter called “the Employer”) of the one part,
and -----[name and address of Contractor] (hereinafter called “the
Contractor”) of the other part.

WHEREAS the Employer desires that the Contractor execute -----[name and
identification number of Contract] (hereinafter called “the Works”) and the Employer has accepted the Bid by
the Contractor for the execution and completion of such Works and the remedying of any defects therein.

NOW THIS AGREEMENT WITNESSETH as Follows:

1. In this Agreement, words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to, and they shall be deemed to form and be read and construed as part of this Agreement.
2. In consideration of the payments to be made by the employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy any defects therein in conformity in all respects with the provisions of the Contract.
3. The Employer hereby covenants to pay the Contractor in consideration of the execution and completion of the Works and the remedying of defects wherein the 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 thereto have caused this Agreement to be executed the day and year aforementioned, in accordance with laws of Sri Lanka.

.....
Authorized signature of Contractor
COMMON SEAL

.....
Authorized signature of Employer
COMMON SEAL

In the presence of:

Witnesses:

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

FORM OF PERFORMANCE SECURITY

(Unconditional)

..... [Name
and Address of Issuing Branch or office]

**Beneficiary: Ceylon Petroleum Storage Terminals Limited,
Oil Installation, Kolonnawa,
Wellampitiya**

Date:

PERFORMANCE GUARANTEE No:.....

We have been informed that [Name of Contractor]
(Hereinafter called to “the Contractor”) has entered into Contract No., dated
with you, for the **Stabilizing Unstable Embankment at Tank farm in CPSTL LBD – Peradeniya (Contract
No:)** (hereinafter called to “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 the Agency] hereby irrevocably undertake to pay you any sum or sums not
exceeding in total an amount of[amount in
figures](.....) [amount in wards] ,upon receipt by us of your first
demand in writing accompanied by a written statement stating that the Contractor is in breach of its
obligation(s) under the Contract, without your needing to prove or to show grounds for your demand or the
sum specified therein.

This guarantee shall expire, no later than the day of, 20.... [date,28 days beyond the Intended
Completion Date] and any demand for payment under it must be received by us at this office on or before that
date.

[Signature (s)]

FORM OF ADVANCE PAYMENT SECURITY

.....
[Name, and Address of Issuing Branch or office]

**Beneficiary, Ceylon Petroleum Storage Terminals Limited
Oil Installation, Kolonnawa
Wellampitiya**

Date:

ADVANCE PAYMENT GUARANTEE No. :.....

We have been informed that [name of contractor] (hereinafter called” the Contractor”) has entered into Contract No. dated with you, for the execution of Repairing **Stabilizing Unstable Embankment at Tank farm in CPSTL LBD – Peradeniya (Contract No:)** (hereinafter called “the Contract”).

Furthermore, we understand that, according to the conditions of the Contract, an advance payment in the sum [Amount in figure] (.....) [Amount in words] is to be made against an advance payment guarantee.

At the request of the contractor, we[name of the 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 advance payment repaid by the contractor.

This guarantee shall expire on [date, 28 days beyond Intended Completion Date].

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

[Signature (s)]

Section - 03

CONDITIONS OF CONTRACT

Conditions of Contract shall be read in conjunction with the Contract data in Section 5, which shall take precedence over the Conditions of Contract

CONDITIONS OF CONTRACT

Conditions of Contract that will be applicable for this Contract shall be that given in Section 3 of the Standard Bidding Document for Procurement of Works, ICTAD Publication No. **ICTAD/SBD/01, Second Edition, January 2007 with addenda issued up to February 2011**, published by the Institute for Construction Industry Development Authority (CIDA) "Savsiripaya", 123, Wijerama Mawatha, Colombo 07.

The above publication will not be issued with the Bidding Document and Bidder is advised to purchase it from CIDA

This Conditions of Contract shall be read in conjunction with Contract Data in Section 05 in Bidding Document which shall take precedence over the Conditions of Contract.

INVITATION FOR BIDS

DUPLICATE

INVITATION FOR BIDS (IFB)
CEYLON PETROLEUM STORAGE TERMINALS LIMITED
STABILIZING UNSTABLE EMBANKMENT AT TANK FARM IN CPSTL LBS PERADENIYA
CONTRACT NO. KPR/15 /2025

1. The Chairman, Ministry Procurement Committee on behalf of the **Chairman, Ceylon Petroleum Storage Terminals Limited, Kolonnawa** now invites sealed bids from eligible and qualified bidders for **Stabilizing Unstable Embankment at Tank Farm in CPSTL LBD Peradeniya** as described below and estimated basic cost **Rs. 16.1 Million**. The construction period is 180 calendar days.
2. Bidding will be conducted through National Competitive Bidding Procedure.
3. To be eligible for contract award, the successful bidder shall not have been blacklisted and shall meet the following requirements.
 - (a) Contractors having valid registration in Grade **C5 or C6** in the field of Building construction under Construction Industry Development Authority (CIDA).
 - (b) Contractor has successfully completed at least two special works (**Slope Stabilizing Works and Retaining walls**) similar to this nature and complexity during last five years.(Contract value for each project should be Rs. 10 Million)
 - (c) Average annual volume of construction work performed in the last five (05) years shall be at least **Rs.48 million**.
 - (d) The minimum amount of working capital available and/or available credit facilities for utilizing at the time of bidding exclusive of any advance payments which may be not less than **Rs. 8 Million**. Credit facility should be addressed to **Chairman, Ceylon Petroleum Storage Terminals Limited, Kolonnawa**.
4. Interested parties may refer the bidding documents (only for viewing purpose) and obtain necessary information through the website www.cpstl.lk and inspect the bidding documents at the address given below from 0900hrs to 1400 hrs of working days.
5. A complete set of Bidding Documents in English language may be purchased by interested bidders on the submission of a written application to the address below from **24.03.2025** until **07.04.2025** during office hours from 0900 hrs to 1400 hrs upon payment of a non-refundable fee of Rs. 5,000.00 The method of payment will be by cash.
6. Bids shall be submitted on the bidding document obtainable from Procurement Function and duly filled bidding documents may be sent by post/courier under registered cover or sealed cover to reach the Chairman, Department Procurement Committee (Minor), C/o Manager Procurement, Ceylon Petroleum Storage Terminals Limited, Procurement Function, 01st Floor, New Building, Oil Installation, Kolonnawa, Wellampitiya or could be deposited in the tender box kept at the main entrance of CPSTL, on or before 1400 hrs. on **08.04.2025**.
7. Bids will be closed at 1400 hrs. on **08.04.2025** and will be opened immediately thereafter at the office of Manager Procurement, in the presence of the authorized only one representative of the bidder who chose to attend.
8. In case the bidders are unable to submit the original bids as above, they could submit the scanned copy of the duly filled bidding documents in PDF format via email to **tenders@cpstl.lk** to reach on or before 1400 hrs. on **08.04.2025** subject to following conditions.
 - i. Submission of the bid via email is at own discretion of the bidder.
 - ii. If the bidder intends to submit a bank guarantee or bank draft as the bid security (instead of a direct deposit to the CPSTL bank account), the **original bank**

guarantee/draft must be sent or hand-delivered to the above address by 1400 hrs. on **08.04.2025**.

