



Ceylon Petroleum Corporation

**CONSTRUCTION OF LANKA FILLING  
STATION AT MUTHURAJAWELA**

**B/13 /2025**

**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**

**Construction of Lanka Filling Station at Muthurajawela**

**B/13/2025**

1. The Chairman, **Departmental Procurement Committee (DPC)** on behalf of the **Ceylon Petroleum Corporation** invites sealed bids from eligible and qualified contractors for the Contract “**Construction of Lanka Filling Station at Muthurajawela**”  
The period of Construction is **06 Months**.
2. Bidding will be conducted through National Competitive Bidding Procedure.
3. To be eligible for the Contract award, the successful bidder/nominated subcontractor shall have not been blacklisted and shall meet the **CIDA grade C4 and above at the time of the submission of the Bid**.
4. Bidding documents can be obtained on working days between 0900 hrs. to 1500 hrs. up to 18.04.2025 from the office of Manager (Procurement & Stores), Ceylon Petroleum Corporation, 1st Floor, No. 609, Dr. Danister De Silva Mawatha., Colombo 09, on a written request, or download from CPC website, i.e - <http://ceypetco.gov.lk/public-tenders/> after payment of non-refundable fee of Rs. 20,000.00 (Rs. 16,535.76 + 2.5% SSCL + 18% VAT per set). As per the Public Contract Act No, 3 of 1987, the Prospective Bidders shall be registered in Department of Registrar of Companies through <https://eroc.drc.gov.lk/> website and submit PCA 3 certificate along with their Bid.
5. The Bid will be closed at 1400 hrs. on 21.04.2025 and opened at the Office of Manager (Procurement & Stores), Ceylon Petroleum Corporation at the address given below, immediately after the closing time of the Bid.

Chairman,  
Departmental Procurement Committee,  
C/o Manager (Procurement & Stores),  
Procurement & Stores Function,  
Ceylon Petroleum Corporation,  
1<sup>st</sup> Floor, No. 609, Dr. Danister De Silva Mw.  
Colombo 09.  
Tele : 011-7296100 ext. 333  
E-mail: [supplies@ceypetco.gov.lk](mailto:supplies@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 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

*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.*

*[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 the .....insert "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 words<sup>5</sup>] 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)]

-----  
<sup>5</sup> 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** : Construction of Lanka Filling Station at Muthurajawela

**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 Ninety One (91) 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* : .....

## Qualification Information

(To be completed and submitted by the bidder, with the Bid)

<b>ICTAD Registration</b>	
Registration number	(attach copies of relevant pages from the registration book)
Grade	
Specialty	
Expiry Date	
<b>Blacklisted Contractors</b>	
Have you been declared as a defaulted contractor by NPA or any other Agency? (Yes/No)	
IF yes provide details	
<b>VAT Registration Number</b>	
Construction Program	( attach as annex)
Legal status	(attach relevant status copies, as annex)
<b>Value of Construction works performed in last 5 years</b> (attach copies of Certificate of Completion etc. and other documents such as profit-loss and income expenditure statement)	
Year .....	
Year .....	
Year .....	
Year .....	
Year .....	
<b>Value of similar works completed in last 05 years (indicate only the three largest projects)</b>	
	1. Value _____ Year .....
	2. Value _____ Year .....
	3. Value _____ Year .....
	(attach copies of Certificate of Completion etc., as annex)
<b>Major items of construction equipment proposed</b>	
	1. type _____ Capacity .....
	2. type _____ Capacity .....
	3. type _____ Capacity .....
	4. type _____ Capacity .....
	5. type _____ Capacity .....
<b>Qualification and experience of key staff – Site &amp; Head Office (Permanent, Contract basis &amp; Consultants)</b>	
	<b>Technical:</b>
	1.
	2.
	3.
	<b>Managerial:</b>
	1.
	2.
	3.
<b>Other information requested under ITB Clause 4.1</b>	

**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 – **Construction of Lanka Filling Station at Muthurajawela**

Located at : **Muthurajawela**

- 1.2 Intended Completion Date is 06 Months from the Start Date.

- 1.3 The Office for collection of bid forms is :

Bidding documents can be obtained on working days between 0900 hrs. to 1500 hrs. up to 18.04.2025 from the office of Manager (Procurement & Stores), Ceylon Petroleum Corporation, 1st Floor, No. 609, Dr. Danister De Silva Mawatha., Colombo 09, on a written request, or downloaded from CPC website, i.e - <http://ceypetco.gov.lk/public-tenders/>.after payment of non-refundable fee of Rs. 20,000.00 (Rs. 16,535.76 + 2.5% SSCL + 18% VAT per set).

The non-refundable fee is Rupees **Rs. 20,000.00 (including Taxes)**

- 1.1. The source of funds is Ceylon Petroleum Corporation

- 4.2 The registration required

Specialty : Building Construction

Grade : C4 and above

- 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. 250.0 million.
- \* Experience in the construction of at least one contract of a nature and complexity (Should be a filling station) 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 : Mr. G.P.K. Wijekoon

Address : **Manager (Engineering & Premises), Engineering & Premises Function, 7<sup>th</sup> Floor, No. 609, Dr. Danister De Silva Mw. Colombo 09.**

Tele : 011-7296132

- 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 21.07.2025) 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. 1,000,000.00.**
- Valid until 18.08.2025 (**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 10.04.2025**  
Venue : **Muthurajawela**

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

**19.2 b** Contract name: **Proposed Construction of Lanka Filling Station at Muthurajawela**

Contract no : 400043575

**20.1** The deadline for submission of Bids shall be **21.04.2025**

## **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 : **Proposed Construction of Lanka Filling Station at Muthurajawela**

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

**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 **06 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. 1/2000 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 – 6**

**SPECIFICATIONS**

## **Specifications**

### **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 drawing and as advised by the Engineer and the BOQ quantities are only a guideline and the quantities are approximate.
- 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 requested by Engineer from Institution decided by the Engineer.
- 6.3.4 Providing 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 as 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**

6.4.11 Where the existing ground surface is covered with vegetation top soil 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 such other deleterious material.

6.4.1.2 Maximum dry density at optimum moisture content (Standard Proctor Density) shall not be less than  $1.6 \text{ gm/cm}^3$  if the Engineer decides to check.

6.4.1.3 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 1<sup>st</sup> 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 to 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/mm<sup>2</sup>).

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 herein.
- 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 for taking all necessary precautions to cover the concrete surface with "Polythene" to protect from drying, shrinkage of the surface.
- 6.4.4.2.8 Rate shall include for plant for 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 to include 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 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 water proofing 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 to submit 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 <sup>2</sup>
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 5 Year guarantee 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**

### **6.14.5.1MDCs / 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.

### **6.14.5.2Miniature 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.

### **6.14.5.3Residual Current Devices (RCDs) (RCCBs)**

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

### **6.14.5.4PVC 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.

### **6.14.5.5Amps. Switches**

They shall be white color complying with BS 1360.

### **6.14.5.6Socket 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.

### **6.14.5.7PVC 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.

### **6.14.5.8Screws and Panel Pins**

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

### **6.14.5.9Ceiling Roses**

Ceiling roses shall be plate type and shall confirm 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 – 07**  
**SCOPE OF WORKS**



## **Scope of Work**

**N/A**

## **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

### CEYLON PETROLEUM CORPORATION

### JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION AT MUTHURAJAWELA

### B.O.Q. No. 2025 /MUTHU /01/ 01 - PRELIMINARIES

ITEM REF.		QTY.	UNIT	UNIT RATE	TOTAL PRICE RUPEES
1/-	<b>BILL NO- 01 - PRELIMINARIES</b>				
1A/01	Allow lump sump for providing Security Bonds , guarantees etc.		item		
1A/02	Allow lump sump for providing a performance Bonds .		item		
1A/03	Allow lump sum for Advancen payment security		item		
1A/04	Provide lump sum to construct, maintain and removal at end of contract temporary buildings for protection & storage of materials & plant and for workshops.		item		
1A/05	Provide lump sum to construct furnish, maintain & removal at end of contract Contractor's office.		item		
1A/06	Allow for construct furnish, maintain & removal at end of contract Engineer's office of area 25 m2, to accommodate two officers, provide toilet and telephone facilities.		item		
1A/07	Allow lump sum for supplying specimens & samples of materials used & carrying out tests etc. confirm to relevant British Standards as directed by the Engineer.		item		
1A/08	Allow lump sum for temporary sanitary accomodation of site for the contractor's staff and workmen.		item		
1A/09	Provide lump sum for demobilization, removal of all rubbish & debris and clearing up site on completion , leaving all in good order and handing over.		item		
1A/10	Provide lump sum for setting out of the works.		item		
<b>TO BILL NO 01 PRELIMINARIES TOTAL CARRIED TO MAIN SUMMARY</b>				<b>RS</b>	

## BILL OF QUANTITIES

**CEYLON PETROLEUM CORPORATION**

**JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION**

**B.O.Q. No. 2025 /MUTHU /01 / 02 - GROUND PREPARATION**

Item	Description	Qty.	Unit	Rate	Amount Rs. Cts.
	<b>BILL NO- 02 - GROUND PREPARATION</b>				
2A/-	<b><u>GROUND PREPARATION</u></b>				
	<b><u>Cleaning site</u></b>				
2A/01	Allow for cleaning site including Cut and remove the small trees , shrubs , weed and 150mm thick top soil within the boundries and removal of roots of trees (Approx. 45 . 0 m x 45 . 0 m ). Remove all debris from site to a place found by the contractor including transport , handling etc.	1.00	item		
	<b><u>Retaining wall</u></b>				
	<b><u>Excavation</u></b>				
	Note: All excavations are measured net. No allowance made for working space the cost for working space is to include in the rate. Quantities are for the compacted volume.				
2A/02	Excavation in foundation for RCC retaining wall in any type of soil except rock requing blasting and removal on completion , Depth not exceeding 1.0m	150.00	m <sup>3</sup>		
2A/03	- Ditto - depth exceeding 1.0m but not exceeding 2.0m.	115.00	m <sup>3</sup>		
2A/04	- Ditto - depth exceeding 2.0m but not exceeding 3.0m.	112.00	m <sup>3</sup>		
2A/05	- Ditto - depth exceeding 3.0m but not exceeding 4.0m.	25.00	m <sup>3</sup>		
2A/06	- Ditto - depth exceeding 4.0m but not exceeding 5.0m.	20.00	m <sup>3</sup>		

