



Ceylon Petroleum Corporation

**Proposed Construction of Lanka
Filling Station - Delft**

B/30 /2026

BIDDING DOCUMENT

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INVITATION FOR BIDS

Note :

The relevant form shall be filled by the Procuring Entity and included in Volume 2 of the bidding documents.

Note :

Bidders are advised to consider the information printed in bold & Italic in the document as a checklist, when preparing their bids. However, it is the responsibility of the bidders to comply with all the requirements given in the bidding document.

INVITATION FOR BIDS (IFB)
MINISTRY OF ENERGY
Ceylon Petroleum Corporation
Proposed Construction of Lanka Filling Station - Delft
B/30/2026

The Chairman, Departmental Procurement Committee (DPC), on behalf of the Ceylon Petroleum Corporation, invites sealed bids from eligible and qualified contractors for the contract titled “Proposed Construction of Lanka Filling Station – Delft.”

The period of construction for this work is three (03) months.

Bidding will be conducted through the National Competitive Bidding (NCB) Procedure.

To be eligible for contract award, the successful bidder / nominated subcontractor shall not be blacklisted and shall possess CIDA Grade C5 or C4 and above at the time of submission of the bid.

Bidding documents may be obtained on working days between 0900 hrs. and 1500 hrs. up to 27.05.2026, from the office of the Manager (Procurement & Stores), Ceylon Petroleum Corporation, 1st Floor, No. 609, Dr. Danister De Silva Mawatha, Colombo 09, upon submission of a written request, or may be downloaded from the CPC website at <http://ceypetco.gov.lk/public-tenders/> upon payment of a non-refundable fee of Rs. 7,500.00 (Rs. 6,200.91 + 2.5% SSCL + 18% VAT per set).

As per the provisions of the Public Contracts Act No. 3 of 1987, prospective bidders shall be registered with the Department of the Registrar of Companies via <https://eroc.drc.gov.lk/> and shall submit the PCA 3 Certificate along with their bid.

Bids will be closed at 1400 hrs. on 29.05.2026 and opened immediately thereafter at the office of the Manager (Procurement & Stores), Ceylon Petroleum Corporation, at the address given below.

Chairman,
Departmental Procurement Committee,
C/o Manager (Procurement & Stores),
Procurement & Stores Function,
Ceylon Petroleum Corporation,
1st Floor, No. 609, Dr. Danister De Silva Mw.
Colombo 09.
Tele : 011-7296336
E-mail: procuregeneral@ceypetco.gov.lk

Section - 1

INSTRUCTIONS TO BIDDERS

Notes :

Instructions to Bidders shall be read in conjunction with Bidding Data under Section 5 (Volume 2). Matters governing the performance of the Contractor, payments under the Contract, or matters affecting the risks, rights, and obligations of the parties under the Contract are included under Section 3 - Conditions of Contract (Volume 1) and Contract Data under Section 5 (Volume 2). However, some information is reproduced in this Section facilitate the bidder to price their bids.

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

Note :

Bidders, may consider the information printed in bold & Italic in the document as a checklist when preparing their bids. However, it is the responsibility of the bidders to comply with all the requirements in the bidding document.

Section 1

1. INSTRUCTIONS TO BIDDERS

Instructions to Bidders applicable for this Contract are that given in Section 1 of the Standard Bidding Document for Procurement of Works, ICTAD Publication No. ICTAD/SBD/01, January 2007, published by the Institute for Construction Training and Development [ICTAD], “Savsiripaya”, Wijerama Mawatha, Colombo 07.

This publication will not be issued with the Bidding Document and Bidder is advised to Purchase it from ICTAD.

Section - 2

STANDARD FORMS (CONTRACT)

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

Notes on Form of Letter of Acceptance

The Letter of Acceptance will be the basis for formation of the Contract as described in Clause 1.6.3 of the Instructions to Bidders. This Form of Letter of Acceptance should be filled in and sent to the successful bidder only after evaluation of Bids and after obtaining approval from the relevant authority.

Notes on Standard Forms :

- *Bidders shall submit the completed Form of Bid Security as appropriate in compliance with the requirements of the bidding documents.*
- *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, Form of Advance Payment Security and Form of Retention Money Guarantee should not be completed by the bidders at the time of submission 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

[Letter heading paper of the procuring entity]

----- [date]

To: -----
[name and address of the Contractor]

This is to notify you that your bid dated ----- *[insert date]* for the construction and remedying defects of the ----- *[name of the Contract and identification number]* for the Contract price of -----*[name of currency]* -----*[amount in figures and words]* as corrected in accordance with Instructions to Bidders and / or modified by a Memorandum of Understanding, is hereby accepted.

The adjudicator shall be ----- *[name and address of the Adjudicator, if agreed]* / shall be appointed by the Institute for Construction Training and Development (ICTAD).

You are hereby instructed to proceed 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 of Performance Security is : ----- *(fill the date 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 and title of Signatory : -----

Name of Agency : -----

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

Authorized signature of Employer

COMMON SEAL

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)**

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

Beneficiary:
[Name and Address of Employer]

Date:

PERFORMANCE GUARANTEE NO.:

We have been informed that[name of Contractor]
(hereinafter called " the Contractor") has entered into Contract No.....[reference
number of the contract] dated.....with you, for theinsert "Construction"
of[name of contract and brief description of
Works] (hereinafter called "the Contract").

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

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

This guarantee shall expire, no later than the.....day of....., 20.....[insert 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.

This guarantee shall be governed by the laws of Sri Lanka and shall be subject to the Uniform
Rules for Demand Guarantees, published as number 758 by the International Chamber of
Commerce, except as stated above.

[Signature(s)]

FORM OF ADVANCE PAYMENT SECURITY

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

Beneficiary:[Name and Address of Employer]

Date :

ADVANCE PAYMENT GUARANTEE NO.:.....

We have been informed that[name of Contractor] (hereinafter called “the Contractor”) has entered into Contract No.....(*reference number of the contract*) dated.....with you, for the Construction of[name of contract and brief description] (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 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.

[Signature(s)]

⁴ The Guarantor shall insert an amount representing the amount of the advance payment and denominated either in the currency(ies) of the advance payment as specified in the Contract.

FORM OF RETENTION MONEY GUARANTEE

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

Beneficiary :.....[Name and Address of Employer]

Date :

RETENTION MONEY GUARANTEE NO.:.....

We have been informed that[name of Contractor] (hereinafter called “the Contractor”) has entered into Contract No.....[reference number of the contract] dated.....with you, for the execution of[name of contract and brief description of Works] (hereinafter called “the Contract”).

Furthermore, we understand that, according to the conditions of the Contract, when the works have being 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 words⁵] 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.

This 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.

[Signature(s)]

⁵ The Guarantor shall insert an amount representing the amount of the second half of the Retention Money.

SECTION – 3

CONDITIONS OF CONTRACT

Conditions of Contract shall be read in conjunction with Section 5- Contract Data in Volume 2, which shall take precedence over the Conditions of Contract.

Section – 3

3.0 GENERAL CONDITIONS OF CONTRACT

General Conditions of Contract applicable for this Contract are that given in Section 3 of the Standard Bidding Document for Procurement of Works, ICTAD Publication No. ICTAD/SBD/01, January 2007, published by the Institute for Construction Training and Development [ICTAD], “Savsiripaya”, Wijerama Mawatha, Colombo 07.

This publication will not be issued with the Bidding Document and Bidder is advised to Purchase it from ICTAD.

General Conditions of contract shall be read in conjunction with schedule provided under Section 5 of the Bidding Document.

SECTION - 4

**FORM OF BID AND QUALIFICATION
INFORMATION**

Note :

*Bidders are advised to consider the information printed in **Bold & Italic** in the document as a checklist, when submitting their bids. However, it is a responsibility of the bidders to comply with all the requirements given in the bidding document.*

Form of Bid

Name of Contract : Proposed improvements to internal road 2000m. and width 100m. Turning Circle at China bay upper tank farm

To : Ceylon Petroleum Corporation

Gentleman,

- 1. Having examined the Standard Bidding Document - Procurement of Works [ICTAD/SBD/01 - Second Edition, January 2007], Specifications, Drawings and Bills 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, Bills of Quantities and addenda for the sum of Sri Lankan Rupees (LKR) 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 Seventy Seven (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 accept / we do not accept the Adjudicator.***
- 7. We understand that you are not bound to accept the lowest or any Bid you may receive.***

Dated this day of 20.... in the capacity of duly authorized to sign tenders for and on behalf of

(IN BLOCK CAPITALS)

Signature :

Address :

Witness :

SECTION – 5
BIDDING DATA AND CONTRACT DATA

5.1 Bidding Data

Instructions to Bidders Clause Reference

- 1.1 The Employer is
Name : **Ceylon Petroleum Corporation**
Address : **“609”, Dr. Danister De Silva Mw., Colombo 09.**
The Works Consists of – **Proposed Construction of LFS-Delft**

Located at : **Delft**

1.2 Intended Completion Date is 03 Months from the Start Date.

1.3 The Office for collection of bid forms is :

Bidding documents may be obtained on working days between 0900 hrs. and 1500 hrs. up to 27.05.2026 from the office of the Manager (Procurement & Stores), Ceylon Petroleum Corporation, 1st Floor, No. 609, Dr. Danister De Silva Mawatha, Colombo 09, upon submission of a written request, or may be downloaded from the CPC website at <http://ceypetco.gov.lk/public-tenders/> upon payment of a non-refundable fee of Rs. 7,500.00 (Rs. 6,200.91 + 2.5% SSCL + 18% VAT per set).

The non-refundable fee is Rupees **Rs. 7,500.00 (including Taxes)**

The source of funds is Ceylon Petroleum Corporation

4.2 The registration required

Specialty :

Grade : **C5 and C4**

4.3 The following information shall be provided in Section 4:

- * ICTAD Registration;
 - Registration number
 - Grade
 - Specialty
 - Expiry Date
- * VAT Registration number
- * Construction Programme
- * Legal Status (Sole proprietor, Partnership, Company etc.)
- * Total monetary value of construction work performed for each of the last five years;
- * Experience in Construction work of similar nature jobs performed in last ten (10) years equivalent to the contract value.

- * Major items of construction equipment proposed to carry out the Contract;
- * Qualifications and experience of key site management and technical personnel proposed for the Contract;
- * Audited financial statements for the last three years

4.4 * Average of the annual volume of construction work performed in the last five years shall be at least Rs. 100.0 million.

- * Experience in the construction of at least one contract of a nature and complexity equivalent to the Works over the last 05 years (to comply with this requirement, works cited should be at least 70 percent completed);

- * Following technical and managerial Staff:

Technical Staff :

1. Chartered B.Sc. Civil Engineer with five years – 01 (Part Time)
2. Civil Engineer with BSc. Engineering, B.TECH Engineering or BEng or similar qualifications and at least 2 years' experience in similar nature works or Assistant Engineer with NDT/ HNDE/TTI or equivalent qualifications and at least 5 years' experience in similar nature works (full time during the civil works).

9.1 Employer's address for the purpose of clarification is ;

Name : Mrs. K. Hewagamage

Address : **Manager (Procurement & Stores), Procurement & Stores Function,
1st Floor, No. 609, Dr. Danister De Silva Mw. Colombo 09.**

Tele : 011-7296336

11.1 The language of the bidding document shall be English.

12.0 Any other _____

13.3 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 not subjected to price adjustment in accordance with Clause 47 of the Conditions of Contract.

14.1 Bidders are not allowed to bid in foreign currencies

15.1 The Bid shall be valid up to **Ninety-One days (i.e. up to 27.08.2026) from the date of closing of the 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 of **Rs. 35,000.00.**
- Valid until 24.09.2026 (**119 days**) from the date of closing the Bid.
- **issued by a licensed Commercial Bank in Sri Lanka** and acceptable to Employer using the form for bid security (unconditional guarantee) included in Section 9 Standard Forms.

17. Pre-bid Meeting/ Site Visit will be held at **1000 hrs. on 22.05.2026**
Venue : **Delft** Contact : Mr. R. Sivasankar Tele : 011-7296138 / 0777-3405645

19.2 a The Employer's address for the purpose of Bid submission is
Manager (Procurement & Stores), Procurement & Stores Function, 1st Floor, No. 609, Dr. Danister De Silva Mw., Colombo 09.

19.2 b Contract name: **Proposed Construction of LFS – Delft**

Contract no : 400047368

20.1 The deadline for submission of Bids shall be **29.05.2026**

27.0 Correction of Errors

The existing clause for Correction of Errors in ITB is deleted and shall be replaced with followings.

