

**DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA**  
**MINISTRY OF HEALTH, NUTRITION & INDIGENOUS MEDICINE**

**RE-LOCATION AND RENOVATION OF MAIN  
LABORATORY (ELECTRICAL WORKS)**

**General Hospital (Teaching) - Peradeniya**

**BIDDING DOCUMENT**

**Volume II**

**Invitation for Bids**

- Section 04 - Form of Bid and Qualification Information**  
**Section 05 - Bidding Data and Contract Data**  
**Section 07 - Bill of Quantities**

**Contractor .....**

**CONSULTANT**

CENTRAL ENGINEERING CONSULTANCY BUREAU  
415, BAUDDHALOKA MAWATHA,  
COLOMBO 07.

**CLIENT**

MINISTRY OF HEALTH, NUTRITION & INDIGENOUS MEDICINE  
“SUWASIRIPAYA “  
385, REV BADDEGAMA WIMLAWANSA THERO  
MAWATHA  
COLOMBO 10

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# **INVITATION FOR BIDS**

## INVITATION FOR BIDS (IFB)

1. The Chairman, Regional Procurement committee **General Hospital (Teaching), Peradeniya** on behalf of the **Tender Board** now invites sealed bids for **Re - Location and Renovation of Main Laboratory (Electrical Works) for General Hospital (Teaching), Peradeniya** as described below and estimated to cost~ 31.35 million (Basic cost)
2. Work consists of Re - Location and Renovation of Main Laboratory (Electrical Works) ..... etc. (refer BOQ)

Construction period is **90 days (Calendar dates)**

3. Bidding will be conducted through National Competitive Bidding Procedure.
4. To be eligible for contract award, the successful bidder shall not have been blacklisted and shall meet the following requirements.

4(a) Contractors having valid registration in Grade **EM3 & above** in the field of Electrical & Mechanical Services under Construction Industry Development Authority (CIDA)/ Former ICTAD.

4(b) Contractor has successfully completed at least two similar projects to this by value and complexity during last five years. Contractor should submit completion certificate and performance certificate.

4(c) Average annual volume of Construction works performed in the last five years shall be at least **Rs.40 million**.

4d) As the estimate cost for the procurement exceeds the Rs.5 million the bidder shall register at the registrar of Public Contract Sri Lanka at the time of submission of bids (PCA 3) and forward the certificate

5. Interested bidders may obtain further information from **Director, General Hospital (Teaching), Peradeniya for Re - Location and Renovation of Main Laboratory (Electrical Works)**, and inspect the bidding documents at the address given below from 2025.04.17 until 2025.05.02 from 09.00 hrs to 14.00 hrs
2. A Complete set of Bidding Documents in English language may be purchased by interested bidders on the submission of a written application to **Director, General Hospital (Teaching), Peradeniya for Re - Location and Renovation of Main Laboratory (Electrical Works)** from 2025.04.17 until 2025.05.02 from 09.00 hrs to 14.00 hrs or download the bidding document from below web site upon payment of a non-refundable fee of Rs. 3,500.00.

6. Sealed bids shall be delivered in duplicate marking as the **Original** and the **Copy** to the **address below**, on or before 14.00 hrs. on 2025.05.02. Late bids will be rejected. Bids will be opened soon after closing in the presence of the Bidders or Bidder's representatives who choose to attend.
7. Bid validity shall be 91 days from the date for closing of Bids.
8. All bids shall be accompanied by a "Bid security" of **Rupees three hundred forty-five thousand only (Rs. 345,000.00)**. Validity of Bid security shall be 119 days from the date of closing of the bid (including closing date of bid).

*Securities and guarantees issued by an agency acceptable to employer using the forms for bid security (unconditional guarantee) included in section 09, Standard forms.*

- *Commercial Bank operating in Sri Lanka approved by the Central Bank of Sri Lanka.*
- and*
- *Construction Guarantee Fund.*

The address referred to above is,

Chairman,  
Regional Procurement committee,  
Teaching Hospital  
Peradeniya,  
Tel 081 - 3990312

**Section - 4**

**FORM OF BID AND QUALIFICATION  
INFORMATION**

# FORM OF BID

Name of Contract: **Re - Location and Renovation of Main Laboratory (Electrical Works)**

To: Director,  
General Hospital (Teaching),  
Peradeniya.