## BILL OF QUANTITIES

**CEYLON PETROLEUM CORPORATION**

**JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION**

**B.O.Q. No. 2025 /MUTHU /01 / 02 - GROUND PREPARATION**

Item	Description	Qty.	Unit	Rate	Amount Rs. Cts.
	<p><b><u>Earthwork support</u></b>                      Note:                      Payment for earth work support will only be considered on actual quantities of work executed.</p> <p>Earth work support shall be carried out only if specially introduced to do so by the Engineer at site.</p>				
2A/07	Earthwork support for RCC retaining wall , depth not exceeding 1.0m from existing ground level.	240.00	m <sup>2</sup>		
2A/08	- Ditto - depth exceeding 1.0m but not exceeding 2.0m.	102.00	m <sup>2</sup>		
2A/09	- Ditto - depth exceeding 2.0m but not exceeding 3.0m.	102.00	m <sup>2</sup>		
	<p><b><u>Filling</u></b></p>				
2A/10	Supply, filling and compacting Quarry dust 20 volume with 1 volume of cement mix to obtain degree of compaction 97% need to be placed in layers not exceeding 300mm and compact by using poker vibrator to achieve maximum density.	330.00	m <sup>3</sup>		
	<p><b><u>Weep hole</u></b></p>				
2A/11	Supply and installing of 90mm dia type 400 uPVC pipes weep holes at 1500mm x 1500mm grid with a 50mm and 18mm metal filter and Clay puddle pad as per detail drawing.	128.00	Nos		

## BILL OF QUANTITIES

**CEYLON PETROLEUM CORPORATION**

**JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION**

**B.O.Q. No. 2025 /MUTHU /01 / 02 - GROUND PREPARATION**

Item	Description	Qty.	Unit	Rate	Amount Rs. Cts.
	<b><u>CONCRETE WORK</u></b>				
	<b><u>Plain Concrete - Grade -25</u></b>				
2A/12	To 50mm thick concrete screed under retaining wall footings.	165.00	m <sup>2</sup>		
	<b><u>Reinforced cement concrete - Grade - 25</u></b> <b><u>(Reinforcement measured separately)</u></b>				
2A/13	To 350mm thick column footing	35.00	m <sup>3</sup>		
2A/14	To 200mm thick column footing	13.50	m <sup>3</sup>		
2A/15	To 250mm thick wall concrete	44.00	m <sup>3</sup>		
2A/16	To 150mm thick wall concrete	18.50	m <sup>3</sup>		
2A/17	To 225 x 225 mm concrete column for boundary wall	1.75	m <sup>3</sup>		
2A/18	To 200 x 150 mm concrete column for boundary wall	1.75	m <sup>3</sup>		
2A/19	To 100mm x 100mm coping on top of boundary wall	140.00	lm		
	<b><u>Reinforcement</u></b>				
2A/20	To 6mm Mild steel	140.00	Kg		
2A/21	To 10mm tor steel in retaining wall	2,450.00	Kg		
2A/22	To 12mm tor steel in retaining wall	6,850.00	Kg		
2A/23	To 16mm tor steel in Plinth beam	2,250.00	Kg		
	<b><u>Form work</u></b>				
2A/24	To sides of retaining wall	680.00	m <sup>2</sup>		
2A/25	To Boundary wall columns	80.00	m <sup>2</sup>		

## BILL OF QUANTITIES

**CEYLON PETROLEUM CORPORATION**

**JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION**

**B.O.Q. No. 2025 /MUTHU /01 / 02 - GROUND PREPARATION**

Item	Description	Qty.	Unit	Rate	Amount Rs. Cts.
	<b><u>Cement block work</u></b>				
2A/26	4" thick cement sand solid Block wall in cement sand mortar 1:5 in boundry wall.	250.00	m <sup>2</sup>		
2A/27	16mm thick cement sand plaster 1:5 to external surfaces of walls and columns finished semi rough with wooden float.	500.00	m <sup>2</sup>		
2A/28	Prepare surface and apply one coat of primer and two coats of weather shiled paint of an approved colour and quality to boundry wall surface.	500.00	m <sup>2</sup>		
	<b><u>ABC Filling</u></b>				
2A/29	Supply, spread and compact to approved density graded aggregate base course (A B C) using 37.5mm aggregate 20 volume with 1 volume of cement mix to obtain degree of compaction 97% need to be placed in layers not exceeding 300mm and compact by using porker vibrator to acheve maxume density. . Rate to includes transport to site.	1,400.00	m <sup>3</sup>		
	<b><u>Storm water installation</u></b>				
2A/30	160 mm diameter soil pipe, grade 600, rubber ring socketed uPVC, with all necessary specials, laid from manhole including all necessary excavation not exceeding 1.5M deep, earth work and 375 x 375mm grade15 concrete backing and haunching at minimum 1.0m intervals.	75.00	m		
2A/31	Supply and installation of 1200mm dia 600mm high precast concrete cylinders as per detail drawing.	68.00	Nos		
2A/32	Supply and installation of 600mm dia 600mm high precast concrete cylinders as per detail drawing.	170.00	Nos		
<b>TO BILL NO 02 GROUND PREPARATION TOTAL CARRIED TO MAIN SUMMARY</b>				<b>RS</b>	

**BILL OF QUANTITIES**

**CEYLON PETROLEUM CORPORATION**

**JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION**

**MUTHURAJAWELA.**

**B.O.Q. No. 2025 /MUTHU /01 / 03 - TANK INSTALLATION**

Item	Description	Qty	Unt	Rate	Amount	
					Rs.	Cts.
3A/-	<p><b><u>BILL NO- 03 - TANK INSTALLATION</u></b>  <b><u>( 02 NOS 3000 GALLON TANK AND 02 NOS 5000 GALLON UNDER GROUND TANKS)</u></b></p> <p><b><u>Note:</u></b>                      a). 5000 gl. new tank will be supplied by Ceylon Petroleum Corporation at no cost to the contractor.                      b). 3000 gl . New tank to be supplied by the contractor.                      c). 'The bidder should refer the Detail in the attached drawing No 04 of 07 of project No P/DEC/19/1890 .</p> <p><b><u>Tank Pit Excavation</u></b></p>					
3A01	<p>Excavation in tank pit in any type of soil except rock requiring blasting to dimension shown in drawing.</p>	1400.0	m <sup>3</sup>			
	<p><b><u>Shoring</u></b></p>					
3A/02	<p>Allow for providing suitable shoring system . As per instruction by site Engineer .</p>	460.0	m <sup>2</sup>			
	<p><b><u>Dewatering</u></b></p>					
3A/03	<p>Allow for dewatering underground water. In any area during the period of construction.</p>	1.0	Item			
	<p><b><u>Sand filling</u></b></p>					
3A/04	<p>River sand filling to a height of 3'6" above base concrete slab.</p>	85.0	m <sup>3</sup>			
	<p><b><u>Excess Earth</u></b></p>					
3A/05	<p>To transport excavated excess earth away from site to a location by the contractor .</p>	1400.0	m <sup>3</sup>			
	<p><b><u>Hard earth filling</u></b></p>					
3A/06	<p>Approved imported earth filling( above sand filling )spread in layers not exceeding 6" at anytime, watered well rammed &amp; consolidated.</p>	175.0	m <sup>3</sup>			



**BILL OF QUANTITIES**

**CEYLON PETROLEUM CORPORATION**

**JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION**

**MUTHURAJAWELA.**

**B.O.Q. No. 2025 /MUTHU /01 / 03 - TANK INSTALLATION**

Item	Description	Qty	Unt	Rate	Amount	
					Rs.	Cts.
	<b><u>Polythene</u></b>					
3A/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 6" in height .	300.00	m <sup>2</sup>			
	<b><u>Concrete work</u></b>					
3A/08	Grade 35 concrete in tank <b>top slab</b> (Reinforcement measured separately ). Rate to include for waterproofing admixtures as approved by Engineer.	26.00	m <sup>3</sup>			
3A/09	Grade 35 concrete in tank <b>base slab</b> ( Reinforcement measured separately ) . Rate to include for waterproofing admixtures as approved by Engineer.	75.00	m <sup>3</sup>			
3A/10	Grade 35 concrete in tank <b>walls</b> ( Reinforcement measured separately ). Rate to include for waterproofing admixtures as approved by Engineer.	70.00	m <sup>3</sup>			
	<b><u>Form work</u></b>					
3A/11	Form work to sides of walls ,cover slabs,edges for tank pit .	490.0	m <sup>2</sup>			
	<b><u>REINFORCEMENT AND MISCELLANEOUS WORK</u></b>					
3A/12	Supplying fixing or laying 16mm and 12mm tor bars in R.C.C base slab ,walls and top slab	20200.0	Kg			
	<b><u>Under Ground Fuel Tank Manhole</u></b>					
	<b><u>Note-:</u></b>					
	<b><u>Water proofing should be done according to the following specifications.</u></b>					
	a)All steel pipe joints ,crossing brick work /concrete in manhole should be encased by elastomeric joint sealant .					