- iii. The title and the closing date of the tender shall be indicated as the subject of the email.
- iv. Size of an email (with attachment) shall be limited to the maximum of 20 MB. In case the size of an attachment exceeds 20 MB, the bidder is requested to split the attachments and send as separate emails (i.e. 01 of 03, 02 of 03 etc.,).
- v. Do not CC/BCC to any other official/personal email IDs of CPSTL staff. Bids sent to any other email IDs is strictly not entertained.
- vi. However, the original bid shall be sent to CPSTL prior to finalize the technical evaluation.

9. Bids shall be valid up to **24.06.2025** from the deadline for Bid Submission.

10. All bids shall be accompanied by a “Bid security” of **Rupees One Hundred Seventy Thousand Only (Rs 170,000.00)**. Validity of Bid security shall be up to **22.07.2025** from the date of closing of the bid.

11. Any of the following party who wishes to submit a bid, shall register himself at the Department of Registrar of Companies www.drc.gov.lk (e-ROC) as per the Public Contracts Act, No. 03 of 1987 for every public contract value exceeding Sri Lankan Rupees Five million (LKR 5,000,000).

- I. An agent, sub-agent, representative or nominee must be registered prior to the closing of the Bid/Tender.
- II. If the tender applicant and the tenderer is the same party he must be registered prior to the award of the tender.

However, this registration will be verified by CPSTL at the preliminary evaluation of Bids. In case of failure to meet this legal requirement, the Bid shall be rejected.

Contact details of the Registrar: Department of Registrar of Companies, "Samagam Medura", No. 400, D R Wijewardena Mawatha, Colombo 10 / Tel.: +94-11-2689208 / +94- 11-2689209 / Email: registrar@drc.gov.lk (Contact details may vary from actuals & CPSTL does not take any responsibility in this regard)

12. Pre-bid meeting will be held at LBD Peradeniya on **01.04.2025 at 10.30 am**. All the bidders are advised to attend this meeting.

13. Procurement committee reserves the right to accept a suitable bid out of the bids received or reject all bids and the decision of the Procurement Committee is the final.

14. Any alteration to the bidding document should be signed by the contractor.

The address referred to above is,

The Chairman

Departmental Procurement Committee (Minor),

C/O Manager Procurement,

Ceylon Petroleum Storage Terminals Limited

Procurement Function, 1st floor, New Building,

Oil Installation, Kolonnawa, Wellampitiya.

Telephone: +94 11 2572156, +94 11 2572155

Fax : +9411 2074299

Email : procure@cpstl.lk

Section - 4

**FORM OF BID AND QUALIFICATION
INFORMATION**

FORM OF BID
CONTRACT NO. KPR /15/2025

Name of Contract: Stabilizing unstable embankment at tank farm in CPSTL LBD Peradeniya.

To: **The Chairman,
Department Procurement Committee
(Minor) C/O Manager Procurement,
Ceylon Petroleum Storage Terminals Limited,
Procurement Function, new Building,
Oil Installation, Kolonnawa, Wellampitya.**

Gentleman,

1. Having examined the Standard Bidding Document - Procurement of Works (ICTAD/SBD/01-Second edition, January 2007 and Addendum 01 issued in October 2009 & Addendum 02 issued in February 2011) , Schedule for Conditions of Contract, Specifications, Drawings and Bill of Quantities and Addenda 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 for the sum of Sri Lankan Rupees

..... (LKR Rs.) 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 for the period of 77 days from the date fixed for receiving or any extended period 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 of any Bid you may receive.

Dated this..... Day of 2025 in the capacity of..... Duly authorized to sign bids for and on behalf of

(IN BLOCK CAPITAL)

Signature :

Address :

Witness :

QUALIFICATION INFORMATION

(To be completed and submitted by the Bidder with the Bid)

ICTAD / CIDA Registration	
Registration number	<i>(Attach copies of relevant pages from the registration book)</i>
Grade	C5 and C6
Specialty	Building Works (Slope Stabilizing Works and Retaining walls)
Expiry Date	
Special Qualifications	<i>(Attach copies of certificates)</i>
Blacklisted Contractors	
Have you been declared as a defaulted contractor by NPA or any other agency? (Yes/No)	
If yes provide details	
VAT Registration Number (if applicable)	
Legal status	<i>(Attach relevant status copies, as annex)</i>
Value of Construction Works Performed in last 5 years	<i>(Attach certified copies of certificate of completion, etc. and other documents such as profit-loss and income expenditure statement)</i>
Year 2023	
Year 2022	
Year 2021	
Year 2020	
Year 2019	
Value of similar works completed in last 5 years (indicate at least two largest projects)	1. Value Rs..... Year 2. Value Rs..... Year 3. Value Rs..... Year (Attach certified copies of Letter of award & certificate of completion)
Credit Facility	Details should be attached

Qualification and experience of key staff - Site & Head Office (Permanent, Contract Basis & Consultants)

- 01 Site Engineer - Degree in BSc Engineering. (Associate member of the Institute of Engineers in Sri Lanka and 10 years experience or NDT/NDES with 15 years experience. Part time)
- 01 Technical Assistant – Civil (Full time at site) – NVQ4 or equivalent with minimum 3 years' Experience

Managerial / Technical / Conservation

(Attach relevant CV's)

Signature of the Bidder:

Section - 5

BIDDING DATA AND CONTRACT DATA

DUPLICATE

Bidding Data

Instructions to Bidder
Clause Reference

(1.1) The Employer is

Name : **Chairman,**

Address :

**Ceylon Petroleum Storage Terminals Limited,
Oil Installation,
Kolonnawa**

Please refer the Bill of Quantities.

(1.2) Intended Completion Date is **180 Days** from the Start Date.

(1.3) The office for collection of bid form is
**Manager Procurement,
Ceylon Petroleum Storage Terminals Limited,
Oil Installation, Kolonnawa**

The non-refundable Bid fee is **Rupees 5,000.00**

The Bid forms will be issued **until 07.04.2025.**

(2.1) The source of funds is **Ceylon Petroleum Storage Terminals Limited,**

(4.2) The registration required for main contractor:

Specialty - **Building Works (Slope Stabilizing Works and Retaining walls)**

Grade - **C5 or C6**

(4.3) The Following information shall be provided in Section 4 for the bidder

* CIDA Registration

Registration number:

Grade

Specialty

Expiry Date

* Copy of Business Registration

* VAT Registration number – If Applicable

* Form PCA 03 (if applicable)

* Construction program

* Legal status (Sole proprietor, partnership, company etc.)

* Authentication for signatory in the form of Power of Attorney (Specifically for this Bid)

* Total monetary value of construction work performed for each of the last five years;

* Experience in works of a similar nature and size for each of last five years;

* Major items of construction equipment proposed to carry out the contract; (if specified equipment be needed)

* Qualifications and experience of key site management and technical personnel proposed for the contract

* Any other

(4.4) Post qualification criteria:

The following minimum qualification criteria shall be met by the bidder to qualify for the award of contract.