Gentleman,

1. Having examined the Standard Bidding Document - Procurement of Works (ICTAD/SBD/01-Second edition, January 2007 and Addendum 01 issued in October 2009 & Addendum 02 issued in February 2011) , Schedule for Conditions of Contract, Specifications, Drawings and Bill of Quantities and Addenda for the execution of the above-named Works, we the undersigned, offer to execute and complete such Works and remedy any defect therein in conformity with the aforesaid Conditions of Contract, Specifications, Drawings, Bill of Quantities and Addenda for the sum of Sri Lankan Rupees ..... (LKR Rs. ....) or such other sums as may be ascertained in accordance with the said Conditions.
2. We acknowledge that the Contract Data forms part of our Bid.
3. We undertake, if our Bid is accepted, to commence the Works as stipulated in the Contract Data, and to complete the whole of the Works comprised in the Contract within the time stated in the Contract Data.
4. We agree to abide by this Bid for the period of 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 understand that you are not bound to accept the lowest of any Bid you may receive.

Dated this..... Day of ..... 202.. in the capacity of..... Duly authorized to sign bids for and on behalf of .....

.....

(IN BLOCK CAPITAL)

Signature : .....  
Address : .....  
.....  
.....  
Witness : .....  
.....

## QUALIFICATION INFORMATION

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

<b>ICTAD Registration</b>	<i>(Attach copies of relevant pages from the registration book)</i>
Registration number	
Grade ( <b>EM3 &amp; above</b> )	
Specialty – ( <b>Electrical &amp; Mechanical Services</b> )	
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>	
<b>Legal status</b>	<i>(Attach relevant status copies, as annex)</i>
<b>Construction Program</b>	<i>(Attach as annex)</i>
<b>Value of similar works completed in last 5 years (Indicate only three largest projects)</b>	1. Value Rs..... Year ..... 2. Value Rs..... Year ..... 3. Value Rs..... Year ..... (Attach certified copies of Letter of award & certificate of completion)
<b>Qualification and experience of key staff - Site &amp; Head Office (Permanent, Contract Basis &amp; Consultants)</b>	(Attach certified copies of certificates) Managerial / Technical:  1. Technical Assistant- Electrical (Full time at site)- NVQ 5 or equivalent with minimum five years experience  2. Electrical Engineer/ Mechanical Engineer (Periodical visits)– Qualification; (Degree in BSc Engineering, Minimum with three years experience)
<b>As the estimate cost for the procurement exceeds the Rs.5 Million the bidder shall register at the registrar of Public Contract Sri Lanka at the time of submission of bids (PCA 3) and forward the certificate</b>	

**Section - 5**

**BIDDING DATA AND CONTRACT DATA**

## G. BIDDING DATA

### Instructions to Bidders

**Clause Reference (1.1)**

The Employer is  
Name: **Director**  
Address: **General Hospital (Teaching), Peradeniya.**

Work consists Re - Location and Renovation of Main Laboratory (Electrical Works)...etc.

For more information, please refer the Bill of Quantities.

**(1.2)** Intended Completion Date is **90 Days** from the Start Date.

**(1.3)** The office for collection of bid form is  
**Director**  
**General Hospital (Teaching),**  
**Peradeniya**

The non-refundable Bid fee is **Rupees 3,500.00**  
The Bid forms will be issued **until 14.00 hrs. on 2025.05.02**

**(2.1)** The source of funds is GOSL

**(4.2)** The registration required for main contractor:  
Specialty - Electrical & Mechanical Services  
Grade - EM3 & above

**(4.3)**

- The Following information shall be provided in Section 4 for the bidder
- CIDA Registration
  - Registration number:
  - Grade
  - Specialty
  - Expiry Date
- VAT Registration number
- Construction program
- Legal status (Sole proprietor, partnership, company etc.)
- Total monetary value of construction work performed for each of the last five years;
- Experience in works of a similar nature and size for each of last five years;
- Major items of construction equipment proposed to carry out the contract; (if specified equipment be needed)
- Qualifications and experience of key site management and technical personnel proposed for the contract
- As the estimate cost for the procurement exceeds the **Rs.5 Million** the bidder shall register at the registrar of Public Contract Sri Lanka at the time of submission of bids (PCA 3) and forward the certificate

(4.4)

Post qualification criteria:

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

- Average annual volume of construction work performed in the last five years shall be at least **Rs. 40 Million**.
- Experience in the construction of at least two contract of a nature and complexity equivalent to the Works over five years.
- Minimum persons with qualifications and experience.

**Managerial / Technical**

Minimum persons with qualifications and experience to be defined,

- Technical Assistant- Electrical (Full time at site)- NVQ 5 or equivalent with minimum five years' experience.
- Electrical Engineer/ Mechanical Engineer (Periodical visits)– Qualification; (Degree in BSc Engineering, Minimum with three years' experience)

(8.1)

Content of Bidding Document

Content of the bidding document changed as follows to fulfill bidder's requirement in submission of Bid.

