DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA

MINISTRY OF HEALTH AND MASS MEDIA

CONSTRUCTION OF A LIFT BAY FOR A BED LIFT FOR THE EXTENSION OF MEDICAL WARDS & WARD NO 7 AND 8 AT TEACHING HOSPITAL - PERADENIYA

CONTRACT NO: THP/AD/16/2026

BIDDING DOCUMENT

Volume I

Section 01 – Instructions to Bidders
Section 02 – Standard Forms (Contract)
Section 03 – Conditions of Contract

Volume II – *(For the use as "Original" document)*

Invitation for Bid

Section 04 – Form of Bid and Qualification Information
Section 05 – Bidding Data and Contract Data
Section 06 – Specifications
Section 07 – Bill of Quantities
Section 09 – Standard Forms (Bid)

Volume III – *(For the use as "Copy" of document)*

Invitation for Bid

Section 04 – Form of Bid and Qualification Information
Section 07 – Bill of Quantities

CONSULTANT

CENTRAL ENGINEERING CONSULTANCY BUREAU,
NO.415,
BAUDDHALOKA MAWATHA,
COLOMBO 07.

CLIENT

DIRECTOR,
TEACHING HOSPITAL,
PERADENIYA.

OCTOBER 2026

C O N T E N T S

	Page
INVITATION FOR BIDS	1
Section 4 - FORM OF BID AND QUALIFICATION INFORMATION	4
Form of Bid	5
Qualification Information	6
Section 5 - BIDDING DATA AND CONTRACT DATA	8
Bidding Data	9
Contract Data	13
Section 6 - SPECIFICATIONS	16
Section 7 - BILL OF QUANTITIES	18
Preambles to Bill of Quantities	19
Bill of Quantities	21
Section 8 - DRAWINGS	44
Section 9 - STANDARD FORMS (BID)	48
Form of Bid Security	49
Check List	50

INVITATION FOR BIDS

INVITATION FOR BIDS (IFB)

MINISTRY OF HEALTH AND MASS MEDIA

CONSTRUCTION OF A LIFT BAY FOR A BED LIFT FOR THE EXTENSION OF MEDICAL WARDS & WARD NO 7 AND 8 AT TEACHING HOSPITAL - PERADENIYA

CONTRACT NO: THP/AD/16/2026

1. The Chairman, Department Procurement Committee**,** on behalf of the Teaching Hospital, Peradeniya, invites sealed bids from eligible and qualified bidders for the **"Construction of a Lift Bay for a Bed Lift for the Extension of Medical Wards & Ward No 07 and 08 at Teaching Hospital - Peradeniya"**, Contract No: **THP/AD/16/2026** as described in document and estimated to basic cost of Rs. **24.55 million (Excluding VAT)**. **Construction period is 120 Days**.
   The Site is Located at the premises of Teaching Hospital, Peradeniya. Under this contract, supply, installation and commissioning of new lifts with necessary ancillary works should be done. For more information, please refer Specifications and Bill of Quantities. Bidders are advised to visit the site prior to price the bid. Work should be carried out without disturbing the day-to-day activities of the hospital.
2. Bidding will be conducted through **National Competitive Bidding Procedure**.
3. To be eligible for contract award, the successful bidder shall not have been blacklisted and shall meet the following requirements.
   - Grade – **C4, C5 and C6**
   - Specialty – **Building**
   - Average annual volume of construction work performed in the last five years shall be at least **Rs. 24.55 M**.
   - Experience in the construction of at least one contract of a similar nature and complexity equivalent to the Works over 05 years. **Attach as an annex.**
   - The minimum amount of liquid assets and/or credit facilities as exclusive of any advance payments which may be not less than **Rs. 12.3 M**. Credit facility should be addressed to Director, Teaching Hospital, Peradeniya and should be exclusive of this particular project.
   - Since the Cost Estimate of this procurement is above 5 million, the provisions of Public Contracts Act No:(03) of 1987 shall be applied

   Managerial / Technical
   Engineer Assistant (Civil) (Full time) – NDT, NDES, HNDE (Civil) Engineering or equivalent qualification with minimum 5 years' Experience.

4. Interested bidders may obtain further information from Director, Teaching Hospital, Peradeniya Tel. No. 081-2388261 and can inspect the Bidding Document at the address given below from **09.00 hrs to 15.30 hrs**
5. A complete set of Bidding Documents in English language may be purchased by interested bidders on the submission of a written application to the **Director, Teaching Hospital, Peradeniya.** From **2026/10/28** until **2026/11/17** from **09.00 hrs to 15.30 hrs** or download the bidding document browsing www.peradeniya-hospital.health.gov.lk , Upon payment of a non-refundable fee of **Rs. 12,000.00** to the **Shroff, Teaching Hospital, Peradeniya** or credited to account of the **Director, Teaching Hospital, Peradeniya**, holding account number **057100129025207** in the **People's Bank of Peradeniya**.
6. Bids shall be delivered to the address below**,** on or before **2026/11/18 until 10.30 am** 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 shall be valid up to **91 days** from Bid closing date **2026/11/18 to 2027/02/17** (date) or any extended period requested by client.

8. All bids shall be accompanied by a "Bid security" of **Rupees Three Hundred and Sixty Eight Thousand Only (Rs. 368,000.00).** Bid Security shall be valid up to **119 days** from Bid closing date to **2027/03/17**.

The address referred to above is,
Director,
Teaching Hospital,
Peradeniya.
Tel. No. 081-2388261

Section - 4

FORM OF BID AND QUALIFICATION INFORMATION

FORM OF BID

CONSTRUCTION OF A LIFT BAY FOR A BED LIFT FOR THE EXTENSION OF MEDICAL WARDS & WARD NO 7 AND 8 AT TEACHING HOSPITAL - PERADENIYA
CONTRACT NO: THP/AD/16/2026.

To: Director,
Teaching Hospital,
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 ..... 2026 in the capacity of.....Duly authorized to sign bids for and on behalf of .....

……
(IN BLOCK CAPITAL)

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

QUALIFICATION INFORMATION

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

ICTAD Registration	
Registration number	*(Attach copies of relevant pages from the registration book) (if available)*
Grade	C4, C5 and C6
Specialty	Building
Expiry Date	
Blacklisted Contractors	
Have you been declared as a defaulted contractor by NPA or any other agency? (Yes/No)	
If yes provide details	
VAT Registration Number	
Legal status	*(Attach relevant status copies, as annex)*
Value of Construction works Performed in last 5 years	*(Attach certified copies of certificate of completion, etc. and other documents such as profit-loss and income expenditure statement)*
Year 2025	
Year 2024	
Year 2023	
Year 2022	
Year 2021	
Value of similar works completed in last 10 years (indicate only the three largest projects)	1. Value Rs……..…… Year …….. 2. Value Rs……. Year ……. 3. Value Rs……. Year …….. (Attach certified copies of Letter of award & certificate of completion)

Credit Facility	(Attach, as annex)		
Certificate issued by the Registrar of Public Contracts as per the Public Contracts Act No.03 of 1987 (PCA 03)	(Attach, as annex)		
Qualification and experience of Key staff - Site & Head Office (Permanent, Contract Basis & Consultants)	Category, Experience and Qualifications	Required Nos.	Proposed by bidder (Name, experience and Qualifications)
	1.Engineer Assistant (Civil) (Full time) – NDT, NDES, HNDE (Civil) Engineering or equivalent qualification with minimum 5 years Experience.	**01**	(Attach certified copies of key staff attached to the project)
Non- Collusion Affidavit	(Attach, as annex)		

Section - 5

BIDDING DATA AND CONTRACT DATA

G. BIDDING DATA

Instructions to Bidders

Clause Reference		
	The Employer is	
(1.1)	Name & Address:	**Director,** **Teaching Hospital,** **Peradeniya**

This work consists of Construction of elevator shafts, elevator lobbies, corridors, and machine rooms for the installation of two patient transport elevators (bed lifts) for Extension of Medical Wards, Ward No 07 and Ward No 08 at Teaching Hospital - Peradeniya.

a. For more information, please refer the Bill of Quantities.