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**CEYLON PETROLEUM CORPORATION**

**JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION**

**MUTHURAJAWELA.**

**B.O.Q. No. 2025 /MUTHU /01 / 03 - TANK INSTALLATION**

Item	Description	Qty	Unt	Rate	Amount	
					Rs.	Cts.
	<p><b>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.)</b></p> <p><b>(c)Water proofing to be given to reputed agent with 5 years guarantee .</b></p>					
3A/13	Supply, fabricating and installing of (approximatly) 2'6"x2'6"X 3'0" deep (internally )under ground fuel tank manhole complete, with 12mm MS plate square manhole cover(Size 2'9"x2'9") and frame with a total thicknes of walls 225mm by R.C.C 1: 1 1 /2 :3(3/4") and masonry brick side walls including form work and reinforcement,3/8" tor steel bars @ 8" centres bothways and tank top concrete to be reinforced with Y 3/8" tor steel bars and 2/8" MS roads.All concrete and brick surfaces to be applied with epoxy paint(Free Mastic G -316 or equivalent ) to side walls.5/8" 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/0287	6.0	nr			
3A/14	Scrap wire brush , clean and apply two coats of hot tar to all external surfaces of tank prior to installation.	4.0	nr			
3A/15	Supply , Fabricate , transport and Installation of 3000 Gallon under ground fuel tank (as per the CPC Standard and attached specification) with necessary accessories (traps and bolts etc.) CPC , standered as shown in drawing . Rate to incldes tank transport and all handling charges.	2.0	nr			
3A/16	Installation of 5000 Galoon tank with necessary traps and bolts as shown in drawing.	2.0	nr			
3A/17	<p><b><u>Filling under Tank chamber</u></b></p> <p>Supply, filling and compacting Quarry dust 20 volume with 1 volume of cement mix to obtain degree of compaction 97% need to be placed in layers not exceeding 300mm and compact by using porker vibrator to acheve maxume density.</p>	500.0	m <sup>3</sup>			

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**B.O.Q. No. 2025 /MUTHU /01 / 03 - TANK INSTALLATION**

<b>Item</b>	<b>Description</b>	<b>Qty</b>	<b>Unt</b>	<b>Rate</b>	<b>Amount</b> Rs. Cts.
3A/18	Earth filling with selected excavated earth at site in 150mm thick layers well rammed and consolidated.	300.0	m <sup>3</sup>		
<b>BILL NO 03 TANK INSTALLATION TOTAL CARRIED TO MAIN SUMMARY</b>				<b>RS</b>	

## BILL OF QUANTITIES

**CEYLON PETROLEUM CORPORATION**

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**MUTHURAJAWELA.**

**B.O.Q. No. 2025 /MUTHU /01 / 04 - BUILDING WORKS**

Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
	<b>BILL NO - 04 - BUILDING WORKS</b>					
<b>4A/-</b>	<b><u>EXCAVATION AND EARTH WORK</u></b>					
	<b><u>Note</u></b>					
	<b>Contractor to also allow clearing of site upon completing and during construction, including removal of all rubbish and debris and leaving the building clean internally and externally . All such debris to be removed from site to a location arranged by the contractor.</b>		Note			
4A/01	Excavation for wall foundation depth not exceeding 1.0m from finished ground level.	22.00	m <sup>3</sup>			
4A/02	- Ditto - pasty shop	9.00	m <sup>3</sup>			
4A/03	- Ditto - Wash room	7.00	m <sup>3</sup>			
4A/04	Excavation for column foundation depth not exceeding 1.0m from finished ground level.	28.00	m <sup>3</sup>			
4A/05	- Ditto - pasty shop	12.00	m <sup>3</sup>			
4A/06	- Ditto - Wash room	7.00	m <sup>3</sup>			
4A/07	- Ditto - depth exceeding 1.0m but not exceeding 2.0m.	28.00	m <sup>3</sup>			
4A/08	- Ditto - pasty shop	12.00	m <sup>3</sup>			
4A/09	- Ditto - Wash room	7.00	m <sup>3</sup>			
4A/10	- Ditto - depth exceeding 2.0m but not exceeding 3.0m.	22.00	m <sup>3</sup>			
4A/11	- Ditto - pasty shop	9.00	m <sup>3</sup>			
4A/12	- Ditto - Wash room	4.50	m <sup>3</sup>			
4A/13	- Ditto - depth exceeding 3.0m but not exceeding 4.0m.	4.00	m <sup>3</sup>			

**BILL OF QUANTITIES**

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**B.O.Q. No. 2025 /MUTHU /01 / 04 - BUILDING WORKS**

Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
4A/14	Supply, filling and compacting Quarry dust 20 volume with 1 volume of cement mix to obtain degree of compaction 97% need to be placed in layers not exceeding 300mm and compact by using porker vibrator to acheve maxium density.	85.00	m <sup>3</sup>			
4A/15	- Ditto - pasty shop	37.50	m <sup>3</sup>			
4A/16	- Ditto - Wash room	18.00	m <sup>3</sup>			
<b>Planking and strutting</b>						
4A/17	Planking and strutting to sides of columns and trunch foundation.	330.00	m <sup>2</sup>			
4A/18	- Ditto - pasty shop	115.00	m <sup>2</sup>			
4A/19	- Ditto - Wash room	55.00	m <sup>2</sup>			
<b>Dealing with water</b>						
4A/20	Allow for dewatering underground water. In any area during the period of construction. (For Building , Pasty shop and wash room)	1.00	item			
<b>Anti-termite treatment</b>						
4A/21	Anti-termite treatment to be carried out from a reputed company to excavated surfaces and backfilled areas to manufacturers specifications. (Tenderer to submit technical proposals along with the tender) payments will be effected only on submission of guarantee for a period of ten ( 05 )years. (For Building , Pasty shop and wash	180.00	m <sup>2</sup>			

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**B.O.Q. No. 2025 /MUTHU /01 / 04 - BUILDING WORKS**

Item	Description	Qty.	Unit	Rate	Amount Rs. Cts.
<b>EXCAVATION AND EARTH WORK TOTAL CARRIED TO BILL NO.4 SUMMARY</b>					
<b>4B/-</b>	<b><u>CONCRETE WORK</u></b>				
	<b><u>Plain Concrete - Grade -25</u></b>				
4B/01	50mm thick concrete screed under column and trench footings.	43.00	m <sup>2</sup>		
4B/02	- Ditto - pasty shop	17.50	m <sup>2</sup>		
4B/03	- Ditto - Wash room	3.40	m <sup>2</sup>		
4B/04	75mm thick concrete in all floor area including pavement.	62.50	m <sup>2</sup>		
4B/05	- Ditto - pasty shop	53.00	m <sup>2</sup>		
4B/06	- Ditto - Wash room	24.00	m <sup>2</sup>		
	<b><u>Reinforced cement concrete - Grade - 25</u></b>				
	<b><u>(Reinforcement measured separately)</u></b>				
4B/07	300mm thick column footing	4.50	m <sup>3</sup>		
4B/08	- Ditto - pasty shop	2.00	m <sup>3</sup>		
4B/09	- Ditto - Wash room	0.50	m <sup>3</sup>		
4B/10	In column base up to Tie beam level	1.80	m <sup>3</sup>		
4B/11	- Ditto - pasty shop	0.50	m <sup>3</sup>		
4B/12	- Ditto - Wash room	0.40	m <sup>3</sup>		
4B/13	In column from Tie beam level up to roof level	1.30	m <sup>3</sup>		
4B/14	- Ditto - pasty shop	0.80	m <sup>3</sup>		
4B/15	- Ditto - Wash room	0.50	m <sup>3</sup>		
4B/16	400x400 Column from Tie beam up to canopy roof	2.00	m <sup>3</sup>		

**BILL OF QUANTITIES**

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**MUTHURAJAWELA.**

**B.O.Q. No. 2025 /MUTHU /01 / 04 - BUILDING WORKS**

Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
4B/17	In Tie beams	4.50	m <sup>3</sup>			
4B/18	- Ditto - pasty shop	2.50	m <sup>3</sup>			
4B/19	- Ditto - Wash room	1.10	m <sup>3</sup>			
4B/20	Roof beams at roof level	4.00	m <sup>3</sup>			
4B/21	- Ditto - pasty shop	2.20	m <sup>3</sup>			
4B/22	- Ditto - Wash room	1.10	m <sup>3</sup>			
4B/23	In water tank beams	0.60	m <sup>3</sup>			
4B/24	In 125mm thick water tank slab	11.00	m <sup>2</sup>			
4B/25	150mmx150mm cement concrete lintol in 1:2:4(20mm) concrete, reinforced with 2nos 12mm tor bars with 6mm M.S. stirrups at 150 crs. Rate to include R/f and F/w .	4.00	m			
	<b><u>Water Proofing</u></b>					
	<b><u>The method of water proofing with the materials proposed to be forwarded with the quotation</u></b>					
4B/26	Supply and apply "Xypex" or approved equivalent water proofing agent to manufactures specification to water tank slab .	12.00	m <sup>2</sup>			
	<b><u>Reinforcement</u></b>					
4B/27	6mm mild steel in sales building , pasty shop and wash room	475.00	Kg			
4B/28	8mm mild steel in sales building , pasty shop and wash room	28.50	Kg			
4B/29	10mm Tor steel in sales building , pasty shop and wash room	315.00	Kg			

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**CEYLON PETROLEUM CORPORATION**

**JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION**

**MUTHURAJAWELA.**

**B.O.Q. No. 2025 /MUTHU /01 / 04 - BUILDING WORKS**

Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
4B/30	12mm Tor steel in sales building , pasty shop and wash room	1,375.00	Kg			
4B/31	16mm Tor steel in sales building , pasty shop and wash room	240.00	Kg			
4B/32	20mm Tor steel in sales building , pasty shop and wash room	590.00	Kg			
	<b><u>Sawn form work</u></b>					
4B/33	To vertical sides of coloumn and base ( sales building , pasty shop and wash room)	150.00	m <sup>2</sup>			
4B/34	To sides of Tie beam (sales building , pasty shop and wash room)	60.00	m <sup>2</sup>			
4B/35	To sides of Roof beam (sales building , pasty shop and wash room)	90.00	m <sup>2</sup>			
4B/36	To water tank slab and beam .	20.00	m <sup>2</sup>			
<b>CONCRETE WORK TOTAL CARRIED TO BILL NO.4 SUMMARY</b>						
<b>4C</b>	<b><u>RUBBLE AND BRICK WORK</u></b>					
	<b><u>Rubble work</u></b>					
4C/01	Rubble masonry in cement sand mix 1:5 in trench foundation	15.00	m <sup>3</sup>			
4C/02	- Ditto - pasty shop	6.00	m <sup>3</sup>			
4C/03	- Ditto - Wash room	4.00	m <sup>3</sup>			
	<b><u>Cement block work</u></b>					
4C/04	150mm thick solid cement block work in 1:5 cement sand mix .	150.00	m <sup>2</sup>			
4C/05	- Ditto - pasty shop	23.00	m <sup>2</sup>			



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Item	Description	Qty.	Unit	Rate	Amount Rs. Cts.
4C/06	- Ditto - Wash room	40.00	m <sup>2</sup>		
<b>RUBBLE AND BRICK WORK TOTAL CARRIED TO BILL NO.4</b>					
<b>SUMMARY</b>					
4D/-	<b><u>ALUMINIUM DOORS AND WINDOWS</u></b> <b>All Aluminium Doors and Windows extrusions shall be powder coated and of approved colour (red colour) , Total thickness of 60 - 80 microns.</b>				
4D/01	Door type "D" overall size 1200mm x 2700mm high Aluminium framed glazed door with louvered above , all as per detailed drawing . Rate to include necessary fittings including Stainless steel Door handle,door lock approved make and quality, hinges and barrol bolt etc. as approved by the Engineer. (01No)	3.25	m <sup>2</sup>		
4D/02	- Ditto - pasty shop. (02 nos)	6.50	m <sup>2</sup>		
4D/03	- Ditto - Wash room. (01No)	3.30	m <sup>2</sup>		
4D/04	Door type "D1" overall size 1050mm x 2700mm high Aluminum frame double side rotate glazed door with louvered above , all as per detailed drawing and including all necessary fittings. (Stainless steel Door handle, Door lock approved make and quality , hinges , barrol bolt etc.) as approved by the Engineer. (01 no)	3.00	m <sup>2</sup>		
4D/05	Door type "D2" overall size 900mm x 2700mm high Aluminum frame glazed door with louvered above, all as per detailed drawing and including all necessary fittings. ( Door lock and handle approved make and quality , hinges , barrol bolt etc.) as approved by the Engineer. (02 no)	5.00	m <sup>2</sup>		