The Bidding document comprise the documents listed below

Invitation for Bids

Section 1 – Instruction to Bidders

Section 2 - Standard Forms (Contract)

Section 3 - Condition of Contract

Section 4 - Form of Bid and Qualification Information

Section 5 - Bidding Data and Contract Data

Section 6 - Specifications

Section 7 - Bills of Quantities and Technical Schedules

Section 8 - Drawings

Section 9 - Standard Forms (Bid)

(9.1)

Employer's address for the purpose of clarification is;

Name : **Director**

Address : **General Hospital (Teaching),  
Peradeniya.**

Tel : .....

- (11.1) The language of the bidding document shall be English.
- (12.1) The Bid submitted by the bidder shall comprise the following:
- (A) enclosed in the envelope marked as “ORIGINAL”;
- (a) Bidding Document
- (b) Bid security or Bid-Securing Declaration as specified
- (B) enclosed in the envelop marked as “COPY”
- (a) Form of Bid & qualification information
- (b) Bill of Quantities
- (13.3) **Only VAT will be paid.**  
VAT component shall not be included in the rates. The amount written in the Form of Bid shall be without VAT. However, VAT component shall be shown separately at the end of the BOQ.
- (13.4) The Contract is **not subjected** to price adjustment in accordance with Clause 47 of the Conditions of Contract.
- (15.1) The Bid shall be valid up to 91 Days from closing date of Bid.
- (16.1) Bid shall include a Bid Security using the form included in Section 9.
- (16.2) Bid Security shall be;
- For an amount **Rs. 345,000.00.**
  - Valid until 119 days from closing date of Bid. ( Date:.....)
- Securities and guarantees issued by an agency acceptable to employer using the forms for bid security (unconditional guarantee) included in section 09, Standard forms.
- Commercial Bank operating in Sri Lanka approved by the Central Bank of Sri Lanka.
  - Constructions Guarantee Fund
- (17.0) Pre Bid meeting will be held at **conference room of the General Hospital (Teaching), Peradeniya.** at 10.30 hrs on 2025.04.24
- (19.2) a The Employer’s address for the purpose of Bid submission is:
- Chairman,  
Regional Procurement committee,  
Teaching Hospital  
Peradeniya,
- (19.2) b Contract name: **Re - Location and Renovation of Main Laboratory (Electrical Works) for General Hospital (Teaching), Peradeniya**  
Contract No. : .....

(20.1) The deadline for submission of Bids shall be **14.00 hrs on 2025.05.02**

(34.0) The amount of **Performance security is 5% of the Initial Contract Price.**

The form acceptable is sample format which is in Section 2, Standard Forms.

*Securities and Guarantees issued by an agency acceptable to employer using the forms for Performance Bond (Unconditional Guarantee- Validity should be 28 days beyond defect liability period) included in Section 2, standard forms. The agencies acceptable to the Employer are*

- *Commercial Bank operating in Sri Lanka approved by the Central Bank of Sri Lanka.*
- *Constructions Guarantee Fund*

(35.1) The advance payment security is 20% of the initial Contract price excluding provisional sum.

Securities and guarantees issued by an agency acceptable to employer using the forms for Advance Payment Bond (Unconditional Guarantee -*Validity should be 28 days beyond Intended Completion date*) included in– Section 2, Standard Forms. The agencies acceptable to the Employer are

- *Commercial Bank operating in Sri Lanka approved by the Central Bank of Sri Lanka.*
- *Constructions Guarantee Fund*

(36.0) At the time of awarding stage of contract, an **Adjudicator** will be jointly appointed by the client and selected bidder.

Appointing Authority is Construction Industry Development Authority (CIDA), “Savsiripaya”, 123, Wijerama Mawatha, Colombo 07.

*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 is that of Conditions of Contract)*

(1.1) The Employer is

Name : **Director**

Address : **General Hospital (Teaching), Peradeniya.**

Name of Authorized Representative:

**Director,  
General Hospital (Teaching),  
Peradeniya**

(1.1) The Engineer is

Name : **The General Manager**

Address : **Central Engineering Consultancy Bureau  
: No.415, Bauddhaloka Mawatha,  
: Colombo 07.**

Name of Engineer's Representative: **Project Manager (Hospital Consultancy Works)  
CECB Office- Digana**

**Tel: 0812-376320/Fax: 0812-374228**

(1.1) Work consists of Re - Location and Renovation of Main Laboratory (Electrical Works) ...etc

For more information, please refer the Bill of Quantities.