(1.2) Intended Completion Date is **120** Days from the Start Date.

(1.3) The office for collection of bid form is
Teaching Hospital, Peradeniya.

The non-refundable Bid fee is **Rupees 12,000.00**

The Bid forms will be issued **until 17/11/2026**

(2.1) The source of funds is **Government of Sri Lanka**

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

- CIDA Registration
  Registration number:
  Grade
  Specialty
  Expiry Date
- Valid Certificate issued by the Registration of Public Contracts as per Section 08 of Public Contracts Act No. 03 of 1987.
- 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
- Any other

(4.4) Post qualification criteria:
The following minimum qualification criteria shall be met by the bidder to qualify for the award of contract.

- Average annual volume of construction work performed in the last five years shall be at least **Rs. 24.55 M**.

- Experience in the construction of at least one contract of a similar nature and complexity equivalent to the Works over 10 years. **Attach as an annex.**
- The minimum amount of liquid assets and/or credit facilities as exclusive of any advance payments which may be not less than **Rs. 12.3 M**. Credit facility should be addressed to Director, Teaching Hospital, Peradeniya and should be exclusive of this particular project.
- Minimum persons with qualifications and experience

Managerial / Technical

1. Engineer Assistant (Civil) (Full time) – NDT, NDES, HNDE (Civil) Engineering or equivalent qualification with minimum 5 years Experience.

(8.1) Content of Bidding Document

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

The Bidding document consists of three volumes (Volume 1, Volume 2 & Volume 3) and comprise the documents listed below.

Volume I
- Section 1 – Instruction to Bidders
- Section 2 - Standard Forms (Contract)
- Section 3 - Condition of Contract

Volume II
- Invitation for Bids
- Section 4 - Form of Bid and Qualification Information
- Section 5 - Bidding Data and Contract Data
- Section 6 - Specifications
- Section 7 - Bills of Quantities and Technical Schedules
- Section 9 - Standard Forms (Bid)

Volume III
- Invitation for Bids
- Section 4 - Form of Bid and Qualification Information
- Section 7 - Bills of Quantities and Technical Schedules

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

Name : Director
Address : Teaching Hospital, Peradeniya.
Tel/Fax : 081-2388261

(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) Volume II
- (b) Bid security or Bid-Securing Declaration as specified

(B) enclosed in the envelop marked as "COPY"
- (a) Volume III

(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.

(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. 368,000.00.**
- Valid until 119 days from closing date of Bid.

Securities and guarantees issued by an agency acceptable to employer using the forms for bid security (unconditional guarantee) included in section 09 standard forms in favor of the Secretary, Ministry of Health. The agencies acceptable to the Employer are :

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

Alternatively, the Bidder can pay cash to Shroff of **Teaching Hospital, Peradeniya.**

No interests will be paid on cash deposits.

(17.0) Pre Bid meeting will be held at Directors Office, Teaching Hospital, Peradeniya at 10.30 hrs on 03/11/2026.

(19.2) a The Employer's address for the purpose of Bid submission is:

Teaching Hospital, Peradeniya.

(19.2) b Contract Name: **Construction of a Lift Bay for a Bed Lift for the Extension of Medical Wards & Ward No 07 and 08 at Teaching Hospital - Peradeniya**

Contract No. : **THP/AD/16/2026**

(20.1) The deadline for submission of Bids shall be 10.30 hrs on 18/11/2026.

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

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

Securities and Guarantees issued by an agency acceptable to employer using the forms for Performance Bond (Unconditional Guarantee) included in Volume I- Section 2, standard forms. The agencies acceptable to the Employer are

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

Alternatively, the Bidder can pay cash to shroff of the **Teaching Hospital, Peradeniya.**
No interest will be paid on cash deposits.

(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) included in volume I – Section 2, Standard Forms. The agencies acceptable to the Employer are

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

(36.0) CIDA is the authorized agent for appointing an adjudicator.

CONTRACT DATA

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

(1.1) The Employer is

Name : Director
Teaching Hospital,
Peradeniya.
Address : **Teaching Hospital, 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: **Additional General Manager (Hospital Projects)**

(1.1) The Works mainly consists of

Works mainly consists of Construction of elevator shafts, elevator lobbies, corridors, and machine rooms for the installation of two patient transport elevators (bed lifts) for Extension of Medical Wards, Ward No 07 and Ward No 08 at Teaching Hospital - Peradeniya.

a. For more information, please refer the Specifications and Bill of Quantities.

(1.1) Site is located at **Teaching Hospital, Peradeniya.**

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

1. Engineer Assistant (Civil) (Full time) – NDT, NDES, HNDE (Civil) Engineering or equivalent qualification with minimum 5 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)

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

(c) The minimum cover for personal injury or death:

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

(d)

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

- Five Hundred Thousand

(13.2) (a) The minimum cover for personnel injury or death,

- For the Contractor's workmen is Rs. **500,000.00** per event. Number of events unlimited.
- Contractor's employees other than workmen is Rs. **500,000.00** per event. Number of events unlimited.

(17.1) The Intended Completion Date for the whole of Works shall be **180 Days from the Start Date.**

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

(27) The Contractor shall submit a realistic Construction Programme made out from MS Project software for the Works within **Seven Days** of delivery of the Letter of Acceptance. Critical path/paths must be clearly shown in the programme. Soft copy must be submitted to the Engineer at the time of submission of hard copy of construction programme.

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

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

(35.1) The Defects Liability Period is **365 Days**.
During the Defect Liability Period Contractor shall carry out all the required preventive and corrective maintenance works of the works free of charge.

(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 equipment's.
In fixing such "Basic cost" the Engineer shall use the rates for labour as given below and prices for materials and equipment's shall be used the prevailing market prices."

Category	Rate (Rs)	Remarks
Special Skill Labour	4,250.00	
Skill Labour	3,750.00	
Semi Skill Labour	3,250.00	
Labour	2,750.00	

(47.1) Price adjustments not applicable.

(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** provided to the Employer no later than the date specified in the letter of Acceptance and shall be issued to an amount to **Five percent** of the Initial Contract Price in the form of an unconditional guarantee acceptable to the Employer. The Performance Security shall be valid unit a date **28 Days** beyond the issuance of final certificate under sub **clause 55**.
A **Performance Security** equivalent to the **remaining value** of the total maintenance cost shall be maintained by the Contactor during the full maintenance period.

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

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

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

Section - 6

SPECIFICATION

TECHNICAL SPECIFICATIONS

The works under this Bid shall be executed in accordance with the Specifications given in the following documents issued by the Construction Industry Development Authority (CIDA), "Savsiripaya", Wijerama Mawatha, Colombo 7, and as specified.