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Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
4D/06	Door type "D3" overall size 900mm x 2100mm high Aluminum frame aglazed door , all as per detailed drawing and including all necessary fittings. ( Door lock approved make and quality , hinges , barrol bolt etc.) as approved by the Engineer. (01 no)	2.00	m <sup>2</sup>			
4D/07	Door type 'D4" overall size 750mm x 2700mm Aluminum framed glazed door with louvered above and sash bottom part aluminium cladded and upper part pin head glazed(sized 2' 3" x 3' 0" ). all as per detailed drawing and including all necessary fittings. ( Door lock approved make and quality , hinges , barrol bolt etc.) as approved by the Engineer. (03 no)	6.10	m <sup>2</sup>			
4D/08	- Ditto - Wash room. (01No)	2.10	m <sup>2</sup>			
4D/09	Door type "LD" overall size 1500mm x 2700mm Aluminum framed louvered door , all as per detailed drawing and including all necessary fittings. as approved by the Engineer. (01 no)	4.10	m <sup>2</sup>			
4D/10	Window type "FG" overall size 2800mm x 2700mm Aluminum framed fixed glazed window with louvered above , all as per detailed drawing and including all necessary fittings. as approved by the Engineer. (01 No)	7.60	m <sup>2</sup>			
4D/11	- Ditto - pasty shop	23.50				
4D/12	Window type " FG1" overall size 1100mm x 2700mm Aluminum framed fixed glazed window with ;ouvered above, all as per detailed drawing and including all necessary fittings. as approved by the Engineer. (01 No)	3.00	m <sup>2</sup>			
4D/13	- Ditto - pasty shop	8.00	m <sup>2</sup>			
4D/14	Window type "LW" overall size 1200mm x 1800mm Aluminum framed louver paneled window , all as per detailed drawing and including all necessary fittings. as approved by the Engineer. (02 No)	4.50	m <sup>2</sup>			

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Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
4D/15	Window type "W" overall size 1800mm x 1500mm Aluminum framed glazed window with louvers above , all as per detailed drawing and including all necessary fittings. as approved by the Engineer. (03 No)	8.10	m <sup>2</sup>			
4D/16	Window type "SW" overall size 1200mm x 1500mm Aluminum framed sliding window with louvered above , all as per detailed drawing and including all necessary fittings. as approved by the Engineer. (02 No)	3.60	m <sup>2</sup>			
4D/17	- Ditto - pasty shop	3.60	m <sup>2</sup>			
4D/18	Fanlight type 'F' overall size 600mm x 900mm Aluminium framed glazed fanlight , all as per detailed drawing and including all necessary fittings. (03No)	1.70	m <sup>2</sup>			
4D/19	- Ditto - Wash roomF 04 Nos	2.20	m <sup>2</sup>			
<b>ALUMINIUM DOORS AND WINDOWS TOTAL CARRIED TO BILL NO.4 SUMMARY</b>						

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**B.O.Q. No. 2025 /MUTHU /01 / 04 - BUILDING WORKS**

Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
4E/-	<b><u>ROOFING WORK</u></b> <b><u>Zinc Aluminium Roof</u></b>  The bidder should refer the Notes in the attached drawing No 6 of 9 of project No p/DEC/19/1890 for steel selection , preparation , Galvernizing and coating of steel					
4E/01	Zinc Aluminium Colour bonded AZ - 200 corrugated roofing sheets of approved profile (not less than 0.47mm total coated thickness and with outstanding corrosion resistance), approved quality and colour on steel frame work as shown in drawing in sales building (Frame work measured separately ) . Rate to include double layer insulation foil (8mm thick) with all accessories ( 75mm x 75mm, Gauge18 PVC coated Mesh , Air gap tape , jointing tape )	65.00	m <sup>2</sup>			
4E/02	- Ditto - pasty shop.	60.00	m <sup>2</sup>			
4E/03	- Ditto - Wash room.	30.00	m <sup>2</sup>			
	<b><u>Steel frame work</u></b>					
4E/04	Supply and fixing (UB04) 100mm x 50mm x 9.3kg/m Universal Beam fixing on roof beaml with rag bolts as per detail drawing. Rate to include galvernized to detail.	28.00	m			
4E/05	- Ditto - pasty shop. (UB03) 152x 89 x 16 kg/m	50.00	m			
4E/06	Supply and fixing 100mm x 50mm x 12 (2.3mm) "C" purlings (welded in position )as per detail drawing . Rate to include galvernized to detail.	92.00	m			
4E/07	- Ditto - pasty shop.	67.00	m			
4E/08	- Ditto - Wash room.	36.00	m			

## BILL OF QUANTITIES

**CEYLON PETROLEUM CORPORATION**

**JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION**

**MUTHURAJAWELA.**

**B.O.Q. No. 2025 /MUTHU /01 / 04 - BUILDING WORKS**

Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
	<b><u>Suspension ceiling</u></b>					
	<b>Note</b>					
4E/09	Supply and installation of Aluminium powder coated metal ceiling panel 600mm x 600mm x 2mm (colour white) with interlocking. G.I. hot dipped powder coated type frame work. suspension will be G.I. 4mm thick adjustable hanger rod system. ceiling shall be installed in horizontal manner with shallow gap. complete ceiling system to Engineers's approval.	37.50	m2			
4E/10	- Ditto - pasty shop.	28.00	m2			
4E/11	- Ditto - Wash room.	8.50	m2			
4E/12	Supply and installation of flat Asbestos ceiling sheet on timber frame work consisting of 50mm x 50mm joists and bearers in building eaves ceiling. The sheets to be fixed to timber frame work leaving 6mm V groves and 37mm x 37mm Halmilla moulding round the edges where the ceiling meets the walls. Rate shall include for applying two coats of wood preservative of all timber surface and applying one coat of primer and two coats of emulsion paint .	19.50	m2			
4E/13	- Ditto - pasty shop.	24.50	m2			
4E/14	- Ditto - Wash room.	21.25	m2			
4E/15	Supply and fixing Colour Bonded Zinc Aluminium 225mm x 225mm gutters with a coated thickness of 0.47 mm all as per manufactures specification and details drawings in roof. Rate shall include for all necessary specials. (down pipes measured separately)	18.00	m			
4E/16	- Ditto - pasty shop.	30.00	m			
4E/17	- Ditto - Wash room.	9.00	m			

**BILL OF QUANTITIES****CEYLON PETROLEUM CORPORATION****JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION****MUTHURAJAWELA.****B.O.Q. No. 2025 /MUTHU /01 / 04 - BUILDING WORKS**

Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
4E/18	Supply and fixing Colour Bonded Zinc Aluminium down pipe 125mm x 87.50mm square type with a coated thickness of 0.47mm fixed with G.I. brackets complete with specials and embeded in concrete column connection to external rain water canales.	15.00	m			
4E/19	- Ditto - pasty shop.	10.00	m			
4E/20	- Ditto - Wash room.	10.00	m			
4E/21	Supply and fixing 225mm x 25mm timber valance board and barge board (Ginisapu timber or approved equivalent). Rate to include one coat of wood primer and two coats of enamel paint.	26.00	m			
4E/22	- Ditto - pasty shop.	30.00	m			
4E/23	- Ditto - Wash room.	23.00	m			
4E/24	Supply and fixing 0.47mm thick Zn / Al plain sheet flashing (50mm embedded to wall) The width of the flashing should not be less than 600mm.	11.50	m <sup>2</sup>			
<b>ROOFING WORK TOTAL CARRIED TO BILL NO.4 SUMMARY</b>						

**BILL OF QUANTITIES**

**CEYLON PETROLEUM CORPORATION**

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Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
<b>4F/-</b>	<b><u>FINISHES WORK</u></b>					
4F/01	Laying gauge 500 polythene layer under the floor concrete. (building area)	60.00	m <sup>2</sup>			
4F/02	- Ditto - pasty shop.	55.00	m <sup>2</sup>			
4F/03	- Ditto - Wash room.	26.00	m <sup>2</sup>			
4F/04	Supply and laying of Ceramic non slip tiles (600mm x 600mm ) of approved size quality and design to toilet floor area . Rate to include 12mm thick cement rendering 1:3 to floor before laying tiles and dressing grooves with coloured cement slurry after fixing tiles as directed (Prime cost of Tile Rs 1800.00 per Tile ) (ground floor)	7.00	m <sup>2</sup>			
4F/05	- Ditto - Wash room.	8.50	m <sup>2</sup>			
4F/06	Supply and laying of Homogeneous non slip tiles (600mm x 600mm) on tile adhesives of approved quality and design to all floor area in building . Rate to include 12mm thick cement rendering 1:3 to floor before laying tiles and dressing grooves with coloured cement slurry after fixing tiles as directed and 100mm high skirtings (Prime cost of a Tile Rs 2500.00 per Tile ).	34.00	m <sup>2</sup>			
4F/07	- Ditto - pasty shop.	28.50	m <sup>2</sup>			
4F/08	Supply and laying of Glazed tiles (300mm x 600mm )of approved size and design to walls of toilets up to 1500mm height. Rate to include 12mm thick cement rendering 1:3 to wall surfaces before fixing tiles and dressing grooves with white cement slurry after fixing as directed. (Prime cost of a Tile Rs800.00 per Tile )	40.00	m <sup>2</sup>			
4F/09	- Ditto - Wash room.	36.50	m <sup>2</sup>			
4F/10	16mm thick cement sand plaster 1:5 to internal surfaces of walls and columns finished smooth with wall putty.	175.00	m <sup>2</sup>			