(1.1) Site is located at General Hospital, Peradeniya

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

(8.1) Schedule of other contractors: None

(9.1) Schedule of Key Personnel:

Minimum persons with qualifications and experience to be defined,

### **Managerial / Technical**

- Technical Assistant- Electrical (Full time at site)- NVQ 5 or equivalent with minimum five years' experience.
- Electrical Engineer/ Mechanical Engineer (Periodical visits)- Qualification; (Degree in BSc Engineering, Minimum with three years' experience).

(13.1)

(a) The minimum insurance cover shall be:

The minimum cover for insurance of the Works and of Plant and Material is **110% of the Initial Contract price.**

- The maximum deductible for insurance of Works and of Plant and Material is **5% of initial Contract price.**

(b) **Contractor's Equipment**

- The minimum cover for loss or damage to Equipment is "**Cost of equipment**"
- The maximum deductible for insurance of Equipment is **5% of the minimum cover for equipments**

(c) The minimum cover for insurance of other property (other than the site):

- Five Hundred Thousand

(d) **The minimum cover for personal injury or death: Third Party & Employer**

- For third party and employees of the Employer and other persons engaged by the Employer in the Works is **Rupees Five Hundred Thousand** per event. Number of events unlimited.

(13.2) (a) The minimum cover for personnel injury or death- **Contractor's workers and Staff,**

- For the Contractor's workmen is Rs. **500,000.00** per event. Number of events unlimited. This Insurance cover shall be governed as per the workmen compensation Act of Sri Lanka
- Contractor's employee's other than workmen is Rs. **500,000.00** per event. Number of events unlimited.

(17.1) The Intended Completion Date for the whole of Works shall be **90 Days 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 realistic Construction Programme for the works within **Seven Days** of delivery of the Letter of Acceptance.

(27.3) The period between Programme update is **30 Days.** But Contractor shall submit a revised programme whenever the previous programme is inconsistent with actual progress.

(27.4) The amount to be withheld for late submission of an updated Programme is **2% of Initial Contract Price.**

(35.1) The Defects Liability Period is **365 Days.**

(39.2) Engineer may order variations up to a total cumulative bill value including variation not exceeding 110% of initial contract sum

(40.2) In fixing the appropriate new rates, mark up for overheads & profits shall be limited to maximum of 16% of the “Basic Cost” of such items. The Basic cost means cost of materials, labour and equipments.  
In fixing such “Basic cost” the Engineer shall use the rates for labour as given below and prices for materials and equipments shall be used the prevailing market prices.”

Category	Rate (Rs)
Skill Labour	3,500.00
Semi Skilled Labour	2,600.00
Un Skilled Labour	2,500.00

(47.1) The contract is not subject to the price adjustment.

(48.1) The retention from each payment shall be **Ten percent** of the certified work done.

The limit of retention shall be **Five percent** of the Initial Contract Price.

(48.3) Not applicable.

(49.1) The liquidated damages for the whole of the Works shall be **0.05% of the Initial Contract Price per Day**.

The maximum amount of liquidated damages for the whole of the Works shall be **Ten percent** of the Initial Contract Price.

(52.1) The **Performance Security shall be Five percent** of the Initial Contract Price.

(58.1) Schedule of Operating and Maintenance Manuals. – As built drawings and operation manuals shall be submitted within 14 days after completion of each activity

(60.1) The percentage to apply to the value of the work not completed, representing the Employer’s additional cost for completing the Works, is **Twenty Five percent** of Balance work according to the Initial Contract Price.

(63.7) The attendance fee payable to the contractor on nominated/specialized sub contract work shall not exceed 8%

**Section - 7**

**BILL OF QUANTITIES**

**RE-LOCATION AND RENOVATION OF MAIN LABORATORY (ELECTRICAL WORKS)**  
**GENERAL HOSPITAL (TEACHING) - PERADENIYA**

<b>Item</b>	<b>Description</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate</b>	<b>Amount</b>
<b>I</b>	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.				
<b>II</b>	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.				
<b>III</b>	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.				
<b>IV</b>	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.				
<b>V</b>	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.				
<b>VI</b>	All the quantities given here are approximated values and Quantities may change with the actual installation at the site.				
<b>VII</b>	All types of fittings, materials, painting and finishes shall be approved by the Engineer prior to installation.				
<b>VIII</b>	All panel boards and consumer units should have wire numbering and a laminated circuit diagram should be pasted on the inside surface of the door.				