Publication No.:	Description:
SCA/4(Vol. I)	Specifications for Building Works, Vol. (I), Sri Lanka. 3rd Edition (Revised), July 2004.
SCA/4(Vol. II)	Specifications for Building Works Vol.(II), Sri Lanka. 2nd Edition (Revised) October 2001.
SCA/3/2	Specifications for Water Supply Sewerage and Storm Water Drainage Works, Sri Lanka. Second Edition (Revised), April 2002.

It is implied that the Bidders are acquainted with the above documents and therefore, those will not be included in the bidding document.

However, the Bidders may purchase the same, if necessary, from CIDA. "Savsiripaya", Wijerama Mawatha, Colombo 07.

SECTION - 07

BILL OF QUANTITIES

PREAMBLE TO THE BILL OF QUANTITIES

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

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

3. If the Bidder failed to price any Items in the Bill of Quantities, then the cost of the work under such Item shall be held to be spread over and included in the prices given against other Items of work.

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

5. Whenever the method of measurement is not clear from documents available, the principles as given in the Sri Lanka Standard 573, 1999, Method of Measurement of Building Work shall be applicable.

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

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

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

9. Where the determination for payment purposes of the quantity of any Item of work depends upon the measurement of existing features or ground levels and the like, then prior to carrying out any operations which might affect such measurement, the Contractor shall first take such levels and measurements as the Engineer may direct and, after the Engineer has had the opportunity to check the same, they shall be certified as agreed by both the Engineer and the Contractor.

10. In the event that the Contractor fails to observe the above procedure, the Engineer shall determine the quantity to be assumed for payment purposes using the best information available to him, and his decision in the matter shall be final.

11. Selected Bidder shall comply with the arrangement of work in the buildings and be ready to work part by part as required by the Authorities of Teaching Hospital, Peradeniya.

12. Rates in Bill of Quantities shall include all necessary material for supply, installation and testing & commissioning of Bed and Passenger Lifts system etc.

13. Except where specifically stated, all costs associated with provision of all holes, openings, chases and wall finishing in other builders' work required for installation and make them good, shall be included in the rates.

14. Bidder should pay special attention to the work to be carried out, causing minimum disturbance or hindrance to the normal functions and activities of the users of the Teaching Hospital, Peradeniya.

15. The Bills of Quantities should therefore, be priced to reflect all factors that would affect the bid and the progress of the works.

16. Bidder should pay special attention to the work to be carried out, causing minimum disturbance or hindrance to the normal functions and activities of the users of the Teaching Hospital, Peradeniya.

17. Screens should be provided to prevent dust escaping from working areas.

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

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

CONSTRUCTION OF A LIFT BAY FOR A BED LIFT FOR THE EXTENTION OF MEDICAL WARDS & WARD NO 7 AND 8 AT TEACHING HOSPITAL - PERADENIYA

TEACHING HOSPITAL - PERADENIYA

BILL OF QUANTITIES

BILL NO. 01 - CIVIL WORKS

ITEM	DESCRIPTION	QTY	UNIT	RATE Rs. Cts.	AMOUNT Rs. Cts.
	1A - EXCAVATION AND EARTH WORK				
	As excavation measured net unless otherwise specified in item description.	*Note*			
	Excavation shall be done as instructed by the Engineer and with close supervision of the Engineer's representative. Foundation depth may have varied according to site condition.	*Note*			
	Rate include unless otherwise stated *Trimming sides, keeping clean and consolidating bottom of bases and trenches etc. levelling and consolidation where required. leveling and compacting where required under slabs or sub floor layers. Cost of Dewatering should also be included into the rates*	*Note*			
	Back filling with selected excavated materials from site as specified and directed.	*Note*			
	Any necessary additional excavation for working space, planking and strutting, shoring or any other form of supporting earth, formwork etc.	*Note*			
	Site preparation				
1A-1	Allow for site clearing including removing of bushes, cutting down top soil up to a depth of 150mm extended up to a 3.0m beyond the outer walls of the proposed building and clearing, carting away the waste material from the site where as directed.(Approximate area 50m^2).		Item		.....
	Excavation				
1A-2	Excavation for raft , pad footings to a depth not exceeding 1.5m in any material except rock requiring blasting part return fill in and rammed and surplus spreading within the site as directed.	55	m^3	.....	.....

ITEM	DESCRIPTION	QTY	UNIT	RATE Rs. Cts.	AMOUNT Rs. Cts.
1A-3	Excavation for raft , pad footings to a depth exceeding 1.5m in any material except rock requiring blasting part return fill in and rammed and surplus spreading within the site as directed.	15	m^3	.....	.....
	Filling				
	Initially entire building area is filled and compacted and thereafter necessary excavation to be done				
1A-4	Supplying and filling under floors with gravel or other filling material approved by the Engineer including spreading, watering and well ramming using rammer machne in 150mm layers as directed. (Compacted volume will be measured)	5.5	m^3	.....	.....
	Sub Total of Excavation and Earth work Carried to Sub Summary of Bill No.01				***.....***
	1B - MASONRY WORKS				
	Rate include for all joggles,cramps,dowels, ties, templates, rough and fair cutting, forming splays, angles, reveals and setting, joining, fixing in position and pointing, protecting and cleaning down	*Note*			
	225mm thick Brick Work in 1:5 Cement sand mortar in English bond in,				
1B-1	Ground Floor to First Floor	58	m^2	.....	.....
1B-2	First Floor to Second Floor	77	m^2	.....	.....
1B-3	Second Floor to Third Floor	155	m^2	.....	.....
1B-4	Third Floor to Roof	95	m^2	.....	.....
	Sub Total of Masonry Carried to Sub Summary of Bill No.01			-	***.....***
	1C - CONCRETE WORKS				
	Unless otherwise stated all concrete shall be of grade as per Specifications/Drawings.	*Note*			
	Rates for concrete shall include for forming construction joints, expansion joints or contraction joints as necessary.	*Note*			
	Concrete will be measured as the net area/volume, as shown on the drawings.	*Note*			

ITEM	DESCRIPTION	QTY	UNIT	RATE Rs. Cts.	AMOUNT Rs. Cts.
	Rate for concrete shall include for :				
	supply, handling at site, mixing, depositing, compacting, vibrating, curing and making good after removal of formwork.	*Note*			
	preparation of surfaces, roughening/chipping to the approval of the Engineer.	*Note*			
	Reinforcement and Formwork paid separately unless specified in the Item.	*Note*			
	All major structural concrete works (Slabs, beams, columns, footings etc) shall be machine mixing concrete of relevant mix ratios.	*Note*			
	Rate shall include for carryout cube test (approximately three cubes per 5m^3 of concrete) and slump tests at site.	*Note*			
	Rate shall include for necessary tests including cube tests as per the BS 1881 and SCA/4/1.	*Note*			
	Rate for formwork shall include for all necessary boarding, supports, erecting, framing, cutting angles, cleaning, apply approved foam oil, wetting before placing concrete, removal etc.	*Note*			
	Formwork is measured as the net contact surface measurement between formwork and concrete.	*Note*			
	Film coated Plywood or other equivalent quality approved type of shuttering should be used. Mould oil should be applied to formwork surfaces before using.	*Note*			
	Rate for form work shall include for all necessary measures to provide fair face finish.	*Note*			
	All reinforcement shall be as per relevant British Standards having minimum characteristic strength of 460 N/mm^2 for tor steel and 250 N/mm^2 for mild steel.	*Note*			
	All reinforcement shall be free from mill scale, dirt, oil, paint, grease or loose rust before fixing in position and shall be brushed with a stiff wire brush as directed.	*Note*			

