



CEYLON ELECTRICITY BOARD SRI LANKA

SUPPORTING ELECTRICITY SUPPLY RELIABILITY IMPROVEMENT PROJECT (ADB LOAN NO: 3409-SRI)

PACKAGE 7 - LOT A3

Procurement of Plant

Design, Supply, and Installation

**Single-Stage: Two-Envelope
Bidding Procedure**

**BIDDING DOCUMENT
for
Procurement
of**

Installation of:

**124Mvar Breaker Switched Capacitor Banks in Colombo City Grid Substations and
Replacing the Detuned Breaker Switched Capacitor Banks at Thulhiriya Grid Substation**

VOLUME 2 of 8 Part I- BIDDING PROCEDURES

Section 4-Bidding Forms: Part A-Price Bid

Issued on: 11th June 2020

Invitation for Bids No.: CEB/AGM/PRO/2019/IFB/SESRI-P7 Lot A3

ICB No.: CEB/AGM/PRO/2019/ICB/SESRI-P7 Lot A3

Employer: Ceylon Electricity Board

Country: Sri Lanka

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Projects Division

Ceylon Electricity Board,

P.O. Box 540, Colombo 02

Sri Lanka

Document – Revision C

Preface

This Bidding Document for Procurement of Plant – Design, Supply, and Installation, has been prepared by Ceylon Electricity Board and is based on the Standard Bidding Document for Procurement of Plant – Design, Supply, and Installation (SBD Plant) issued by the Asian Development Bank dated December 2016.

ADB's SBD Plant has the structure and the provisions of the Master Procurement Document entitled "Procurement of Plant – Design, Supply, and Installation", prepared by multilateral development banks and other public international financial institutions except where ADB-specific considerations have required a change.

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Section 4 - Bidding Forms

Part A – Price Bid

This section contains the forms to be completed by the Bidder and submitted as part of its Bid.

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Letter of Price Bid

-- Note --

The bidder must accomplish the Letter of Price Bid on its letterhead clearly showing the bidder's complete name and address.

Date:

OCB No.:

Invitation for Bid No.:

To: [. . . insert complete name of the employer . . .]

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Document, including Addenda issued in accordance with Instructions to Bidders (ITB) 8.
- (b) We offer to design, manufacture, test, deliver, install, pre-commission, and commission in conformity with the Bidding Document the following Plant and Services: [. . . insert narrative . . .]
- (c) The total price of our Bid, excluding any discounts offered in item (d) below is the sum of

[amount of foreign currency in words], [amount in figures], and [amount of local currency in words], [amount in figures]

- (d) The total bid price from the Grand Summary (Schedule No. 5) should be entered by the Bidder inside this box. Absence of the total bid price in the Letter of Price Bid may result in the rejection of the bid.

e discounts offered and the methodology for their application are as follows: [. . . insert discounts and methodology for their application if any . . .]

- (e) Our Bid shall be valid for a period of [. . . insert bid validity period as specified in ITB 20.1 of the BDS . . .] days from the date fixed for the submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
- (f) If our Bid is accepted, we commit to obtain a performance security in accordance with the Bidding Document.
- (g) We have paid, or will pay the following commissions, gratuities, or fees with respect to the bidding process or execution of the Contract: ¹

Name of Recipient	Address	Reason	Amount
-------------------	---------	--------	--------

¹ If none has been paid or is to be paid, indicate "None."

.....
.....

- (h) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed.
- (i) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.
- (j) We agree to permit ADB or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors appointed by ADB.

Name

In the capacity of

Signed

.....

Duly authorized to sign the Bid for and on behalf of

Date

.....

Price Schedules

PREAMBLE

General

1. The Price Schedules are divided into separate Schedules as follows:
 - Schedule No. 1: Plant and Mandatory Spare Parts Supplied from Abroad
 - Schedule No. 2: Plant and Mandatory Spare Parts Supplied from within the Employer's Country
 - Schedule No. 3: Design Services
 - Schedule No. 4: Civil Works, Installation and Other Services
 - Schedule No. 5: Grand Summary
 - Schedule No. 6: Recommended Spare Parts, Tools and Instruments
 - Schedule No. 7: Day Works (Provisional)
 - Schedule No. 8: Rates for Variations
 - Schedule No. 9: Schedule of Major Items of Construction Plant
2. The Schedules do not generally give a full description of the plant to be supplied and the services to be performed under each item. Bidders shall be deemed to have read the Employer's Requirements and other sections of the Bidding Document and reviewed the Drawings to ascertain the full scope of the requirements included in each item prior to filling in the rates and prices. The entered rates and prices shall be deemed to cover the full scope as aforesaid, including overheads and profit.
3. If Bidders are unclear or uncertain as to the scope of any item, they shall seek clarification in accordance with ITB 7 prior to submitting their bid.

Pricing

4. The units and rates in figures entered into the Price Schedules should be typewritten or if written by hand, must be in print form. Price Schedules not presented accordingly may be considered nonresponsive. Any alterations necessary due to errors, etc., shall be initialed by the Bidder.

As specified in the Bid Data Sheet and Special Conditions of Contract, prices shall be fixed and firm for the duration of the Contract, or prices shall be subject to adjustment in accordance with the corresponding Appendix (Price Adjustment) to the Contract Agreement.
5. Bid prices shall be quoted in the manner indicated and in the currencies specified in the Instructions to Bidders in the Bidding Document.

For each item, Bidders shall complete each appropriate column in the respective Schedules, giving the price breakdown as indicated in the Schedules.

Prices given in the Schedules against each item shall be for the scope covered by that item as detailed in Section 6 (Employer's Requirements) or elsewhere in the Bidding Document.
6. Payments will be made to the Contractor in the currency or currencies indicated under each respective item.
7. When requested by the Employer for the purposes of making payments or part payments, valuing variations or evaluating claims, or for such other purposes as the Employer may

reasonably require, the Contractor shall provide the Employer with a breakdown of any composite or lump sum items included in the Schedules.

Schedules of Rates and Prices

Schedule No. 1 - Plant and Mandatory Spare Parts Supplied from Abroad

Item	Description ¹	Country of Origin	Qty.	Unit Price ²			Total Price ²	Taxes and Duties
				Foreign Currency	FOB	CIP	Foreign Currency	Local Currency
1	2	3	4	5		6	7 = 4 x 6	8
SUBSTATION A								
A	11KV INDOOR CAPACITOR BANK 1.2.1.1							
1	Incomer Units for Capacitor Bank 1.2.1.1.1.		2 Nos					
2	11KV Indoor Capacitor Bank 1.2.1.1.2.		5 Nos					
B	LVAC SWITCH BOARDS 1.2.1.2.							
1	Modification to LVAC switchboards		1 Lot					
C	BATTERIES, CHARGERS, DISTRIBUTION BOARDS AND INVERTER EQUIPMENT 1.2.1.3							
1	Modification to the DC distribution Board		1 Lot					
D	PROTECTION, METERING, MONITORING AND CONTROL 1.2.1.4							
1	Substation Automation System 1.2.1.4.1		1 Lot					
2	Power Quality Analyzer 1.2.1.4.2		1 Lot					
3	12 kV Protection & Control facilitie 1.2.1.4.3							
	Capacitor bank control and protection		1 Lot.					
E	COMMUNICATION EQUIPMENT AND SCADA GATEWAYS/RTUS 1.2.1.5							
1	SCADA Gateways 1.2.1.5.1		1 Lot.					
F	SUBSTATION EARTHING 1.2.1.6.							
			1 Lot.					
G	LIGHTNING PROTECTION SYSTEM 1.2.1.7.							
			1 Lot					
H	GROUNDING SYSTEM 1.2.1.8.							
			1 Lot					
I	POWER AND CONTROL CABLES 1.2.1.9.							
1	12kV Power cables, joints and terminations 1.2.1.9.1		1 Lot.					
2	All low voltage AC power cables and terminations. 1.2.1.9.2.		1 Lot					
3	All DC power and control cables and terminations 1.2.1.9.3.		1 Lot					
4	All cables required for Protection, Control, Instrumentation, Communication, SCADA and termination. 1.2.1.9.4.		1 Lot					
5	All cables required for station lighting, small power, fire protection, ventilation equipment 1.2.1.9.5		1 Lot					
J	SUPPORTING STRUCTURES 1.2.1.10.							
K	MARSHALLING KIOSK 1.2.1.11.		N/A					
L	MISCELLANEOUS WORKS 1.2.1.12.							
			1 Lot.					
M	SPARE PARTS 1.2.1.13.							
			1 Lot					
N	TOOLS AND INSTRUMENTS 1.2.1.14.							
			1 Lot					