- Average annual volume of construction work performed in the last five (05) years shall be at least **Rs. 48 Million**.
- Experience in the construction of at least two projects similar nature. The Contract value for each project shall be **Rs.10 Million** minimum. **Attach as annex.**

The minimum amount of liquid assets and/or credit facilities as exclusive of any advance payments which may be not less than **Rs. 9.8 Million**. Credit facility should be addressed to **Chairman, Ceylon Petroleum Storage Terminals Limited, Oil Installation, Kolonnawa.**

Minimum persons with qualifications and experience to be defined,

Managerial / Technical

- 01 Site Engineer - Degree in B.Sc Engineering. (Associate member of the Institute of Engineers in Sri Lanka and 10 years experience or NDT/NDES with 15 years experience. (Part time)
- Technical Assistant I- Civil (Full time at site) – NVQ4 or equivalent with minimum 3 years experience.

(8.1)

Content of Bidding Document

Content of the bidding document changed as follows to fulfill bidders requirement in submission of Bid.

The Bidding document comprise the documents listed below

Section 1 – Instruction to Bidders

Section 2 - Standard Forms (Contract)

Section 3 - Condition of Contract

Invitation for Bids

Section 4 - Form of Bid and Qualification Information

Section 5 - Bidding Data and Contract Data

Section 6 - Specifications

Section 7 - Bills of Quantities and Technical Schedules

Section 8 - Drawings

Section 9 - Standard Forms (Bid)

(9.1)

Employer's address for the purpose of clarification is;

Name : **Manager Procurement,**
 Address : **Ceylon Petroleum Storage Terminals Limited,
 Procurement Function, New Building,
 Oil Installation, Kolonnawa,
 Wellampitiya.**

Telephone: 0112572156

Fax: 0112074299

Email: procure@cpstl.lk

(11.1)

The language of the bidding document shall be English.

The Bid submitted by the bidder shall comprise the following:

(A) enclosed in the envelope marked as "ORIGINAL";

- (12.1) (a) Bidding Document
(b) Bid security or Bid-Securing Declaration as specified
- (B) enclosed in the envelop marked as “COPY”
(a) Form of Bid & qualification information
(b) Bill of Quantities
- (13.3) **Only VAT will be paid.**
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.
- (13.4) The Contract is **allowed for** price adjustment in accordance with Clause 47 of the Conditions of Contract.
- (15.1) The Bid shall be valid up to **91** Days from closing date of Bid.
- (16.1) Bid shall include a Bid Security using the form included in Section 9.
- (16.2) *Bid Security shall be;*
 - *For an amount **Rs. 170,000.00***
 - *Valid until **22.07.2025** from closing date of Bid.**Securities and guarantees issued by an agency acceptable to employer using the forms for bid security (unconditional guarantee) included in section 09, Standard forms.*
 1. *Commercial Bank operating in Sri Lanka approved by the Central Bank of Sri Lanka or reputed Insurance Company accepted by the treasury for acceptance of guarantees using the form for bid security (unconditional guarantee) included in Section 9, Standard Forms.*
 2. *Construction Guarantee Fund.*
- (17.0) Pre Bid meeting will be held at t **Ceylon Petroleum Storage Terminals Limited, LBD Peradeniya 1030** hours on **01.04.2025**.
- (19.2) a The Employer’s address for the purpose of Bid submission is:
- The Chairman
Departmental Procurement
Committee (Minor),
C/O Manager Procurement, Ceylon Petroleum Storage Terminals Limited
Procurement Function, 1st floor, New Building,
Oil Installation, Kolonnawa,
Wellampitiya.**
- Telephone: +94 11 2572156, +94 11 2547238
Fax : +9411 2074299
Email : procure@cpstl.lk**

- (19.2) b Contract name: **Stabilizing Unstable Embankment at Tank farm in CPSTL LBD – Peradeniya**
- Contract No. : **KPR/15/2025**
- (20.1) The deadline for submission of Bids shall be **14000** hrs. on **08.04.2025**.
- (34.0) The amount of **Performance security is 5% of the Initial Contract Price**.
- The form acceptable is sample format which is in Section 2, Standard Forms.
- Securities and Guarantees issued by an agency acceptable to employer using the forms for Performance Bond (Unconditional Guarantee -Validity should be 28 days beyond defect liability period) included in Section 2, standard forms. The agencies acceptable to the Employer are*
- *Commercial Bank operating in Sri Lanka approved by the Central Bank of Sri Lanka.*
 - *Constructions Guarantee Fund*
- (35.1) The advance payment is maximum of 20% of the initial Contract price (less Provisional Sum & Contingencies) against the submission of Bank Guarantee.
- Securities and Guarantees issued by an agency acceptable to employer using the forms for Advance Payment Bond (Unconditional Guarantee) included in– Section 2, Standard Forms. The agencies acceptable to the Employer are
- *Commercial Bank operating in Sri Lanka approved by the Central Bank of Sri Lanka.*
 - *Constructions Guarantee Fund*
- (36.0) The Adjudicator proposed by the Employer is an Adjudicator selected from the pool of Adjudicators of Construction Industry Development Authority (CIDA). Fees and types of reimbursable expenses to be paid to the Adjudicator shall be on a case-to-case basis and shall be equally shared by the Contractor and the Employer

CONTRACT DATA

(Please note that the Clause nos. given hereunder is that of Conditions of Contract)

(1.1) The Employer is

Name : **Chairman**
Address : **Ceylon Petroleum Storage Terminals Limited,
Oil Installation, Kolonnawa,
Wellampitiya**

Name of Authorized Representative:

Name : **Manager Procurement**
Address : **Ceylon Petroleum Storage Terminals Limited,
Procurement Function, New Building,
Oil Installation, Kolonnawa,
Wellampitiya.**

(1.1) The Engineer is

Name : **Engineering Manager**
Address : **Engineering Function,
Ceylon Petroleum Storage Terminals Limited,
Oil Installation, Kolonnawa,
Wellampitiya.**

Name of Engineer's Representative:

Name : **Additional General Manager(Central Province)**
Address : **Central Engineering Consultancy Bureau
Digana Village,
Rajawella.**

(1.1) Work consists of **(Slope Stabilizing Works and Retaining walls)**
For more information, please refer the Bill of Quantities.

(1.1) Site is located at Peradeniya, Kandy
The Start Date shall be **fourteen (14) Days** from the Letter of Acceptance.