ITEM	DESCRIPTION	QTY	UNIT	RATE Rs. Cts.	AMOUNT Rs. Cts.
	Rate for reinforcement shall include for supplying, cleaning, cutting, bending, fabricating, binding, placing in position, binding wires, ties, supporting bars, spaces, chairs, wastage etc.	*Note*			
	SUBSTRUCTURE				
1C-1	50mm thick, 1:3:6 (25mm) cement concrete under RRM work including form work.	0.2	m^3	….....	….....
1C-2	75mm thick, 1:3:6 (25mm) cement concrete under Raft foundation including form work.	3.0	m^3	….....	….....
1C-3	100mm thick, 1:2:4 (25mm) cement concrete in floor on compacted earth filling.	1.5	m^3	….....	….....
	Grade 25 Concrete				
1C-4	Raft footings	21	m^3	….....	….....
1C-5	Plinth beam	0.4	m^3	….....	….....
	Formwork				
1C-6	Form work with timber planks for sides of Raft footings.	8	m^2	….....	….....
1C-7	15mm thick plywood formwork for sides of Raft wall up to DPC level	80	m^2	….....	….....
	Reinforcement				
1C-8	Tor steel reinforcement for raft footings	0.80	t	….....	….....
1C-9	Tor steel reinforcement for Raft wall up to DPC	0.87	t	….....	….....
1C-10	Mild steel reinforcement for Plinth beam up to DPC	0.01	t	….....	….....
	SUPERSTRUCTURE				
	Grade 25 (20) cement concrete for column shafts				
1C-11	Ground Floor to First Floor	4.0	m^3	….....	….....
1C-12	First Floor to Second Floor	4.5	m^3	….....	….....

ITEM	DESCRIPTION	QTY	UNIT	RATE Rs. Cts.	AMOUNT Rs. Cts.
1C-13	Second Floor to Third Floor	6.0	m^3	.....	.....
1C-14	Third Floor to Roof Level	1.8	m^3	.....	.....
	Grade 25 (20) cement concrete for slab				
1C-15	First Floor	1.9	m^3	.....	.....
1C-16	Second Floor	10.0	m^3	.....	.....
1C-17	Roof Slab	4.8	m^3	.....	.....
	Grade 25 (20) cement concrete for beams				
1C-18	Ground Floor to First Floor	0.8	m^3	.....	.....
1C-19	First Floor to Second Floor	3.0	m^3	.....	.....
1C-20	Second Floor to Third Floor	8.5	m^3	.....	.....
1C-21	Third Floor to Roof Level	8.8	m^3	.....	.....
	Formwork				
	Supplying and fixing plywood form work (15mm thick) for sides of column shaft . including timber joists and necessary props. (Rate to include for dismantling same when required)				
1C-22	Ground Floor to First Floor Level	45	m^2	.....	.....
1C-23	First Floor to Second Floor Level	50	m^2	.....	.....
1C-24	Second Floor to Third Floor	82	m^2	.....	.....
1C-25	Third Floor to Roof Level	29	m^2	.....	.....
	Supplying and fixing 15mm thick plywood timber formwork for underside of floor slab, including timber joists and necessary props, (Rate to include for dismantling same when required)				
1C-26	First Floor	15.0	m^2	.....	.....
1C-27	Second Floor	80.0	m^2	.....	.....
1C-28	Third Floor	40	m^2	.....	.....

ITEM	DESCRIPTION	QTY	UNIT	RATE Rs. Cts.	AMOUNT Rs. Cts.
	15mm thick plywood formwork for concrete beams in each floors , including timber battens and joists for beam sides & soffits etc and necessary props. (Rate to include for dismantling same when required)				
1C-29	Ground Floor	9.0	m^2	.....	.....
1C-30	First Floor	32	m^2	.....	.....
1C-31	Second Floor	85	m^2	.....	.....
1C-32	Third floor	85.0	m^2	.....	.....
1C-33	Roof Level	40.0	m^2	.....	.....
	Reinforcement Tor steel reinforcement to slabs, beams, columns or lintols bent to shape laid in position and tied with G I wire as directed				
	Tor steel reinforcement for column shaft				
1C-34	Ground Floor to First Floor	0.32	t	.....	.....
1C-35	First Floor to Second Floor	0.37	t	.....	.....
1C-36	Second Floor to Third Floor	0.55	t	.....	.....
1C-37	Third Floor to Roof Level	0.10	t	.....	.....
	Tor steel reinforcement for roof slab				
1C-38	First Floor	0.25	t	.....	.....
1C-39	Second Floor	0.94	t	.....	.....
1C-40	Third Floor	0.59	t	.....	.....
	Tor steel reinforcement for beams				
1C-41	Ground Floor	0.05	t	.....	.....
1C-42	First Floor	0.21	t	.....	.....
1C-43	Second Floor	0.61	t	.....	.....
1C-44	Third Floor	0.56	t	.....	.....
1C-45	Roof Level	0.15	t	.....	.....

ITEM	DESCRIPTION	QTY	UNIT	RATE Rs. Cts.	AMOUNT Rs. Cts.
	Mild steel reinforcement to slabs, beams, columns or lintols bent to shape laid in position and tied with G I wire as directed				
1C-46	Ground Floor	0.12	t	.....	.....
1C-47	First Floor	0.20	t	.....	.....
1C-48	Second Floor	0.40	t	.....	.....
1C-49	Third Floor	0.24	t	.....	.....
1C-50	Roof Level	0.08	t	.....	.....
	Sub Total of Concrete Work Carried to Sub Summary of Bill No.01			-	***.....***
	1D - METAL WORK **<u>ALUMINIUM WORKS</u>** *Aluminium extrusion should be manufactured under the certification of ISO 9001:2008* *The work shall include supply, fabricate and installation of doors, windows out of Aluminium Sections. All extrusion shall be of AlMgSi Alloy designation **6060 or 6063** with **powder coated** surface finish coating thickness **60-80 microns** as per the respective drawings and specifications .* *Tolerance for thickness of the section* is ***± 10%*** *from the specific thickness given in the manufactures made.*	*Note* *Note* *Note*			
	Concealed screws, nuts, bolts, rivets and other fastening devices shall be of Aluminium, non magnetic stainless steel or other approved corrosive resistant materials. If visible, they shall blend with the finish of the framing Aluminium Sections. *For each fabrications, a shop drawing shall be obtained from the manufacture and furnished to the Engineer, One month prior to the installation commencement and should get the approval for the same.* *Samples of hinges , Aluminium sections, Al composite boards etc shall be forwarded by the contractor for prior approval of the Engineer.*	*Note* *Note* *Note*			

ITEM	DESCRIPTION	QTY	UNIT	RATE Rs. Cts.	AMOUNT Rs. Cts.
	The fabrication and installation of all aluminium work must be carried out by specialist tradesman. *It shall be bidder's responsibility to check the sizes of all openings on site, prior to fabrication.* *Supply, assemble and fix in position aluminium framed glazed aluminium sash door, window, fanlight, partition units complete with sealant glazing screwed beadings, locks, fasteners, gasket, hardware and fittings all complete as per detail drawing.* *Rate shall include for testing for Hardness, profile thickness, coating thickness of Aluminium extrusions.* *Following test shall be carried out on engineer's request.* *a) For base material* *1) Hardness Test* *2) Tensile Strength Test* *3) SpectrometerTest* *4) Thickness of entiructions* *b) For the powder coated* *1) Visual Comparison Test* *2) Glossness Test* *3) Test for thickness of coat* *4) Bending Test* *5) Cross Hatch Test* *6) Cupping Test*	*Note* *Note* *Note* *Note*			
	Details of Aluminium sections and accessories to be used if not specified seperately **General** Screws - Stainless Steel Rubber Beading - EPDM 'Sunplast' or equivailent *Sillicon - " dow coningboss" or equivalent as approved by the engineer.* **Doors** Frame (a) Double sashed double swing door / single sashed double swing 1.5mm thick 100mm/76mm wide shop front sections.				