- * Where there is a discrepancy between the amounts in figures and in words, the amount in words will govern; and
- * Where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern, unless there is an obviously gross misplacement of the decimal point in the unit rate, in which case the line item total as quoted will govern, and the unit rate will be corrected.
- * If the total bid price increases due to corrections made on above procedure, the bid price shall not be adjusted to the increased price and the corrections should be readjusted within the bid price in consultation with the bidder.
- * If the bid price decreases by the above procedure, the amount stated in the Form of Bid shall be adjusted with the concurrence of the bidder and shall be considered as binding upon the bidder.
- * If the bidder does not accept the corrected amount of bid, its bid shall be rejected and the bid security may be forfeited.

28.1 For evaluation and comparison of Bids under Sub-Clause 29.2 rates and prices quoted in foreign currencies by the bidders will be converted to Sri Lanka Rupees using middle exchange rate published by the Central Bank of Sri Lanka, on the date of closing of the

Bids.

34.0 The successful bidder on being notified by CPC of the acceptance of his Bid, shall furnish at his own expense a Performance Guarantee, within fourteen (14) days of such notification issued by a Commercial Bank in Sri Lanka.

The amount of Performance Security is 5% of the Initial Contract Price.

36.0 The Adjudicator proposed by the Employer (To be informed after awarding the Contract)

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

Contract Data

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

1.1 The Employer is

Name : **Ceylon Petroleum Corporation**

Address: **No. 609, Dr. Danister De Silva Mw., Colombo 09.**

Name of Authorized Representative : To be informed after awarding the Contract

1.1 The Engineer is

Name :

Address :

.....

.....

Name of Engineer's Representative : To be notified after awarding the Tender

1.1 The Works consists of : **Construction of LFS-Delft**

1.1 The Site is located at : **Delft**

1.1 The Start Date shall be **Fourteen (14) Days** from the Letter of Acceptance.

2.3 The following documents also form part of the Contract:

1. Bidding Data
2. Contract Data
3. Specification
4. B.O.Q.

8.1 Schedule of other contractors:

Name

Period

9.1 Schedule of Key Personnel:

Minimum persons with qualifications and experience to be defined,

1. Chartered Civil B.Sc. Engineer with five years – 01 (Part Time)
2. Civil Engineer with BSc. Engineering, B.TECH Engineering or BEng or similar qualifications and at least 2 years' experience in similar nature works or Assistant Engineer with NDT/ HNDE/TTI or equivalent qualifications and at least 5 years' experience in similar nature works (full time during the civil works).

CV's of key personnel to be submitted with the Bid.

13.1 The minimum insurance covers shall be :

- (a) 10% of the initial Contract value (for the Employer)
- (b) 110% of the initial contract value (for the contractor)

17.1 The Intended Completion Date for the whole of Works shall be **03 months from the Start Date**

21.1 The Site Possession Date shall be Fourteen (14) Days from Letter of Acceptance

27.1 The Contractor shall submit a programme for the Works within **Seven (07) Days** of delivery of the Letter of Acceptance.

27.3 The period between Programme update is 1 week.

27.4 The amount to be withheld for late submission of a Programme is Rupees **10% of the value of the bill certified.**

35.1 The Defects Liability Period is 365 Days.

39.2 Engineer may order variations up to a total cumulative value of not exceeding **5% of the initial contract value.**

44.1 The following events shall also be Compensation Events:

Not Applicable

46.1 The exchange rate used for calculating the amounts to be paid in currencies other than Sri Lankan Rupees is : **Not Applicable**

47.1 The Contract Price is not subjected to price adjustment

Weightings of Inputs: **Not Applicable**

- 48.1** The retention from each payment shall be 10% 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. 1/1000 of the initial Contract Price Per Day.
- 50.1** The maximum amount of liquidated damages for the whole of the Works shall be 10% percent of the Initial Contract Price. If the total amount of the liquidated damages exceed 10% of the initial contract value, the contract is liable for termination.
- 51.3** Delete the existing sub-clause 51.3 and reword same as follows :
- The advance payment shall be repaid by deducting proportionate amounts from payments otherwise due to the Contractor, following the schedule of completed percentages of the works on a payment basis. The advance payment shall be repaid in full when the total certified value of work reaches 90% of the initial contract price. But if the contract has not been substantially completed before the Intended Completion Date and hence the advance payment made is not fully recovered, the balance amount of the Advance Payment shall be repaid in full from next progressive interim payment. No account shall be taken of the advance payment or its repayment in assessing valuations of work done, Variations, price adjustments, Compensation Events, Bonuses or Liquidated Damages.
- 52.1** The Performance Security shall be 5% percent of the Initial Contract Price issued by a licensed Commercial Bank in Sri Lanka
- Schedule of operating and maintenance manuals.
- 58.1**
- 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%.

Section – 06
SCOPE OF WORKS

Scope of Work

6.1 GENERAL SPECIFICATIONS

- 6.1.1 Specification for Building work - Sri Lanka (Vol. I) – July 2004 ICTAD Publication No. SCA/4/I (Vol. 1)
- 6.1.2 Specification for Building work - Sri Lanka (Vol. 2) – October 2001 Sanitary Installation. ICTAD Publication No. SCA/4/II (Vol. II).
- 6.1.3 Specification for Water Supply & Sewerage and Storm Water Drainage works - Sri Lanka. ICTAD Publication No. SCA/3/2.
- 6.1.4 Specification for Electrical and Mechanical Works associated with Building & Civil Engineering - Sri Lanka. ICTAD Publication No. SCA/8.

6.2 METHOD OF MEASUREMENT

The Bill of Quantities has been prepared generally in accordance with the “Sri Lanka Standard Method of Measurement” (SMM 573, 1999) and quantities given here may not be 100% accurate. Payment will be made based on the actual measurement at the site.

6.3 GENERAL NOTES ON PRICING

- 6.3.1 The Contractor should carry out the work strictly as per the drawings and as per the advice by the Engineer. The BOQ quantities are approximate and provided only a guideline.
- 6.3.2 Cost of any testing to the requirements of the Engineer should be borne by the contractor.
- 6.3.3 Contractor should arrange any testing request by Engineer from Institution decided by the Engineer.
- 6.3.4 Contractor should Provide sanitary facilities for workmen.
- 6.3.5 All necessary planking, strutting dewatering and Scaffolding work for construction unless allowed under items.
- 6.3.6 In the specifications, if any materials/fittings are described by using a trade name, it is only for the purpose of indicating the minimum level of quality and standard required. The Bidder may use any other material/fitting, which are considered equivalent in quality and standard to those specified therein subject to the approval of the Engineer.

6.4 PARTICULAR SPECIFICATIONS

The Particular Specification shall be read in conjunction with the General Specification where applicable. In the event the Particular Specification is in conflict with the General Specification, the Particular Specification shall prevail.

6.4.1 EARTH FILLING

- 6.4.1.1 Where the existing ground surface is covered with vegetation topsoil or other unsuitable material, it shall be removed together with roots, rubbish or objectionable materials etc. Vegetation or other unsuitable material so removed shall be disposed within 5.0 km of the site.
- 6.4.1.2 It shall be free of vegetation, roots and other deleterious materials.
- 6.4.1.2 Maximum dry density at optimum moisture content (Standard Proctor Density) shall not be less than 1.6 g/cm³. If the Engineer decides to check.
- 6.4.1.3 The maximum size of particles shall not exceed 120 mm.
The Engineer shall have complete control over the excavation, moving, filling, and disposition of all material and shall determine the suitability of material to be placed in fill

areas. All material determined unsuitable shall be placed in spoil area and / or removed from site as directed by the Engineer.

The Contractor shall inform and satisfy as to the character; quality and distribution of all materials to be excavated filled, spoiled and borrowed.

Should the Contractor through negligence or other fault excavate or fill beyond the designated lines, he shall replace/remove such excavation/fill in an approved manner and conditioned at his own expense.

6.4.1.4 Placing of Fill Material

The distribution and gradation of the material throughout the fill shall be carried out as directed by the Engineer, so as to ensure that the fill will be free from lenses, pockets, streaks, or layers of material differing substantially in texture or gradation from the surrounding material. The borrow excavation and placing operation shall be such that the materials when compacted will blend sufficiently to secure the best practicable degree of compaction and stability. Successive loads of material shall be dumped and spread so as to produce the best practicable distribution of material and for this purpose the Engineer may designate the locations in the fill areas where individual loads shall be deposited.

The fill material shall be placed in layers not exceeding 225-mm thickness in loose state after compacting the existing surface on which the fill is laid. The fill shall be compacted at each lift to not less than 90% of the Standard Proctor Density for the building area. For the earth filling along the road way and access roads, the fill shall be compacted at each lift to not less than 100% of the standard Proctor density. The Engineer will decide the sufficiency of the compaction and will request the contract to do the testing if required. The thickness of the 1st layer may be increased to facilitate compaction with the approval of the Engineer.

The method of compaction shall be approved by the Engineer.

6.4.1.5 Method of Measurement

The quantity of fill material shall be determined by measuring the depth by auguring and multiplying by the area each auger hole represents. All such quantities shall be added to determine the total quantity. Interim payments shall be made on quantities estimated by the Engineer.

In the alternative, quantities could be calculated on level differences of original ground and the finished level if the Engineer decided to do so.

The measurements for earthwork have to be the net volume of earth after compacting the approval of the Engineer.

6.4.2 Surface Treatments

The method of treatment and application to be forwarded with tender for evaluation and approval of the Engineer.

The Contractor shall submit prior to acceptance of the work, written certificate of warranty for 10 years from the date of completion of the treatment and if any outbreak of termites is experienced within this period, Contractor should carry out the necessary treatment free of charges.

6.4.3 EXCAVATION

6.4.3.1 Any type of soil excavation except hard rock requiring blasting.

6.4.3.2 Leveling bottom of excavation.

6.4.3.3 Back filling with selected excavated material and consolidation.

6.4.3.4 Dewatering including pumping out water up to the nearest manhole in the existing drainage system.

6.4.3.5 Disposal of surplus excavated material away from the premises.

6.4.3.6 Necessary planking and strutting.

6.4.3.7 Working spaces if required as BOQ contains the quantity as per drawing requirement.

6.4.4 CONCRETE WORKS

6.4.4.1 In-Situ Concrete

Grade of concrete used in the construction and the suggested mixes are as follows but the contractor to achieve the given compressive strength (eg. Grade 30 = compressive Strength 30 N/mm²).

Grade 30 - 20mm aggr.	(suggested mix 1:1:2)
Grade 25 - 20mm aggr.	(suggested mix 1:1 1/2:3)
Grade 20 - 20mm aggr.	(suggested mix 1:2:4)
Grade 15 - 25mm aggr.	(suggested mix 1:2.5:5)
Grade 10 - 25mm aggr.	(suggested mix 1:3:6)

6.4.4.2 Mixing Concrete

- 6.4.4.2.1 All reinforced concrete work shall be carried out in accordance with B.S.8110 and parts remaining under water shall be carried out in accordance with B.S. '8097 of 1987.
- 6.4.4.2.2 The cement is to be Portland cement obtained from an approved manufacturer and shall comply with B.S. 12, used fresh and stored in a dry place.
- 6.4.4.2.3 The materials for Concrete shall be measured in accurate gauge boxes on a boarded platform "Ready Mix" Concrete shall not be used without the written consent of the Engineer, and this consent if granted may control those specified therein.
- 6.4.4.2.4 The Concrete shall be properly cured by covering with an absorbent material and maintained in a wet condition for as long as may be directed by the Engineer and at all times proper and adequate protection is to be provided against rain, heat and drying wind.
- 6.4.4.2.5 No load shall be allowed on the work until the concrete has sufficiently matured.
- 6.4.4.2.6 Prices of all concrete beds are to include for lying in alternate bays if required and for formwork to edges.
- 6.4.4.2.7 Rate for concrete work shall include taking all necessary precautions to cover the concrete surface with "Polythene" to protect from drying and shrinkage of the surface.
- 6.4.4.2.8 Rate shall include plant fixing, handling, hoisting, depositing, compacting and vibrating.

6.4.5 REINFORCEMENTS

- 6.4.5.1 Mild steel reinforcement and steel fabric reinforcement shall comply with B. S. 785 part I, as applicable and shall be free from loose rust, scale dirt or grease. Bar Bending shall comply with B. S. 1478, and all bends are to be made cold.
- 6.4.5.2 Bar reinforcement has been measured as net weight as placed and tied. The prices are to allow for bends, waste and for extra weight of tying wire, distance blocks, ordinary spacers, rolling margin and for laps (design laps measured)
- 6.4.5.3 Fabric reinforcement has been measured as net area covered, and the prices are to allow for 6" minimum side and end laps, tying wire and ordinary spacers.
- 6.4.5.4 Grade $f_y = 460 \text{ N/mm}^2$ – Deformed high yield steel bar reinforcement.
- 6.4.5.5 Grade $f_y = 250 \text{ N/mm}^2$ – Plain round steel bar reinforcement
- 6.4.5.6 Contractor shall produce a certificate of origin from the manufacture and a test certificate of compliance with the relevant Sri Lanka and British Standard from an approved Laboratory at the Contractor's own cost.