Item	Description ¹	Country of Origin	Qty.	Unit Price ²			Total Price ²	Taxes and Duties
				Foreign Currency	FOB	CIP	Foreign Currency	Local Currency
1	2	3	4	5		6	7 = 4 x 6	8
SUBSTATION B								
A	11KV INDOOR CAPACITOR BANK 1.2.2.1							
1	Incomer Units for Capacitor Bank 1.2.2.1.1.		2 Nos					
2	11KV INDOOR CAPACITOR BANK 1.2.2.1.2.		3 Nos					
B	LVAC SWITCH BOARDS 1.2.2.2.							
1	Modification to LVAC switchboards		1 Lot					
C	BATTERIES, CHARGERS, DISTRIBUTION BOARDS AND INVERTER EQUIPMENT 1.2.2.3							
1	Modification to the DC distribution Board		1 Lot					
D	PROTECTION, METERING, MONITORING AND CONTROL 1.2.2.4							
1	Substation Automation System 1.2.2.4.1		1 Lot					
2	Power Quality Analyzer 1.2.2.4.2		1 Lot					
3	12 kV Protection & Control facility 1.2.2.4.3							
	Capacitor bank control and protection		1 Lot.					
E	COMMUNICATION EQUIPMENT AND SCADA GATEWAYS/RTUS 1.2.2.5							
1	SCADA Gateways 1.2.2.5.1		1 Lot.					
F	SUBSTATION EARTHING 1.2.2.6.							
			1 Lot.					
G	LIGHTNING PROTECTION SYSTEM 1.2.2.7.							
			1 Lot					
H	GROUNDING SYSTEM 1.2.1.8.							
			1 Lot					
I	POWER AND CONTROL CABLES 1.2.2.9.							
1	12kV Power cables, joints and terminations 1.2.2.9.1		1 Lot.					
2	All low voltage AC power cables and terminations. 1.2.2.9.2.		1 Lot					
3	All DC power and control cables and terminations 1.2.2.9.3.		1 Lot					
4	All cables required for Protection, Control, Instrumentation, Communication, SCADA and termination. 1.2.2.9.4.		1 Lot					
5	All cables required for station lighting, small power, fire protection, ventilation equipment 1.2.2.9.5		1 Lot					
J	SUPPORTING STRUCTURES 1.2.2.10.							
			1 Lot					
K	MARSHALLING KIOSK 1.2.2.11.							
			N/A					
L	MISCELLANEOUS WORKS 1.2.2.12.							
			1 Lot.					
M	SPARE PARTS 1.2.2.13.							
			1 Lot					
N	TOOLS AND INSTRUMENTS 1.2.2.14.							
			1 Lot					

Item	Description ¹	Country of Origin	Qty.	Unit Price ²			Total Price ²	Taxes and Duties
				Foreign Currency	FOB	CIP	Foreign Currency	Local Currency
1	2	3	4	5		6	7 = 4 x 6	8
SUBSTATION I								
A	11KV INDOOR CAPACITOR BANK 1.2.3.1							
1	Incomer Units for Capacitor Bank 1.2.3.1.1.		2 Nos					
2	11KV Indoor Capacitor Bank 1.2.3.1.2.		5 Nos					
B	LVAC SWITCH BOARDS 1.2.3.2.							
1	Modification to LVAC switchboards		1 Lot					
C	BATTERIES, CHARGERS, DISTRIBUTION BOARDS AND INVERTER EQUIPMENT 1.2.3.3							
1	Modification to the DC distribution Board		1 Lot					
D	PROTECTION, METERING, MONITORING AND CONTROL 1.2.3.4							
1	Substation Automation System 1.2.3.4.1		1 Lot					
2	Power Quality Analyzer 1.2.3.4.2		1 Lot					
3	12 kV Protection & Control facility 1.2.3.4.3		1 Lot					
E	COMMUNICATION EQUIPMENT AND SCADA GATEWAYS/RTUS 1.2.3.5							
1	SCADA Gateways 1.2.3.5.1		1 Lot.					
F	SUBSTATION EARTHING 1.2.3.6.		1 Lot.					
G	LIGHTNING PROTECTION SYSTEM 1.2.3.7.		1 Lot					
H	GROUNDING SYSTEM 1.2.3.8.		1 Lot					
I	POWER AND CONTROL CABLES 1.2.3.9.							
1	12kV Power cables, joints and terminations 1.2.3.9.1		1 Lot.					
2	All low voltage AC power cables and terminations. 1.2.3.9.2.		1 Lot					
3	All DC power and control cables and terminations 1.2.3.9.3.		1 Lot					
4	All cables required for Protection, Control, Instrumentation, Communication, SCADA and termination. 1.2.3.9.4.		1 Lot					
5	All cables required for station lighting, small power, fire protection, ventilation equipment 1.2.3.9.5		1 Lot					
J	SUPPORTING STRUCTURES 1.2.3.10.		1 Lot					
K	MARSHALLING KIOSK 1.2.3.11.		N/A					
L	MISCELLANEOUS WORKS 1.2.3.12.		1 Lot.					
M	SPARE PARTS 1.2.3.13.		1 Lot					
N	TOOLS AND INSTRUMENTS 1.2.3.14.		1 Lot					