Item	Description	Unit	Qty.	Rate	Amount
1.00	<b><u>Electrical Distribution System</u></b> Associated work for the getting Electricity connection from existing Panel board.( Using 160A,3Phase Electricity Connection)				100,000.00
		Pro. sum.			
2.00	<b><u>DB-01 (Near the existing MDB in electrical room )</u></b> Supply and installation of 160A, 4P MCCB,25 kA with 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,surface type steel enclosure and all other accessories	No.	1		
3.00	<b><u>Bus Bar Box-01</u></b> Supply & installation of 200 A Cu Bus bars for L1,L2,L3 & N with powder coated steel enclosure and all other accessories.	No.	1		
4.00	<b><u>MDB</u></b> 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,surface type steel enclosure to the approval of the engineer with following equipment.  01 No 160A, 4P MCCB,16 kA Breaking capacity complete with all other accessories. 01 No ELR with core balance and all protection, 0.1 A - 10 A adjustable leakage current.  01 set of Digital Multifunction Power annalyzer with protection. 01 No 125 A, 4P MCCB 16 kA Breaking capacity. (fixed type) 03 No 63 A, 4P MCCB 16 kA Breaking capacity. (fixed type) 01 No 32 A, 4P MCCB 16 kA Breaking capacity. (fixed type) 01 Set of 200A Cu Bus bars for L1,L2,L3 & N 01 No Earth Bar All required CTs and protection devices. 01 Set of indicators with protection Supply and installation of <b>Class I+II</b> Surge diveter with 12.5 kA imp. Impulse discharge current, <b>50 kA max. Maximum discharge current</b> , 30 kA nominal discharge current(8/20), respond time <= 25ns, Uc >= 280V and prtction level <= 1.3kV (including 50kA HRC fuses)  All internal connections. <b>Equipment to be to the BS/IEC</b>	No.	1		

Item	Description	Unit	Qty.	Rate	Amount
5.00	<p><b><u>Distribution Board (SDB-LAB)</u></b>  Supply and installation of switch gear cubicle made <b>out of (1.5mm thickness) sheet steel (IP54) stove enameled or powder coated for the finish with one coat of primer,surface type steel enclosure</b> to the approval of the engineer with following equipment.</p> <p>01 No 125A, 4P MCCB,16 kA Breaking capacity complete with all other accessories.  01 Nos. 63A, 4P MCB,10kA  04 Nos. 32A, 4P MCB,10kA  03 Nos. 32A, 2P MCB,10kA  01 Set of 150A Cu Bus bars for L1,L2,L3 &amp; N  01 No Earth Bar  01 Set of indicators with protection</p> <p>Supply and installation of <b>Class II Surge diveter with 40 kA max. maximum discharge current, 20 kA nominal discharge current(8/20), respond time &lt;= 25ns, Uc &gt;= 280V and prtction level &lt;= 1.3kV (including 40kA HRC fuses)</b></p> <p>All internal connections.  <b>Equipment to be to the BS/IEC</b></p>	No.	1		
6.00	<p><b><u>Three Phase Consumer Unit</u></b>  Supply and installation of switch gear cubicle made <b>out of (1.2mm thickness) sheet steel (IP54) stove enameled or powder coated for the finish with one coat of primer,surface type steel enclosure</b> to the approval of the engineer with following equipment.</p> <p><b><u>Type-1</u></b>  01 Nos. 63A, 4P Isolator  02 Nos. 40A 4P RCCB, 100mA sensitivity  06 Nos. 40A 2P RCCB, 30mA sensitivity  02 Nos. 16A, 4P MCB,6kA  03 Nos. 32A, 2P MCB,6kA  24 Nos. 6-32A, 1P MCB,6kA  01 No Earth Bar  01 Set of indicators with protection</p> <p>All internal connections.  <b>Equipment to be to the BS/IEC</b></p>				