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Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
4F/11	- Ditto - pasty shop.	22.50	m <sup>2</sup>			
4F/12	- Ditto - Wash room.	18.00	m <sup>2</sup>			
4F/13	-Ditto - Preparing reveals not exceeding 300mm wide	150.00	m			
4F/14	- Ditto - pasty shop.	50.00	m			
4F/15	- Ditto - Wash room.	22.00	m			
4F/16	16mm thick cement sand plaster 1:5 to external surfaces of walls and columns finished semi rough with wooden float.	100.00	m <sup>2</sup>			
4F/17	- Ditto - pasty shop.	22.00	m <sup>2</sup>			
4F/18	- Ditto - Wash room.	37.00	m <sup>2</sup>			
4F/19	16mm' thick cement rendering in pavement 1:3 cement sand to floor finished smooth with coloured cement slurry.	25.00	m <sup>2</sup>			
4F/20	- Ditto - pasty shop.	26.00	m <sup>2</sup>			
4F/21	- Ditto - Wash room.	17.00	m <sup>2</sup>			
<b>FINISHES WORK TOTAL CARRIED TO BILL NO.4 SUMMARY</b>						
4G/-	<b><u>PLUMBING AND DRAINAGE WORK</u></b>					
	<b><u>Cold water installation</u></b>					
4G/01	63mm diameter Grade 1000 uPVC solvent socketed pipes, with necessary specials, laid in trenches not exceeding 1 m deep,.	6.00	m			
4G/02	63mm diameter Grade 1000uPVC solvent socketed pipes, with necessary specials, laid in chases and clipped in brick / concrete surface in internal distribution system.	6.00	m			



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Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
4G/03	--- ditto --- 50mm diameter	25.00	m			
4G/04	32mm diameter Grade 1000 uPVC solvent socketed pipes with and including all necessary specials, laid in trenches not exceeding 1 m deep in garden water supply network.	30.00	m			
4G/05	32mm diameter Grade 1000 uPVC solvent socketed pipes with and including all necessary specials, laid in chases and clipped in brick / concrete surface in internal distribution system.	10.00	m			
4G/06	25mm diameter Grade 1000 uPVC solvent socketed pipes with and including all necessary specials, laid in chases and clipped in brick / concrete surface in internal distribution system.	5.00	m			
4G/07	20mm diameter Grade 1000 uPVC solvent socketed pipes with and including all necessary specials, laid in chases and clipped in brick / concrete surface in internal distribution system.	45.00	m			
	<b><u>Soil &amp; Waste water installation</u></b>					
4G/08	110 mm diameter soil pipe, grade 600, rubber ring socketed uPVC, with all necessary specials, laid from manhole including all necessary excavation not exceeding 1.5M deep, earth work and 375mm x 375mm grade15 concrete backing and haunching at minimum 1.0m intervals.	35.00	m			
4G/09	- Ditto - 50 mm diameter waste pipe	50.00	m			

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Item	Description	Qty.	Unit	Rate	Amount Rs. Cts.
4G/10	<p><b><u>Storm water installation</u></b>                      110 mm diameter soil pipe, grade 400, rubber ring socketed uPVC, with all necessary specials, laid from manhole including all necessary excavation not exceeding 1.5M deep, earth work and 375 x 375mm grade15 concrete backing and haunching at minimum 1.0m intervals.</p> <p><b><u>Sanitary Fittings and toilet accessories</u></b>  <b>Note</b>                      (a) Contractor to purches all items from the agent with agent warranty and invoice.                      Samples and technical deta / catalogue to be submitted and obtained approval from the client before purchasing the materials.</p> <p>(b) All taps and accessories to be ' HUIDA ' (Reform Ceramic (pvt) Ltd , or ' HAGAR ' (Rajabdeen &amp; sons Ltd)</p> <p>(c) All sanitary fittings to be following or equivalent American standard (Agent Key Group Three (private ) Ltd, Rocell (Agent Royal Ceramic Lanka PLC ) or Cotto (Agent Rifirm international (Pvt) Ltd)</p> <p>(d) All connections to appliances shall be through 20mm diameter cromium plated angle valve (Agent Raniyo (Pvt) Ltd, Peglar No -1 or equivalent) and connected to fittings with 20mm diameter cromium plated flexible pipe (Amirican standard , manufactured Thailand or equalant ) approved by Engineer.</p>	18.00	m		

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Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
4G11	Supply and installation pedestal type ceramic wash basin (white )22" x 15 " overall size with 20mm dia cromium plated piller tap and other necessary accessories including water supply and waste water connection . All complete to working order.(Prime cost of wash basin with fitting -Rs 40,000 /= per No)	3.00	Nos			
4G12	-Ditto - Wall mounted wash basin	2.00	Nos			
4G13	Supply and installation of ceramic 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 80,000 /= per No)	2.00	Nos			
4G14	Supply and installation of ceramic squatting pan with cistern flushing system with concealed valve and piping arrangement.(Prime cost of ceramic squatting pan with fittings -Rs 20,000 /= per No)	1.00	Nos			
4G15	Supply and installation of ceramic urinals with flushing system with concealed valve and piping arrangement.(Prime cost of ceramic squatting pan with fittings -Rs 35,000 /= per No)	3.00	Nos			
4G16	Supply and Installation of Cromium plated 20mm dia bib tap .(Prime cost of bib tap -Rs 1750 /= per No)	5.00	No			
4G17	Supply and installation of bidet shower.(Prime cost of bidet shower with fittings - Rs 2500 /= per No) .	2.00	No			
4G18	Supply and installation of 100mm dia stainless steel shower rose.(Prime cost of shower rose with fittings - Rs 2500 /= per No)	2.00	No			
4G19	Supply and installation of stainless steel towel rail .(Prime cost of stainless steel towel holder with fittings -Rs 2900 /= per No)	3.00	No			

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Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
4G20	Supply and installation of stainless steel coat hook.(Prime cost of stainless steel coat hook. - Rs 1750 /= per No)	3.00	No			
4G21	Supply and installation of stainless steel soap tray .(Prime cost of stainless steel soap tray with fittings Rs 2750 /= per No)	6.00	No			
4G22	Supply and installation of 20mm dia concealed valve.(Prime cost of 20mm dia concealed valve -Rs 1750 /= per No)	2.00	No			
4G23	Supply and installation of mirror 450mm dia .(Prime cost of mirror 450mm dia - Rs3750 /= per No)	5.00	No			
4G24	Supply and installation of 20mm dia garden tap .(Prime cost of 20mm dia garden tap - Rs 1750 /= per No)	1.00	No			
	<b><u>Gate valves</u></b>					
4G/25	20mm dia gate valves(Prime cost of 20mm dia gate valves - Rs 1200 /= per No)	3.00	No			
4G/26	32mm dia gate valves (Prime cost of 32mm dia gate valves - Rs 2350 /= per No)	3.00	No			
4G/27	25mm dia ball valve(Prime cost of 25mm dia ball valve - Rs 2000 /= per No)	1.00	No			
4G/28	25 mm dia non return valve(Prime cost of 25 mm dia non return valve - Rs 2900 /= per No)	1.00	No			
	<b><u>Builders works</u></b>					
4G/29	150 mm x 150 mm x 125 mm deep injection moulded PVC floor trap (catchpit) with stainless steel grating on top and set in concrete and connected to waste water lines.	6.00	No			

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Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
4G/30	Waste water gully internal size 225mm x 225mm x300mm deep in concrete floor including 130mm thick grade 15 concrete screed and 16mm thick 1:3 rendering to all exposed surfaces and finished smooth with neat cement float. Rate to include for necessary earthwork, grouting etc.	5.00	No			
4G/31	Sewer manhole 450x 450mm and average depth not exceeding 500mm internally with and including all necessary excavation, earthwork, 125mm thick grade '30 concrete base, one brick thick brick walls, cement plasterwork, grade 20 rebated concrete pad on 10mm diameter tor steel bars at 20 mm crs and 100 mm thick concrete cover slab.	4.00	No			
4G/32	1200mm dia and 2400mm deep (internal) waste water soakage pit. The pit wall to be built in 225 brick work in cement with 1:5 alternate open joints as directed. rate to include 125mm thick concrete cover slab 1:2:4 (20)r/f with 12 mm dia tor bars at 150mm crs. bothways, and 16mm thick cement rendering 1:3 finish smooth. provide for in to 225x225mm concrete 1:2:4 (20mm) rebated pad to accomodate the cover	1.00	No			
4G/33	1800x900x1650 ( internal )septic tank with 1200x900x1650 ( internal ) attached soakage pit as shown in drawing. The septic tank base to be in 150mm thick concrete 1:2:4( 20) r/f with 10mm dia. Tor bars at 200 crs. bothways. 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. 225x225 R.C.C. ring beam under soakage pit, 2 Nos.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	No			
4G/34	Supply and install plastishell 2000 Litr. water tank over the concrete toilet roof slab. Approved by the engineer.	1.00	No			
<b>PLUMBING AND DRAINAGE WORK TOTAL CARRIED TO BILL NO.4 SUMMARY</b>						

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Item	Description	Qty.	Unit	Rate	Amount Rs. Cts.
4H/-	<p><b><u>ELECTRICAL INSTALLATION</u></b></p> <p><b><u>Note</u></b></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> <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>				

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Item	Description	Qty.	Unit	Rate	Amount Rs. Cts.
4H/01	<p><b><u>ALL ELECTRICAL PANEL BOARDS SHOP DRAWINGS SHOULD SUBMIT BY THE CONTRACTOR FOR THE ENGINEER APPROVAL BEFORE SUPPLY &amp; INSTALLATION.</u></b></p> <p><b><u>Main Distribution Board</u></b> 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><b><u>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.</u></b></p> <p>Surge protection for Main Distribution Board shall be provided at main busbars, with proper earthing and necessary protection.</p> <p><b><u>Make of MCCBs and MCBs, etc shall be ABB, Terasaki, Siemens or equivalent make approved by the Electrical Engineer.</u></b></p> <p>Incoming Circuit Breakers 01 No.63A, 4P MCCB (25kA fault level) ATS with Mechanical &amp; Electrical Interlock 02 No. 63A, 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>Outgoing Circuit Breakers <b><u>01 No.63A, 4P MCCB (25kA fault level)</u></b> <b><u>01 No. 32A 4P MCB Type C</u></b> 02 Nos. 32A, 2P MCB Type B 01 Nos. 20A, 2P MCB Type C</p> <p>1 set of Voltage/Current surge arrestors for three phase &amp; neutral (3P+N) 20KV/40 KA Max</p>				