Item	Description ¹	Country of Origin	Qty.	Unit Price ²			Total Price ²	Taxes and Duties
				Foreign Currency	FOB	CIP	Foreign Currency	Local Currency
1	2	3	4	5		6	7 = 4 x 6	8
SUBSTATION L1 AND L2								
A	11KV INDOOR CAPACITOR BANK 1.2.4.1							
1	Incomer Units for Capacitor Bank 1.2.4.1.1.		4Nos					
2	11KV INDOOR CAPACITOR BANK 1.2.4.1.2.		5 Nos					
3	11KV INDOOR CAPACITOR BANK 1.2.4.1.3.		5 Nos					
B	LVAC SWITCH BOARDS 1.2.4.2.							
1	Modification to LVAC switchboards		1 Lot					
C	BATTERIES, CHARGERS, DISTRIBUTION BOARDS AND INVERTER EQUIPMENT 1.2.4.3							
1	Modification to the DC distribution Board		1 Lot					
D	PROTECTION, METERING, MONITORING AND CONTROL 1.2.4.4							
1	Substation Automation System 1.2.4.4.1		1 Lot					
2	12 kV Protection & Control facility 1.2.4.4.2							
	Capacitor bank control and protection		1 Lot.					
E	COMMUNICATION EQUIPMENT AND SCADA GATEWAYS/RTUS 1.2.4.5							
1	SCADA Gateways 1.2.4.5.1		1 Lot.					
F	SUBSTATION EARTHING 1.2.4.6.		1 Lot.					
G	LIGHTNING PROTECTION SYSTEM 1.2.4.7.		1 Lot					
H	GROUNDING SYSTEM 1.2.4.8.		1 Lot					
I	POWER AND CONTROL CABLES 1.2.4.9.							
1	12kV Power cables, joints and terminations 1.2.4.9.1		1 Lot.					
2	All low voltage AC power cables and terminations. 1.2.4.9.2.		1 Lot					
3	All DC power and control cables and terminations 1.2.4.9.3.		1 Lot					
4	All cables required for Protection, Control, Instrumentation, Communication, SCADA and termination. 1.2.4.9.4.		1 Lot					
5	All cables required for station lighting, small power, fire protection, ventilation equipment 1.2.4.9.5		1 Lot					
J	SUPPORTING STRUCTURES 1.2.4.10.		1 Lot					
K	MARSHALLING KIOSK 1.2.4.11.		N/A					
L	MISCELLANEOUS WORKS 1.2.4.12.		1 Lot.					
M	SPARE PARTS 1.2.4.13.		1 Lot					
N	TOOLS AND INSTRUMENTS 1.2.4.14.		1 Lot					

Item	Description ¹	Country of Origin	Qty.	Unit Price ²			Total Price ²	Taxes and Duties
				Foreign Currency	FOB	CIP	Foreign Currency	Local Currency
1	2	3	4	5		6	7 = 4 x 6	8
SUBSTATION M								
A	11KV INDOOR CAPACITOR BANK 1.2.5.1							
1	Incomer Units for Capacitor Bank 1.2.5.1.1.		2 Nos					
2	11KV INDOOR CAPACITOR BANK 1.2.5.1.1.		4 Nos					
B	LVAC SWITCH BOARDS 1.2.5.2.							
1	Modification to LVAC switchboards		1 Lot					
C	BATTERIES, CHARGERS, DISTRIBUTION BOARDS AND INVERTER EQUIPMENT 1.2.5.3							
1	Modification to the DC distribution Board		1 Lot					
D	PROTECTION, METERING, MONITORING AND CONTROL 1.2.5.4							
1	Substation Automation System 1.2.5.4.1		1 Lot					
2	12 kV Protection & Control facility 1.2.5.4.2		1 Lot					
E	COMMUNICATION EQUIPMENT AND SCADA GATEWAYS/RTUS 1.2.5.5							
1	SCADA Gateways 1.2.5.5.1		1 Lot.					
F	SUBSTATION EARTHING 1.2.5.6.							
G	LIGHTNING PROTECTION SYSTEM 1.2.5.7.							
H	GROUNDING SYSTEM 1.2.5.8.							
I	POWER AND CONTROL CABLES 1.2.5.9.							
1	12kV Power cables, joints and terminations 1.2.5.9.1		1 Lot.					
2	All low voltage AC power cables and terminations. 1.2.5.9.2.		1 Lot					
3	All DC power and control cables and terminations 1.2.5.9.3.		1 Lot					
4	All cables required for Protection, Control, Instrumentation, Communication, SCADA and termination. 1.2.5.9.4.		1 Lot					
5	All cables required for station lighting, small power, fire protection, ventilation equipment 1.2.5.9.5		1 Lot					
J	SUPPORTING STRUCTURES 1.2.5.10.							
K	MARSHALLING KIOSK 1.2.5.11.							
L	MISCELLANEOUS WORKS 1.2.5.12.							
M	SPARE PARTS 1.2.5.13.							
N	TOOLS AND INSTRUMENTS 1.2.5.14.							

Item	Description ¹	Country of Origin	Qty.	Unit Price ²			Total Price ²	Taxes and Duties
				Foreign Currency	FOB	CIP	Foreign Currency	Local Currency
1	2	3	4	5		6	7 = 4 x 6	8
SUBSTATION N								
A	11KV INDOOR CAPACITOR BANK 1.2.6.1							
1	Incomer Units for Capacitor Bank 1.2.6.1.1.		2 Nos					
2	11KV Indoor Capacitor Bank 1.2.6.1.2.		4 Nos					
B	LVAC SWITCH BOARDS 1.2.6.2.							
1	Modification to LVAC switchboards		1 Lot					
C	BATTERIES, CHARGERS, DISTRIBUTION BOARDS AND INVERTER EQUIPMENT 1.2.6.3							
1	Modification to the DC distribution Board		1 Lot					
D	PROTECTION, METERING, MONITORING AND CONTROL 1.2.6.4							
1	Substation Automation System 1.2.6.4.1		1 Lot					
2	12 kV Protection & Control facility 1.2.6.4.2		1 Lot					
E	COMMUNICATION EQUIPMENT AND SCADA GATEWAYS/RTUS 1.2.6.5							
1	SCADA Gateways 1.2.6.5.1		1 Lot.					
F	SUBSTATION EARTHING 1.2.6.6.		1 Lot.					
G	LIGHTNING PROTECTION SYSTEM 1.2.6.7.		1 Lot					
H	GROUNDING SYSTEM 1.2.6.8.		1 Lot					
I	POWER AND CONTROL CABLES 1.2.6.9.							
1	12kV Power cables, joints and terminations 1.2.6.9.1		1 Lot.					
2	All low voltage AC power cables and terminations. 1.2.6.9.2.		1 Lot					
3	All DC power and control cables and terminations 1.2.6.9.3.		1 Lot					
4	All cables required for Protection, Control, Instrumentation, Communication, SCADA and termination. 1.2.6.9.4.		1 Lot					
5	All cables required for station lighting, small power, fire protection, ventilation equipment 1.2.6.9.5		1 Lot					
J	SUPPORTING STRUCTURES 1.2.6.10.		1 Lot					
K	MARSHALLING KIOSK 1.2.6.11.		N/A					
L	MISCELLANEOUS WORKS 1.2.6.12.		1 Lot.					
M	SPARE PARTS 1.2.6.13.		1 Lot					
N	TOOLS AND INSTRUMENTS 1.2.6.14.		1 Lot					