6.4.6 FORMWORK

- 6.4.6.1 Prices for formwork are included for overlaps, passing, battens, strutting, bolting, wedging, easing, striking, and removing.
- 6.4.6.2 Prices for wrought formwork are to include for rubbing down the face of concrete after striking to remove all laitance or irregularities and for forming fair face to concrete free from pitting or honeycombing with all arises formed sharp and true.
- 6.4.6.3 The prices of pre-cast concrete lintols are to include for all moulds, steel rod reinforcement cranked and hooked at ends and for leaving the exposed faces rough for plaster unless otherwise described and for hoisting and setting at various levels in cement mortar where described as "finished fair" the concrete is to be finished to give a perfectly smooth and even surface.
- 6.4.6.4 The prices of all chases, holes, mortices, etc. shall include either for being cut out afterwards and no claim by the Contractor in this respect will be allowed.

6.4.7 WATERPROOFING WORK

6.4.7.1 Scope of Work

Waterproofing shall be carried out in a specified area of the concrete floor slab and up to 225 mm above the finished floor level on thinly plastered masonry walls in toilet /bath areas and other specified areas.

6.4.7.2 Description of Work

The floor slab shall be thoroughly washed and cleaned to be free of dirt, loose mortar particles, paints, films, etc.

The water proofing membrane shall be applied on the dampened surface in conformity with the water proofing material Supplier/ Manufacture's printed literature and under the direction of the Supplier/ Manufacture's representative.

After the waterproofing membrane is sufficiently cured, the relevant area shall be ponded with water for at least 3 days for observation of leaks. If any leaks are observed, the application of the membrane shall be repeated.

If no leak or dampness is observed in the floor slab, floor tiling or other finish should follow as soon as possible thereafter, taking care not to disturb or damage the membrane in any way.

6.4.7.3 Material & Method of Application

The contractor submits the proposed material and method of application with the tender for evaluation and approval of the Engineer to be obtained prior to commencement.

6.4.7.4 Certificate & Warranty

The contractor shall submit prior to acceptance of the work, written certificate stating that all materials and workmanship in connection with specified work have been furnished and installed in complete conformance with these specifications, and with the approved manufacturer's requirements for this work.

The contractor shall jointly with the Manufacturer/Supplier of the specialist waterproofing materials furnish a warranty to the Employer valid for a period of 10 years after handing over of the works, against dampness and/or moisture penetration through treated surfaces due to defective material and/or defective workmanship

The warranty shall provide not only the materials necessary to remedy a problem but also the labour and equipment

6.4.8 METAL WORKS

6.4.8.1 General

Aluminum glazed units shall be supplied with all hardware furniture and fittings.

The Contractor shall submit to the Engineer the shop drawings and technical data and other relevant information for approval of the Engineer.

The Contractor shall include in his rates the cost of tests generally required for ascertaining the suitability of aluminium extrusions, anodizing, strength of joints, gaskets and weather stripping, strength of joints and air and water infiltration.

B.S. 1161: 1977 (1991) – Specification for aluminium alloy sections for Structural purposes.

B.S. 1470: (1987) – Wrought aluminium and aluminium alloys plate, sheet and strip.

B.S. 1474: (1987) – Wrought aluminium and aluminium alloys for general engineering purpose and external architectural application bars, extruded down tubes and sections.

6.4.8.2 Powder Coating

Powder coating shall conform to BS 6496: 1984 (1991). The powder coating shall be of thickness 60-80 microns and of approved colour. The Contractor shall submit a ten (10) year guarantee for the powder coated finish. The Contractor shall allow for cost of required tests for checking the coating as directed.

6.4.8.3 Wind Loading

The fabricated aluminum doors and windows shall be capable of withstanding a wind pressure load not less than 1500 Pascals (75 M.P.H.)

6.4.8.4 Weather Stripping

The weather stripping shall be vinyl or other plastic materials which are dimensionally stable and are resistant to ultra violet rays, water absorption and are suitable to be used in marine atmosphere.

6.4.8.5 Screws Nuts etc.

All screws, nuts, washers, bolts, rivets and other fastening devices should be of stainless steel. Aluminum alloy fasteners may be used in lieu of stainless steel fasteners with the written approval of the Engineer.

6.4.8.6 Ironmongery

Ironmongery used shall satisfactorily perform the function for which it is intended. They shall be of aluminum die cast alloy, stainless steel or other non-corrosive materials compatible with aluminum. The Engineer shall duly approve all items of ironmongery before fixing in position.

6.4.8.7 Glass

Glass shall be 5mm thick clear glass suitable for single glazing and having a thickness (minimum 5mm) as specified. Glass shall conform to the relevant British Standard including following:

B.S. 952 Part 1: 1995 – The classification of glass for glazing and terminology for work and B.S. 952 Part 2 of 1980.

6.4.8.8 Assembly

The design of windows should permit free movement of air from exterior environment to the immediate spaces between the window frame and ventilator to achieve pressure equalization. The windows should have snap on reusable extruded aluminium glazing beads and easily removable bottom rails.

The glazing beads should not extend underneath the glass. The design of windows should permit re-glazing without disassembly of all ventilator extrusions from the frame.

All openable window sash corners should be mitered angle reinforced or mechanically staked and Epoxy painted. If frames with incompatible extrusions are used, then these extrusions should be mortised and tenoned. A permanent watertight joint should be made to the junctions of the side frame members with all horizontal members. Window panels must be provided with minimum three weep holes, one at the center and one each between the jamb and the setting block. Fixing of aluminium units to concrete shall be done with high quality Rawl Plugs with stainless steel sections and other approved fixing devices. Where friction stays are used the shop drawings shall clearly indicate the size of such stays. The joint between window frames, external door frames and concrete or masonry work shall be adequately caulked with a suitable caulking compound. Polysulphide or Silicon sealant may be used for this purpose. The Contractor shall furnish all literature and instructions published by the manufacturer of the sealant along with the Tender. Only caulking compound approved by the Engineer in writing shall be used.

Natural Aluminum extrusions and accessories shall be to Engineer's approval and shall be in Aluminum colours. Glass shall be approved clear/tinted/frosted etc. (as applicable) and thickness of Glass 4-5 mm.

Samples of all profiles, ironmongery, glass, locks and other accessories etc. should be submitted at the time of construction, prior approval should be obtained before placing orders.

Any discrepancy in detail drawing such as dimensions, descriptions etc. with actual site measurements should be brought to the notice of the Engineer before fabrication.

The Contractor shall submit test certificates from the manufacturer of aluminium extrusions guaranteeing that the products comply with standards applicable to the country of origin of these materials if requested by the engineer.

Fabrication and installation of aluminium units shall be thoroughly watertight.

The degree of resistance to air leakage shall be Grade A (superior resistance) recommended for air-conditioned buildings.

6.4.9 CEILING AND CLADDING

6.4.9.1 Ceiling

6.4.9.1.1 Flat asbestos sheet ceiling

As per ICTAD SCA/4/I, 11.2.1

6.4.9.1.2 Mineral Fiber ceiling

Mineral Fiber ceiling panels of 600x600x15mm with. G.I. hot dipped powder coated type frame work of colour white, Suspended with 4mm thick G.I. adjustable hanger rods at suitable intervals. Ceiling shall be installed horizontally as per manufacturer's specifications and Engineer's approval.

6.4.9.1.3 Aluminium Strip ceiling

Aluminium strip ceiling with all necessary Aluminium accessories as per manufacture installation details and as approved by the Engineer. Method of fixing should be capable to take a maximum wind load of 128Kmph (80 mph). Rate to include for necessary steel frame work and fixtures as per manufactures instruction and as approved by the Engineer and all completed as directed.

The Contractor should submit the technical data and the detail sketch showing the installation process for engineers approval before installing the ceiling

6.4.9.1.4 Zn / Alu Colour Bonded Ceiling

Zn/Alu colour bonded sheet of 0.47mm thick (AZ 150) of approved ceiling profile to be fixed to a steel frame work to withstands to wind load of 128Kmph(80mph).

6.4.10 INTERLOCK PAVING BLOCKS

Approved quality paving blocks used should have at least compressive strength equivalent to **Grade 30** concrete. (Test report to be submitted) Size of the paving stone should be 220x110x 80 mm. Design/Pattern of stone to be decided by the Engineer. Contractor should arranged any test at his cost if decide by the Engineer at site.

Paving stone should be placed on 50mm (min.) sand/quarry dust bedding on well compact soil to the specified slope. Edges of the paving should be finished with pre cast edge block and mass concrete equivalent to paving stone strength.

6.4.11 COMPOSITE CLADDING FOR WALL / CANOPY

Composite panel means the panels consisting of two Aluminium cover sheets (0.5 mm each) and a plastic or mineral filled core (3mm thick).

6.4.11.1 Technical Data (Minimum requirement)

Thickness	- 4 mm
Cover sheet thickness	- 0.5 mm
Weight	- 5.0 kg/m ²
Fire Rating	- 1 hr

Colour to be selected by the Engineer.

6.4.11.2 The Contractor should submit the Method Statement and drawing before installing the composite cladding.

6.4.11.3 Contractor should forward a 5 Year warrantee for material, colour and the installation system.

6.4.12 TURFING

6.4.12.1 The surface on which turf to be laid shall be tamped and leveled as shown in plan and in accordance with the instruction of the Engineer.

6.4.12.2 The surface shall be backfilled with top soil up to 4" and leveled.

6.4.12.3 The turf shall be cut from areas selected in sods of approx. 9"x9"x3" thick and shall be conveyed to the site in such a manner that the backing is not lost.

6.4.12.4 The sods shall be laid close to each other and any space between the sods shall be filled with approved organic earth.

6.4.12.5 Before turfing, the surface shall be raked and leveled by adding carbonic manure and well watered.

6.4.12.6 The sods shall be tamped to obtain a uniform level and well watered. The sods shall be watered daily for two weeks.

6.4.12.7 Two weeks after turfing, a selected chemical fertilizer shall be applied to the grass in accordance with the manufacturer's prescription.

6.4.12.8 During the period of maintenance the grass shall be trimmed with a lawn mover at regular intervals as required.

6.4.12.9 Where the sods are laid on sloping ground or of embankment, spikes shall be driven through the sods to hold them in position and spikes shall be removed only after the sods have taken on the ground. The process of watering and tamping will then be applied.

6.4.13 SANITARY FITTINGS AND ACCESSORIES

All connections to appliances shall be through 20mm diameter chrome plate angle valve (good quality approved by the Engineer) and connected to fitting with, 12mm diameter chromed flexible pipe or approved equivalent. (Plumber or equivalent)

Contractor shall submit the samples of each accessory to the Engineer before the installation.

Technical data / Catalog to be submitted to the Engineer by the contractor before purchasing the sanitary fitting

6.4.14 ELECTRICAL INSTALLATION

- 6.4.14.1 The electrical installation shall be for 400V, 3 phases or 230V single phase 50 Hz. A.C. Supply. All accessories used in the installation shall be for the appropriate working voltage.
- 6.4.14.2 Execution of work in every respect shall be to the satisfaction of the client / consultant and conform to the 16th edition of IEE wiring regulations. Any deviation shall have to be approved by the consultant.
- 6.4.14.3 The position of electrical fittings etc. shown in the drawings are approximate and exact position to be decided at site.
- 6.4.14.4 When procuring main cables contractor shall take in to account the actual physical measurement to avoid joints. Special orders shall be placed with the manufacturers for cable length more than 100 meters.
- 6.4.14.5 Before laying of conduit pipes on ceilings a conduit layout drawing shall be prepared by the Contractor for the approval of the consultant.
- 6.4.14.6 It is the responsibility of the Contractor to repair all walls, slabs, etc. to the satisfaction of the client.
- 6.4.14.7 All items shall be of reputed makes and samples shall be forwarded to the consultant for approval. In case of main switch board reputed manufacturer approved by the consultant shall make as per the given drawings.
- 6.4.14.8 All imported materials and fittings shall have the country of origin and the British Standard number marked.
- 6.4.14.9 Rates shall include for :-
- 6.14.4.10 Labour, transport and profit.
- 6.14.4.11 All accessories such as clips, screws, junction boxes, 3 core flexible cables, ceiling roses, G.I. chains, fan hooks etc.
- 6.14.4.12 Testing and commissioning.
- 6.14.4.13 The complete electrical installation shall be fully re-wirable type in concealed rigid PVC pipes / conduits.
- 6.14.4.14 Fixing Heights

Fixing heights from floor levels, unless directed otherwise shall be as follows:

- | | |
|----------------------------------|------|
| ➤ Distribution Boards | 1.7m |
| ➤ Main Distribution Boards | 1.7m |
| ➤ Lamp fittings | 2.4m |
| ➤ Ceiling fans | 2.5m |
| ➤ Switches and fan regulators | 1.4m |
| ➤ Socket outlets for general use | 0.2m |

6.14.5 EQUIPMENTS

6.14.5.1 MDCs / DBs

Shall be metal clad or plastic flush mounted type and be of a reputed make conforming to BS 5486 or equivalent. It shall be with a hinged door; bus bars neutral bar and earth bar shall be of hard drawn copper.