Item	Description	Unit	Qty.	Rate	Amount
6.01	In Microbiology Laboratory (TCU-MICRO)  <b>Type-2</b> 01 Nos. 40A, 4P Isolator 02 Nos. 40A 4P RCCB, 100mA sensitivity 06 Nos. 40A 2P RCCB, 30mA sensitivity 02 Nos. 16A, 4P MCB,6kA 03 Nos. 32A, 2P MCB,6kA 18 Nos. 6-32A, 1P MCB,6kA 01 No Earth Bar 01 Set of indicators with protection All internal connections. <b>Equipment to be to the BS/IEC</b>	No.	1		
6.02	In Biochemistry Room (TCU-BIO)  <b>Type-3</b> 01 Nos. 40A, 4P Isolator 06 Nos. 40A 2P RCCB, 30mA sensitivity 03 Nos. 32A, 2P MCB,6kA 21 Nos. 6-32A, 1P MCB,6kA 01 No Earth Bar 01 Set of indicators with protection All internal connections. <b>Equipment to be to the BS/IEC</b>	No.	1		
6.03	In Urine Section (TCU-URINE)	No.	1		
6.04	In Historology Room (TCU-HISTO)	No.	1		
6.05	In Heamatology Section (TCU-HEAMA)	No.	1		
7.00	<b>Cables</b> Supply and installation (with all materials required including conduits/casinginclude, use proper termination accessories Cable glands, lug, SS nut and bolt sets and termination) of following cables.				
7.01	50mm <sup>2</sup> ,1C X 4 Cu/XLPE/PVC cables From Existing MDB(In Electrical panel room) to DB-01	m	8		
7.02	From Bus Bar Box-01 to MDB	m	15		
7.03	04 set of 3×95mm <sup>2</sup> AL/XLPE + N 70mm <sup>2</sup> Aerial Bundle (ABC) cable <b>From DB-01 to Bus Bar Box-01 (including bi metal lug and all necessary accessories for Bundle cables)</b>	m	250		
7.04	25 mm <sup>2</sup> CU/PVC Earth cable <b>from MDB to Main Earth Electrode.</b>	m	15		
7.05	35mm <sup>2</sup> Cu/PVC/PVC 1C×4 cable + 16mm <sup>2</sup> Green & Yellow Earth cable <b>from MDB to SDB-LAB</b>	m	60		

Item	Description	Unit	Qty.	Rate	Amount
7.06	16mm <sup>2</sup> Cu/PVC/PVC 1C×4 cable + 16mm <sup>2</sup> Green & Yellow Earth cable <b>from SDB-LAB to TCU-MICRO</b>	m	50		
7.07	6mm <sup>2</sup> Cu/PVC/PVC 1C×4 cable + 6mm <sup>2</sup> Green & Yellow Earth cable <b>from SDB-LAB to TCUs</b>	m	200		
8.00	<b><u>Cable management system</u></b> Allow Provisional sum of cable management system for ABC cables which may occur during installation.			Pro. sum.	3,000,000.00
9.00	<b><u>Light Fittings</u></b> <b>Note :-</b> <b>Warranty of all complete LED light fitting must be minimum two years.</b>  Supply and installation of Recessed type/ surface type White, Squre shape <b>12W LED panel light fitting, minimum flux 780 lumens</b> with accessories.				
9.01	In Comman Area	Nos.	10		
9.02	In Microbiology Laboratery	Nos.	8		
	Supply and installation of Surface type White, Squre shape <b>18W LED panel light fitting, minimum flux 1480 lumens</b> with accessories.				
9.03	In Urine Section	Nos.	10		
9.04	In Microbiology Laboratery	Nos.	70		
9.05	In Biochemistry Room	Nos.	15		
9.06	In Historology Room	Nos.	19		
9.07	In Heamatology Section	Nos.	14		
	Supply and installation of <b>indoor type wall mounted light fitting</b> with <b>9W LED, minimum flux 700 lumens</b> with accessories.				
9.08	In Historology Room	Nos.	2		
	<b><u>Light Point Wiring</u></b> Wiring (including supply of all materials) of the above light points using approved type PVC insulated PVC sheathed 1 mm <sup>2</sup> copper cable drawn through securely fixed concealed PVC conduit/casing with accessories.				
9.09	In Comman Area				
9.10	In Urine Section	Nos.	10		
9.11	In Microbiology Laboratery	Nos.	78		
9.12	In Biochemistry Room	Nos.	15		
9.13	In Historology Room	Nos.	21		
9.14	In Heamatology Section	Nos.	14		

Item	Description	Unit	Qty.	Rate	Amount
<b>10.00</b>	<b><u>Socket Outlets</u></b> <b><u>13A Socket outlets</u></b> Supply & installation of 13A shuttered switched single socket outlet to comply with BS .				
10.01	In Urine Section	Nos	19		
10.02	In Microbiology Laboratory	Nos	30		
10.03	In Biochemistry Room	Nos	30		
10.04	In Historology Room	Nos	34		
10.05	In Heamatology Section	Nos	39		
	<b><u>Wiring of 13A Socket outlets (radial circuit)</u></b> Wiring (including supply of all material required ) of 13A socket outlets using approved type 2.5mm <sup>2</sup> Cu/PVC/PVC, 2C cable & 2.5mm <sup>2</sup> earth cable drawn through securely fixed concealed PVC conduit/casing.				
10.06	In Urine Section	Nos	19		
10.07	In Microbiology Laboratory	Nos	30		
10.08	In Biochemistry Room	Nos	30		
10.09	In Historology Room	Nos	34		
10.10	In Heamatology Section	Nos	39		
	<b><u>32A, 3 pins Industrial Socket outlets</u></b> Supply,installation & Wiring of <b>32A, 3 pins Industrial Socket outlets</b> using approved type 6mm <sup>2</sup> Cu/PVC/PVC, 2C cables & 6mm <sup>2</sup> earth cable drawn through <b>PVC trunking</b> with all other accessories.				
10.11	In Urine Section	Nos	2		
10.12	In Microbiology Laboratory	Nos	4		
10.13	In Biochemistry Room	Nos	2		
10.14	In Historology Room	Nos	2		
10.15	In Heamatology Section	Nos	2		
<b>11.00</b>	<b><u>Air Conditioning</u></b> Supply and Installation of <b>Split Type 12000 BTU Inverter Air Conditioners</b> with all necessary accessories.Refrigerant should be <b>R-32 or R-410A.</b>				
11.01	In Urine Section	Nos	2		
	Supply and Installation of <b>Split Type 18000 BTU Inverter Air Conditioners</b> with all necessary accessories.Refrigerant should be <b>R-32 or R-410A.</b>				
11.02	In Urine Section	Nos	2		