Item	Description ¹	Country of Origin	Qty.	Unit Price ²			Total Price ²	Taxes and Duties
				Foreign Currency	FOB	CIP	Foreign Currency	Local Currency
1	2	3	4	5		6	7 = 4 x 6	8
THULHIRIYA GRID SUBSTATION								
A	36 kV ,5 MVAr Breaker Switch Capacitor 1.2.7.1							
1	36KV CAPACITOR BANK 1.2.7.1.1.							
	Capacitor Units		2 Lots					
	Other equipmnets		2 Lots					
B	LVAC SWITCH BOARDS 1.2.7.2.							
1	Modification to LVAC switchboards		1 Lot					
C	BATTERIES, CHARGERS, DISTRIBUTION BOARDS AND INVERTER EQUIPMENT 1.2.7.3							
1	Modification to the DC distribution Board		1 Lot					
D	PROTECTION, METERING, MONITORING AND CONTROL 1.2.7.4							
1	Substation Automation System 1.2.7.4.1		1 Lot					
2	33 kV Protection & Control facility 1.2.7.4.2		1 Lot					
E	COMMUNICATION EQUIPMENT AND SCADA GATEWAYS/RTUS 1.2.7.5							
1	SCADA Gateways 1.2.7.5.1		1 Lot.					
F	SUBSTATION EARTHING 1.2.7.6.							
			1 Lot.					
G	LIGHTNING PROTECTION SYSTEM 1.2.7.7.							
			1 Lot					
H	GROUNDING SYSTEM 1.2.7.8.							
			1 Lot					
I	POWER AND CONTROL CABLES 1.2.7.9.							
1	36kV Power cables, joints and terminations 1.2.7.9.1		1 Lot.					
2	All low voltage AC power cables and terminations. 1.2.7.9.2.		1 Lot					
3	All DC power and control cables and terminations 1.2.7.9.3.		1 Lot					
4	All cables required for Protection, Control, Instrumentation, Communication, SCADA and termination. 1.2.7.9.4.		1 Lot					
5	All cables required for station lighting, small power, fire protection, ventilation equipment 1.2.7.9.5		1 Lot					
J	SUPPORTING STRUCTURES 1.2.7.10.							
			1 Lot					
K	MARSHALLING KIOSK 1.2.7.11.							
			N/A					
L	MISCELLANEOUS WORKS 1.2.7.12.							
			1 Lot.					
M	SPARE PARTS 1.2.7.13.							
			1 Lot					
N	TOOLS AND INSTRUMENTS 1.2.7.14.							
			1 Lot					
TOTAL Column 7 to be carried forward to Schedule No. 5. Grand Summary								

Name of Bidder

Signature of Bidder

ted to Section 6 (Employer's Requirements), Part A - Scope of Work.

Country of Origin Declaration Form

Item	Description	Country

Item	Description	Total Price
1	Substation A	
2	Substation B	
3	Substation I	
4	Substation L (L1 and L2)	
5	Substation M	
6	Substation N	
7	Thulhiriya Substation	
8	MANDATORY SPARE PARTS, TOOLS AND INSTRUMENTS	

Schedule No. 2 - Plant and Mandatory Spare Parts Supplied from within the Employer's Country

Item	Description	Qty	Unit Price ^a		Total EXW Price ^a	Sales and other Tax
			Local Currency	EXW Unit Price		
1	2	3	4	5	6 = 3 x 5	7
TOTAL Column 5 to be carried forward to Schedule No. 5. Grand Summary						

Name of Bidder _____

Signature of Bidder _____

^a Specify currency in accordance with ITB 19.1 of the BDS.

^b Column 5 Price shall include all customs duties and sales and other taxes already paid or payable on the components and raw materials used in the manufacture or assembly of the item or the customs duties and sales and other taxes already paid on previously imported items.

Schedule No. 3 - Design Services

Item	Description	Qty.	Unit Price ^a		Total Price ^a	
			Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
A	SUBSTATION A					
a)	Electrical works					
	Design and Liaison of Electrical Works	1 Lot				
	Drawings and Documentation required for the Electrical Works	1 Lot				
b)	Mechanical Works					
	Design and Liaison of Mechanical Works	1 Lot				
	Drawings and Documentation required for the Mechanical Works	1 Lot				
c)	Civil Works					
	Design and Liaison of Civil Works	1 Lot				
	Drawings and Documentation required for the Civil Works	1 Lot				
B	SUBSTATION B					
a)	Electrical works					
	Design and Liaison of Electrical Works	1 Lot				
	Drawings and Documentation required for the Electrical Works	1 Lot				
b)	Mechanical Works					
	Design and Liaison of Mechanical Works	1 Lot				
	Drawings and Documentation required for the Mechanical Works	1 Lot				
c)	Civil Works					
	Design and Liaison of Civil Works	1 Lot				

	Drawings and Documentation required for the Civil Works	1 Lot				
D	SUBSTATION I					
a)	Electrical works					
	Design and Liaison of Electrical Works	1 Lot				
	Drawings and Documentation required for the Electrical Works	1 Lot				
b)	Mechanical Works					
	Design and Liaison of Mechanical Works	1 Lot				
	Drawings and Documentation required for the Mechanical Works	1 Lot				
c)	Civil Works					
	Design and Liaison of Civil Works	1 Lot				
	Drawings and Documentation required for the Civil Works	1 Lot				
E	SUBSTATION L (L1 AND L2)					
a)	Electrical works					
	Design and Liaison of Electrical Works	1 Lot				
	Drawings and Documentation required for the Electrical Works	1 Lot				
b)	Mechanical Works					
	Design and Liaison of Mechanical Works	1 Lot				

	Drawings and Documentation required for the Mechanical Works	1 Lot				
c)	Civil Works					
	Design and Liaison of Civil Works	1 Lot				
	Drawings and Documentation required for the Civil Works	1 Lot				
F	SUBSTATION M					
a)	Electrical works					
	Design and Liaison of Electrical Works	1 Lot				
	Drawings and Documentation required for the Electrical Works	1 Lot				
b)	Mechanical Works					
	Design and Liaison of Mechanical Works	1 Lot				
	Drawings and Documentation required for the Mechanical Works	1 Lot				
c)	Civil Works					
	Design and Liaison of Civil Works	1 Lot				
	Drawings and Documentation required for the Civil Works	1 Lot				
G	SUBSTATION N					
a)	Electrical works					
	Design and Liaison of Electrical Works	1 Lot				
	Drawings and Documentation required for the Electrical Works	1 Lot				

b)	Mechanical Works					
	Design and Liaison of Mechanical Works	1 Lot				
	Drawings and Documentation required for the Mechanical Works	1 Lot				
c)	Civil Works					
	Design and Liaison of Civil Works	1 Lot				
	Drawings and Documentation required for the Civil Works	1 Lot				
H	THULHIRIYA SUBSTATION					
a)	Electrical works					
	Design and Liaison of Electrical Works	1 Lot				
	Drawings and Documentation required for the Electrical Works	1 Lot				
b)	Mechanical Works					
	Design and Liaison of Mechanical Works	1 Lot				
	Drawings and Documentation required for the Mechanical Works	1 Lot				
c)	Civil Works					
	Design and Liaison of Civil Works	1 Lot				
	Drawings and Documentation required for the Civil Works	1 Lot				
TOTAL Columns 6 and 7 to be carried forward to Schedule No. 5. Grand Summary						

Name of Bidder _____

Signature of Bidder _____

^a Specify currency in accordance with ITB 19.1 of the BDS.

Schedule No. 4 – Civil Works, Installation and Other Services

Item	Description ¹	Qty.	Unit Price ²		Total Price ²	
			Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
CIVIL WORKS						
A SUBSTATION A						
1	Preliminary Works 1.3.1.1.1					
	Site Survey	1 Item				
2	Site formation and up keeping 1.3.1.1.2					
	Anti Termite soil treatment	1 Item				
3	Cable trenches ducts 1.3.1.1.3	1 Lot				
4	Foundations 1.3.1.1.4					
	Switch gear & take off structures	1 Item				
5	Lightning protection system 1.3.1.1.5	1 Lot				
6	External Lighting & small power supply services 1.3.1.1.6	1 Lot				
7	Construction of Control & Other Buildings 1.3.1.1.7					
	Control Building extention	1 Item				
	Site office					
	Temporary Building (Container type)	1 item				
8	Construction of building services 1.3.1.1.8					
	Air conditioning & ventilation system	1 Item				
	Fire protection	1 item				
	Internal Lighting & small power supply services	1 Item				
9	Miscellaneous Work 1.3.1.1.9	1 Lot				