6.14.5.2 Miniature Circuit Breakers (MCB)

MCB shall be of a reputed make having thermal over load and magnetic short circuit protections and shall conform to BS 3871 DIN rail type. The breaking capacity shall be

more than 6KA and type 2 shall be used for the lighting circuits and motor circuit type 3 shall be used.

6.14.5.3 Residual Current Devices (RCDs) (RCCBs)

Shall be current balance type complying with BS 4293 sensitivity shall be 30mA. or as specified in the drawings.

6.14.5.4 PVC Cables

All cables shall be 450/750 Volt grade PVC insulated PVC sheathed copper complying with BS 6004. Red color shall be used for the phase conductor and black color shall be used for the neutral conductor. For the protective conductor (Earthing) PVC insulated copper wire shall be used with green or green and yellow color. Jointing of cables is not accepted.

6.14.5.5 Amps. Switches

They shall be white color complying with BS 1360.

6.14.5.6 Socket Outlets

13A socket outlets shall be flush types with switch, white in color complying with BS 1363. 15A and 5A socket outlets shall be flush types with switch, white in color complying with BS 546.

6.14.5.7 PVC conduit pipes Switch boxes, Round blocks and Junction boxes

They shall be complying with BS 4607 or equivalent. Switch boxes shall be PVC junction moulded types and hand made boxes shall not be used. Switch boxes shall be brass fixing screws. In places where are not buried they shall be clipped at 500mm intervals.

6.14.5.8 Screws and Panel Pins

All screws and panel pins shall be brass, brass plated items shall not be used.

6.14.5.9 Ceiling Roses

Ceiling roses shall be plate type and shall conform to BS 67 or equivalent. Connections to all lamps, fans shall be through a ceiling rose unless otherwise instructed.

6.14.5.10 Lamp Holders

All lamp holders shall be bayonet type conforming to BS 5042 or any other type specified CG holders shall be brass types.

6.14.5.11 Incandescent Bulbs

All incandescent bulbs shall be with bayonet cap type and shall comply with BS 161 or any other type specified. All lamp fittings shall provided with a bulb.

6.14.5.12 Exhaust Fans

Wall mounted exhaust fans shall be of a reputed make suitable for 230 Volts, 50Hz connections. The motor shall be a totally enclosed type having speed, preferably less than 1500 r.p.m. literature giving the performance of air flow and noise level shall be submitted for approval.

6.14.5.13 Underground Cables

Underground cables shall be 600/1000 volts grade PVC insulated PVC sheathed single wire armoured. PVC overall sheathed copper cable conforming to BS 6346. It shall be laid 600mm below ground level and covered with concrete cable tiles cables trench shall not be closed without the consent of the Client / Consultant. When there is more than one cable in the same trench the distance between the cables shall be at least 50mm. Rate shall include cost of cable and sockets, cable glands PVC taps etc. When procuring under ground cables B.O.Q. quantities shall not be taken. No extra payments will be paid for under ground joints.

Section – 7

SPECIFICATIONS

Standard Specifications

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

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

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

Particular Specifications

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

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

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

Section - 8

BILL OF QUANTITIES

Notes : In preparation of the Bidding Document the users are advised to;

- (1) Include appropriate Preliminary Bill items as Bill No.01 in Accordance with ICTAD Publication No. ICTAD/ID/04*
- (2) Allow provision for the Bidders to include the VAT Components separately and instruct them not to carry the VAT Components to the Form of Bid.*
- (3) Advise the bidders that any discount offered will not be considered for Provisional Sum Items.*

**BILL OF QUANTITIES FOR THE PROPOSED RE - STRUCTURING OF
LANKA FILLING STATION DELFT.
CEYLON PETROLEUM CORPORATION**

SALES BUILDING

B O Q NO - 2026/CPC/LFS/DELFT/25/ 01

Item No	Description	Qty.	Unit	Rate	Amount
A	<u>BILL NO 01 - PRELIMINARIES</u>				
1A	<u>PRELIMINARIES</u>				
	<u>Bonds & Insurance.</u>				
1A/01	a)Allow lump sum for providing Security Bonds, guarantees etc.	1.00	Item		
1A/02	b)Allow lump sum for providing a performance Bond.	1.00	Item		
1A/03	b)Allow lump sum for providing a advance Bond.	1.00	Item		
	<u>Temporary Buildings.</u>				
1A/04	a)Provide Lump Sum to construct good quality office with good ventilation for Client/Consultant staff.(approx 15m ²)and to provide two chairs, one table .	1.00	Item		
1A/05	b)Provide Lump Sum to construct water-tight shed equipment and maintain temporary buildings for protection and storage of materials, plant and workshops.	1.00	Item		
1A/06	c)Allow for temporary sanitary accomodation of site for the contractor's staff and workmen .	1.00	Item		
1A/07	Provide Lump Sum to construct good quality lockable hut for cash office /store for the filling station staff (approx 24m ²)	1.00	Item		
1A/08	Provide Lump Sum for erection of temporary site office for contractor with electricity ,water supply waste and drainage facilities.(approx 20m ²)	1.00	Item		

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Item No	Description	Qty.	Unit	Rate	Amount
1A/09	Allow for supply water for use during construction .It shall be the responsibility of the contractor to find the source of supply and storage facilities and internal arrangement and payment for consumption to authorities .	1.00	Item		
1A/10	Allow for supply temporary electricity to the site for the works including obtaining connection internal arrangement and payment to authorities .	1.00	Item		
	<u>Setting out</u>				
1A/11	Provide Lump sum for setting out of the works.	1.00	Item		
TOTAL FOR PRELIMINARIES WORK CARRIED BILL NO - 01 TO SUMMARY.				Rs	

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SALES BUILDING

B O Q NO - 2026/CPC/LFS/DELFT/25/ 01

Item No	Description	Qty.	Unit	Rate	Amount
	<u>SALES OFFICE BUILDING AND WASH ROOM</u>				
	<u>BILL NO 02 - BUILDING WORKS .</u>				
2A	<u>EXCAVATION AND EARTH WORK</u>				
2A/01	Clearing site including levelling as required and remove surplus excavated materials from site to place to be provided by the contractor .(Approximate area 600m2)	1.00	Item		
	<u>Excavation</u>				
2A/02	Excavation not exceeding 1.5m commencing from reduced level and including levelling and ramming bottom,part return and remove surplus excavated material as directed for wall foundations .	4.0	m ³		
	<u>Earth filling</u>				
2A/03	Supply and filling imported soil spread in layers not exceeding 150mm at anytime watered well rammed and consolidated.(Visitors wash room,Toilet,Bath room, AC&Gen Room)	6.0	m ³		
2A/04	Selected excavated material fill in layers not exceeding 150mm thick (before compaction) and well consolidated to receive ground level.	2.0	m ³		
2A/05	Load and cart away excess excavated materials away from site to a place to be provided by the Contractor.	3	m ³		
	<u>Dealing with water</u>				
2A/06	Allow for dewatering underground water in any area during the period of construction .(If necessary)	1	Item		

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B O Q NO - 2026/CPC/LFS/DELFT/25/ 01

Item No	Description	Qty.	Unit	Rate	Amount
2A/07	<u>Anti- termite Treatment</u> Anti termite treatment to excavated surfaces and back filled areas of building to manufactures specifications.(Tenderer to submit technical proposals along with the tender) payment will be effected only on submission of guarantee (provisional) of 5 years .	15	m ²		
TOTAL FOR EXCAVATION AND EARTH WORK CARRIED TO SUMMARY				Rs	
2B	<u>CONCRETE WORK</u>				
	<u>Upto ground floor level</u>				
	<u>Plain Concrete - Grade 15.</u>				
2B/01	Lean cement concrete 1:3:6(25mm) 50mm thick layer under rubble wall foundation .	8.0	m ²		
2B/02	75mm thick 1:3:6(20mm) plain concrete in sales building floor.	14.5	m ²		
	<u>Reinforced cement concrete Grade 25, to the following.</u>				
2B/03	Grade 25 concrete beam app 100mmx100mm thick on brick wall with 2no's Y12mm tor steel rods tied as stiffners columns with necessary form work .	19.5	Lm		
2B/04	Grade 25 concrete stiffners column 100mmx100mm to parapet wall with 2 no's Y12mm tor steel rods with necessary form work.	15	Lm		
TOTAL FOR CONCRETE WORK CARRIED TO SUMMARY				Rs	

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B O Q NO - 2026/CPC/LFS/DELFT/25/ 01

Item No	Description	Qty.	Unit	Rate	Amount
2C	<u>MASONRY WORK</u> <u>Block work</u> All cement and sand concrete blocks shall comply with BS 6073. Characteristic strength of load bearing and non bearing load block work shall be 2.5N/mm ² and 1.5N/mm ² respectively.	Note			
2C/01	100mm thick block work in cement and sand 1:5 to walls in ground floor.	38	m ²		
2C/02	<u>Rubble Work</u> 150mmx 225mm random rubble masonry work in cement and sand 1:5 to walls foundation .	6.0	m ²		
TOTAL FOR MASONRY WORK CARRIED TO SUMMARY				Rs	
2D	<u>ASPHALT WORK</u>				
2D/01	500 Gauge polythene sheet as horizontal damp proof membrane under ground floor slab . Rate shall include for upstand to sides and corners not exceeding 150mm in height .	14.5	m ²		
2D/02	<u>Water proofing</u> Provide approved water proofing system by a specialized water proofing contractor to ground floor bathroom floor,walls .(Payment will be given after handing over of 5 years warranty.)	33.25	m ²		
TOTAL FOR ASPHALT WORK CARRIED TO SUMMARY				Rs	

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Item No	Description	Qty.	Unit	Rate	Amount
2E	<u>METAL WORK</u>				
	<u>Note</u> <u>All aluminium partition extrusions shall be powder coated and of approved colour(White colour) ,Total thickness of 60-80microns.</u>				
	<u>Aluminium Doors & Windows</u>				
2E/01	Supply and fix aluminium framed glazed door.Type D1 overall size 900mm x 2100mm high.Rate include frame & sash fixing ,fabricating, glazing beading,cutting ,locks,ironmongery,door handle, etc.	1.9	m ²		
2E/02	Supply and fix aluminium framed glazed door.Type D1 overall size 900mm x 2100mm high.Rate include frame & sash fixing ,fabricating, glazing beading,cutting ,locks,ironmongery,door handle, etc.	4.75	m ²		
2E/03	Supply and fix aluminium framed with aluminium amplimesh door.Type MD overall size 1000mm x 2100mm high.Rate include frame & sash fixing ,fabricating, glazing beading,cutting ,locks,ironmongery,door handle,etc.	2.1	m ²		
2E/04	Window type SW ,overall size 1200mm x 1600mm aluminium framed glazed sliding window.As per detail drawing with and including all necessary fixtures & fittings.	7.7	m ²		
2E/05	Supply & fix aluminium framed fixed glazed fanlight .type F1 overall size 600mm x 450mm fix to frame. Rate to include frame sash fixing fabrication beading cutting,glazing etc.all as per drawing.	0.85	m ²		

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SALES BUILDING

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Item No	Description	Qty.	Unit	Rate	Amount
2E/06	Supply ,fabrication and installation of honeycomb shaped aluminium mesh fixed with 19mmx19mmx4mm thick aluminium angle frame by pop rivert and brass screws to the wall opening.(Type MW Size1500mmx1800mm)Details as per the Drawing .	3	m ²		
	<u>Convertainer Painting</u>				
2E/07	Preparing and painting all external surfaces of the existing convertainer as an office building , as per attached sketch No CEYPET / ENG / 0644/ to following rquirement including container steel walls, roof edges, doors, shutters, and architectural elements. Surface preparation shall include thorough cleaning, removal of rust, loose paint, oil, and dirt, wire brushing/grinding where required, application of rust treatment, and surface leveling. Apply one (1) coat of Epoxy Zincphospate primer and two (2) coats of approved exterior weather-resistant paint, suitable for steel surfaces, complete with all labor, materials, access equipment, scaffolding, protection of surroundings, and final cleaning, as per specifications and Client approval.Approximate area 60m ²	1.0	Item		
2E/08	Transportation of Convertainer from the CPC Regional Office, Jaffna to KKS Port. Rate shall include for all handling charges, loading onto a Sri Lanka Navy Landing Craft Mechanized (LCM) at Kankesanthurai (KKS) Port, unloading at Delft Jetty, and subsequent transport to the designated site for installation. The cost of utilizing the LCM for transportation shall be borne by the CPC.	1.0	Item		