ITEM	DESCRIPTION	QTY	UNIT	RATE Rs. Cts.	AMOUNT Rs. Cts.
	(b) Single sashed/double sash single swing - 1.5mm mm thick 76x45/35mm section with built door stopper Sash Doors - width of Top bar-80mm width of Middle bar-100mm width of Bottom bar-120mm module depth 45mm Glass 5mm thick clear float glasses Gardian or equivalent for windows 6mm thick clear float glasses Gardian or equivalent for doors Panel 4mm thick both side coated Aluminium composite board lock (if not separately specified) VVP or equivalent with duplicate keys Door handle powder coated standard aluminium door handle (300mm long) to be provided if not separately specified **Windows** Butt Hinges 03 nos Stainless Steel (304) butt hinges to be provided for a door sash if not separately specified Bar Hinge 300mm Stainless Steel (304) bar hinges one pair for out sash.				
	Casement windows - Fanlight/ Fixed glass 70 mm, 1.20 mm series Casement lock Powder coated (kinglong or equivalent) **Doors** Supplying all materials, fabricating and fixing of Door **Type D1**, size **900mm x 2100mm**, powder coated (with 60-80 micron coating) aluminium framed **glazed and panelled , single swing type single sash door** as shown in the Drawing including all approved iron mongery. Rate shall include for cylindrical knob lock (European/Japanese), s/s (304) 03 nos butt hinges and other necessary accessories.				

ITEM	DESCRIPTION	QTY	UNIT	RATE Rs. Cts.	AMOUNT Rs. Cts.
1D-1	Second Floor	2.0	m^2	.....	.....
1D-2	Third Floor	2.0	m^2	.....	.....
	Windows Supplying all materials, fabricating and fixing of Window **Type W1**, size **1200mm x 1800mm**, powder coated (with 60 - 80 micron coating) aluminium framed **side hung type glazed window** as shown in the Drawing including all approved iron mongery.				
1D-3	Ground Floor	4.8	m^2	.....	.....
1D-4	First Floor	4.8	m^2	.....	.....
1D-5	Second Floor	2.4	m^2	.....	.....
	Louvers Supplying all materials, fabricating and fixing of Fanlight **Type F1**, size **600mm x 450mm**, powder coated (with 60 - 80 micron coating) aluminium framed **side hung type glazed window** as shown in the Drawing including all approved iron mongery.				
1D-6	Machine Room	3.5	m^2	.....	.....
	Sub Total of Metal Work Carried to Sub Summary of Bill No.01			-	.....
	1E - FLOOR, WALL & CEILING FINISHES **FLOOR FINISHES** *Rate shall include to,* *(a) All extra work involved to patterned work.* *(b) Fair edges, internal angles for Treads and risers* *(c) Ends angles, ramped and wreathed covers for strings and aprons.* *(d) Fair edges, rounded edges, covered junctions, angles, and the like for skirting curbs and edges or floors* *(e) Plastic corner beadings* *(f) Supplying and Fixing of materials*				

ITEM	DESCRIPTION	QTY	UNIT	RATE Rs. Cts.	AMOUNT Rs. Cts.
	Porcelain Homogeneous Vitreous, floor tiles with all specials supplying and fixing to floors including raking plaster and bedding in cement mortar 1:3 with approved Polymer based tile adhesive and pointed with tile grout to match the tiles. (Rocell or equivalent brand)				
	for 600mm x 600mm MATT floor tile				
1E-2	Ground floor	14.5	m^2	….....	….....
1E-3	First floor	14.5	m^2	….....	….....
1E-4	Second floor	77	m^2	….....	….....
1E-4	Skirting, 600mm x100mm, Sizing the Tile, fixing to bottom line of wall including raking plaster bedding with cement mortar 1:3 with approved Polymer based tile adhesive and pointed with tile grout to match the tiles. (Quality approved by the Engineer.) Rate for all floors	80	m	….....	….....
	20mm thick 1:3 cement sand rendering including normal cement floating coat.				
1E-6	Ground floor	30.0	m^2	….....	….....
1E-6	Machine Room	37.0	m^2	….....	….....
	<u>WALL FINISHES</u>				
	Rate shall include to				
	(a) Fair joints				
	(b) Outlets, working over and around obstructions, pipes, and the like into recesses and shaped inserts.				
	(c) Bonding agents where included with the work.				
	(d) Patterned work is deemed to included all extra work involved.				
	(e) Bedding mortars				
	(f) Grouting				
	(g) Working over and polishing				
	(h) Plastic corner beadings				
	(j) Supplying and Fixing				
	Samples shall be forwarded by the contractor for prior approval of the Engineer.	*Note*			

ITEM	DESCRIPTION	QTY	UNIT	RATE Rs. Cts.	AMOUNT Rs. Cts.
	If Contractor proposed to use river sand for the work, Cost for the following test shall be include for the rates of respective work items; *1. tested for Chlorine content in each batch of sea sand brought to site.* *2. tested for Gradation for each batch of sea sand brought to site* *3. submit Mix design according to the gradation for our approval* *(sample is selected by Engineer)*	*Note*			
	15mm thick, cement sand 1:5 plaster finished smooth with skim coat or equivalent on brick, concrete surfaces				
1E-8	Ground Floor	30	m^2	.....	.....
1E-9	First Floor	55	m^2	.....	.....
1E-10	Second Floor	116	m^2	.....	.....
1E-10	Third Floor	75	m^2	.....	.....
	15mm thick, less than 150mm width 1:5 cement sand plaster finished smooth with skim coat or equivalent, bevel plastering for doors and openings at internal				
1E-12	Ground Floor	5.0	m	.....	.....
1E-13	First Floor	8.0	m	.....	.....
1E-14	Second Floor	10.0	m	.....	.....
1E-14	Third Floor	10.0	m	.....	.....
	15mm thick, cement sand 1:5 plaster finished semi rough with wood float on brick walls and concrete faces flush with walls on external surfaces.				
1E-16	Ground Floor	116	m^2	.....	.....
1E-17	First Floor	153	m^2	.....	.....
1E-18	Second Floor	227	m^2	.....	.....
1E-18	Third Floor	75	m^2	.....	.....