Item	Description ¹	Qty.	Unit Price ²		Total Price ²	
			Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
B	SUBSTATION B					
1	Construction of Control & Other Buildings 1.3.1.2.7					
	Control Building extention	1 Item				
	Site office					
	Temporary Building (Container type)	1 item				
2	Construction of building services 1.3.1.2.8					
	Air conditioning & ventilation system	1 Item				
	Fire protection	1 item				
	Internal Lighting & small power supply services	1 Item				
3	Miscellaneous Work 1.3.1.2.9	1 Lot				
C	SUBSTATION I					
1	Preliminary Works 1.3.1.3.1					
	Site Survey	1 Item				
2	Site formation and up keeping 1.3.1.3.2					
	Anti Termite soil treatment	1 Item				
3	Cable trenches ducts 1.3.1.3.3	1 Lot				
4	Foundations 1.3.1.3.4					
	Switch gear & take off structures	1 Item				
5	Lightning protection system 1.3.1.3.5	1 Lot				
6	External Lighting & small power supply services 1.3.1.3.6	1 Lot				
7	Construction of Control & Other Buildings 1.3.1.3.7					
	Control Building extention	1 Item				
	Site office					
	Temporary Building (Container type)	1 item				

Item	Description ¹	Qty.	Unit Price ²		Total Price ²	
			Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
8	Construction of building services 1.3.1.3.8					
	Air conditioning & ventilation system	1 Item				
	Fire protection	1 item				
	Internal Lighting & small power supply services	1 Item				
9	Miscellaneous Work 1.3.1.3.9	1 Lot				
D	SUBSTATION L(L1 AND L2)					
1	Preliminary Works 1.3.1.4.1					
	Site Survey	1 Item				
2	Site formation and up keeping 1.3.1.4.2					
	Anti Termite soil treatment	1 Item				
3	Cable trenches ducts 1.3.1.4.3	1 Lot				
4	Foundations 1.3.1.4.4					
	Switch gear & take off structures	1 Item				
5	Lightning protection system 1.3.1.4.5	1 Lot				
6	External Lighting & small power supply services 1.3.1.4.6	1 Lot				
7	Construction of Control & Other Buildings 1.3.1.4.7					
	Control Building extention	1 Item				
	Site office					
	Temporary Building (Container type)	1 item				
8	Construction of building services 1.3.1.4.8					
	Air conditioning & ventilation system	1 Item				
	Fire protection	1 item				
	Internal Lighting & small power supply services	1 Item				
9	Miscellaneous Work 1.3.1.4.9	1 Lot				

Item	Description ¹	Qty.	Unit Price ²		Total Price ²	
			Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
E	SUBSTATION M					
1	Preliminary Works 1.3.1.5.1					
	Site Survey	1 Item				
2	Site formation and up keeping 1.3.1.5.2					
	Anti Termite soil treatment	1 Item				
3	Cable trenches ducts 1.3.1.5.3	1 Lot				
4	Foundations 1.3.1.5.4					
	Switch gear & take off structures	1 Item				
5	Lightning protection system 1.3.1.5.5	1 Lot				
6	External Lighting & small power supply services 1.3.1.5.6	1 Lot				
7	Construction of Control & Other Buildings 1.3.1.5.7					
	Control Building extention	1 Item				
	Site office					
	Temporary Building (Container type)	1 item				
8	Construction of building services 1.3.1.5.8					
	Air conditioning & ventilation system	1 Item				
	Fire protection	1 item				
	Internal Lighting & small power supply services	1 Item				
9	Miscellaneous Work 1.3.1.5.9	1 Lot				
F	SUBSTATION N					
1	Preliminary Works 1.3.1.6.1					
	Site Survey	1 Item				
2	Site formation and up keeping 1.3.1.6.2					
	Anti Termite soil treatment	1 Item				
3	Cable trenches ducts 1.3.1.6.3	1 Lot				
4	Foundations 1.3.1.6.4					
	Switch gear & take off structures	1 Item				

Item	Description ¹	Qty.	Unit Price ²		Total Price ²	
			Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
5	Lightning protection system 1.3.1.6.5	1 Lot				
6	External Lighting & small power supply services 1.3.1.6.6	1 Lot				
7	Construction of Control & Other Buildings 1.3.1.6.7					
	Control Building extension	1 Item				
	Site office					
	Temporary Building (Container type)	1 item				
8	Construction of building services 1.3.1.6.8					
	Air conditioning & ventilation system	1 Item				
	Fire protection	1 item				
	Internal Lighting & small power supply services	1 Item				
9	Miscellaneous Work 1.3.1.6.9	1 Lot				

G	THULHIRIYA SUBSTATION					
1	Preliminary Works 1.3.1.7.1					
	Site Survey	1 Item				
	Subsoil investigation	1 Item				
2	Site Clearing 1.3.1.7.2					
	Removal of existing Foundation					
	Removal of existing capacitor bank					
3	Site formation and up keeping 1.3.1.7.3					
	Surface Chipping	1 Item				
4	Cable trenches ducts 1.3.1.7.4	1 Lot				
5	Foundations 1.3.1.7.5					
	Switch gear & take off structures	1 Item				
6	Lightning protection system 1.3.1.7.6	1 Lot				
7	External Lighting & small power supply services 1.3.1.7.7	1 Lot				

Item	Description ¹	Qty.	Unit Price ²		Total Price ²	
			Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
8	Construction of Control & Other Buildings 1.3.1.7.8					
	Site office	1 Item				
	Temporary Building (Container type)	1 item				
8	Construction of building services 1.3.1.7.8					
	Air conditioning & ventilation system	N/A				
	Fire protection	N/A				
	Internal Lighting & small power supply services	N/A				
9	Miscellaneous Work 1.3.1.7.10	1 Lot				
TOTAL Column 6 and 7 to be carried forward to Schedule No 5: Grand Summary						

Name of Bidder

Signature of Bidder

¹ The sub-clause numbers indicated in the table are related to Section 6 (Employer's Requirements), Part A - Scope of

² Specify currencies in accordance with ITB 19.1 of the BDS.

Item	Description ¹	Qty.	Unit Price ²		Total Price ²	
			Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
Item	Description				Total Price	
					Foreign	Local
1	Substation A					
	Substation B					
	Substation I					
	Substation L1 and L2					
	Substation M					
	Substation N					
	Thulhiraiya GS					
TOTAL					Column 7 & 8 to be carried forward to Schedule No. 5. Summary	

Name of Bidder

Signature of Bidder

¹ The sub-clause numbers indicated in the table are related to Section 6 (Employer's Requirements), Part A - Scope of Work.

² Specify currencies in accordance with Bid Data Sheet 19.1. Create additional columns for foreign currencies up to a maximum number of 3 foreign currencies if so required.