(8.1) Schedule of other contractors: None

(9.1) Schedule of Key Personnel:

Minimum persons with qualifications and experience to be defined,

Managerial / Technical

(a)

- Site Engineer - Degree in B.Sc Engineering. (Associate member of the Institute of Engineers in Sri Lanka and 10 years' experience or NDT/NDES with 15 years' experience. (Part time)

- Technical Officer I – Civil (Full time at site) – NCT or equivalent with minimum 3 years’ experience.
- (13.1) The minimum insurance cover shall be:
- (a) The minimum cover for insurance of the Works and of Plant and Material is **110% of the Initial Contract price.**
- The maximum deductible for insurance of Works and of Plant and Material is **5% of initial Contract price.**
- (b) The minimum cover for loss or damage to Equipment is “**Cost of equipment**”
- The maximum deductible for insurance of Equipment is **5% of the minimum cover for equipment**
- (c) The minimum cover for insurance of other property (other than the site):
- Five Hundred Thousand
- (d) The minimum cover for personal injury or death:
- For third party and employees of the Employer and other persons engaged by the Employer in the Works is **Rupees Five Hundred Thousand** per event.
- (13.2) (a) The minimum cover for personnel injury or death,
- For the Contractor’s workmen is Rs. **500,000.00** per event. Number of events unlimited.
 - Contractor’s employee’s other than workmen is Rs. **500,000.00** per event. Number of events unlimited.
- (17.1) The Intended Completion Date for the whole of Works shall be **180 days from the** date of start of the contract as stated in the Letter of Acceptance.
- (21.1) The Site Possession Date shall be **Fourteen (14) Days** from Letter of Acceptance.
- (27.1) The Contractor shall submit a realistic Construction Programme for the works within **Seven Days** of delivery of the Letter of Acceptance.
- (27.3) The period between Programme update is **30 Days**. But Contractor shall submit a revised programme whenever the previous programme is inconsistent with actual progress.
- (27.4) The amount to be withheld for late submission of an updated Programme is **2% of the Initial Contract Price.**
- (35.1) The Defects Liability Period is **365 Days**.
- (39.2) Engineer may order variations up to a total cumulative bill value including variation not exceeding 110% of initial contract sum
- (40.2) In fixing the appropriate new rates, mark up for overheads & profits shall be limited to maximum of 20% of the “Basic Cost” of such items. The Basic cost means cost of materials, labour and equipments.
In fixing such “Basic cost” the Engineer shall use the rates for labour as given below and prices for materials and equipments shall be used the prevailing market prices.”

Category	Rate (Rs)
Skill Labour	3500.00
Semi Skilled Labour	2,600.00
Unskilled Labour	2500.00

- (47.1) The contract **is subject** to the price adjustment.
- (48.1) The retention from each payment shall be **Ten percent** of the certified work done.
The limit of retention shall be **Five percent** of the Initial Contract Price.
- (49.1) The liquidated damages for the whole of the Works shall be **0.05% of the Initial Contract Price per Day**.
The maximum amount of liquidated damages for the whole of the Works shall be **Ten percent** of the Initial Contract Price.
- (52.1) The **Performance Security shall be Five percent** of the Initial Contract Price.
- (58.1) Schedule of Operating and Maintenance Manuals. – As built drawings and operation manuals shall be submitted within 14 days after completion of each activity
- (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 **Twenty Five percent** of Balance work according to the Initial Contract Price.
- (63.7) The attendance fee payable to the contractor on nominated/specialized sub contract work shall not exceed 8%

Section - 6
SPECIFICATIONS

DUPLICATE

SPECIFICATIONS

The Works under this Contract shall be executed in accordance with the Specifications given in the following documents issued by the Institute for Construction Training and Development (ICTAD), “Savsiripaya”, Wijerama Mawatha, Colombo 07.

<u>Publication No.:</u>	<u>Description:</u>
* SCA/4(Vol. I)	Specifications for Building Works, Vol. (I), Sri Lanka. 3 rd Edition (revised) – July 2004.
* SCA/4(Vol. II)	Specifications for Building Works Vol.(II), Sri Lanka. 2 nd Edition (revised) – October 2001.
* SCA/3/2	Specifications for Water Supply Sewerage and Storm Water Drainage Works, SriLanka. 2 nd Edition (revised) – April 2002.
* SCA/8	Specifications for Electrical & Mechanical works associated with Building and Civil Engineering, Sri Lanka. 2 nd Revised Edition – August 2000.

It is implied that the eligible bidders are fully acquainted with the above documents and therefore, those will not be issued to the bidders in this bidding document.

However, the bidders may purchase the same if necessary from ICTAD. “Savsiripaya”, Wijerama Mawatha, Colombo 07.

SPECIFICATIONS FOR GENERAL REQUIREMENTS & CIVIL WORKS

1.0 GENERAL

This specification shall be read in conjunction with the other documents, which form the Contract Agreement for the Works. Notwithstanding the subdivision of the specification under different headings each and every part of it shall be deemed supplementary to and complementary every other part thereof.

All materials and workmanship shall be in accordance with the appropriate current Sri Lankan Standards or where such standards are not available the relevant British Standards shall be applicable. Where such standards are in conflict with this specification the interpretation in accordance to this specification shall prevail.

1.1 Equivalency of Standards and Codes

Wherever reference is made in the Contract to specific standards and codes to be met by the goods and materials to be furnished, and work performed or tested, the provisions of the latest current edition or revision of the relevant standards and codes in effect shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national, or relate to a particular country or region, other authoritative standards that ensure a substantially equal or higher quality than the standards and codes specified will be accepted subject to the Engineer's prior review and written consent. Differences between the standards specified and the proposed alternative standards shall be fully described in writing by the Contractor and submitted to the Engineer at least 14 days prior to the date when the Contractor desires the Engineer's consent. In the event the Engineer determines that such proposed deviations do not ensure substantially equal or higher quality, the Contractor shall comply with the standards specified in the documents.

1.2 Definitions

In this specification the terms 'approved', 'approval' and 'required' mean 'approved by the Engineer', 'approval of the Engineer' and 'required by the Engineer' respectively.

1.3 Scope of Work

The works to be executed under this Contract comprise the following.

- (a) The provision at site of all necessary labour, materials plant & equipment, tools instruments etc. together with personnel of all types of skills for the mobilization execution with supervision demobilization and removal of plant tools etc. and other resources provided by the Contractor there from.
- (b) The execution of all necessary surveys for the setting out of building and for required completion of works.
- (c) The maintenance of proper site records, preparation and submission of calculations. Drawings progress reports etc. to the Engineer as required under this Contract Agreement.

- (d) Complete the construction works including all temporary works in accordance to the requirements under this Contract Agreement and as required by the Engineer.
- (e) The testing of required tests in accordance to the specifications therein and as directed by the Engineer.
- (f) All other works associated with the above for the completion of the Works as specified in contract.

1.4 Site Security

The Contractor shall provide all necessary fencing, hoardings, watching and lighting for the security of site and safeguarding the Works. The shelters, guard house and other facilities to be provided for the watchmen to do their duty in an efficient manner. Altering, shifting and adapting same from time to time shall also be the responsibilities of the Contractor. All costs in connection with this shall be borne by the Contractor.

1.5 Advertisement

The Contractor shall allow no advertisement to be placed on any hoarding, scaffolding or fencing erected in connection with the Works without the permission of the Engineer.

1.6 Temporary Works

The Contractor shall submit to the Engineer details, particulars, drawings etc., of all temporary works necessary for the Works for latter's information. The Engineer reserves the right to call for technical justification of the Contractor's proposals and to order any necessary modifications. But the Contractor shall be solely responsible for the stability and safety of all temporary works and for the quality of the permanent works resulting from the Temporary Works eventually adopted.

1.7 Temporary Services

The Contractor shall provide and maintain temporary services necessary for the execution of the Works under the Contract shall make applications and install such services in accordance with the regulations and requirements of the relevant authorities.

The Contractor shall be responsible for all costs and charges in connection with the installation, alteration, shifting, adopting use and maintenance of such services. On completion of the Works, the Contractor shall disconnect such service, which are no longer required by him and or the Employer and clear away all traces.