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Item No	Description	Qty.	Unit	Rate	Amount
2E/09	Carefully dismantle and remove the existing decayed timber plank floor, including all associated fixings, nails, and debris, and dispose of the removed material away from site as directed. Prepare the base surface to receive new flooring, ensuring it is clean, level, and free from defects. Supply and fix new seasoned timber planks of approved quality, thickness, and finish, securely laid and fastened in position with appropriate fixings. All joints shall be tight and even, and the completed floor shall be smooth, durable, and ready for subsequent finishing as specified	8.0	m ²		
2E/10	Carefully dismantle and remove the existing 9000 BTU air conditioning unit from its installed position, including disconnection of electrical and refrigerant connections, and safely set aside for servicing. Carry out thorough cleaning, inspection, and necessary servicing of the unit, including checking refrigerant levels, electrical wiring, filters, and mechanical components to ensure proper functionality. Upon completion of servicing, refix the unit securely in its original location, reconnect all services, test for operational efficiency, and hand over in full working condition as directed by the Engineer.	2.0	Nos		
TOTAL FOR METALWORK CARRIED TO SUMMARY				Rs	

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Item No	Description	Qty.	Unit	Rate	Amount
2F	<p><u>PLUMBING INSTALLATION</u></p> <p><u>Note</u> Rates shall include for supplying and fixing of sanitary appliances with necessary pipes and fittings and connecting to waste outlets and water supply and commissioning. (make and model of sanitary fittings - Rocell or equivalent).Tap fittings and toilet accessories should be "plumber " or equivalent.</p> <p><u>Sanitary Fittings and toilet accessories</u></p>				
2F/01	<p>Wash basin 550mmx 375mm overall pedestal type white /colour with 20mm dia chromium plated pillar tap , 40mm dia rubber plug and chromium plated chain waste brackets in painted iron screwed tapered wooden blocks /rawl plugs buried in wall ,water supply and waste water connection all complete to working order.(Prime cost of wash basin with fittings -Rs 38,000/= per nr)</p>	2	No		
2F/02	<p>Supply and installation of close couple water closet with " P " or "S" trap ,duel flush complete with flexible connection , angle valves to the working order .(Prime cost of water closet with fittings -Rs 53,000/= per nr)</p>	1	No		
2F/03	<p>Supply and Installation of Chromium plated 20mm dia bib tap Thailand or Malaysians equivalent make .(Prime cost of bib tap with fittings -Rs 3,800/= per No) .</p>	3	Nr		
2F/04	<p>Supply and installation of bidet shower in a reputed manufacture .(Prime cost of bidet shower with fittings -Rs 6,750.00/= per nr) .</p>	1	No		

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Item No	Description	Qty.	Unit	Rate	Amount
2F/05	Supply and installation of 100mm dia stainless steel shower rose in approved make.(Prime cost of stainless steel shower rose with fittings -Rs 6,500/= per nr) .	2	Nr		
2F/06	Supply and installation of stainless steel towel holder in approved make.(Prime cost of stainless steel towel holder with fittings -Rs 8,750/= per nr) .	3	Nr		
2F/07	Supply and installation of stainless steel coat hooks in approved make .(Prime cost of stainless steel coat hooks with fittings -Rs 4,500/= per nr) .	3	Nr		
2F/08	Supply and installation of stainless steel soap tray in approved make.(Prime cost of stainless steel soap tray steel with fittings -Rs 6,500/= per nr) .	3	Nr		
2F/09	Allow for mirror 450mm dia.(Prime cost of mirror -Rs 6,000/= per nr) .	1	No		
2F/10	Supply and fix 20mm dia garden tap .(Prime cost of garden tap fittings -Rs 3,500/= per nr) .	3	Nr		
2F/11	Supply and installation of 20mm dia concealed valve in a reputed manufacture .(Prime cost of concealed valve = 2950/= per nr)	2	Nr		
	Rate for all pipes shall include for necessary pipe fittings such as bends ,tees "Y" junctions reducers inspections openings , stop ends etc , as required .				
	Rates for pipes shall include for fixing along the wall or burying in ground to required gradient .In case of buried in ground the pipes to be encased with concrete .				

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Item No	Description	Qty.	Unit	Rate	Amount
	<u>All pipes shall be U.P.V.C type 1000</u>				
2F/12	20mm dia U.P.V.C types.	18	Lm		
2F/13	25mm dia U.P.V.C types.	25	Lm		
2F/14	32mm dia U.P.V.C pipes from moter to over head tank.	35	Lm		
	<u>Gate Valves</u>				
	All valves shall European makes all valves shall be good quality or approved equivalent and samples should be approved by the Engineer before installation.Rate shall include for all necessary specials and fixing in position.				
2F/15	25mm dia gate valves (Prime cost of 25mm dia gate valves with fittings -Rs2,500/= per No) .	3	Nr		
2F/16	32mm dia gate valves (Prime cost of 32mm dia gate valves -Rs 3,250/= per No) .	1	Nr		
2F/17	32mm dia non return valve(Prime cost of 32mm dia non return valve -Rs 6,750/= per No) .	1	Nr		
2F/18	32mm dia ball valve (Prime cost of 32mm dia ball valve.-Rs 4,500/= per No) .	1	Nr		
2F/19	Providing, fabricating, and erecting structural steel work for supporting 1500 litres PlasterShield water tank using mild steel sections including columns, beams, bracing, platforms, base plates, and connections, including 1500 litres palstershield water tank ,cutting, drilling, welding, bolting, and fixing in position, complete with one coat of red oxide primer and two coats of enamel paint, complete as per drawings .	1	Item		

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Item No	Description	Qty.	Unit	Rate	Amount
TOTAL FOR PLUMBING INSTALLATION CARRIED TO SUMMARY				Rs	
2G	<p><u>ZINC ALUMINIUM ROOFING</u></p> <p><u>Zinc Aluminium Roofing</u></p> <p><u>Zinc Aluminium Roof</u></p> <p>Note: All steel surfaces (except Galvanized Iron) to be applied with two coats of Anticorrosive paint. Paint selection, surface preparation & application should be strictly as per directed.</p>				
2G/01	Zinc Aluminium Colour bonded AZ -200 roofing sheets of approved profile and (not less than 0.47mm total coated thickness) approved quality and colour on steel frame work as shown in drawing (frame work measured seperatly).Rate to include colour bonded roof flashing and sheets with same thick material and sheet ridge etc.	37	m ²		
2G/02	Supply and fix 100x50x2.3mm Galvernized Lip channel including necessary cleats and conection (welding /bolting) to "C" channel as shown in Drg No - CEYPET/ENG/0644 including sag corrections.	40.0	Lm		
2G/03	Supply and fixing 50mm x 50mm x 1.6mm galvanized Squire tube sections in roof fabrication as shown in drawing No - 'CEYPET/ENG/ 0644	75.0	Lm		

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Item No	Description	Qty.	Unit	Rate	Amount
2G/04	Colour Bonded Zinc Aluminium gutter size 405 girth with a coated thicknes of Thk. 0.47mm , AZ 150 fixed with 2mm thick G I fixing clips at 600mm centers. all as per and detail drawing in roof. Rate shall include for all necessary specials ,running heads with down spouts.(Down pipes measured seperatly)	6.0	Lm		
2G/05	Colour bonded Zinc aluminium down pipe 125mm x 87.5mm square type with a coated thickness of 0.47mm AZ 150 complete with specials and connection to gutters.	7.5	Lm		
2G/06	Flashing Supply and fixing Zinc Aluminium 0.47mm thick , AZ 150 flashing . The sheet to be embeded to wall by 50mm atleast at the minimum width to be 1000mm .Wall and sheet conection to be sealed with clear sealant (Girth610mm)	6	Lm		
	<u>COMPOSITE CLADDING</u>				
2G/07	Aluminium white colour (Code RAL - 9003)Composite sheets fascia (4mm thick one hour fire rated)of approved quality and colour on G.I frame work as per fixing details in drawing to engineer's approval.Rate to include steel GI frame work, painting and supply install 200mm high red colour composit cladding strips around to (Code RAL 3000) composit cladding fascia,as per detail drawing No CEYPET/ENG/SK/0365-A .	6	m ²		
TOTAL FOR WORK ZINC ALUMINIUM ROOFING CARRIED TO SUMMARY				Rs	

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Item No	Description	Qty.	Unit	Rate	Amount
2H	<u>DRAINAGE WORK</u>				
	Rate shall include for all ground piping and shall include for pipe supports, saddles, clips , screeds, nails fixing and jointing materials ,cutting holes chasing in brick and concrete etc and making good the same in all trades,and under ground piping all necessary excavation and back filling ,concrete bedding, and haunching disposal of surplus material as directed.				
	<u>Waste Water Disposal System & Sewerage Disposal System / Storm Water System</u>				
2H/01	Manhole 450mm x 450mmx550mm deep internally including excavation ,backfilling 150mm thick cement 1:2:4 (20mm) in base slab with necessary reinforcement forming channel & benching in similar concrete 112.5mm thick brick wall , 1:3 cement and sand plastering 20mm thick to channels & benching. Rate shall include for 100mm thick removable precast cover slab.	2.00	nr		
	<u>Waste & sewerage pipes</u> Rates for pipes shall include for fixing along the wall or burying in ground to required gradient .In case of buried in ground the pipes to be encased with concrete .				
	<u>Waste pipe(Type 600)</u>				
2H/02	40mm dia U.P.V.C type 600 pipes .	15.00	Lm		
2H/03	63mm dia U.P.V.C type 600 pipes .	25.00	Lm		
	<u>Sewerage pipe (Type 600)</u>				
2H/04	110mm dia U.P.V.C type 600	15.00	Lm		

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Item No	Description	Qty.	Unit	Rate	Amount
	<u>Storm water pipes (Type 400)</u>				
2H/05	110mm dia U.P.V.C type 400 pipes	25.00	Lm		
	<u>Builders work</u>				
2H/06	Waste water trap gully internal size 225mm x 225mmx 300mm deep in concrete floor including 125mm thick concrete screed (1:3) rendering to all exposed surfaces and finished smooth with neat cement float. Rate to include for necessary earthwork, grouting , steel grating etc.	2.00	nr		
	<u>Storm water collecting pit.</u>				
2H/07	Rain water gulleys, size 1200mmx1200x1500mm deep approximately (internally) with a100mm concrete base 100mm RCC side walls , cement rendered interior finished smooth with cement floating , forming channels , hunching and benching ,125mm thick reinforced concrete precast removable sealed cover slab.	1.00	nr		
	<u>Storm water gulley</u>				
2H/08	Rain water gulleys, size 450mmx450x450mm deep approximately (internally) with a100mm concrete base 112.5mm thick brick side walls , cement rendered interior finished smooth with cement floating , forming channels ,hunching and benching ,100mm thick reinforced concrete precast removable sealed cover slab.	1.00	nr		

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Item No	Description	Qty.	Unit	Rate	Amount
2H/09	<u>Septic tank with soakage pit</u> 1800mmx900mmx1650mm(internal)septic tank with1200mmx900mmx1650mm(internal)attached soakage pit as shown in drawing.The septic tank base to be in150mm thick concrete 1:2:4(25mm) r/f with 10mm dia. Tor bars at 200mm crs. both ways.225mm brick work in cement 1:5. 75mm thick R.C.C. cover slab reinforced as shown in drawing including cement rendering 1:3 finished smooth. 225mmx225mm R.C.C. ring beam under soakage pit, 2Nos.100mm dia. G.S.W. tees and 10mm thick cement rendering 1:3 with 5% pudlo to all internal surfaces of septic tank finished smooth. Rate to include for excavation, back filling and disposing surplus earth as directed.	1.00	nr		
2H/10	<u>Waste water soakage pit</u> 1200mm dia (internal) waste water soakage pit. The pit circular wall to be built in 225mmbrick work in cement with 1:5 alternate open joints as directed. rate to include125mm thick concrete cover slab 1:2:4 (20mm)r/f with 12mm dia tor bars at 150mm crs. both ways, and 16mm thick cement rendering 1:3 finish smooth. provide for 225mmx225mm concrete 1:2:4 (20mm) rebated pad to accommodate the cover.	1.00	nr		
TOTAL FOR DRAINAGE WORK CARRIED TO BILL NO -02 SUMMARY				Rs	
2J	<u>FLOOR WALL AND CEILING FINISHES</u> <u>FLOOR FINISHES</u> <u>Ceramic Floor Tiling</u>				