Item	Description ¹	Qty.	Unit Price ²		Total Price ²	
			Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
A.	Substation A (Installation)					
	Erection installation & commissioning Item					
B.	Substation B					
	Erection installation & commissioning Item					
c.	Substation I					
	Erection installation & commissioning Item					
D.	Substation L (L1 AND L2)					
	Erection installation & commissioning Item					
E.	Substation M					
	Erection installation & commissioning Item					
F	Substation N					
	Erection installation & commissioning Item					
G	Thulhiriya GSS					
	Erection installation & commissioning Item					
TOTAL Columns 6 and 7 to be carried forward to Schedule No. 5. Grand Summary						

Name of Bidder _____

Signature of Bidder _____

Item	Description ¹	Qty.	Unit Price ²		Total Price ²	
			Local Currency Portion	Foreign Currency Portion	Local Currency Portion	Foreign Currency Portion
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
	Other Services 1.3.3					
A	Transport 1.3.3.1					
1	Transport for Engineer's Personnel (Engineers)					
	1.1 Car	1 No				
	1.2 4 WD Double cabs	1 No				
	1.3 Running and maintenance cost (2500 km per month for each vehicle)	2 Nos				
B	Site Office 1.3.3.2	1 Lot				
C	Engineers Living Accommodation 1.3.3.3	1 Lot				
D	Communication Facilities for Engineers Representatives	Not Applicable				
E	Price for Environment mitigation measures as per clause 1.7of part A of Section 6 Employers Requirements 1.3.3.4	1 Lot				
F	Training 1.3.4					
	Traning Module 1	1 Lot				
	Couse Fee					
	Other Cost					
	Traning Module 2	1 Lot				
	Couse Fee					
	Other Cost					
TOTAL Columns 6 and 7 to be carried forward to Schedule No. 5. Grand Summary						

Name of Bidder _____

Signature of Bidder _____

¹ The sub-clause numbers indicated in the table are related to Section 6 (Employer's Requirements), Part A - Scope of Work.

² Specify currency in accordance with ITB 19.1 of the BDS

Schedule No. 5 - Grand Summary

Schedule No.	Title	Total ^a	
		Foreign	Local
1	Plant and Mandatory Spare Parts Supplied from Abroad ^b		
2	Plant and Mandatory Spare Parts Supplied from within the Employer's Country ^b		
3	Design Services		
4	Civil Works, Installation and Other Services		
GRAND TOTAL to be carried forward to Letter of Price Bid			

Name of Bidder _____

Signature of Bidder _____

^a Specify currency in accordance with ITB 19.1 of the BDS. Create additional columns for foreign currency up to a maximum number of three foreign currencies if so required.

^b Taxes and/or duties from Schedules 1 and 2 may be added to the contract price in accordance with GCC 14 (Taxes and Duties).

Schedule No. 6 - Recommended Spare Parts, Tools and Instruments

Item	Description	Qty	Unit Price ^a		Total Price ^a	
			EXW Local Parts Local Currency	CIP Imported Parts Foreign Currency	Local Currency Portion	Foreign Currency Portion
1	2	3	4	5	6 = 3 x 4	7 = 3 x 5
TOTAL						

Name of Bidder _____

Signature of Bidder _____

^a Specify currency in accordance with ITB 19.1 of the BDS.

Schedule No. 7 - Day Works (Provisional)

No works whatsoever may be executed as day works, nor will payment be made for any Day works, except in such works necessary are brought to the notice of the employer and his agreement is received.

LABOUR

- 1 The contractor shall be entitled to the following payments in respect of labour employed on Day works:
 - a) The aggregate amount of wages for such labour calculated on the actual hours worked at the wage rates set out in this Schedule up to the grade of charge hand or overseer working with the men (time for foremen is to be included in the percentage under 2(b) below).
 - b) 10 Percent of aggregate amount of wages calculated according to sub paragraph 2(a) above.
 - 2 The percentage addition provided in sub paragraph 2(b) above shall cover Contractor's profit, on cost, superintendence, insurance and all allowances to labour, time keeping and all clerical and office work as well as the use of tools, timber, light equipment and non-mechanical equipment and
 - 3 The "Normal working Day" as hereinafter referred to shall be taken to be of eight hours excluding meal breaks and rest periods.
 - 4 In calculating the sums due to the Contractor for the execution of Day works, the hours for which payment shall be made for all personnel and the hire of all equipment shall be reckoned from the time of starting the particular item of day work, either at the beginning of or during the course of a normal working day to the end of the normal working day or the time of completion of the particular item of Day work, whichever may be sooner. No payment shall be made for personnel or plant for hours outside the normal working day unless the said personnel and plant are employed on Day works outside the Normal Working Day on the written instruction of the Employer's Representative. The same Day work rate shall apply for works done both during and outside the Normal Working Day.
 - 5 On completion of any authorised Day works, a written statement shall be issued by the Employer's Representative who shall sign it together with the Contractor and which shall state the number of workmen and their grades involved in the Day work, the number of hours worked and a detailed description of the Material used and the work carried out. A copy of this signed statement shall retained by the Employer's Representative and the Contractor and shall be the sole basis upon which payment for Day works will be made.
-

6 Day Work Rate For Labour

Class of Labour	Normal working Day of 8 Hours
<u>Local Labour</u>	
Unskilled Labourer	
Skilled Labourer	
Driver	
Steel Erector	
Linesman / Foreman	
Chargehand/Overseer	
Surveyor (on survey work only)	
Engineer	
	Average :
	Foreign Currency (...../Day) Average
<u>Expatriate Labour</u>	
Linesman / Foreman	
Chargehand / Overseer	
Steel Erector	
Surveyor (on survey work only)	
Junior Engineer	
Senior Engineer	
	Average :

- 7 Any other class of labour envisaged by Contractors for the execution of any Dayworks, except that covered by Paragraph 3 above, i.e. superintendence, etc., shall be entered above together with the appropriate labour rates, and such rates shall be the only rates considered in any Dayworks claim.
- 8 The labour rates to be entered above shall include all other benefits or contributions made by the employer such as contributions to Social Insurance Schemes, Annual Leave, Termination of Employment and Redundancy Law, Provident Fund, Health Schemes, etc., which are imposed either by Law or by agreement with Trade Unions.

EQUIPMENT AND TRANSPORT

- 9 The rates for hire of equipment and transport shall apply only to equipment, which the Contractor has on site, and are to apply for the actual running hours for which the equipment is employed on work.

- 10 The rates shall include service, operators and necessary attendants, fuel, lubricants and other consumable.
- 11 The contractor may insert additional items and quantities provided that such are extended and added into the total of the Schedule.

MATERIALS

- 12 The rates for materials shall apply to the net amount of materials actually provided, erected and forming part of the works and shall include for delivery to the site of operations
- 13 The contractor may insert additional items and quantities provided that such are extended and added into the total of the schedule.

Item	Qty	Description	Unit	Local Transport & Erection				
				Foreign			Local	
				Foreign Currency	Rates	Total	Rates	Total
1	-	<u>LABOUR</u>						
1.01	10	Local	Days					
1.02	10	Expatriate	Days					
2	-	<u>EQUIPMENT</u>						
2.01	25	Welding set for two welders	Hours					
2.02	25	Acetylene cutting equipment	Hours					
2.03	25	Air compressor (180 m ³ /hr. at 7 atmospheres) complete with hoses and tools	Hours					
2.04	20	Live line scaffolding complete for 1 existing line (excluding labour element)	Hours					
2.05	25	Tractor with winch	Hours					
2.06	25	Tractor without winch	Hours					
2.07	25	5-tonne lorry	Hours					
2.08	25	2-tonne lorry	Hours					
2.09	10	5-seater saloon car (or similar)	Hours					

Item	Qty	Description	Unit	Local Transport & Erection				
				Foreign			Local	
				Foreign Currency	Rates	Total	Rates	Total
2.1	20	Bulldozer (D6 or similar)	Hours					
2.11	50	2 wheel trailer (for use with tractor or lorry).	Hours					
2.12	10	Unimong	Hours					
2.13	50	Landrover, jeep or similar	Hours					
2.14	50	Pick-up Truck	Hours					
2.15	10	Mobile crane up to 6 tonne lift	Hours					
3		<u>MATERIAL</u>						
3.01	20	Cement	ton					
3.02	50	Sand	m ³					
3.03	50	Crushed stone	m ³					
3.04	10	Reinforcing steel	m ³					
3.05	10	Structural ungalvanised mild steel sections	m ³					
3.06	30	Welding rods	kg					
3.07	20	Sawn timber	m ²					
3.08	100	Imported material for backfill	m ³					
3.09	150	Rubble stones for foundation work (150-300mm dia.)						
4		<u>Works</u>						
4.01	200	Rock blasting (controlled) or rock excavation and carting away	m ³					
		Total						

The following rates shall apply where, by agreement with the Employer's Representative, supervisory staff are employed on day works in a direct capacity, i.e. other in their normal supervisory capacity.