Item	Description	Unit	Qty.	Rate	Amount
	Supply and Installation of <b>Split Type 24000 BTU Inverter Air Conditioners</b> with all necessary accessories.Refrigerant should be <b>R-32 or R-410A</b> .				
11.03	In Microbiology Laboratory	Nos	6		
11.04	In Historology Room	Nos	2		
11.05	In Heamatology Section	Nos	3		
	Supply and Installation of <b>Split Type 36000 BTU Inverter Air Conditioners</b> with all necessary accessories.Refrigerant should be <b>R-32 or R-410A</b> .				
11.06	In Microbiology Laboratory	Nos	2		
11.07	In Biochemistry Room	Nos	2		
	<b><u>Single Phase AC Unit Wiring</u></b> Wiring for AC units shall be terminated with a <b>13A socket outlet</b> installed near the AC unit at the level of AC unit. A <b>20A DP switch with neon indicator</b> shall be installed to control the AC unit. Wiring up to the 13A socket outlet through a 20A DP switch to control the AC unit shall be with <b>2.5mm<sup>2</sup>,2C Cu/PVC/PVC cable and 2.5mm<sup>2</sup> Cu PVC earth wire</b> , drawn through concealed PVC conduits, from the respective Consumer Units.				
11.08	In Urine Section	Nos	4		
11.09	In Microbiology Laboratory	Nos	6		
11.10	In Historology Room	Nos	2		
11.11	In Heamatology Section	Nos	3		
	<b><u>Three Phase AC Unit Wiring</u></b> Wiring for AC units shall be terminated with a 20A 4P Isolator installed near the outdoor AC unit.Wiring up to the 20A 4P Isolator to control the AC unit shall be with 2.5mm <sup>2</sup> ,1C× Cu/PVC/PVC cable and 2.5mm <sup>2</sup> Cu PVC earth wire, drawn through concealed PVC conduits, from the respective Consumer				
11.12	In Microbiology Laboratory	Nos	2		
11.13	In Biochemistry Room	Nos	2		
<b>12.00</b>	<b><u>Fans</u></b>				
12.01	Supply and installation of of type 1( complied with SLS 814) ceiling fan 1400mm dia. complete with 5 speed humfree (electrical switch size 85X85mm) regulator, safety switch and safety wire in working order - Excluding Wiring .	Nos	10		
12.02	Supply and installation of type 2 (approved by the engineer) wall fan with speed regulator in working order- excluding wiring.	Nos	6		

Item	Description	Unit	Qty.	Rate	Amount
12.03	Supply & installation of exhaust fan (Wall Mount Type Ventilating Fans, Automatic Shutter Louver Series), <b>300mm (12")</b> , <b>31W</b> , <b>min. 700 CFM</b> , <b>max. 40 dB(A)</b> with <b>PVC blade &amp; accessories.</b> <b>(including civil works)</b> <b><u>Wiring of Fans</u></b>	Nos	14		
12.04	Ceiling fan point wiring completed with fan hook - to be carried out with 2 x 1.0 mm <sup>2</sup> PVC insulated PVC sheathed copper cables and 2.5 mm <sup>2</sup> earth cable wired in concealed conduit in wall and above ceiling, to be supplied and installed in working order.	Nos	10		
12.05	Wiring (including supply of all materials) of the above exhaust fan points using approved type PVC insulated PVC sheathed 1 mm <sup>2</sup> copper cable drawn through securely fixed concealed PVC conduit with 2.5 mm <sup>2</sup> earth cable and 13 Amp single switch socket outlet in radial circuit.	Nos	14		
12.06	Wiring (including supply of all materials) of the wall fan points using approved type PVC insulated PVC sheathed 1 mm <sup>2</sup> copper cable drawn through securely fixed concealed PVC conduit with 2.5 mm <sup>2</sup> earth cable and 13 Amp single switch socket outlet in radial circuit.	Nos	6		
13.00	<b><u>Main Earthing System</u></b> Supply and Installation of all required materials and cables and connection to respective equipment to provide complete system.  Supply and Installation of a <b>copper earth plate (600mm x 600mm x 3mm) connection to 6mm<sup>2</sup> Cu/PVC Earth Cable. Earth resistance shall be less than 5 Ohms tested on a dry day.</b>	Item			
14.00	Removing existing defect panel boards, light fittings, socket outlets & properly handing over to the client. Cost for necessary main power cables, Earth cables, PVC trunkings, Terminal Blocks.....etc. when fixing new panel boards if required.	Pro.Sum.			1,000,000.00
15.00	<b><u>Inspection and Testing - Electrical installation</u></b>  Testing the installation and rectify any defects and submit a certificate by a Chartered Electrical Engineer.	Item			