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Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
4H/02	2 Sets of indicator bulbs for three phases with protection. 02 Nos. of Ammeters for 3 Phases (0 - 100A) with selector switch 02 No. of Voltmeters ( 0 - 500V) with selector switch All internal connections including 100A Live and Neutral bus bars, Earth bar etc. Equipment to be to the BS and European/Japanese make Consumer Unit (CU)	1.00	No			
4H/02.1	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. 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 <b>02 No. 10A 1-Pole MCB 6kA type B</b> 03 No. 16A 1-Pole MCB 6kA type B 01 No. 20A 1-Pole MCB 6kA type B <b>1 Set of Live &amp; Neutral bus bars</b> Earth Bar 1 Set of indicator bulbs for three phases with protection. All internal connections. Equipment to be to the BS and European/Japanese make	1.00	No			
4H/02.2	CU-02(Cafe) 01 No. 32A, 2-pole MCB 10kA type B <b>0 1No. 40A, 2-Pole RCCB 30mA</b> 03 No. 6A 1-Pole MCB 6kA type B 01 No. 10A 1-Pole MCB 6kA type B 02 No. 16A 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. Equipment to be to the BS and European/Japanese make	1.00	No			



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Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
4H/02.3	CU-03(Pump Panel) <b>01 No. 32A 4-pole MCB Type C</b> 03 No. 32A, 2-pole MCB 10kA Type C 06 No. 16A 2-Pole MCB TypC <b>06 No. 20A, 2-Pole RCCB 100mA</b> 1 Set of Live & Neutral bus bars Earth Bar 1 Set of indicator bulbs for three phases with protection. All internal connections. Equipment to be to the BS and European/Japanese make	1.00	No			
4H/03	<b><u>Point wiring including switches (Luminaries measured separately)</u></b>					
4H/03.1	Lamp point wire through a 10Amp. Sunk Switch using 2x1Cx 1.0mm <sup>2</sup> Cu/ PVC/PVC insulated copper wire in concealed PVC conduits	65.00	No			
4H/03.2	Logo point wire through a 10Amp. Sunk Switch using 2x1Cx 1.0mm <sup>2</sup> Cu/ PVC/PVC insulated copper wire in concealed PVC conduits	1.00	No			
4H/03.3	Wall fan points wire using 2x1Cx1.0mm <sup>2</sup> Cu/PVC insulated copper wire and 1x1Cx2.5mm <sup>2</sup> Cu/ PVC insulated copper earth wire in concealed PVC conduits	2.00	No			
4H/03.4	Ceiling fan points wire through regulator & 10Amp sunk switch using 2x1Cx1.0mm <sup>2</sup> Cu/PVC insulated copper wire and 1x1Cx2.5mm <sup>2</sup> Cu/ PVC insulated copper earth wire in concealed PVC conduits	2.00	No			
4H/04	Supply Install & wire the following					
4H/04.1	Flush mounted 13A Switched socket outlets Wired using 2x1Cx2.5mm <sup>2</sup> Cu/ PVC/PVC insulated copper wire and 1x1Cx2.5mm <sup>2</sup> Cu/ PVC insulated copper earth wire in concealed PVC conduit.	9.00	No			

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Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
4H/04.2	<p>Yard light point wired from 20 A double pole indicator switch using 2C x 1 x 1.5mm<sup>2</sup> Cu/PVC /SWA/PVC copper cable installed minimum 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</p> <p>(a) . IP65/IP66 wather proof Junction Box with 20A double pole indicator switch</p> <p>(b) . For the wiring</p>	6.00	No			
4H/04.3	<p><b><u>Supply for signage tower wire from double using 2C x 1 x 1.5mm<sup>2</sup> 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</u></b></p> <p>(a) . IP65/IP66 wather proof Junction Box to terminate the lamp &amp; main wiring to 20A double pole indicator switch</p> <p>(b) . For the wiring</p>	1.00	no			
4H/04.4	<p>Supply for air tower wire 2CX1x1.5 mm<sup>2</sup> CU/PVC/SWA/PVC to a weather proof outlet using necessary sunk boxes etc. to a suitable point near air tower 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</p> <p>(a) . 13Amp switched socket outlet with weather proof (IP65) enclouser</p> <p>(b) . For the wiring</p>	1.00	No			
		60.00	m			

## BILL OF QUANTITIES

**CEYLON PETROLEUM CORPORATION**

**JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION**

**MUTHURAJAWELA.**

**B.O.Q. No. 2025 /MUTHU /01 / 04 - BUILDING WORKS**

Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
4H/04.5	Air compressor wired through a 20A 2pole MCB & 20A 2 Pole RCCB 100mA switch using 2Cx4mm <sup>2</sup> Cu/PVC/PVC insulated copper wire in PVC conduit <b><u>(a) . 20A 2 pole MCB &amp; 20A 2Pole RCCB 100mA with Polycarbonate enclosure</u></b>	1.00	No			
	(b) . For the wiring	10.00	m			
4H/05	Supply, install and connect  2Cx 1 x 2.5mm <sup>2</sup> 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	135.00	m			
4H/06	<b>Light Fittings</b> Supply and installation of following light fittings. Light fitting shall be of high quality and shall be subjected to the approval of the Electrical Engineer prior to the installation. CFL bulbs shall be of integral electronic ballast type with minimum 3 star rating and minimum lifetime of 8000 hrs.					
4H/06.1	Recessed canopy light fitting complete with 42W LED bulb and other necessary accessories	24.00	No			
4H/06.2	Supply and installation of sofit/ceiling mount lamp fitting comprising, 18W LED lamp (day light) and all other accessories required(SQUARE TYTPE)	7.00	No			
4H/06.3	Street light fittings(IP65) with 100W LED bulb & arm with other required accessories	6.00	No			
4H/06.4	Weather proof (IP 65)Pendant lamp fitting with 12 w LED daylight bulb for D/LP92 terminal outside	1.00	No			

**BILL OF QUANTITIES**

**CEYLON PETROLEUM CORPORATION**

**JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION**

**MUTHURAJAWELA.**

**B.O.Q. No. 2025 /MUTHU /01 / 04 - BUILDING WORKS**

Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
4H/06.5	Supply and installation of Ceiling mount lamp fitting comprising, 12W LED lamp (day light) and all other accessories required for Pastry Shop	9.00	No			
4H/06.6	Weather proof Bollard(IP 65) lamp fitting with 11 w LED daylight bulb	14.00	No			
4H/06.7	Sofit mount (IP21) lamp fitting with 12W LED daylight	6.00	No			
4H/06.8	Wall mount weather proof (IP65) lamp fillting with 12W LED bulb for Pastery Shop	3.00	No			
4H/06.9	9W 2 feet LED light fittings with accessories for AC/Gen Room	2.00	No			
4H/06.10	Supply & installation of 56" sweep ceiling fan (European/Japanese make),minimum 165 CMM, complete with regulator, fan hook, extension rod & attachment - Guarantee cards should be provided from accredited agent.	2.00	No			
4H/06.11	Supply & installation of 16" wall fan (European/Japanese make),complete all accessories - Guarantee cards should be provided from accredited agent. Note: 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.	2.00	No			
4H/07 4H/07.1	Supply, install and Wire Following Earth Electrode provide an earth electrode using 16 diameter CU Rod of 4m length, clamp and other accessories and 2.5mm2 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.	1.00	Item			

## BILL OF QUANTITIES

**CEYLON PETROLEUM CORPORATION**

**JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION**

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**B.O.Q. No. 2025 /MUTHU /01 / 04 - BUILDING WORKS**

Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
4H/07.2	provide an earth electrode using 16 diameter CU Rod of 4m length, clamp and other accessories and 2.5mm <sup>2</sup> CU/PVC/PVC eart wire to comply with ICTAD regulations. Rate shall include excavation, backfilling, etc. Earth resistance to be below 10 Ohms.	1.00	Item			
4H/08	Supply , Connect and install the Following Cables					
4H/08.1	1x4Cx10 mm <sup>2</sup> CU/PVC/PVC Cable from CEB Meter to MDB in concealed PVC conduit	21.00	m			
4H/08.2	1x2Cx6mm <sup>2</sup> CU/PVC /PVC cable & 1 x 6mm <sup>2</sup> copper earth cable from MDB to CU1 in PVC conduit	5.00	m			
4H/08.3	1x2Cx6mm <sup>2</sup> CU/PVC /PVC cable & 1 x 6mm <sup>2</sup> copper earth cable from MDB to CU2 in GI conduit buried to Pastry Shop	10.00	m			
4H/08.4	1x4Cx6mm <sup>2</sup> CU/PVC /PVC cable & 1 x 6mm <sup>2</sup> copper earth cable from MDB to CU3 in PVC conduit	5.00	m			
4H/08.5	1x4Cx10mm <sup>2</sup> CU/PVC/PVC cable from Generator to MDB in PVC conduit	10.00	m			
4H/09	GI Pipe to fix LED street light 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	6.00	No			
4H/10	Inspection & Testing Testing the entire installation and rectify any defects and submit a certificate by a chartered electrical engineer for electrical installation	1.00	item			
<b>ELECTRICAL INSTALLATION TOTAL CARRIED TO BILL NO.4 SUMMARY</b>						

**BILL OF QUANTITIES****CEYLON PETROLEUM CORPORATION****JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION****MUTHURAJAWELA.****B.O.Q. No. 2025 /MUTHU /01 / 04 - BUILDING WORKS**

Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
4J	<b><u>PAINING</u></b>					
4J/01	Prepare surface and apply one coat of approved primer and two coats of master palatte emulsion paint of an approved colour and quality to internal wall surface including reveals in building	175.00	m <sup>2</sup>			
4J/02	- Ditto - pasty shop.	23.00	m <sup>2</sup>			
4J/03	- Ditto - Wash room.	18.00	m <sup>2</sup>			
4J/04	Prepare surface and apply one coat of acrylic primer and two coats of master palatte weather shiled paint of an approved colour and quality to external wall surface including reveals in building	100.00	m <sup>2</sup>			
4J/05	- Ditto - pasty shop.	23.00	m <sup>2</sup>			
4J/06	- Ditto - Wash room.	37.00	m <sup>2</sup>			
<b>PAINING WORK TOTAL CARRIED TO BILL NO.4 SUMMARY</b>						

**BILL OF QUANTITIES  
CEYLON PETROLEUM CORPORATION  
JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION  
MUTHURAJAWELA.  
B.O.Q. No. 2025 /MUTHU /01 / 04 - BUILDING WORKS**