ITEM	DESCRIPTION	QTY	UNIT	RATE Rs. Cts.	AMOUNT Rs. Cts.
	15mm thick, less than 150mm width 1:5 cement sand plaster finished semi rough , **bevel plastering** for external windows and openings . Rate to include chamfering external side in windows.				
1E-20	Ground Floor	5	m	.....	.....
1E-21	First Floor	8	m	.....	.....
1E-22	Second Floor	10	m	.....	.....
1E-22	Third Floor	10	m	.....	.....
	WALL TILING Tiles glazed colour 300 mm x 600 mm with all specials , supplying and fixing to walls including raking plaster backing in cement mortar 1:3 with approved Polymer based tile adhesive and pointed with tile grout to match the tiles.(Lanka wall Tiles or equivalent brand)				
1E-24	Ground Floor	10	m^2	.....	.....
1E-25	First Floor	10	m^2	.....	.....
1E-25	Second Floor	10	m^2	.....	.....
	CEILING FINISHES				
1E-26	Applying cement based putty two coats (Skim coat or equivalent) and finished smooth of soffit of slab, soffit and sides of beams. (Rate for all floors)	160.0	m^2	.....	.....
	Sub Total of Plastering Carried to Sub Summary of Bill No.02			-	***.....***
	1F - WATER PROOFING *Rate shall include for,* *(a) Cutting to line, notching, bending, and extra material for lapping.* *(b) Angle fillets* *(c) Edges* *(d) Supplying and laying.*				

ITEM	DESCRIPTION	QTY	UNIT	RATE Rs. Cts.	AMOUNT Rs. Cts.
1F-1	Application of crystalline type waterproofing using XYPEX"modification or approved equivalnt for underground sumps, water tanks, (waterproofing material recommended for portable water storage tanks) products marketed/ installed by a specialist contractor registered at ICTAD.	61	m^2	.....	.....
1F-2	Water proofing treatments strictly as per manufacturers specification over well cleaned and exposed outer surface of lift well with 4mm thick bituminous membrane type " Bitumat Polyflex" or equivalent approved by the engineer. Rate shall include to surface preparation and curing.	90	m^2	.....	.....
1F-3	20mm thick 1:3 cement sand rendering for protecting of waterproofing material at lift base ,external surface of lift well and bottom of lift well finished with neat cement.	90	m^2	.....	.....
1F-4	12mm thick 1:3 cement sand rendering for protecting of waterproofing material at Internal Surface of lift well finished with neat cement.	61	m^2	.....	.....
	Sub Total of Water Proofing Carried to Sub Summary of Bill No.01			-	.....
	1G - PAINTING				
	Rates shall include for,				
	The prices shall include for preparation of surface, cleaning down, use of wall fillers and primary paint coats to obtain neat surface., sand papering etc.	*Note*			
	Protection of floors and fittings, removing door and window furniture, and cleaning window etc. upon completion.	*Note*			
	All weathershield/ floor paints, primer shall be of approved make with non lead pigment.	*Note*			
	Rate to include for the cost for the scaffoldings.	*Note*			
	Applying of five coats system for Exterior Walls.	*Note*			
	Supply and application of one coat of Acrylic wall Filler, two coats of Emulsion paint for internal surface of lift walls and corridor including preparation of surface.				

ITEM	DESCRIPTION	QTY	UNIT	RATE Rs. Cts.	AMOUNT Rs. Cts.
1G-1	Ground Floor	30	m^2	.....	.....
1G-2	First Floor	55	m^2	.....	.....
1G-3	Second Floor	116	m^2	.....	.....
1G-4	Third Floor	75	m^2	.....	.....
	Prepare and apply one primer coat of Alkali resistant sealer, one coat of crack bridging wail filler and two coats of weathershield of approved colour and quality to external rough plastered face of walls and reveals strickly as per manufacture's specifications.				
1G-5	Ground Floor	116	m^2	.....	.....
1G-6	First Floor	153	m^2	.....	.....
1G-7	Second Floor	227	m^2	.....	.....
1G-8	Third Floor	75	m^2	.....	.....
	Sub Total of Paiting Carried to Sub Summary of Bill No.02			-	.....
	1H - MISCELLANEOUS				
1H-1	Roof removing asbastos sheet and timber, stacking and handing over to client serviceable materials and clearing debris away within site, in two storied buildings	110	m^2	.....	.....
1H-2	12mm dia GI thread bar chemically anchored into the existing concrete column 175mm using HILTI RE 500 or equivalent as per manufactures specificatiom	12	Nos	.....	.....
1H-3	12mm dia GI thread bar chemically anchored into the existing concrete beam 120mm using HILTI RE 500 or equivalent as per manufactures specificatiom	8	Nos	.....	.....
1H-4	16mm dia GI thread bar chemically anchored into the existing concrete column 200mm using HILTI RE 500 or equivalent as per manufactures specificatiom	24	Nos	.....	.....

ITEM	DESCRIPTION	QTY	UNIT	RATE Rs. Cts.	AMOUNT Rs. Cts.
1H-5	Fabricating & Fixing Steel web Truss , Span 7m consist of 2 nos 65mm x 65mm x 6mm top chord and bottom chord 50mmx50mmx6mm bracings. Including all , gusset plates , cleats , rivets , nuts, washers, rag bolts, separators etc as per given detail drawing - J035. Rate shall include for fixing in position of a Three story building and application of two coats of epoxy zinc phosphate paint. (different colours to be applied) for machine room roof.	650	kg	….....	…..... -
1H-6	Supply, installation and fixing of angle iron sleepers over the walls to support purlins formed with 50mm x 50mm x 6mm thick angles welded back to back with 75mm x 50mm x 10mm thick seperators @ 2'-0" c/c, fixed to the concrete pad laid on the wall with 2nos 16mm dia. rod and 10mm thick gusset plates, base plates & sole plates, mild steel rag bolts,12" long 75 x 75 x 6mm purling cleats, etc. Rate shall include for hoisting and placing in position and application of two coats of epoxy zinc phosphate paint. (different colours to be applied) for corridor roof	30	m	….....	….....
1H-7	Supplying & Fixing High tensile Galvanized Steel "CEE" channel purlins [Lipped Channel], having the sectional dimensions of 100mm x 50mm x 14mm and member thickness of 2.0mm (Tensile strength 450 N/mm2) standards complying with AS 1397-2001, on existing roofing structure or any roofing support.	70	m	….....	….....
1H-8	Supplying and fixing 65mm x 65mm x 6mm thick angle iron purlin at maximum spacing of 4'-0" centers maximum span of 11'-0" for a Zn/Al sheet roof .Rate shall include for necessary nuts, bolts & washers, etc. hoisting and placing in position and application of two coats of epoxy zinc phosphate paint. (different colours to be applied)	110	m	….....	….....

ITEM	DESCRIPTION	QTY	UNIT	RATE Rs. Cts.	AMOUNT Rs. Cts.
	The nominal base metal thickness (BMT) should be 0.42 mm and the total coated thickness (TCT) not less than 0.47 mm, HI-Tensile steel with minimum 550 Mpa yield strength, metallic hot dip coated Aluminium-Zinc Alloy (55% Aluminium, 43.5% Zinc, 1.5% Silicon). 10 years of guarantee should be given by the manufacturer for Zn/Al Sheets. Fasteners should comply with Australian Standard AS 3566 Class 4 for outdoor use . Material Composition must be standard.				
1H-9	Supplying and fixing Zinc Aluminium colour bonded steel roofing sheets (0.47 gauge) on existing framework using nut & bolt / self tapping screws or fasteners. HI-Tensile steel with minimum 550 Mpa yield strength, the Coating mass of the roofing sheet is AZ150.	173	m^2	….....	….....
1H-10	Flashing, 0.47mm thick,Hi Tensile Zn/Al , 450mm wide, supplying and fixing with 150mm turning up along, and top edge tucking well into wall and groove filled with silicon.	7	m	….....	….....
1H-11	Supplying and fixing Zinc Aluminium ridge capping(457mm girth) (.47 gauge) , to existing sheet roof, using new fasteners or st /screws.	26	m	….....	….....
1H-12	12mm thick heat and sound installation sheet (double side luminary aluminium foil) laying on 75mm x 75mm GI mesh under roof covering.	173	m^2	….....	….....
1H-13	Allow Provisional sum for supplying, fabricating, and fixing of GI ladder and hand railing for machine room.		**Pro. Sum**		**400,000.00**
	Sub Total of Miscellaneous Carried to Sub Summary of Bill No.02			-	**…..**