(a) Power

The Contractor shall apply and pay for the required power and install temporary electrical installation for the Works, Site Office, Engineer's and Consultants Offices, Stores, Labour Huts, Yards and Site lighting and testing for mechanical and electrical services done by others.

A stand-by generator, with adequate capacity should be made available by the Contractor at the site for use in an emergency, if any intention to work during night time and or

during power failures. The cost of supplying, installing, running and maintaining of the stand-by generator shall be borne by the Contractor.

(b) Water

The Contractor shall apply and pay for the continuation of temporary water supply connection to the site and construct storage tanks with adequate capacity, together with the necessary internal temporary PVC distribution system including an overhead tank at an adequate elevation, water pumps as may be required and providing taps, valves, etc. in order to provide water for the Works, for drinking purposes, and also for washing, bathing and sanitary facilities required by the Contractor's workmen, the Employer, the Engineer's staff.

Water Browsers with adequate capacity should be made available in order to bring water to the site from outside and to pump into the storage tanks in an emergency and/or during water cuts and all costs in connection therewith shall be borne by the Contractor.

1.8 Equipment

If Engineer needs to set the Telephone calls, Photocopies & Printing of Documents related to contract. The contractor shall provide such services cost should be borne by the contractor.

1.9 Flammable stores

All petroleum, explosives and flammable materials shall be stored in fireproof buildings and such precautions taken with regard to sitting and fire risks as the Engineer may direct. The Contractor shall make all arrangements with the licensing authority for the necessary license.

1.10 Safety on Site

Safety precautions throughout the construction operations shall comply with all relevant state statute, ordinance, decree, or other law or decree or any regulation or byelaw of any local or duly constituted authority applicable within the country at that time.

The Contractor shall provide and maintain the following safety measures in accordance with the regulations and requirements stipulated by the relevant Statutory Authorities.

- i. Safe working conditions
- ii. Safe means of access and exit
- iii. Safety systems for Plant, Machinery and Equipment
- iv. Appropriate safety equipment required at the site and yards such as Helmets, Gum Boots, gloves, eye protectors, Masks, Welding Masks, Safety Belts, etc. to the workmen and others engaged in the Works.
- v. Safety nets, safety canopies, safety signs, handrails, guardrails, platforms and other measures ensuring safety of workmen and others engaged in the Works.
- vi. Training, instructions, information and supervision as may be required to enable employees to avoid any potential dangers and hazards.
- vii. All measures ensuring the health and workmen including satisfactory welfare facilities, working conditions and environment.

Safety signs should be in the Sinhala, Tamil and English languages.

1.11 Sources of supply

The Contractor shall have obtained from the Engineer approval of sources of supply of his materials and shall not change his sources without prior approval.
All material that shall be rejected shall be promptly removed from site.

1.12 Soil Conditions

1.12.1 Unexpected ground conditions

The Contractor shall report immediately to the Engineer any circumstance, which indicates that in the Contractor's opinion the ground conditions differ from those expected by him from his interpretation of the site investigation reports.

1.13 Setting out

All the dimensions given in the drawings should be checked at the site by the Contractor prior to commencing all work. In the event of any discrepancies the Contractor shall inform the Engineer and request well in advance and prior to commencing work. Setting out shall be carried out from the main grid lines of the proposed structure. The Contractor shall employ a suitable responsible officer for site setting out works in accordance with the drawings.

The Contractor shall set out and check all column centers and floor levels and carry out such other surveys as may be necessary to establish accurately the placing of forms and all other basic structural works and setting out in both vertical and longitudinal directions. All survey marks and pegs shall be clearly identifiable with accurate records kept onsite by the Contractor that must be related to Bench Marks. In this regard Contractor must maintain accurate survey instruments at the sites at all times for any checking of level that the Engineer or his representative may desire.

Section - 7

BILL OF QUANTITIES

DUPLICATE

Preamble to the Bill of Quantities

1. SITE WORK

1.1 Site Location

The Site is Located at the **Peradeniya**

1.2 Works covered by the Contractor

The Conditions of Contract, the Specifications are to be read in conjunction with the Bill of Quantities.

The cost of complying with all conditions, obligations and liabilities described in the Conditions of Contract and the Specifications and the Bill of Quantities including all overhead charges (excluding VAT) and profit and carrying out the work as described shall be deemed to be spread over and included in the prices or sums stated by the Bidder in the Bill of Quantities. VAT should be separately added.

When trade names, brand and/or catalogue numbers are referred to, sole preference to any material or equipment is not intended. Any other material or equipment may be used, provided that the characteristics of type, quality, appearance, finish, method of construction and/or performance is equal to or superior to specify.

Whenever the method of measurement is not clear from documents available, the principles as given in the Sri Lanka Standard 573, 1982, Method of Measurement of Building Work shall be applicable.

All items of work shall comply exactly with the Contract unless otherwise approved by the Engineer and the rates and sums inserted in the Bill of Quantities shall be deemed to apply to the work as specified. If, for his own convenience or reasons of availability, the Contractor proposes and the Engineer approves the use or provision of alternative items, materials or method of working, or equivalent or superior quality to those specified in the Contract, the rates and sums inserted in the Bill of Quantities shall not in any case be increased as a result.

The quantities set out in the Bill of Quantities are provisional and cover the approximate scope of the work which is anticipated to be performed by the Contractor. The actual quantities used for final measurement purposes will be determined by the Engineer by measurement of the work completed by the Contractor.

Where, for his own purposes or due to his own default, the Contractor carries out the Works in such a manner that the quantity of any Item of work in particular component to be measured for payment purposes differs from that directed by the Engineer, then payment shall be made according to the lesser of the actual quantity and that directed. An excess quantity in one part of the component shall not, however, be allowed to offset a deficit elsewhere in the same component for measurement purposes.

Where the determination for payment purposes of the quantity of any Item of work depends upon the measurement of existing features or ground levels and the like, then prior to carrying

out any operations which might affect such measurement, the Contractor shall first take such levels and measurements as the Engineer may direct and, after the Engineer has had the opportunity to check the same, they shall be certified as agreed by both the Engineer and the Contractor. In the event that the Contractor fails to observe the above procedure, the Engineer shall determine the quantity to be assumed for payment purposes using the best information available to him, and his decision in the matter shall be final.

Items in the Bill of Quantities where “Rate Only” is specified shall be priced as required for a unit quantity of that item and shall not be carried to the total of Bill of Quantities.

Metric units are used throughout the Bill of Quantities for measurement purposes unless otherwise indicated. Abbreviations used in the Contract are as follows:-

mm	-	Millimeter
m	-	Linear meter
kg	-	Kilogram
m ²	-	Square meter
m ³	-	Cubic meter
nr	-	Number
Rs.	-	Sri Lanka Rupees
Cts.	-	Cents
Pro. Sum	-	Provisional Sum
L.Sum	-	Lump Sum

Bidder should visit and acquaint themselves with all existing conditions, the nature and extent of work to be done under this contract ascertaining the conditions governing access to the site, the extent of work and accordingly include for, in their prices.