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Item No	Description	Qty.	Unit	Rate	Amount
2J/01	<u>Floor Tiles</u> Supply and laying of Homogeneous good quality non slip ceramic floor tiles laid on tile adhesives of approved quality and design to wash rooms .Rate to include 16mm thick cement and sand mix screed 1:3 to floor before laying tiles and dressing grooves with coloured cement slurry after fixing tiles in visitors wash room , toilet, bathroom , as directed.(Prime cost of Rs1850 /= per tile, size 600mmx 600mm)	7.00	m ²		
2J/02	<u>Cement rendering</u> Cement and sand (1:3) rendering 20mm thick finished smooth with colour cement float in A/C Gen Room, passage area.	6.00	m ²		
	<u>Vinyle Floor Carpert</u>				
2J/03	Removal of existing PVC carpet from container floor including complete removal of adhesive, cleaning of surface, and disposal of all debris to an approved dumping area. Supply and installation of new high-quality vinyl carpet of approved make, color, and specification, including supply of adhesive, primers, cutting, jointing, laying, fixing, finishing, and final cleaning complete as per manufacturer's recommendations and client approval.	19.00	m ²		
	<u>WALL FINISHES</u>				
	<u>External wall finishes</u>				
2J/04	16mm thick cement and sand 1:3 plinth plaster finished smooth with colour neat cement slurry.	15.00	m ²		
2J/05	Cement and sand 1:5 plaster 16mm thick finished semi rough with wooden float to walls from ground floor to roof level.	27.25	m ²		

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Item No	Description	Qty.	Unit	Rate	Amount
	<u>Internal Wall Finishes</u>				
2J/06	16mm thick cement sand 1:5 plaster finished smooth with lime putty to internal walls from ground floor to roof level.	22.00	m ²		
	<u>Cement skirting</u>				
2J/07	Cement skirting in mortar 1:3, 20mm x100mm projected or flush with wall and including forming groove.	5.00	Lm		
	<u>Wall Tiles</u>				
2J/08	Glazed ceramic wall tiles of approved colour and manufacture lining to walls up to a height of 1800mm laid on tile adhesives.Rate to include 16mm thick cement and sand screed and the joints pointed in colour cement to match with the colour of tiles in ground floor toilet (Prime cost of tiles Rs 700/= per tile size, 300mmx 600mm)	27.50	m ²		
TOTAL FOR FLOOR ,WALLWORK CARRIED TO BILL NO -02 SUMMARY				Rs	
2K	<u>PAINTING AND DECORATION</u>				
	<u>External Painting</u>				
2K/01	Prepare and apply two coats of approved colour and quality paint to plinth	15.00	m ²		
2K/02	Prepare surface and apply one coat of primer and two coats of whether shield paint of approved colour and quality to external walls ground floor.Including door and window reveals in building.	27.25	m ²		
	<u>Internal Painting</u>				
	<u>Prepare and apply two coats of emulsion paint with apply two coat of base coats of acrylic filler of approved manufacture and colour to approval to the following.Including door and window reveals in building.</u>				

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Item No	Description	Qty.	Unit	Rate	Amount
2K/03	Walls in ground floor .	22.00	m ²		
TOTAL FOR PAINTING WORK CARRIED TO BILL NO -02 SUMMARY				Rs	
<u>2L</u>	<p><u>ELECTRICAL INSTALLATION</u></p> <p><u>Note</u></p> <p>Rates in Bill of Quantities shall include all necessary materials (Cables, conduits, PVC sunk box, bulbs, switches etc.) and labour required to complete the electrical installation to good working order.</p> <p>Except where specifically stated, all costs associated with provision of all holes, openings, chases, ducts and other builders' work required for installation and make them good, shall be included in the rates.</p> <p>Where reference is made to certain manufactures' products and items identified by registered trade marks, has been done for the sole purpose of defining and establishing standards of quality and performance and not with the intention of restricting the procurement of material or fitting to a particular manufacturer. However all equipment and material should meet the BS or an equivalent standard.</p> <p>Testing and commissioning of the electrical installation is to be carried out by the contractor and inspection report submitted according to the requirements of the power supply Authority.</p> <p>Electrical Items (MCB,RCCB etc.) should be of European/Japanese origin or to the BS or equivalent and items without an accredited agent in Sri Lanka shall not be accepted. Guarantee cards(Fans etc.) should be provided from Accredited agent before installation.</p>				

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Item No	Description	Qty.	Unit	Rate	Amount
2L/01	<p>All the quantities given here are approximated values and Quantities may change with the actual installation at the site.</p> <p>All types of fittings, materials, painting and finishes shall be approved by the Engineer prior to installation.</p> <p><u>ALL ELECTRICAL PANEL BOARDS SHOP DRAWINGS SHOULD SUBMIT BY THE CONTRACTOR FOR THE ENGINEER APPROVAL BEFORE SUPPLY & INSTALLATION.</u></p> <p><u>Main Distribution Board (IP54)</u> Supply and installation of Main Distribution Board (MDB) complete with powder coated 2mm sheet steel enclosure with lockable doors. All panel boards should have wire numbering and a laminated circuit diagram should be pasted on the inside surface of the panel board.</p> <p>Main Distribution Board shall be complete with necessary over load protection (adjustable current and time), short circuit protection, surge protection, earth fault protection comprising all other required accessories.</p> <p>Surge protection for Main Distribution Board shall be provided at main busbars, with proper earthing and necessary protection.</p> <p>Make of MCCBs and MCBs, etc shall be ABB, Terasaki, Merlin Gerin or equivalent make approved by the Electrical Engineer.</p>				
	<p><u>Incoming Circuit Breakers</u> 01 No.32A, 4P MCCB (25kA fault level)</p> <p><u>ATS with Mechanical & Electrical Interlock (Motorized Change over)</u></p>				

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Item No	Description	Qty.	Unit	Rate	Amount
	<p>02 No. 32A, 4P MCCB Automatic mains failure (AMF) and automatic load transfer switch (ATS) switchgear for automatic transfer of load from CEB supply to Diesel Generator and vice versa. Manual Transfer facility also to be included.</p> <p>All control circuits, control cables, contractors, relays etc. shall be included</p> <p><u>Outgoing Circuit Breakers</u> 01 No. 32A 4P MCB Type C 01 Nos. 20A, 4P MCB Type C 01 Nos. 32A, 2P MCB Type C 01 Nos. 20A, 2P MCB Type C</p> <p>1 set of Voltage/Current surge arrestors for three phase & neutral (3P+N) 20KV/40 KA Max</p> <p>2 Sets of indicator bulbs for three phases with protection.</p> <p>02 Nos. of Ammeters for 3 Phases (0 - 100A) with selector switch</p> <p>02 No. of Voltmeters (0 - 500V) with selector switch</p> <p>All internal connections including 100A Live and Neutral bus bars, Earth bar etc.</p> <p>Equipment to be to the BS and European/Japanese make</p>	1.0	No		

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Item No	Description	Qty.	Unit	Rate	Amount
2L/02	<p>Consumer Unit (CU) Supply and installation of switch gear cubicle made out of (1.5mm thickness) sheet steel (IP54) stove enameled or powder coated for the finish with one coat of primer to the approval of the engineer with following equipment. All cable terminations to the panels should be properly galnded or suitably fixed to the panel enclosure as approved by engineer.</p> <p>CU-01 (Building & Canopy) 01 No. 32A 2-pole MCB Type B 01 No.40A 2 -Pole RCCB 30mA 06 No. 6A 1-Pole MCB 6kA type B 02 No. 10A 1-Pole MCB 6kA type B 03 No. 16A 1-Pole MCB 6kA type B 01 No. 20A 1-Pole MCB 6kA type B 1 Set of Live & Neutral bus bars Earth Bar 1 Set of indicator bulbs for three phases with protection. All internal connections.</p> <p>Equipment to be to the BS and European/Japanese make</p>	1.0	No		
2L/03	<p>CU-02(Pump Panel) 01 No. 32A 4-pole MCB Type C 03 No. 32A, 2-pole MCB 10kA 09 No. 16A 2-Pole MCB typC 09 No. 20A, 2-Pole RCCB 100mA 1 Set of Live & Neutral bus bars Earth Bar 1 Set of indicator bulbs for three phases with protection. All internal connections.</p>				

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Item No	Description	Qty.	Unit	Rate	Amount
	Equipment to be to the BS and European/Japanese make	1.0	No		
	<u>Point wiring including switches (Luminaries measured separately)</u>				
2L/04	Lamp point wire through a 10Amp. Sunk Switch using 2x1Cx 1.0mm ² Cu/ PVC/PVC+2.5mm ² CU/PVC/PVC earth cable in concealed PVC conduits	9.0	No		
2L/05	Logo point wire through a 10Amp. Sunk Switch using 2x1Cx 1.0mm ² Cu/ PVC/PVC + 2.5mm ² CU/PVC earth Cable in concealed PVC conduits	1.0	No		
2L/06	Wall fan points wire using 2x1Cx1.0mm ² Cu/PVC insulated copper wire and 1x1Cx2.5mm ² Cu/ PVC insulated copper earth wire in concealed PVC conduits	2.0	No		
	<u>Supply Install & wire the following</u>				
2L/07	Flush mounted 13A Switched socket outlets Wired using 2x1Cx2.5mm ² Cu/ PVC/PVC insulated copper wire and 1x1Cx2.5mm ² Cu/ PVC insulated copper earth wire in concealed PVC conduit.	4.0	No		
	Yard light point wired from 20 A double pole indicator switch using 2C x 1 x 1.5mm ² Cu/PVC /SWA/PVC copper cable installed minium 2' 0" below the finished floor level . Allow for excavation 6" thick sand layer and backfilling.Allow for a G.I conduit where the cable has to go through a concrete				
2L/08	(a) . IP65/IP66 wather proof Junction Box to ternimate the lamp & main wiring	4.0	No		
2L/09	(b) . For the wiring	55.0	m		

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Item No	Description	Qty.	Unit	Rate	Amount
	Supply for signage tower wire from double using 2C x 1 x 1.5mm ² Cu/PVC/SWA/PVC insulated copper installed minimum 2' 0" below the finished floor level . Allow for excavation 6" thick sand layer and back filling. Allow for a G.I conduit where the cable has to go through a concrete				
2L/10	(a) . IP65/IP66 wather proof Junction Box to ternimate the lamp & main wiring	3.0	No		
2L/11	(b) . For the wiring	50.0	m		
	Supply for air tower wire 2CX1x1.5 mm ² CU/PVC/SWA/PVC to a weather proof 13amp switched socket outlet using necessary sunk boxes etc. to a suitable point near air tower using - Ditto -				
2L/12	(a) . 13Amp weather proof (IP66) switched socket outlet	1.0	No		
2L/13	(b) . For the wiring	50.0	m		
	Air compressor wired through a 20A 2pole MCB & 20A 2 Pole RCCB 100mA switch using 2Cx4mm ² Cu/PVC/PVC insulated copper wire in PVC conduit				
2L/14	(a) . 20A 2 pole MCB & 20A 2Pole RCCB 100mA	1.0	No		
2L/15	(b) . For the wiring	10.0	m		
2L/16	<u>Supply, install and connect</u> 2Cx 1 x 2.5mm ² CU/PVC/SWA/PVC underground cable installed minimum 2ft below the finished floor level and terminated to a petroleum resistive terminal. Allow for excavation 6" thick sand layer and back filling. Allow for a G.I conduit where the cable has to go through a concrete	65.0	m		

**BILL OF QUANTITIES FOR THE PROPOSED CONSTRUCTION OF
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CEYLON PETROLEUM CORPORATION**

SALES BUILDING

B O Q NO - 2026/CPC/LFS/DELFT/25/ 01

Item No	Description	Qty.	Unit	Rate	Amount
	<u>Light Fittings</u>				
	CFL bulbs shall be of integral electronic ballast type with minimum 3 star rating and minimum lifetime of 8000 hrs.				
2L/17	Recessed canopy light fitting complete with 42W LED bulb and other necessary accessories	3.0	No		
2L/18	Supply and installation of sofit/ceiling mount lamp fitting comprising, 18W LED lamp (day light) and all other accessories required	4.0	No		
2L/19	Street light fittings(IP65) with 100W LED bulb & arm with other required accessories	6.0	No		
2L/20	Supply and installation of Ceiling mount lamp fitting comprising, 12W LED lamp (day light) and all other accessories required for toilet,	3.0	No.		
2L/21	Wall mount weather proof (IP65) lamp filling with 12W LED bulb	2.0	No.		
2L/22	Supply & installation of 16" wall fan (European/Japanese make),complete all accessories - Guarantee cards should be provided from accredited agent.	1.0	No		
	<u>Note:</u> Ceiling/Wall fan to be KDK, National or any other similar make approved by the Electrical Engineer. Warranty Cards tyo be submitted before the installtion.				