The rates also be used as a basis for assessing any legitimate claims for extra costs in accordance with the provisions of the Conditions of Contract, where these have not been claimed as dayworks.

No payment shall be made without the prior written authority of the Employer's Representative, and the provisions of the conditions of Contract shall apply to any claim for payment.

The Contractor shall insert in the following Schedule descriptions and rates for any clause of supervisory staff envisaged which are not already included.

Class of supervisory staff	Normal working Day of 8 Hours
	Foreign
Expatriate	Currency / Day
Senior Engineer	
Junior Engineer	
Surveyor	
Foreman	
Local	LKR./Day
Surveyor	
Foreman	

Schedule No. 8 - Rates for Variations**PART I – CIVIL WORKS**

The Tenderer is reminded that this is a Turnkey Contract. No additional costs will be considered for any items, which the Tender has overlooked.

The Tenderer shall insert rates against each of the items listed in the Schedule. The rates shall be analogous to those used in calculating the Tender Price, and shall be used to evaluate modifications omissions and or additions to the Works where these are instructed by the Employer's Representative before the commencement of the Maintenance Period.

The rates shall be the fully inclusive value of the work described including the cost of any temporary work associated therewith. They shall also include all overheads profit supervision accommodation insurance transport duties risks liabilities obligations and the like but shall exclude design cost which are included as a separate item. Design costs shall only be applied for the work, which necessitates the approval of calculations and/or drawings, by the Employer's Representative.

Rates for items not included in the Schedule shall be based on those quoted where appropriate. Where no suitable rates are existing a new rate based on invoices and other cost records may be agreed. In the event of disagreement, the Employer's Representative shall fix such rates or prices as shall, in his opinion, be reasonable and proper having regard to the circumstances.

The Contract Price shall be adjusted on the basis of the value of the Employer's Representative's instructions priced as described in the foregoing paragraphs

Item	Description	Unit	Rate
			LKR
1	Foundation Piling		
1.1	Mobilisation & Demobilisation	Item	
1.2	Type and size of pile :		
1.2.1	Type : Cast in situ		
	Size : 460 mm Dia Pile	lin.m	
1.2.2	Type : Precast		
	Size: 350 mm x 350 mm square	lin.m	
2	Excavation		
2.1	Excavated to reduced level and remove and deposit where directed on site-include of timbering, de-watering, etc. (measured net sized as drawing)	cu.m	
2.2	Excavated to form pit, base, or trench as previously described	cu.m	
2.3	Additional excavation beyond net sizes for working space to fix and remove form work and to backfill	cu.m	
2.4	Extra Over excavation rates for excavation in rock and carting away	cu.m	
2.5	Approved hard-core well rammed and consolidated in layers of various thickness up to 300 mm and blinded to concrete		
3	Concrete		
3.1	Grade C10 in weak fill	cu.m	

Item	Description	Unit	Rate
			LKR
3.2	Grade C10 in 50 mm thick blinding	sq.m	
3.3	Grade C20 in foundations and bases	cu.m	
3.4	Grade C25 in foundations and bases		
4	Reinforced Concrete		
4.1	Grade C30 concrete in foundations bases, plinths, etc.	cu.m	
4.2	Grade 20 concrete, ditto	cu.m	
4.3	Grade C25 concrete, ditto	cu.m	
4.4	Grade C25 concrete in columns	cu.m	
4.5	Grade C25 concrete in beams	cu.m	
4.6	Grade C25 concrete in walls	cu.m.	
4.7	Extra over all concrete rates for sulphate resisting cement	cu.m	
5	Reinforcement		
5.1	16 mm Diameter and upwards mild steel bar or round reinforcement hooked, bent and fixed including all necessary tying wire	Kg	
5.2	12 mm Diameter as previously described	Kg	
5.3	10 mm Diameter as previously described	Kg	
5.4	Fabric reinforcement weighing 4 kg per square meter, including fixing	Sq.m	
5.5	Extra over mild steel rates for high tensile reinforcement (as sizes)	Kg	
6	Formwork		
6.1	To foundations	sq.m	
6.2	To columns	sq.m	
6.3	To soffits of beam	sq.m	
6.4	To walls	sq.m	
6.5	To soffits of slabs	sq.m	
6.6	Extra over straight formwork for in any position	sq.m	
7	Pre-cast Concrete		
7.1	Including reinforcement and hoisting		
7.2	1 meter wide x 130 mm thick plant with ditto and ditto	lin.m	
7.3	50 mm thick paving slabs size 600 mm square on and including bed of sand	sq.m	
7.4	Duct or cable trench covers	sq.m	
8	Sundries		
8.1	Damp proof membrane under floor slab	sq.m	
8.2	Form pocket in concrete 150 mm square x 450 mm deep	No.	
8.3	Form pocket in concrete 100 mm square x 225 mm deep	No.	
8.4	Form anti-vibration joint 18 mm wide x 200 mm deep and seal with approved sealant	lin.m	
8.5	Concrete contraction joint s	lin.m	
9	Block-work		
9.1	100 mm thick hollow cement block walling in mortar, left rough for plaster both sides and include for all labour, cutting and waste	Sq.m	
9.2	150 mm thick solid cement block walling as before described	Sq.m	
9.3	200 mm thick hollow cement block walling in mortar and left rough for plaster both sides and include for all labour cutting and waste	sq.m	
9.4	Extra over 200 mm block walling as before described or reinforcing every second horizontal bed joint with approved reinforcement	sq.m	

Item	Description	Unit	Rate
			LKR
9.5	Form 300 mm square opening in 200 mm thick concrete block walling	No.	
9.6	Bituminous felt damp proof course and bed and point in walling	sq.m	
9.7	Brick masonry in wall panel in concrete framed building	sq.m	
9.8	R/R/ Masonary walls	cu.m	
10	Roofing		
10.1	Lightweight screed of pumice aggregate or similar, laid to falls	sq.m	
10.2	Asphalt covering in two layers total 20 mm thickness, laid to falls on sheathing felt, including for dressing over edges and round pipes, etc. and for white spar chipping.	sq.m	
10.3	Asbestos cement corrugated sheets fixed to and including steel purlins, to include labour, fixing, laps, cutting and waste	sq.m	
11	Joinery		
11.1	50 mm plywood faced, solid core, flush door size 85 x 200 cm hung complete, including door frame, door fittings' locks and decoration as specified		
11.2	Adjustable louvred ventilators, at high or low level, fixed complete, including for hardwood and metal framing and glassing louvers complete	sq.m	
11.3	Double leaf smoke-stop door 16=70 cm. Side x 200 cm high, opening in direction indicated, fully glazed with wired glass		
12	Structural Steelwork		
12.1	Galvanised mild steel structural steelwork fabricated, and erected	Tonne	
12.2	Galvanised mild steel support structures for sub station equipment and take off structures fabricated and erected in sub station	Tonne	
13	Metalwork		
13.1	Galvanised steel louvers, fixed complete	sq.m	
13.2	60 x 60 m mild steel angle with lugs welded on and stop to support chequered plate (measured elsewhere) cover to cable trench include for forming rebate for angle bedding, grouting and fixing	lin.m	
13.3	8 mm thick galvanised mild steel chequered plate cover to cable trench and include for fixing	sq.m	
13.4	Supply, bed and fix complete aluminium windows with sliding lights with and including glass and glazing with fittings	sq.m	
13.5	Steel door 850x2000mm		
14	Building Work in Connection with Service and Plant Installation		
14.1	Cut or form hole for pipe through 150 mm thick cement block walling and make good plaster both sides	No.	
14.2	Cut or form hole for pipe through 200 mm thick concrete block wall as described before	No.	
14.3	Cut or form hole for pipe through 250 mm overall thickness cavity block wall as before described	No.	
14.4	Cut or form hole for pipe through 150 mm thick reinforced concrete wall	No.	
14.5	Cut or form hole for pipe through 150 mm thick reinforced concrete slab	No.	
14.6	100 mm thick solid concrete block walling in cement mortar in duct walls finished fair face with flush joint one side	sq.m	
14.7	Concrete Class "C30" in plinth or base including all necessary formwork	cu.m	
14.8	Break-out reinforced concrete exceeding 300 mm thick and remove	sq.m	
14.9	Break-out reinforced concrete exceeding 300 mm thick and remove	cu.m	
14.1	Break-out 200 mm thick rendered/plastered hollow concrete block walling and remove	sq.m	