**BILL 04 - BUILDING WORKS**

**S U M M A R Y**

ITEM	DESCRIPTION	AMOUNT
4A	EXCAVATION AND EARTH WORK	-
4B	CONCRETE WORK	-
4C	RUBBLE AND BRICK WORK	-
4D	ALUMINIUM DOORS AND WINDOWS	-
4E	ROOFING WORK	-
4F	FINISHES WORK	-
4G	PLUMBING AND DRAINAGE WORK	-
4H	ELECTRICAL INSTALLATION	-
4J	PAINTING	-
<b>TO BILL NO 04 TOTAL CARRIED TO MAIN  SUMMARY                      Rs.</b>		-

## BILL OF QUANTITIES

CEYLON PETROLEUM CORPORATION

**JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION**

**MUTHURAJAWELA.**

**B.O.Q. No. 2025 /MUTHU /01 / 05 - CANOPY**

Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
	<b><u>BILL NO- 05 - CONSTRUCTION OF CANOPY</u></b>					
<b>5A/-</b>	<b><u>EXCAVATION AND EARTH WORK</u></b>					
5A/01	Excavation for column pits depth not exceeding 3.5m from finished ground level.	86.00	m <sup>3</sup>			
5A/02	Supply, filling and compacting Quarry dust 20 volume with 1 volume of cement mix to obtain degree of compaction 97% need to be placed in layers not exceeding 300mm and compact by using porker vibrator to acheve maxume density.	75.00	m <sup>3</sup>			
	<b><u>Earthwork support</u></b>					
5A/03	Earthwork support for column foundation .	150.00	m <sup>2</sup>			
<b>5B/-</b>	<b><u>CONCRETE WORK</u></b>					
	<b><u>Plain concrete - Grade -20</u></b>					
5B/01	50mm thick concrete screed under column footings.	19.50	m <sup>2</sup>			
	<b><u>Reinforced cement concrete - Grade - 25</u></b> <b>(Reinforcement measured separately)</b>					
5B/02	450mm thick column footings	9.00	m <sup>3</sup>			
5B/03	In column base up to ground level	1.75	m <sup>3</sup>			
5B/04	In Tie beam	1.75	m <sup>3</sup>			
5B/05	In column ground up to roof level	6.00	m <sup>3</sup>			
	<b><u>Reinforcement</u></b>					
5B/06	12mm tor steel in column footing	560.00	Kg			
5B/07	16mm tor steel in column	85.00	Kg			
5B/08	20mm tor steel in column	1,800.00	Kg			
5B/09	8mm mild steel in columns	330.00	Kg			
	<b><u>Formwork</u></b>					
5B/10	To vertical sides of coloumn	110.00	m <sup>2</sup>			



**BILL OF QUANTITIES**

**CEYLON PETROLEUM CORPORATION**

**JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION**

**MUTHURAJAWELA.**

**B.O.Q. No. 2025 /MUTHU /01 / 05 - CANOPY**

Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
5B/11	<b>Pump Island</b> 750mm wide 300mm high pump Island in 100mm block or half brick walls filled with river sand and 75mm thick 1:3:6 (25m) concrete on top finished with black Ceramic tiles of approved size and design to pump bed . Rate to include 12mm thick cement rendering 1:3 before laying tiles and dressing with colour cement slurry after fixing tiles as directed	16.00	m			
5C/- 5C/01	<b>ZINC ALUMINIUM ROOFING IN CANOPY</b> Zinc Aluminium Colour bonded AZ - 200 corrugated roofing sheets of approved profile (not less than 0.47mm total coated thickness and with outstanding corrosion resistance), approved quality and colour on steel frame work as shown in drawing in canopy (Frame work measured separately) .	305.00	m <sup>2</sup>			
5C/02	150mm Aluminium strip ceiling with all necessary Aluminium accessories as per details given profile to be approved by the engineer. Method of fixing should be capable to take the maximum wind load of 193 kph ( 120mph). Rate to include for necessary work and fixtures as per manufactures and as approved bey the Engineer.All completed as directed.	295.00	m <sup>2</sup>			
5C/03	Approved 4mm thick 1hr fire rated mineral core Aluminium Composite sheets Alpolic or equivalent fascia (not less than 0.49mm total coated thickness) of approved quality and colour on steel frame work as per fixing details in drawing to engineer's approval.	95.00	m <sup>2</sup>			
5C/04	Approved 4mm thick 1 hr fire rated mineral core Aluminium Composite panel , Alpolic or similar material including necessary 100x20x2mm and 60x30x2mm Galvernized "C" channel frame work to detail and approval around columns	90.00	m <sup>2</sup>			

## BILL OF QUANTITIES

CEYLON PETROLEUM CORPORATION

**JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION**

**MUTHURAJAWELA.**

**B.O.Q. No. 2025 /MUTHU /01 / 05 - CANOPY**

Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
5C/05	Colour Bonded Zinc Aluminium 300mm x 225mm gutters with a coated thickness of 0.47 mm all as per manufactures specification and details drawings in roof. Rate shall include for all necessary specials. (down pipes measured separately)	30.00	m			
5C/06	Colour Bonded Zinc Aluminium down pipe 125mm x 87.50mm square type with a coated thickness of 0.47mm fixed with G.I. brackets complete with specials and embeded in concrete column connection to external rain water canales.	23.00	m			
5C/07	Supply and fixing 0.47mm Zn / Al plain sheet flashing to canopy roof . The width of the flashing should not be less than 600mm	50.00	m <sup>2</sup>			
<b><u>STRUCTURAL STEEL WORK</u></b>						
<b>Painting of Steel</b>						
<b>The bidder should refer the Notes in in the attached drawing No 6 of 9 of project No p/DEC/19/1890 for steel selection , preparation , Galvernizing and coating of steel</b>						
5C/08	Supply and fixing canopy roof truss " <b>Type -01</b> " as per detail drawing ( Length 10.2m ). Rate to include paint to detail	4.00	Nos			
5C/09	Supply and fixing canopy roof truss " <b>Type -02</b> " as per detail drawing ( Length 10.2m ). Rate to include paint to detail	3.00	Nos			
5C/10	Supply and fixing canopy roof truss " <b>Type -03</b> " as per detail drawing ( Length 10.2m ). Rate to include paint to detail	2.00	Nos			
5C/11	Supply and fixing canopy roof truss " <b>Type -04</b> " as per detail drawing ( Length 28.5m ) . Rate to include paint to detail.	2.00	Nos			
5C/12	Supply and fixing of 150mm x 65mm x 20 x 3 mm "C" purlin as per detail drawing. Rate to include paint to detail.	440.00	m			

**BILL OF QUANTITIES****CEYLON PETROLEUM CORPORATION****JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION****MUTHURAJAWELA.****B.O.Q. No. 2025 /MUTHU /01 / 05 - CANOPY**

Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
5C/13	<b><u>Fascia of canopy</u></b> Supply and fixing 60 x 30 x 2.3mm galvanized "C" section in canopy fascia frame as shown in drawing	400.00	m			
5C/14	Supply and fixing 10mm thick 950 x 950mm base plate on top of column	8.00	No			
5C/15	16mm J bolts embeded on top of coloumn	64.00	No			
5C/16	Supply , fabricate and fixing 63mm dia Heavy duty GI pipe pump guard as per detail drawing CEYPET/ENG/00.. and as directed	6.00	No			
<b>TO BILL NO 05 CANOPY TOTAL CARRIED TO MAIN SUMMARY</b>				<b>RS</b>		

## BILL OF QUANTITIES

CEYLON PETROLEUM CORPORATION

**JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION  
MUTHURAJAWELA.**

**B.O.Q. No. 2025 /MUTHU /01 / 06 - MISCELLANEOUS WORK**

Item	Description	Qty.	Unit	Rate	Amount		
					Rs.	Cts.	
<b><u>BILL NO- 06 - DRIVE WAY &amp; MISCELLANEOUS WORK</u></b>							
4A	<b><u>DRIVE WAY</u></b>						
	<b>Paving Blocks</b>						
	<b>Notes</b>						
		Paving blocks should be purchased from a well reputed manufacturer and should have at least compressive strength equivalent to Grade 30 concrete.(Test report to be submitted) The colour should be absolute black size of the paving stone should be 220mm x 110mm and height 80mm					
	6A/01	Paving stone should be supplied and placed on 50mm (min) sand bedding on the well compacted soil to the specified slope. Edges of the paving should be finished with mass concrete equivalent to paving stone strength.	1700.0	m <sup>2</sup>			
6A/02	Supply and fixing 900mm x 150mm x 225 mm Precast cement kerbs to detail with all necessary excavation, formwork and concrete etc.	50.0	m				
6A/03	Supply , filling and compacting gravel approved by Engineer to required density using 8 ton vibrator roller (minimum 6 passes at a time with necessary watering). maximum height of a layer should be 150mm. (Measurments for the Compacted Volume)	10.0	m <sup>3</sup>				
6A/04	<b><u>Turfing</u></b> Turfing (Buffalo Grass) as specified	150.0	m <sup>2</sup>				

## BILL OF QUANTITIES

**CEYLON PETROLEUM CORPORATION**

**JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION  
MUTHURAJAWELA.**

**B.O.Q. No. 2025 /MUTHU /01 / 06 - MISCELLANEOUS WORK**

Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
	<b><u>Fuel dispensing pipe lines</u></b>					
6A/05	Supply and laying 37.5 dia GI heavy duty pipe from underground tank to dispensing pump. Rate to include all accessories / fittings as required based on the shop drawing prepared by the contractor and approved by the Engineer , 300 mm wide 450mm deep trench excavation and back filing with river sand and compacted to approval	150.0	m			
6A/06	- Ditto - vent pipe . Rate to include applying two coats of anticorrosive paint	90.0	m			
6A/07	Supply and laying 75mm dia (3") GI heavy duty unloading pipe . Rate to include all accessories / fittings as approved by the Engineer	65.0	m			
6A/08	Supply and fixing of tank Top valve	10.0	m			
6B/-	<b><u>FABRICATION AND INSTALLATION OF PYLON SIGNAGE</u></b>					
	a). Base for signage shall be 5'-0" x4'-0"x4'-0" deep grade 25 concrete, reinforced with 16mm and 12mm tor steel, with 20mm thread bars to fix the body using galvanized nuts & bolts. Body should be fixed using 20mm thick mild steel plates (size varies according to the size of base) The plates should be concealed.					
	b). Double sided signage will have a 4" "U" channels fixed to both sides of the pylon reinforced with 1"x2" square tubes (2Nos. On each side) to mount the cladding and with 2"x2"x6mm angle iron horizontal bracings at 18" intervals on both sides of the structure with an additional 1"x6mm thick mild steel flat iron, bent to required shape to hold the cladding.					
	c). 4'-0" diameter circular pylon head structure (logo supporting structure) to be manufactured with 1 1/2" x 3/8" thick flat iron circles (2 Nos) braced at 8 points around the flat iron with same size flat iron. This structure will be fixed to the pylon structure via a 4" diameter G.I. hollow pipe, (Heavy duty)spray painted fixed with nuts and bolts.					