CONSTRUCTION OF A LIFT BAY FOR A BED LIFT FOR THE EXTENTION OF MEDICAL WARDS & WARD NO 7 AND 8 AT TEACHING HOSPITAL - PERADENIYA

BILL OF QUANTITIES

SUB SUMMARY

BILL NO. 01 - CIVIL WORKS

ITEM	DESCRIPTION	AMOUNT Rs. Cts.
2A	EXCAVATION AND EARTH WORK	….....
2B	MASONRY WORKS	….....
2C	CONCRETE WORKS	….....
2D	METAL WORK	….....
2E	FLOOR WALL AND CEILING FINISHES	….....
2F	WATER PROOFING	….....
2G	PAINTING WORKS	….....
2H	MISCELLANEOUS	….....
SUB TOTAL CARRIED TO MAIN SUMMARY		**…..**

CONSTRUCTION OF A LIFT BAY FOR A BED LIFT FOR THE EXTENTION OF MEDICAL WARDS & WARD NO 7 AND 8 AT TEACHING HOSPITAL - PERADENIYA

BILL OF QUANTITIES

BILL NO. 02 - ELECTRICAL INSTALLATION

ITEM	DESCRIPTION	QTY	UNIT	RATE Rs. Cts.	AMOUNT Rs. Cts.
	2A - ELECTRICAL INSTALLATION				
	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.	Note			
	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.	Note			
	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.	Note			
	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.	Note			
	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.	Note			
	All the quantities given here are approximated values and Quantities may change with the actual installation at the site.	Note			
	All types of fittings, materials, painting and finishes shall be approved by the Engineer prior to installation.	Note			

ITEM	DESCRIPTION	QTY	UNIT	RATE Rs. Cts.	AMOUNT Rs. Cts.
	Distribution Board Supply and installation of surface mounted Distribution Board to IP54 complete with following items. Rate shall include the cost for necessary CT's protection Relays, internal connections transport and all other accessories required. Enclosure shall be surface mounted type fabricated out of 1.2mm thick sheet steel and powder coated.	Note Note Note			
2A-1	**DB-LIFT** 01 No. 40A, 4-pole, MCCB, with 10kA MCB 01 No. of 40A 4-pole RCCB, with 100mA sensitivity 1 No. of 40A 2-pole RCCB, with 30mA sensitivity 4 No. of 16A 2- pole MCB 4 No. of 10A 2- pole MCB 01 Set of 63A Cu Bus Bars for R,Y,B & N Earth Bar 01 Set of Indicators with protection All internal connections **Equipment to be to the BS and European/Japanese make**	1	nr	.....	.....
	Cables Supply and installation of following 600/1000V copper cables with all accessories such as cable lugs, glands, etc. Cables shall be manufactured to comply with BS 5467 for XLPE insulated cables and BS 6346 for PVC insulated cables. Aerial Bundled Conductors (ABC) shall be manufactured to National French Standard NFC 33-209. Cable rate shall be in linear meter	Note Note Note Note			
	Al/XLPE cables Supply and installation of following Al/XLPE Conductors with all necessary accessories.	Note			
2A-2	$10mm^2$ Al/XLPE/PVC 4 Core cable from nearest light pole to DB Lift	30	m	.....	.....
	Earth cables Supply and installation of following Cu/PVC cables installed in cable trunking.				

ITEM	DESCRIPTION	QTY	UNIT	RATE Rs. Cts.	AMOUNT Rs. Cts.
2A-3	10mm^2 Cu/PVC earth cable from DB-LIFT to Earth Rod	20	m	.....	.....
2A-4	**Wiring of 40A 4 Pole Isolator Switch** Wiring of a 40A 4 Pole isolator switch using 10.0m^2 CU/PVC/PVC cable and 10.0mm^2 Cu/PVC earth wire drawn in rigid PVC conduits in ceiling/Slab or surface mounted including 40A 4 Pole isolator, mounting box and all other accessories required.	1	nr	.....	.....
	<u>Light Fittings</u> Supply and installation of the following light fittings. Light fittings shall be of high quality and shall be subjected to the approval of the Electrical Engineer prior to purchase. Accessories shall comply with relevant BS/IEC standards and Japanese/European or Sri Lankan make.	Note			
	LED lights shall have a minimum of 30,000hrs Average lifetime (burning hours) and shall be purchased from a reputed supplier. A manufacturing warranty requires more than three years.	Note			
	LED Light fitting shall be considered defective and needs replacement if the lumen output of the luminaire drops to 70% of its nominal output value or flicker condition.	Note			
	LED lamps shall be consistent with constant current integrated type driver. Minimum efficacy of LED light: 100lm/W	Note			
	All the accessories shall comply with the relevant British / IEC standards.	Note			
2A-5	Supply and installation of surfaced mounted type light Fitting with powder-coated white sheet steel or Polycarbonate housing with relevant accessories (electronic ballast, terminal block, etc.). The lumen output of the fitting shall be more than equal to 1200 lumens. THD value < 10%, Colour temperature 3500K and CRI shall be > 80. Fitting and accessories of Japanese or European origin.	12	Nos	.....	.....

ITEM	DESCRIPTION	QTY	UNIT	RATE Rs. Cts.	AMOUNT Rs. Cts.
	Light Point Wiring				
2A-6	Wiring (including supply of all material, earth wire & switch) of the light point from the respective Consumer Unit, using 2 × 1.5sq.mm Cu PVC/PVC 1C cables & 2.5sq.mm earth wire drawn through securely fixed PVC conduits/pvc casing.	12	Nos	….....	….....
	Socket Outlets and Isolator				
	13A Socket outlets (Raw power)				
2A-7	Supplying, installation of white colour 13A socket outlets on brick wall / partition wall /soffit / wall trunking with necessary accessories.	4	Nos	….....	….....
	Socket Outle and Isolator Wiring				
	13A Socket Outlet Wiring				
2A-8	Wiring (including supply of all material required) of 13A socket outlets using approved type 2.5 mm^2 Cu/PVC/PVC, 2x1C cable & 2.5 mm^2 earth cable drawn through securely fixed concealed/Surface PVC conduit / PVC casing. (Radial circuit)	4	Nos	….....	….....
	Main Earthing System				
	Supply and Installation of all required materials and cables and connection to respective equipment to provide complete system.	Note			
2A-9	Supply and Installation of an earth electrode of minimum 50mm dia. GI rod of length 1.2m or more with a clamp connection to earth conductor. Earth resistance shall be less than 10 Ohms tested on a dry day. An earth pit of size 300mm x 300mm x 200mm is to be prepared and covered by removable concrete plate to protect the earth electrode.		Item		….....
	Inspection and Testing - Electrical installation				
2A-10	Testing the installation and rectify any defects and submit a certificate by a Chartered Electrical Engineer.	1	Item		….....
2A-11	3 set of A3 size as build drawings	1	Item		….....
	Sub Total for Electrical Installation Carried to Main Summary				**…..**

CONSTRUCTION OF A LIFT BAY FOR A BED LIFT FOR THE EXTENSION OF MEDICAL WARDS & WARD NO 7 AND 8 AT TEACHING HOSPITAL - PERADENIYA

BILL OF QUANTITIES

MAIN SUMMARY

Bill No	DESCRIPTION	AMOUNT Rs Cts
1	**CIVIL WORKS**	.....
2	**ELECTRICAL WORKS**	.....
(a)	**Basic Cost Estimate (BCE) (Sub Total 1)**	.....
(b)	Less: Provisional Sum	**400,000.00**
(c)	Sub Total II (a-b)	.....
(d)	Less: Discount if any (..... %)	.....
(e)	Sub Total III (c-d)	.....
(f)	Add : Provisional Sum (b)	**400,000.00**
	TOTAL BID SUM WITHOUT VAT	.....