Rates shall also include for :

- a. Equipment's, tool etc. scaffolding, all labour and waste incidental material fixing media cartage, hoisting, fitting and fixing complete to work in order and relevant overheads expenses and profits and for comply with by laws and regulations lawfully imposed by the Local Authorities etc. Any cost of recess of all switches, fan regulators, DP switches, power socket outlets, TV outlets, telephone outlets and junction boxes to the wall properly.
- b. All costs associated with provision of all holes, openings, chases, ducts and other builders' work required for all installation works under this contract, and make them good.

Bidder shall submit a sample of items (electrical switch gears, power and telephone outlets, panels, fittings & cables, sanitary fittings etc.) proposed by him, to the Engineer, two (2) months prior to the installation of the same, and shall obtain his approval.

All electrical panel boards, consumer units and telephone distribution frames, junction boxes should have lockable doors, wire numbering and a laminated line diagram should be pasted on the inside surface of the door.

The wiring installation shall comply with the requirements of IEE Wiring Regulations, latest edition.

Testing and commissioning of all installations should be carried out by the contractor.

Any discount offered will not be considered for Provisional Sum Items.

GENERAL

It is the tenderer's responsibility to see that the prices include for complying with all the requirements of the other documents whether specifically referred to in Bill of Quantities.

The Tenderer is advised to visit the site of the proposed work and it is the responsibility of the Tenderer to ascertain the conditions governing access to the site, the extent of working space storage area etc.

The rate for each item shall also include for all the following.

1. Labour and all connected cost.
2. Materials and goods including all connected cost.
3. Complying with regulations of the Municipal Council and/or any other relevant authority under which particular item of work is to be executed unless otherwise included in the preliminaries .
4. Plant and equipment unless and otherwise included in preliminaries.
5. Protecting and clearing.
6. In addition to above, the rate for item of work in substructure shall include for the works at depth extending below ground water table where applicable including excavation under water, removal and disposal of mud, stand and preparation of place to a condition suitable for proper execution of the work.

2.0 CONCRETE WORK

Unless otherwise stated all concrete shall be:-

- a) All concrete shall be so cast as to receive only that finishing on it's exposed faces as specified in the respective items in the BOQ
- b) All concrete shall be made dense with a vibrator and finished with monolithic to receive tiles, granite etc. The type and stability of which shall be agreed with the Engineer prior to commencement of concerning of each item.

Rates shall include plant for mixing, handling, hoisting, depositing compacting, vibrating, curing, making good after removal of form work and for any tests when necessary.

Rate for concrete work shall include any filler boards and sealants and external wall finish and shall be to the Engineer's approval.

Wherever the grade of concrete has been specified in the drawings, it shall supersede the clauses above and the drawings shall be final.

Rate for concrete shall include forming joints between new concrete and old concrete as per drawings and specifications unless separately stated or provided for.

Formed joints deemed to include form work.

Sealants work deemed to include preparation, cleaners, primers and sealers.

Rate of concrete shall include cube testing and concrete cube shall be taken as directed by the Engineer.

FORM WORK

Form work centering and moulds for concrete construction shall be of plywood shall be erected true in line, levels and vertically and to the required shapes and sizes and shall be of suitable design and substantial and rigid construction as to prevent deformation due to the placing and compacting of concrete and any incidental loading. All form work and centering shall be so constructed that no grout shall leak out during concreting.

Form work and centering shall be provided with adequate walling, struts braces, ties and clamps so as to maintain the dimensions lines and levels shown on the drawings during the entire operation of placing and compacting the concrete and to prevent any sagging exceeding 3 mm under the weight of wet concrete and any other super imposed loads which they would be subjected to during construction.

The contractor shall provide sufficient form work and moulds to ensure the adequate progress of work and the Engineer may direct the contractor to provide at contractor's expense such additional form work and moulds as they may deem necessary if in his opinion the proper progress of the work is retarded by their absence.

Rates shall include all necessary boarding, supports, erecting, framing, cutting angles, cleaning, wetting and treatment before placing concrete and striking or removal etc.

Formwork has been measured the net contact surface measurement between concrete and formwork.

Formwork to beams, columns and casings deemed to include ends.

REINFORCEMENT

The size of reinforcement rods described in the drawing or elsewhere shall be the minimum size and the rolling margin and any other tolerance shall be wholly above this size. Hooks and laps have been measured with the quantities.

All reinforcement shall be free from mill scale, dirt, oil, paint, grease or loose rust before fixing in position and shall be brushed with a stiff wire brush if so directed by the Engineer.

Reinforcement shall be bent cold by applying a slow even pressure on an approved type of bending apparatus.

Re-bending of incorrectly bent bars shall not be attempted.

Rates shall include cutting, bending, fabricating, placing in position, holding and supporting including temporary fixing supports, hangers and binding wire, ties, spaces, chairs.

Fabric reinforcement is deemed to include laps, tying wire, all cuttings and bending and spacers and chairs.

Reinforcements as per B.S. 4449 or 4461 having minimum characteristic strength of 460N/mm² for high yield steel & 250 N/mm² for mild steel.

3.0 MASONRY WORK

Brick Work, Block Work and Rubble Work

Rates shall include all rough and fair cutting, plumbing angles, forming rebated reveals, rough arches, raking out joints for pointing, plastering etc., cutting and pinning, forming or cutting chases, making good and like expenses.

Rates shall include all goggles, cramps, dowels, ties, templates, plumbing, settings, jointing, pointing, and fixing in position including hoisting and cleaning down.

Rates shall include Builders work in connection with electrical installation, plumbing and drainage work.

Rates shall include provision of stiffeners for all 112 mm thick walls, which exceed 2400 mm length.

Rates for brick work shall include preparation of surface to receive any external wall finish and shall be to Engineer's approval.

Rate shall include preparation of existing surface for proper bonding.

Rate shall include scaffolding whether specified separately or not.

Rates shall include extra material for curved work.

Rate for Brick Work shall include form joints between brickwork and existing surfaces of any material, approved filler between joint and approved sealant.

BILL OF QUANTITIES

CEYLON PETROLEUM STORAGE TERMINALS LIMITED

ENGINEERING FUNCTION

JOB: STABILIZING UNSTABLE EMBANKMENT AT TANK FARM AREA AT LBD PERADENIYA.**BOQ No: P&CE/.... /2025**

Item	Description	Unit	Qty	Rate Rs. Cts.	Amount Rs. Cts.
A	<u>PRELIMINARIES</u>				
	Insurance & Securities				
A.1	Provisional Sum for providing a Performance Security	PS	1		
A.2	Provisional Sum for providing an Advance Payment Security	PS	1		
A.3	Provisional Sum for insurance of Works, Machinery & Equipment, Plant, Materials, third party persons & property at site as per the Contract. (All Risk Policy)	PS	1		
A.4	Provisional Sum for insurance against accidents and injury to Contractor's personal as per the Contract. (Workmen Compensation)	PS	1		
	Contractor's Facilities				
A.5	Provide service & maintaining for contractors site office (getting Telephone, Electricity & water supply connection and fax & email). Office will be provided by the Client	Item	1		
	Construction Management and Supervision				
A.6	Allow lump sum for employing suitably qualified and experienced technical personnel for Construction Management and supervision Services at the site. CV's with originals of certificates should be provided by the Contractor for prior approval. Payments. will be made on their daily attendance basis. 01 Site Engineer - Degree in B.Sc Engineering. (Associate member of the Institute of Engineers in Sri Lanka and 10 years experience or NDT/NDES with 15 years experience. Part time) Technical Assistant 01 Nos - Civil (Full time at site) - NVQ4 or equivalent with minimum 5 years Experience. If the contractor fails to employ qualified personnel as per clause No.4.4 of bidding data irrespective of amount quoted by the contractor for this item, following amount will be deducted up to a maximum period equivalent to the Contract period.	Item	1		