Item	Description	Unit	Rate
			LKR
14.1	Ditto but 100 mm overall thickness concrete block-work cavity wall	sq.m	
14.1	Ditto but 250 mm overall thickness concrete block-work cavity wall	sq.m	
14.1	Cut chase for conduit or pipe in brick or block walling and make good	lin.m	
14.1	Cut chase for conduit in concrete and make good	lin.m	
14.2	Supply and fix complete light switch	No.	
14.2	Supply and fix complete power socket outlet 13 AMPS	No.	
14.2	Supply and fix complete light fittings (60 Watt fluorescent)	No.	
15	Plasterwork and other Floor Wall and Ceiling Fishes		
15.1	Plasterwork as specified on concrete block walling inclusive of forming key, narrow widths, small quantities and all labors	sq.m	
15.2	Ditto but on ceilings	sq.m	
15.3	Tyrolean external render as specified on concrete and block walling as previously described	sq.m	
15.4	40 mm thick cement and sand screed finished hard and smooth with surface hardener	sq.m	
15.5	Ceramic tiles laid on screeded floor	sq.m	
15.6	Ditto in walls	sq.m	
16	Glazing		
16.1	3 mm clear sheet glass and glazing in various sizes to wood or metal frames with mastic putty	sq.m	
16.2	4 mm wired cast glass and ditto	sq.m	
17	Paint and Decoration		
	Preparing and Applying the Following Finished Surface All as Specified and Described	sq.m	
17.1	Emulsion on fair face concrete or block walling	Sq.m	
17.3	Emulsion on Tyrolean rendered walls	sq.m	
17.4	Emulsion on plastered soffit	sq.m	
17.5	Paint as specified to wooden frames and doors	sq.m	
17.6	Paint – ditto – to steel surfaces	sq.m	
18	Roads and Fences		
18.1	Constructed complete, including excavation or fill, compacted stone base, sub-based, etc	sq.m	
18.2	2.5 m high 200 mm thick rendered concrete block wall with coping, piers		
	Security barbed wire etc. erected complete as specified including excavation, concrete footings etc.	Lin.m	
18.3	Double leaf gates all as specified	No.	
18.4	Block masonry boundary walls 1.5m high	lin.m	
19	Drainage		
19.1	100 mm pipe laid and jointed complete average depth to invert 1 meter, including excavation and reinstatement	lin.m	
19.2	150 mm ditto and ditto	lin.m	
19.3	Ditto but average depth to invert 2 meters and ditto	lin.m	
19.4	Manhole constructed complete, including excavation, rendered concrete walls, benching, cover and frame, internal size	No.	
	Size 1.3 x 1.0 meter, depth to invert not exceeding 2 meters		
19.5	Ditto but inspection chamber, internal size 600x500 mm not exceeding 500 mm to invert	No.	

Item	Description	Unit	Rate
			LKR
20	Water Supply		
20.1	40 mm diameter UPVC pressure pipe laid complete, depth not exceeding 1 meter	lin.m	
20.2	40 mm diameter sluice valve laid and jointed complete with hatch box and cover	No.	
21	Design Work		
	Percentage to be added to cost of construction, for design and detailing of any part of the work, including architectural, structural including architectural,. Structural	Item	

PART II – MECHANICAL AND ELECTRICAL WORKS

The Contractor is reminded that this is a Turnkey Contract in which he is entirely responsible for every aspect. No additional costs will be considered for any items, which the Contractor has overlooked, but which is essential for the proper completion of the project in every respect, so that the works fulfil the purpose for which they are required.

If the Employer or the Engineer requires modifications, additions or omissions to the scope of the Civil Works/services, during the period of construction or maintenance, adjustment to the contract price will be made on the basis of the rates entered in the following schedule.

The rates entered shall include all costs and expenses involved in the proper construction of the work, including overheads, profit, supervision, accommodation, insurance, transport, duties, all risks, liabilities or obligations, etc., but excluding design costs, which are covered by a separate item.

The rate will be used to evaluate Employer's or Engineer's modifications, omissions or additions to the works. Rates for any items not included shall be based on those quoted or analogous thereto.

The tenderer shall price all items, which are relevant to his design and tender.

Item	Description	Unit	Rate Sri – Lanka Rupees
1	Mechanical	each	
1.1	Extract ventilation units	m	
1.2	Ductwork 25 mm	m	
1.3	Ductwork 38 mm	m	
1.4	Ductwork 50 mm		
1.5	Ductwork (weather proof) 50 mm	m	
1.6	Extract air grills complete with internal fittings, gaskets screws, etc. as specified	each	
1.7	External louver for item 6	each	
1.8	Air Conditioning unit (split type)	each	
2	Electrical		
	Switches complete with box, up to 3 m circuit wiring, junction box and glands		
2.1	Surface 15 amp 1 way	per gang	
2.2	Surface 15 amp 2 way	per gang	
2.3	Spur unit complete with box, up to 6m of circuit wiring junction box and glands	per gang	
2.4	Type S1 surface	per gang	
2.5	Type S2 fixed spur box	per gang	
2.6	Time switch	each	
2.7	Photo-electric cell control	each	
2.8	Extra circuit wiring	m	

PART III – EXTRA WORKS**CONTROL AND POWER CABLES**

(See Employer Requirements for details)

Bidder should extend in the table below based on drum lengths of each cable offered.

Item No.	Description	No of cores & cross section		Rate		
		mm ²		Foreign	Local	
1	12kV,33kV single phase XLPE cable					
1.1	Cable Supply rate per km					
1.2	Cable Installation rate per km					
1.3	Cable Termination rate per km					

EARTHING SYSTEM

(See Employer Requirements for details)

Earthing Supply and Installation
Rate per m/no.

Item	Supply		Install		Rates per Termination	
	Foreign	Local	Foreign	Local	Foreign	Local
Currency		LKR		LKR		LKR

Details:

Schedule No. 9 - Schedule of Major Items of Constructional Plant

Description (Type, Model, Make)	No. of Each	Year of Manufacture	New or Used	Owned (O) or Leased (L)	CIP Value	Est. Power Rating	Capacity ton or m3