## BILL OF QUANTITIES

CEYLON PETROLEUM CORPORATION

**JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION  
MUTHURAJAWELA.**

**B.O.Q. No. 2025 /MUTHU /01 / 06 - MISCELLANEOUS WORK**

Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
	<p><b><u>The entire steel frame structure to be hot dipped galvanized.</u></b></p> <p>d). No drilling or welding to be carried out after galvanizing process is completed.</p> <p>e). The entire signage fascia shall be colour bonded sheets of 0.47 mm thick AZ 150 sheets riveted to steel frame work.</p> <p>f). All illuminated sections of the pylon to be (Company logo) fabricated using 3mm acrylic (perspex) sheets with the embossed figure at the center and wording at edges as specified from the same material.</p> <p>g). The Signage should be provided with adequate lighting by use of 3Nos 18w 2'-0" florescent lights (European make with 2 Year warranty) wired separately from the bottom to top through conduits. External illumination should be provided with 2 Nos Assymmetrical type flood lamps with 250w mercury vapour lamp (IP 65) fix to the top of the structure. Wiring to be done with 2 x 1C x 1 mm<sup>2</sup> cu/PVC/ wire. with a suitable way to the Engineer's satisfaction with a supportive structure. All materials including conduit (under ground) and wiring from the available supply point (approximately 50m) to be included in the rate.</p> <p>i). Letters to be with PVC luminous stickers on the colour bonded sheets as per the font, letter type, colour and wording given by the CPC</p> <p>j). The sticker colour should match with "POST OFFICE RED" colour, translucent cast vinyl film, clear pressure sensitive adhesive.</p> <p>k). The number of modules will change from site to site with wordings. The format will be informed by the client after confirmation.</p>					

## BILL OF QUANTITIES

**CEYLON PETROLEUM CORPORATION**

**JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION  
MUTHURAJAWELA.**

**B.O.Q. No. 2025 /MUTHU /01 / 06 - MISCELLANEOUS WORK**

Item	Description	Qty.	Unit	Rate	Amount	
					Rs.	Cts.
	<p>l). Whole art work should be done by the contractor and the approval should be obtained from the CPC prior to fabrication.</p> <p>m). The successful tender should submit a <b>guarantee for a minimum period of 10 years for anticorrosion of structure stability, and 05 years warranty to the colours of PVC stickers.</b></p> <p>n). The rate shall include for the transporting handling and all other involment in the erection signages at outstations.</p> <p>The proposed outstations are attached herewith.</p>					
6B/01	Supply ,fabricate and install of 1200mm x 5500mm double sided pylon signage as per specification and detailed drawing	1.0	Nr			
6C/-	<b><u>Fabricate, Installation of Logo, Lettering and Colour Bands</u></b> <b><u>Detail of Fabrication</u></b>					
6C/01	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			
4C/02	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			
4C/03	Supply and install Twin colour coposite cladding pannel with 1 No 200mm Red band and 2 No 100mm white bands to canopy fascia as per detail drawing No CEYPET / ENG/ SK/0365	80.00	m			
<b>TO BILL NO 06 DRIVE WAY &amp; MISCELLANEOUS WORK TOTAL</b>						
<b>CARRIED TO MAIN SUMMARY</b>				<b>RS</b>		

**BILL OF QUANTITIES**

**CEYLON PETROLEUM CORPORATION**

**JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION**

**MUTHURAJAWELA.**

**B.O.Q. No. 2025 /MUTHU /01 / 07 - SINGLE CANOPY**

Item No	Description	Qty.	Unit	Rate	Amount
7A/	<p><b>BILL NO- 07- CONSTRUCTION OF SINGLE CANOPY</b></p> <p><b>CONSTRUCTION OF SINGLE CANOPY</b></p> <p><b><u>Notes</u></b></p> <p>The rates quoted by the tenderer should include for the followings items.</p> <p><b><u>Foundation ( 02 Nos.):-</u></b></p> <p>a Excavation, 450mm x 450mm x 900mm deep and 300mm thick 1:2:4 (20mm)concrete base as shown in drawing No-CEYPET/ENG/SK/0021.</p> <p><b><u>Canopy post (2Nos)</u></b></p> <p>b Canopy post 75mm diameter G.I (Medium duty) Pipe welded to 10mm thick MS base plate embeded in the painted to 1:2:4 (20mm) concrete foundation . Rate to include spray painted to manufacturers specifications. As shown in drawing. No-CEYPET/ENG/SK/0021.</p> <p><b><u>Roof work</u></b></p> <p>c Suppy &amp; Fixing Zinc Aluninium colour bonded roofing sheets(not less than 0.47mm total coated thickness) on steel frame work which include all neccessay angle iron (25mm x25mmx 6mm) structural frame work as shown in drawing. <b><i>Rate will also include for applying two coats of anticorrosive paint as per the description under 'Painting of Steel' in the Main Canopy BOQ.</i></b></p> <p><b><u>Fascia</u></b></p> <p>d Aluminium Composite sheets fascia,alpolic or equivalent, similar material mineral core (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.</p> <p><b><u>Ceiling</u></b></p> <p>e Supply &amp; fixing colour bonded Zinc Aluminium sheet ceiling with all necessary Aluminium accessories as per details given in drawing</p>				
			Note		
			Note		
			Note		
			Note		
			Note		



**BILL OF QUANTITIES**

**CEYLON PETROLEUM CORPORATION**

**JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION  
MUTHURAJAWELA.**

**B.O.Q. No. 2025 /MUTHU /01 / 07 - SINGLE CANOPY**

Item No	Description	Qty.	Unit	Rate	Amount
f	<p><b><u>Light fittings</u></b></p> <p>The single canopy should be provided with adequate lighting by use of 2 nos. fluorescent lights fittings complete with 600mm 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 &amp; 1x1cx7/0.67 PVCinsulated 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.</p>		Note		
g	<p>The rate will include for fabricate, installing single canopy .The proposed locations are given below.</p>		Note		
7A/01	<p>Fabricate, supply &amp; install single canopy as per specification &amp; detail drawing no .CEYPET/ENG/SK/0021</p>	1.0	No		
7A/02	<p>2000mm long 1000mm wide 300mm high pump Island in 100mm Block or half brick walls filled with river sand and 75mm thick 1:3:6 (25m) concrete on top finished with black Ceramic tiles of approved size and design to pump bed rate to include 12mm 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</p>	2.0	m		
7A/03	<p>Supply , fabricating and installing G.I pump guard. Using 65mm Dia G.I (Medium duty ) 3.6mm thick pipes fixed to 6mm thick MS plate by (size150x 150mm)with 4Nos 12mm Dia rag bolts and placed in 1:2:4(20) concrete base.(200x 200x 150mm) .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.</p>				

**BILL OF QUANTITIES**

**CEYLON PETROLEUM CORPORATION**

**JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION**

**MUTHURAJAWELA.**

**B.O.Q. No. 2025 /MUTHU /01 / 07 - SINGLE CANOPY**

Item No	Description	Qty.	Unit	Rate	Amount
7A/03.1	Pump guard 1800mm X 900mm as per detail Drg.No. CEYPET/ENG/SK/0060	2.0	No		
7A/03.2	Pump guard 900mm X 900mm as per detail Drg.No. CEYPET/ENG/SK/0060	2.0	No		
<b>TO BILL NO 07 SINGLE CANOPY TOTAL CARRIED TO MAIN SUMMARY</b>				<b>RS</b>	

**BILL OF QUANTITIES**  
**CEYLON PETROLEUM CORPORATION**  
**JOB: PROPOSED CONSTRUCTION OF LANKA FILLING STATION**  
**MUTHURAJAWELA.**  
**B.O.Q. No. 2025 /MUTHU /01 - MAIN SUMMARY**

**MAIN SUMMARY**

BILL NO- 01 - PRELIMINARIES	Rs
BILL NO- 02 - GROUND PREPARATION	Rs
BILL NO- 03 - TANK INSTALLATION	Rs
BILL NO - 04 - BUILDING WORKS	Rs
BILL NO- 05 - CONSTRUCTION OF CANOPY	Rs
BILL NO- 06 - DRIVE WAY & MISCELLANEOUS WORK	Rs
	0 Rs

SUB TOTAL 01 Rs

LESS PROVISIONAL SUM Rs .....

SUB TOTAL 02 Rs .....

LESS DISCOUNT (If any) Rs .....

SUB TOTAL 03 Rs .....

LESS CREDIT ON SALVAGE MATERIAL Rs .....

SUB TOTAL 04 Rs .....

ADD PROVISION SUM Rs .....

SUB TOTAL 05 Rs .....

ADD (.....NBT) Rs .....

SUB TOTAL 06 Rs .....

ADD (.....VAT) Rs .....

TOTAL WITH TAXES Rs .....

Total amount in words .....

Name of Tenderer .....

VAT Registration No :-

Address .....

.....

Date

.....  
Signature of Tenderer

**Section - 9**

**DRAWINGS**

## **9.0 DRAWINGS**

CEYPET/ENG/0628 - Construction of Sales Building & Canopy.

CEYPET/ENG/0511 – Installation of 3000 & 5000 IG underground storage tanks.

CEYPET/ENG/SK-0060 – Pump Guard

CEYPET/ENG/SK-0021-A – Single Canopy

CEYPET/ENG/SK-0013 – Signage Tower Structure.

CEYPET/ENG/0032 – Details of Doors and Windows

CEYPET/ENG/0050 – Details of Pump Island

CEYPET/ENG/SK-0365-A – Details of Logo

CEYPET/ENG/SK-0044 – Light Post details.

CEYPET/ENG/Elec/0631 – Electrical details (2 Pages)

P/DEC/19/1890/01-07 – Layout, foundation and base Structural details. (7 Pages)

**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
<b>Form of Bid</b>			
Addressed to the Employer ?	18		
Completed?	18		
Signed ?	18		
<b>Bid Security</b>			
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		
<b>Qualification Information</b>			
All relevant information completed?	4		
Signed ?	4		
<b>Addendum</b>			
Contents of the addendum (if any) Taken into account ?	10		
<b>BID package</b>			
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**