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SALES BUILDING

B O Q NO - 2026/CPC/LFS/DELFT/25/ 01

Item No	Description	Qty.	Unit	Rate	Amount
2L/23	<u>Supply, install and Wire Following Earth Electrode</u> provide an earth electrode using 16 diameter CU Rod of 4m length, clamp and other accessories and 2.5mm ² CU/PVC/PVC eart wire to comply with ICTAD regulations. Rate shall include connection to main electrical power board, excavation, backfilling, etc. Earth resistance to be below 10 Ohms. (Main Electrical earth)	1.0	Item		
2L/25	<u>Supply , Connect and install the Following Cables</u> 1x4Cx10 mm ² CU/PVC/PVC Cable from CEB Meter to MDB in concealed PVC conduit	1.0	m		
2L/26	1x2Cx6mm ² CU/PVC /PVC cable & 1 x 6mm ² copper earth cable from MDB to CU1 in PVC conduit	6.0	m		
2L/27	1x4Cx6mm ² CU/PVC /PVC cable & 1 x 6mm ² copper earth cable from MDB to CU2 in PVC conduit	5.0	m		
2L/28	1x4Cx10mm ² CU/PVC/PVC cable from Generator to MDB in PVC conduit	5.0	m		
2L29	<u>GI Pipe to fix LED street light</u> Supply and install yard light pole in 75mm dia. Medium duty G.I. pipe 6m above the ground level to fix the LED street light fitting	4.0	No		
2L/30	<u>Inspection & Testing</u> Testing the entire installation and rectify any defects and submit a certificate by a chartered electrical engineer for electrical installation	1.0	Item		
ELECTRICAL INSTALLATION TOTAL CARRIED TO SUMMARY				Rs	65 of 92

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CEYLON PETROLEUM CORPORATION

DRIVE WAY & MISCELLANEOUS WORKS

B O Q NO - 2026/CPC/LFS/DELFT/25/ 01

Item No	Description	Qty	Unit	Rate	Amount
3A	<u>BILL NO - 03 - DRIVE WAY & MISCELLANEOUS WORKS</u>				
	<u>Yard Work</u>				
	<u>Earth filling</u>				
3A/01	Dense graded 37.5mm Aggregate Base Course (ABC)supplying, pilling,spreading ,levelling ,watering in 225mm thick layer sand compaction using machine Rammer.(measured on loose volume).Rate include hire charges of the machine rammer & include transport).	295	m ³		
3A/02	Selected excavated material fill in layers not exceeding 150mm thick (compacted volume) and well consolidated to receive ground level.	5	m ³		
	<u>Paving Blocks</u>				
	<u>Interlock paving</u>				
	<u>Note</u>				
	Paving blocks used should have at least compressive strength equivalent to Grade 30 concrete.(Test report to be submitted) Size of the paving stone should be 220mmx110 mm and height 80 mm or as directed				
	Paving stone should be placed on 50mm (min.) sand bedding on the well compact soil to the specified slope. Edges of the paving should be finished with mass concrete equivalent to paving stone strength.Rate to include surface shall be backfilled with soil up to 225mm and				
3A/03	Supply and laying of interlock paving stones. (Refer specifications)	650	m ²		

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DRIVE WAY & MISCELLANEOUS WORKS

B O Q NO - 2026/CPC/LFS/DELFT/25/ 01

Item No	Description	Qty	Unit	Rate	Amount
	<p><u>Fuel dispensing pipe lines</u></p> <p>Excavation of trenches to the fuel dispensing lines (pipes laying is included in the contract)</p>				
3A/04	<p>Excavation of trenches for pipe(Approx Dia 50mm - 75mm)lines from under ground tank to dispensing pump . Rate to include 300mm wide 450mm deep trench excavation and back filling with river sand and compacted to approval .</p> <p><u>Miscellaneous Work</u></p> <p><u>Note:-</u> Water proofing should be done according to the following specifications.</p> <p>a)Interface including fuel tank -concrete wall, brick wall- concrete slab ,steel pipe and brick wall ,concrete slab should be waterproofed by using a sodium bennite based expanding joint water stag.</p> <p>b) External brick wall -steel pipe joint phase should be waterproofed by using an elastomeric joint sealant.</p> <p>c)All the external surfaces should be waterproofed by applying cementitious type water proofing material.</p>	14.5	m ³		
3A/05	<p>Demolishing of existing R/F concrete driveway .Rate shall include for debris carted away from site .</p> <p><u>Fuel pipes .</u></p>	1.5	m ³		

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DRIVE WAY & MISCELLANEOUS WORKS

B O Q NO - 2026/CPC/LFS/DELFT/25/ 01

Item No	Description	Qty	Unit	Rate	Amount
	<u>Note</u> <u>Following item to be done specially with CPC close supervision and approval.</u>				
3A/06	Supply and laying of 40mm(1 1/2") Dia GI heavy duty fuel pipe lines in drive way between tank and dispenser pump. Rate to include all pipes fittings and accessories.	40.0	Lm		
3A/07	Supply and laying of 40mm (1 1/2") Dia GI heavy duty pipe for vent lines in above ground and connect to the fuel tanks.(Including apply one coat of primer and two coats of enamel paint to CPC approved colours.Rate to include all pipes fittings and accessories.	50.0	Lm		
3A/08	Supply and fixing of G.I tank top valves .	5.0	nr		
3A/09	Supply,fabrication and installation of a pylon signage as per the specification given in the drawing No CEPET/ENG/SK/0013 .Rate include foundation construction and other facilities to complete the work accordingly for the	1.0	nr		
	<u>Fabricate, Installation of Logo,Lettering and Colour Bands</u> <u>Detail of Fabrication</u>				
3A/10	Supply , fabricate & installation of 900mm dia logo (Gauge 22) Stainless Steel 75mm wide circular frame & figure with 3 mm white Perspex sheet completed with colour stickers & light fittings, as per detail drawing No CEYPET / ENG/ SK/0365	1.00	Item		

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DRIVE WAY & MISCELLANEOUS WORKS

B O Q NO - 2026/CPC/LFS/DELFT/25/ 01

Item No	Description	Qty	Unit	Rate	Amount
3A/11	Supply , fabricate & installation of 400mm high stainless steel Boxed type letters (Gauge22) finished with red colour illuminating stickers as per detail drawing No CEYPET / ENG/ SK/0365	1.00	Item		
TOTAL CARRIED TO BILL NO -03 MAIN SUMMARY				Rs-	

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B O Q NO - 2026/CPC/LFS/DELFT/25/ 01

Item	Description	Qty.	Unit	Rate	Amount
4A	<p><u>BILL NO - 04 TANK INSTALLATION OF 1 NO 3000 GALLOON.</u></p> <p><u>UNDER GROUND TANK</u></p> <p><u>Note:</u> a)3000 gl. new tank shall be purchased by the Contractor. b)It is contractor's responsibility to clean the the inside of the tank after installation. c)Quantities are given for 1 No. 3000 gl. tank. d) " Drawing " in this BOQ refer to drawing No CEYPET/ENG/0511-A / CEPET/ENG/UG32017.</p> <p><u>Excavation Earth work</u></p> <p><u>Unless otherwise measured separetely rates for excavation shall include for -:</u></p> <p>(a)Compact bottom of excavations . (b)Working space. (c)The Contractor has to include rate for any working space as required with the unit rates.Excavation has been measured on net contact areas.</p>				

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B O Q NO - 2026/CPC/LFS/DELFT/25/ 01

Item	Description	Qty.	Unit	Rate	Amount
4A/01	<u>Tank Pit Excavation</u> Excavation in tank pit in any type of soil except rock requiring blasting to dimension shown in drawing.	65.0	m ³		
4A/02	<u>Sand filling</u> River sand filling to a height of 1050mm above base concrete slab.	12.0	m ³		
4A/03	<u>Excess Earth</u> To transport excavated excess earth away from site to a location by the contractor .	65.0	m ³		
4A/04	<u>Hard earth filling</u> Approved selected dry earth filling(above sand filling)spread in layers not exceeding 150mm at anytime, watered well rammed & consolidated.	25.0	m ³		
4A/05	<u>Shoring</u> Timber shoring 50mm thick including frame work where if necessary .	75.0	m ²		
4A/06	<u>Dewatering</u> Allow for dewatering under ground water in any area during the period of construction.	1.0	Item		
4A/07	<u>Polythene</u> 500Gauge polythene sheet as horizontal damp proof membrane under ground floor slab and top concrete . Rate shall include for upstand to sides and corners not exceeding 150mm in height .	40.00	m ²		

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B O Q NO - 2026/CPC/LFS/DELFT/25/ 01

Item	Description	Qty.	Unit	Rate	Amount
4A/08	<u>Concrete work</u> 150mm R.C.C 1:1 1/2:3 (20mm) in tank concrete top slab reinforced with 10mm dia .Tor bars at 200mm centers both ways .Rate to include for water proffing admixtures as aproved by Engineer.(Reinforcement measured separately)	3.30	m ³		
4A/09	150mm R.C.C 1:1 1/2:3(20)in tank concrete base slab reinforced with 10mm dia .Tor bars two layers (Top and bottom) at 225mm centers both ways .Rate to include for water proffing admixtures as aproved by Engineer. (Reinforcement measured separately)	3.30	m ³		
4A/10	100mm R.C.C 1:1 1/2:3(20mm)in tank concrete walls around the tank reinforced with 10mm dia .Tor bars two layers (Top and bottom) at 225mm centers both ways .Rate to include for water proffing admixtures as aproved by Engineer.(Reinforcement measured separately)	5.30	m ³		
4A/11	<u>Form work</u> Form work to sides of walls ,cover slabs,edges for tank pit .	110.0	m ²		
<u>REINFORCEMENT AND MISCELLANEOUS WORK</u>					
4A/12	Supplying fixing or laying 10mm tor bars in R.C.C base slab ,walls and top slab	730.0	Kg		

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B O Q NO - 2026/CPC/LFS/DELFT/25/ 01

Item	Description	Qty.	Unit	Rate	Amount
4A/13	<p><u>Fabric mesh reinforcement</u> BRC Mesh type A142 of BS4483 specification, for reinforcement in tank top .(one layer)</p> <p><u>Under Ground Fuel Tank Manhole</u></p> <p><u>Note:-</u> <u>Water proofing should be done according to the following specifications.</u></p> <p>a)All steel pipe joints ,crossing brick work /concrete in manhole should be encased by elastomeric joint sealant .</p> <p>b)All the internal and external walls surfaces should be waterproofed by applying epoxy paint (Free Mastic G -316) or equivalent.(Agent Modern Trading (Pvt)Ltd.)Approved quality concrete admixture can be used for water proofing instead.</p> <p>(c)Water proofing to be given to reputed agent with 5 years guarantee .</p>	20.0	m ²		

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B O Q NO - 2026/CPC/LFS/DELFT/25/ 01

Item	Description	Qty.	Unit	Rate	Amount
4A/14	Supply,fabricating and installing of (approximatly) 750mmx750mmx900mm deep (internally)under ground fuel tank manhole complete, with 12mm MS plate square manhole cover(Size 825mmx825mm) and frame (128Kg per set) with a total thicknes of walls 225mm by R.C.C 1: 1 1 /2 :3(20mm) and masonry brick side walls including form work and reinforcement,10mm tor steel bars @ 200mm centres bothways and tank top concrete to be reinforced with Y10mm tor steel bars and 6mm MS roads.All concrete and brick surfaces to be applied with epoxy paint(Free Mastic G - 316 or equivalent) to side walls.6mm G.I. lifting hooks tied to yard concrete reinforcement and external sides of the brick wall finished smooth with neat cement plaster as per drawing No - CEYPET /ENG/0511	1.0	nr		
4A/15	Scrap wire brush , clean and apply two coats of hot tar to all external surfaces of tank prior to installation.	1.0	Item		

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B O Q NO - 2026/CPC/LFS/DELFT/25/ 01

Item	Description	Qty.	Unit	Rate	Amount
4A/16	Supply, fabrication, transport, and installation of a 3000-gallon underground fuel tank (With single Manhole) in full compliance with Ceylon Petroleum Corporation (CPC) standards and the attached specifications. The tank shall be provided complete with all necessary accessories, including traps, bolts, and other fittings, as indicated in the approved drawings. The quoted rate shall cover the entire process, including transportation from the fabrication location, all handling charges, loading onto a Sri Lanka Navy Landing Craft Mechanized (LCM) at Kankesanthurai (KKS) Port, unloading at Delft Jetty, and subsequent transport to the designated site for installation. The cost of utilizing the LCM for transportation shall be borne by the CPC.	1.0	nr		
	Installation of 3000 Gallon under ground tank			Rs	
TOTAL CARRIED TO BILL NO -04 MAIN SUMMARY				Rs	

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BOQ NO - 2026/CPC/LFS/DELFT/25/ 01

Item	Description	Qty.	Unit	Rate	Amount
5A	<p><u>BILL NO - 05 TANK INSTALLATION OF 1NO 5000 GALLOON.</u></p> <p><u>UNDER GROUND TANK</u></p> <p><u>Note:</u></p> <p>a)5000 gl. new tank will be supplied by Ceylon Petroleum Corporation at cost to the contractor.</p> <p>b)It is contractor's responsibility to clean the the inside of the tank after installation.</p> <p>c)Quantities are given for 1 No. 5000 gl. tank.</p> <p>d)" Drawing " in this BOQ refer to drawing No CEYPET/ENG/0511-A / CEPET/ENG/UG52017.</p> <p><u>Construction sequence for underground tank installation</u></p> <p>(1) The contractor should strictly follow the belowmentioned sequence for construction of RCC tank chamber and installation of the steel tank inside the chamber.</p> <p>(2)Excavation for tank pit</p> <p>(3)Base concrete (make two water access holes 300mmx300mm at two opposite corners of the base concrete). i.e These holes are not to be concreted when the base is concreted</p> <p>(4) Outer wall concrete</p> <p>(5) concrete curing for 21 days</p>				