Item	Description	Unit	Qty	Rate		Amount	
				Rs.	Cts.	Rs.	Cts.
	Site Engineer (Civil) - Rs.10,000 per visit (02 times per month) Technical officer (Civil) - Rs.60,000.00 per month Setting Out						
A.7	Setting out of Works in accordance with drawings and other written information given by the Engineer	item	1				
	Quality, Standers and Progress						
A.8	Allow lump sum for all cost in connection with preparing samples for testing, making arrangements for testing of Materials, Goods etc, as stipulated in the specification, obtaining test reports and submitting the same to the Engineer.	item	1				
A.9	Allow lump sum for provision of 3 sets of (Hard copies and soft copies) as built drawings of all services, for Engineer's approval.	item	1				
A.10	Allow lump sum for preparing & submitting programme of work. The program shall be up dated or revised as required by the Engineer as per the conditions of Contract.	item	1				
	Health, Safety & Environment						
A.11	Allow lump sum for providing all necessary safety measures to workmen at site conforming to the latest industrial safety regulations and as directed by the Engineer.	item	1				
A.12	Allow lump sum for maintaining the site in a clean and orderly manner at all times and during the entire contract period. The Contractor shall take due care to prevent water stagnation eliminate mosquito breeding places at the site.	item	1				
A.13	Allow lump sum for demobilization, removal of all rubbish, debris and clearing up site on completion, leaving all in good order and handing over.	item	1				
	Services & Facilities						
A.14	Allow lump sum for supply of water for the Works and paying all charges and other expenses in connection with the supply from water mains or any other alternative method of water supply, storage and reticulation. Item to be included monthly charges for the services.	item	1				

Item	Description	Unit	Qty	Rate		Amount	
				Rs.	Cts.	Rs.	Cts.
A.15	<p>Miscellaneous. Allow Lump sum for Soil tests in tank farm area and submission of report with proposed for important and the stability of the area.</p> <p>Total amount carried to summary</p> <p>PRICING PREAMBLES</p> <p>Concrete Works a) Rates shall include for plants for mixing, handling, hoisting, depositing, etc. curing and making good after removing formwork etc.</p> <p>b) Reinforced concrete fill into formwork and pack well around steel reinforcement in followings. (Reinforcement and formwork paid separately)</p> <p>c) All costs in connection with the construction of " kickers"</p> <p>d) All cement type to be OPC</p> <p>e) Concrete will be measured as the net area/volume, as shown on the drawings.</p> <p>Formwork Rate for formwork shall include for all necessary boarding, supports, erecting, framing, cutting angles, cleaning, apply approved foam oil, wetting before placing concrete, removal etc.</p> <p>Formwork is measured as the net contact surface measurement between formwork and concrete.</p> <p>Film coated Plywood or other equivalent quality approved type of shuttering should be used. Mould oil should be applied to formwork surfaces before using.</p> <p>Reinforcement All reinforcement shall be as per relevant British Standards having minimum characteristic strength of 500N/mm' for High Yield steel and 250 N/mm' for mild steel.</p> <p>Rate shall include for necessary tests as per BS4449 and SLS 375.</p>	item	1				
		Note					
		Note					
		Note					
		Note					
		Note					
		Note					

Item	Description	Unit	Qty	Rate		Amount	
				Rs.	Cts.	Rs.	Cts.
	All reinforcement shall be free from mill scale, dirt, oil, paint, grease or loose rust before fixing in position and shall be brushed with a stiff wire brush as directed.	Note					
	Rate for reinforcement shall include for supplying, cleaning, cutting, bending, fabricating, binding, placing in position, binding wires, ties, supporting bars, spaces, chairs, wastage etc. Rates to be included head transport cost of materials	Note					
2.1	EARTH WORK & TURFING						
2.1.1	Clearing the area of identified locations & removing vegetation, bushes, scrubs all debris as directed by the Engineer. (away from the site by head transport)	m2	400				
2.1.2	Excavation in Ordinary Soil removal surplus earth from the site. Rate to include for loading, unloading and removing by head transport.	m3	260				
2.1.3	Controlled Filling of excavated soil approved by the engineer, including spreading, watering and compacting in 150mm layers using vibrating roller/plate compactor (Compaction not less than 95% of modified proctor dry density) (Compacted volume)	m3	270				
2.1.4	Supplying & Turfing with approved quality turf (buffalo grass) sods for embankments & maintaining for 06 months period. Rate to include for preparation of ground for turfing.	m2	960				
2.1.5	Construction of Reinforced Concrete drain (D1) and (D2) width 300mm (internally) and varying depth of minimum 200mm (internally), with 100mm thick and 150mm thick walls, 150mm thick base grade 25 concrete and 50mm thick grade 15 concrete screed. Rate shall include for necessary excavation, concrete, reinforcements, formwork as per the detail drawing.	m	92				
2.1.6	Allow Provisional sum for Supplying and Fixing M.S. Dowels for Drain type-D2, 16mm dia and 1m long depth. Rate to include non shoring grout, 16mm dia. Reinforcement and all other accessories. Refer detail drawings.	PS	1				
2.1.7	Allow Provisional sum for Supplying & laying" Geomat" layer (erosion blanket) behind the wall as per detail drawing and instructed by the Engineer.	PS	1				
	Sub Total of Earth Work and Turfing						

Item	Description	Unit	Qty	Rate		Amount	
				Rs.	Cts.	Rs.	Cts.
2.2	<u>RETAINING WALL- RCC (Approximate length ~ 14m)</u>						
2.2.1	Excavation for retaining wall foundation to a depth not exceeding 1.0m in any material except rock requiring blasting. Rate to include for removal of excavated earth by head transport.	m3	45				
2.2.2	C15(20) cement concrete on gauge 1000 polythene under retaining wall	m3	3				
2.2.3	C25(20) concrete in retaining wall base & wall	m3	23				
2.2.4	Formwork in retaining wall base and wall	m2	120				
2.2.5	High yield reinforcement for wall base and wall	kg	2400				
2.2.6	Supplying & fixing of 100mm dia uPVC type 600 pipe as weep holes	m	50				
2.2.7	Supplying & laying " Geotextile" layer behind the wall as per detail drawing	m2	45				
2.2.8	Supplying & placing Clay puddle (100mm thick)	m2	5				
2.2.9	Supplying & laying filter material (20-75mm graded aggregate) as per drawing	m3	12				
2.2.10	DRAIN Construction of Reinforced Concrete drain width 300mm (internally) and varying depth of minimum 200mm (internally), width 100mm thick wall and base grade 25 concrete and 50mm thick grade 15 concrete screed. Rate shall include for necessary excavation, concrete, reinforcements, formwork as per the detail drawing.	m	28				
	Sub Total of RCC Retaining Wall and Drain						
2.3	<u>CONSTRUCTION OF TOE WALL- (Approximate length~ 17m)</u>						
2.3.1	Excavation for Toe wall foundation to a depth not exceeding 1.0m in any material except rock requiring blasting. Rate to include for removal of excavated earth by head transport.	m3	40				