Item	Description	Unit	Qty.	Rate	Amount
16.00	<b><u>Drawings</u></b> Provide three sets of 'As Built Drawings' (A3 size) to cover electrical distribution system binded as books.				
			Item		
17.00	<b><u>Telephone Network</u></b> <b>Note :-</b> <b>Cost for PABX is not included in this estimate.</b>				
17.01	<b><u>Data Rack</u></b> 19" Powder coated with front glass framed,Wall Mountable Enclosure 7u (w x h x d) with Cable Tray, Fan Plate, Louver Plate, 4 Way rack mountable Universal Power Panel, Cable Entry Plate,(NOS-30 M6 Screws,Washers, M6 Cage Nuts) and all other accessories..	No	1		
17.02	<b><u>Patch Panel</u></b> Supply and installation of 24 port patch panel 2U frame (including Tool-Less keystones)	No	1		
17.03	<b><u>Cable Management</u></b> Supply and installation of 24 Port Cable Management - 2U	No	1		
17.04	<b><u>Manageble Network Switch.(Layer 2)</u></b> 24 port Manageble, Layer 2 10/100 Network switch	No	1		
7.05	<b><u>Supplying and Installation of Power System</u></b> UPS 650 VA with 10 Minutes Backup time.(offline)	Nos	1		
17.06	<b><u>Patch leads</u></b> 1/2m Patch leads - Cat 6, Unshielded	Nos	24		
	<b><u>Wiring and installation DATA Socket Outlets</u></b> Supplying, wiring and installation of DATA socket outlets complete with CAT6 UTP caballing anside PVC casing Face plate.				
17.07	In Urine Section	Nos	1		
17.08	In Microbiology Laboratery	Nos	5		
17.09	In Biochemistry Room	Nos	2		
17.10	In Historology Room	Nos	3		
17.11	In Heamatology Section	Nos	2		

Item	Description	Unit	Qty.	Rate	Amount
17.12	<b>Testing &amp; Commissioning-Data Network</b> Testing the installation and rectify any defects and submit a Test Report with as built drawing of Data Network.				
		Item			
18.00	<b>Mechanical Works</b>				
18.01	Supply and installation of a 9 litre, water/CO <sub>2</sub> portable fire extinguisher conforming to BS 5423 (1987), and approved by Fire Service Department, Sri Lanka complete with all necessary fixing materials.	Nos	18		
18.02	Supply and installation of a 2 kg CO <sub>2</sub> portable fire extinguisher conforming to BS 5423 (1987), and approved by Fire Service Department, Sri Lanka complete with all necessary fixing materials.	Nos	18		
18.03	Supply and installation of a 6kg ABC dry powder portable fire extinguisher conforming to BS 5423 (1987), and approved by Fire Service Department, Sri Lanka complete with all necessary fixing materials.	Nos	4		
19.00	<b>Plumbing Works</b> Allow fo unforeseen works for shifting to R/O plants.	p/s			500,000.00
(a)	<b>Sub Total I</b>				
(b)	Ddt: Provisional Sum				4,600,000.00
(c)	<b>Sub Total II</b>				
(d)	Ddt : .....% Discount				
(e)	<b>Sub Total III</b>				
(f)	Add: Provisional Sum				4,600,000.00
(g)	<b>Total amount for Bid</b>				
(h)	Add : 18% VAT				
(j)	<b>Total Amount with VAT</b>				

Total Sum carried to Form of bid in words Rupees (without VAT) .....

.....

Signature of the Contractor

Witness :-

Address

Address :-

Date

Date :-