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B O Q NO - 2026/CPC/LFS/DELFT/25/ 01

Item	Description	Qty.	Unit	Rate	Amount
	(6) water proofing application on concrete base and wall surfaces (only inside surfaces)				
	(7) Tank installation (water access holes should be filled with concrete of the same Grade and water proofed a half day before the tank installation				
	(8)Backfilling with sand the inside bottom part of the camber				
	(9) Backfilling with soil inside and outside of the chamber				
	<u>Tank Pit Excavation</u>				
5A/01	Excavation in tank pit in any type of soil except rock requiring blasting to dimension shown in drawing.	184.0	m ³		
	<u>Sand filling</u>				
5A/02	River sand filling to a height of 1050mm above base concrete slab.	34.0	m ³		
	<u>Excess Earth</u>				
5A/03	To transport excavated excess earth away from site to a location by the contractor .(Bulk volume)	184.0	m ³		
	<u>Hard earth filling</u>				
5A/04	Approved selected dry earth filling(above sand filling)spread in layers not exceeding 150mmat anytime, watered well rammed & consolidated.	70.0	m ³		
	<u>Shoring</u>				
5A/05	Timber shoring 50mm thick including frame work where if necessary .	180.0	m ²		
	<u>Dewatering</u>				

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B O Q NO - 2026/CPC/LFS/DELFT/25/ 01

Item	Description	Qty.	Unit	Rate	Amount
5A/06	Allow for dewatering under ground water in any area during the period of construction.	2.0	Item		
	<u>Polythene</u>				
5A/07	500Gauge polythene sheet as horizontal damp proof membrane under ground floor slab and top concrete . Rate shall include for upstand to sides and corners not exceeding 150mm in height .	100.00	m ²		
	<u>Concrete work</u>				
5A/08	150mm R.C.C 1:1 1/2:3 (20mm) in tank concrete top slab reinforced with 10mm dia .Tor bars at 200mm centers both ways .Rate to include for water proffing admixtures as aproved by Engineer(Reinforcement measured separately)	8.00	m ³		
5A/09	150mm R.C.C 1:1 1/2:3(20)in tank concrete base slab reinforced with 10mm dia .Tor bars two layers (Top and bottom) at 225mm centers both ways .Rate to include for water proffing admixtures as aproved by Engineer(Reinforcement measured separately)	8.00	m ³		
5A/10	150mm R.C.C 1:1 1/2:3(20mm)in tank concrete walls around the tank reinforced with 10mm dia .Tor bars two layers (Top and bottom) at 200mm centers both ways .Rate to include for water proffing admixtures as aproved by Engineer(Reinforcement measured separately)	13.00	m ³		
	<u>Form work</u>				
5A/11	Form work to sides of walls ,cover slabs,edges for tank pit .	280.0	m ²		

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Item	Description	Qty.	Unit	Rate	Amount
	<u>REINFORCEMENT AND MISCELLANEOUS WORK</u>				
5A/12	Supplying fixing or laying 10mm tor bars in R.C.C base slab ,walls and top slab	2200.0	Kg		
	<u>Fabric mesh reinforcement</u>				
5A/13	BRC Mesh type A142 of BS4483 specification, for reinforcement in tank top .(one layer)	52.0	m ²		
	<u>Under Ground Fuel Tank Manhole</u>				
	<u>Note:-</u> <u>Water proofing should be done according to the following specifications.</u>				
	a)All steel pipe joints ,crossing brick work /concrete in manhole should be encased by elastomeric joint sealant .				
	b)All the internal and external walls surfaces should be waterproofed by applying epoxy paint (Free Mastic G -316) or equivalent.(Agent Modern Trading (Pvt)Ltd.)				
	(c)Water proofing to be given to reputed agent with 5 years guarantee .				

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B O Q NO - 2026/CPC/LFS/DELFT/25/ 01

Item	Description	Qty.	Unit	Rate	Amount
5A/14	Supply,fabricating and installing of (approximatly) 750mmx750mmx900mm deep (internally)under ground fuel tank manhole complete, with 12mm MS plate square manhole cover(Size 825mmx825mm) and frame (128Kg per set) with a total thicknes of walls 225mm by R.C.C 1: 1 1 / 2 :3(20mm) and masonry brick side walls including form work and reinforcement,10mm tor steel bars @ 200mm centres bothways and tank top concrete to be reinforced with Y10mm tor steel bars and 6mm MS roads.All concrete and brick surfaces to be applied with epoxy paint(Free Mastic G -316 or equivalent) to side walls.6mm G.I. lifting hooks tied to yard concrete reinforcement and external sides of the brick wall finished smooth with neat cement plaster as per drawing No - CEYPET /ENG/0511	2.0	nr		
5A/15	Scrap wire brush , clean and apply two coats of hot tar to all external surfaces of tank prior to installation.	2.0	Item		
5A/16	Installation of tank with necessary traps and bolts as shown in drawing.	2.0	Item		

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B O Q NO - 2026/CPC/LFS/DELFT/25/ 01

Item	Description	Qty.	Unit	Rate	Amount
5A/17	Supply, fabrication, transport, and installation of a 5,000-gallon underground fuel tank (With single Manhole) in full compliance with Ceylon Petroleum Corporation (CPC) standards and the attached specifications. The tank shall be provided complete with all necessary accessories, including traps, bolts, and other fittings, as indicated in the approved drawings. The quoted rate shall cover the entire process, including transportation from the fabrication location, all handling charges, loading onto a Sri Lanka Navy Landing Craft Mechanized (LCM) at Kankesanthurai (KKS) Port, unloading at Delft Jetty, and subsequent transport to the designated site for installation. The cost of utilizing the LCM for transportation shall be borne by the CPC.	2.0	nr		
TOTAL CARRIED TO BILL NO -06 MAIN SUMMARY				Rs	

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B O Q NO - 2026/CPC/LFS/DELFT/25/ 01

Item No	Description	Unit	Qty	Rate	Amount	
					Rs.	Cts.
6A	<u>BILL NO - 06 SINGLE CANOPY</u>					
	<u>Notes</u> The rates quoted by the tenderer should include for the followings items.					
	<u>Foundation (03 Nos.):-</u>					
a	Excavation, 450mm x 450mm x 600mm deep 1:3:6 (25mm) concrete base to fix the canopy using 4 Nos of 16mm Ragbolts & 10mm thick MS plate etc as shown in drawing. The plate should be concealed.				Note	
	<u>Roof Work</u>					
b	Canopy roof structure 50mm diameter G.I (Medium duty) Pipe spray painted to manufacturers specifications. as shown in drawing. No-CEYPET/ENG/SK/0021.				Note	
c	Supply & Fixing colour bonded Aluminium roofing sheets on steel frame work which include all necessary angle iron (25mm x25mmx 3mm) structural frame work as shown in drawing. Rate will also include for applying two coats of anticorrosive paint				Note	
d	Supply & fixing colour bonded (AZ 150) 0.47mm Zinc Aluminium sheets facia of approved quality and colour on frame work as per fixing details in drawing to Engineer's approval.				Note	
e	Supply & fixing colour bonded Zinc Aluminium sheet ceiling with all necessary Aluminium accessories as per details given in drawing				Note	

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Item No	Description	Unit	Qty	Rate	Amount	
					Rs.	Cts.
f	The single canopy should be provided with adequate lighting by use of 2 nos. fluorescent lights fittings complete with 2' 0" fluorescent bulb complete with diffuser etc.. wired to the inside of the top section through a 5 AMP sunk switch. Wiring should be done with 2x1c x 1.13 PVC insulated copper conductor & 1x1c x 7/0.67 PVC insulated copper earth conductor through 1000g water tight PVC conduit. All materials including conduit (under ground) and wiring from the available supply point (approximately 25m) to be provided.					
g	The successful tenderer should submit a guarantee for a minimum period of 10 years for anticorrosion of structure, stability, material & colour					
h	The rate will include for fabricate, installing single canopy . The proposed locations are given below.					
6A/01	Fabricate, supply & install single canopy as per specification & detail drawing no .CEYPET/ENG/SK/0021.	3.0	nr			
6A/02	<u>Pump Bed</u> 1800mm long 975mm wide 300mm high pump island in 100mm block or half brick walls filled with river sand and 75mm thick 1:3:6 (1") concrete on top finished with black Ceramic tiles of approved size and design to pump bed rate to include 20mm thick cement rendering 1:3 before laying tiles and dressing with colour cement slurry after fixing tiles as shown in drawing no - CEYPET/ENG/SK/0021.	5.50	Lm			

**BILL OF QUANTITIES FOR THE PROPOSED RE - STRUCTURING OF
LANKA FILLING STATION DELFT.**

CEYLON PETROLEUM CORPORATION

B O Q NO - 2026/CPC/LFS/DELFT/25/ 01

Item No	Description	Unit	Qty	Rate	Amount	
					Rs.	Cts.
	Supply , fabricating and installing G.I pump guard. Using 63mm Dia G.I (Medium duty)3mm thick pipes fixed to 6mm thick MS plate by (size150mm x150mm)with 4Nos 20mm Dia rag bolts and placed in 1:2:4(3/4") concrete base.(200mmx20mm x 200mm) .Rate to include excavation , form work , and applying two coat of primer and one coat of enamel paint to G.I pipes as per detail drawing No CEYPET/ENG/SK/0060 given below.					
6A/03	Size - 1800mm x 900mm pump guards	6.00	nr			
6A/04	Size - 900mm x 900mm pump guards	3.00	nr			
TOTAL CARRIED TO BILL NO -06 MAIN SUMMARY				Rs		

**BILL OF QUANTITIES FOR THE PROPOSED RE-STRUCTURING OF
LANKA FILLING STATION DELFT.
CEYLON PETROLEUM CORPORATION**

B O Q NO - 2026/CPC/LFS/DELFT/25/ 01

MAIN SUMMARY

Bill No - 01	PRELIMINARIES.	Rs.	
Bill No - 02	CONSTRUCTION OF SALES BUILDING.	Rs.	
Bill No - 03	DRIVE WAY & MISCELLANEOUS WORK.	Rs.	
Bill No - 04	INSTALLATION OF 1NO 3000 GL TANK .	Rs.	
Bill No - 05	INSTALLATION OF 2NR 5000 GL TANK .	Rs.	
Bill No - 06	SINGLE CANOPY WORK. (3Nr)	Rs.	
	SUB TOTAL 01	Rs.	<hr style="border-top: 1px solid black;"/>
7.00	LESS DISCOUNT (If any)	Rs.	
	SUB TOTAL 02	Rs.	<hr style="border-top: 1px solid black;"/>
13.00	ADD (2.5% SCCL)	Rs.	
	SUB TOTAL 03	Rs.	<hr style="border-top: 1px solid black;"/>
14.00	ADD (18 % VAT)	Rs.	
	TOTAL WITH TAXES	Rs.	<hr style="border-top: 1px solid black;"/>

Total amount in words

Name of Tenderer

Address

Date

Signature of Tenderer

Section - 9

DRAWINGS

9.0 DRAWINGS

Attached

Drawing No. CEYPET/ENG/SK/0423

SECTION – 10

STANDARD FORMS [BID]

- **BID SECURITY**

Note :

*The bidders are advised to use the information printed in **Bold & Italic** in this volume as a check list when submitting the bid. However, it is the responsibility of the bidders to comply with all the requirement given in the bidding document. Failure to non compliance with any of them may be a reason for rejection of the bid.*

Notes on Standard Forms :

- *Bidders shall submit the completed Form of Bid Security/Bid Securing Declaration as appropriate in compliance with the requirements of the bidding documents.*
- *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, Form of Advance Payment Security and Form of Retention Money Guarantee should not be completed by the bidder s at the time of submission of bids.*
- *The successful bidders will be required to provide these securities in compliance with the requirements herein or as acceptable to the Employer.*

FORM OF BID SECURITY

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

----- [insert issuing bank's name, and address of issuing branch or office]

Beneficiary: ----- [insert (by PE) name and address of Employer]

Date: ----- [insert (by issuing bank) date]

BID GUARANTEE No.: ----- [insert (by issuing bank) number] We have been informed that ----- [insert (by issuing bank) name of the Bidder] (hereinafter called "the Bidder") has submitted to you its bid dated ----- [insert (by issuing bank) date] (hereinafter called "the Bid") for the execution of [insert name of Contract] under Invitation for Bids No. ----- [insert IFB number] ("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 bank] 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 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 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 the successful bidder, upon the earlier of (i) 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(s) 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 Security			
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 into 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		

SIGNATURE OF THE BIDDER