Item	Description	Unit	Qty	Rate		Amount	
				Rs.	Cts.	Rs.	Cts.
2.3.2	Back Filling with available approved material behind the toe wall including watering and well ramming using Whacker or other similar machine in 75mm layers as directed. (Compaction not less than 95% of proctor dry density)	m3	30				
	C20 (20) Concrete						
2.3.3	Construct 100mm thick, C20(20) cement concrete, reinforced with 8mm dia. (200mm c/c, (BW) on a sloped area over compacted earth and on gauge 1000 polythene as per detail drawing. Rate to include polythene, filling etc.	m3	240				
	MASONRY WORKS						
	Rate include for all joggles, cramps, dowels, ties, templates, rough and fair cutting, forming splays, angles, reveals and setting, joining, fixing in position and pointing, protecting and cleaning down						
2.3.4	Random rubble masonry for wall foundation in 1:5 cement sand mortar.	m3	28				
2.3.5	Supplying & fixing of 75mm dia uPVC type 600 pipe as weep holes	m	24				
2.3.6	Supplying & placing Clay puddle (100mm thick)	m2	9				
2.3.7	Supplying & laying filter material wrapped with geotextile (20-75mm graded aggregate) as per drawing	m3	5				
2.3.8	Construction of Reinforced Concrete drain width 300mm (internally) and varying depth of minimum 200mm (internally), width 100mm thick wall and base grade 25 concrete and 50mm thick grade 15 concrete screed. Rate shall include for necessary excavation, concrete, reinforcements, formwork as per the detail drawing.	m	17				
2.3.9	Allow provisional sum for temporary scaffolding work/ GI frame work	PS	1				
2.3.10	Allow Provisional sum for Shifting and existing structures and re-instate.	PS	1				
2.3.11	Allow Provisional sum for unforeseen work during Construction stage.	PS	1				
Sub Total of Toe Wall							

Item	Description	Unit	Qty	Rate		Amount	
				Rs.	Cts.	Rs.	Cts.
3.0	Important of Tank farm Area						
3.1	Allow Provisional sum for removing of plant growth on tank walls surfaces and clearing the floor (carefully clearing not damaged the exting concrete tank and concrete floor) as per instruction by the Engineer.	PS	1				
3.2	Supplying and Fixing of 10mm thick, 300x350mm steel plates welded to the 8mm thick existing concrete tank wall. The rate painting and all necessary accessories. (Refer to the detail drawing and instructions provided by the Engineer.)	No.	3				
3.3	Supplying and Fixing of 10mm thick, 1000mm x 1000mm steel plates fixed to the existing concrete floor. The rate shall include painting, and all required accessories. (Refer to the detail drawing and instructions provided by the Engineer.)	No.	3				
3.4	Supplying and Fixing of four (04) 203 x 133 x 25 kg/m T sections welded to a steel plate (04 numbers for each plate) at one end, with the other end fixed to a 15-ton hydraulic jack. The hydraulic jack shall be mounted on a 1m x 1m steel plate anchored to the existing concrete wall. The rate shall include 15 Ton hydraulic jack, painting, and all necessary accessories. (Refer to the detailed drawing and instructions provided by the Engineer.)	No.	3				
3.5	Allow Provisional sum for unforeseen work during Construction stage.	PS	1				
	Sub Total of Tank area						
4.0	Geological Investigations by Mackintosh Tests						
4.1	General Mobilizing Travelling from office to site with equipment and return back	item	1				
4.2	Carrying out three mackintosh tests maximum up to 5m depth	No.	3				
5.0	Reporting						
	Submission of report with foundation recommendations and further stability of tank.	item	1				
	Total amount carried to summary						

SUMMARY OF BOQ

JOB: STABILIZING UNSTABLE EMBANKMENT AT TANK FARM AREA AT LBD PERADENIYA.

BOQ No: P&CE/.../2025

SUMMARY		
Item	Description	Amount Rs. Cts.
1	PRELIMINARIES	
2	TURFING, RETAINING WALL AND DRAIN	
2.1	EARTH WORK, DRAINS & TURFING (For location A)	
2.2	RETAINING WALL- RCC (L-14) AND DRAIN (For location b)	
2.3	TOE WALL AND CONCRETE LINNING (For location c)	
3	TANK AREA WORK	
Direct Construction cost - Sub Total I		
Add 10% of physical Contingencies from (a)		
Add 3% of Price Contingencies from (a)		
Sub Total II		
Add 2.5% Social Security Contribution Levy from (d) (only if applicable)		
Sub Total III		
ADD: VAT 18% (only if applicable)		
TOTAL AMOUNT WITH TAXES		

Section - 8
DRAWINGS

Section - 9

STANDARD FORMS (BID)

- *Bidders shall submit the completed Form of Bid Security/Bid Securing Declaration as appropriate in compliance with the requirements of the bidding documents.*

FORM OF BID SECURITY

.....
[Insert issuing agency's name and address of issuing branch or office]

Beneficiary : Ceylon Petroleum Storage Terminals Limited, Oil Installation, Kolonnawa

Date: [Insert (by issuing agency) date]

BID GUARANTEE NO.: [Insert (by issuing agency) number]

We have been informed that *[Insert (by issuing agency) name of the bidder]* (Hereinafter called "**the Bidder**") has submitted to you its bid dated [Insert (by issuing agency) date] (Hereinafter called "**the Bid**") for execution of **Repairing Stabilizing Unstable Embankment at Tank farm in CPSTL LBD – Peradeniya (Contract No:**) under Invitation for Bids No. ("The IFB").

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 on figures]* *[insert amount in words]* upon receipt by us of your first demand in writing accompanied by a written statement stating that the bidder is in breach of its obligation(s) under the bid conditions, because the Bidder:

- (a) has withdrawn its Bid during the period of bid validity specified; or
- (b) does not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter "the ITB"); or
- (c) having been notified of the acceptance of its Bid by the Employer during the period of bid validity, (i) fails to refuses to execute the Contract Form, if required, or (ii) fails to refuses to furnish a 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 the Performance Security issued to you by the Bidder; or
- (b) If the Bidder is not the successful bidder, upon the earlier of
- (c) Our receipt of a copy of your notification to the Bidder that the bidder was unsuccessful, otherwise it will remain in force up to 28 days beyond the validity of the bid. (.....)

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

.....
[Signature of authorized representative(s)]

Check List for Bidders

Bidders are advised to fill the following table:

ITEM	ITB Clause	Yes (tick)	REFERENCE
Form of Bid			
Addressed to the Employer?	18		
Completed?	18		
Signed?	18		
Bid securing Declaration form (if required)			
Properly filled and signed	16		
Bid Security (if required)			
Addressed to the Employer?	16		
Format as required?	16		
Issuing Agency as specified?	16		
Amount and currency as requested?	16		
Validity 28 days beyond the validity of Bid ?	16		
Qualification Information			
All relevant information completed?	4		
Signed?	4		
Addendum			
Contents of the 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		