Total Bid Sum to be taken in to Form of Bid (Page No. 05) in words Rupees: ..…..……...……

..……..……...……..…….

. ..... only.

Amount of V.A.T.(Prevailing VAT) for the Total Bid Sum :- Rs. ……..……

Bidder's VAT Registration No: ……...……..……...……..

…….

Signature of Bidder

Name and Address of Bidder:

……

……

……

Date……

……

Signature of Witness (1)

Name and Address of Witness (1)

……....

……....

……....

Date……

…….

Signature of Witness (2)

Name and Address of Witness (2)

…….

…….

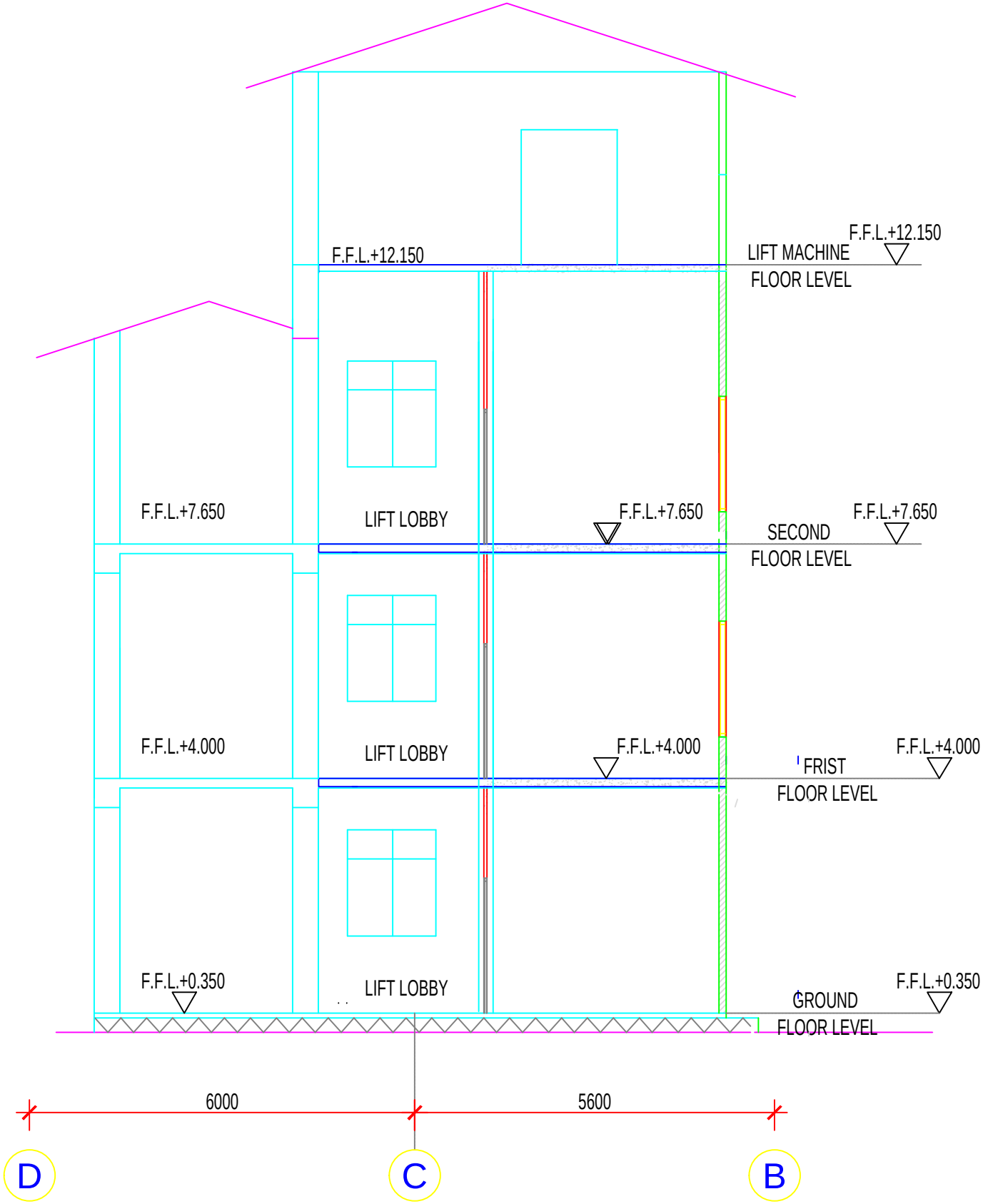
…….

Date……

SECTION - 08

DRAWINGS

PRODUCED BY AN AUTODESK STUDENT VERSION



SECTION Y-Y

SCALE 1:100

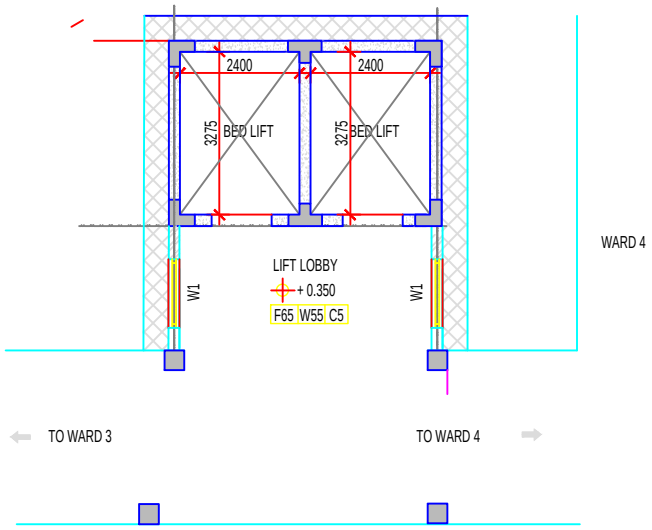
PRODUCED BY AN AUTODESK STUDENT VERSION

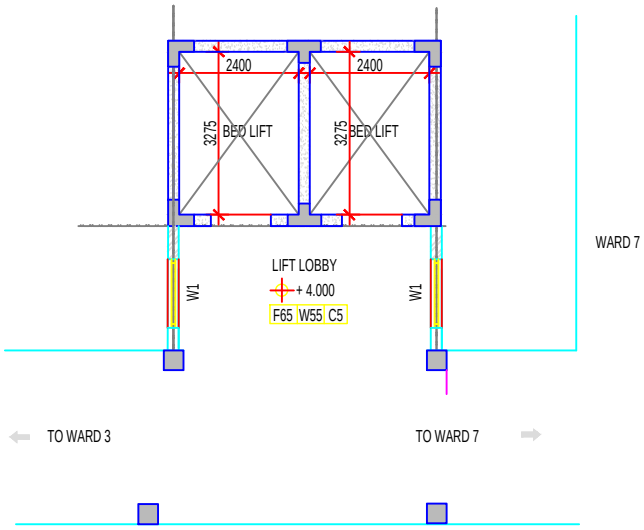
PRODUCED BY AN AUTODESK STUDENT VERSION

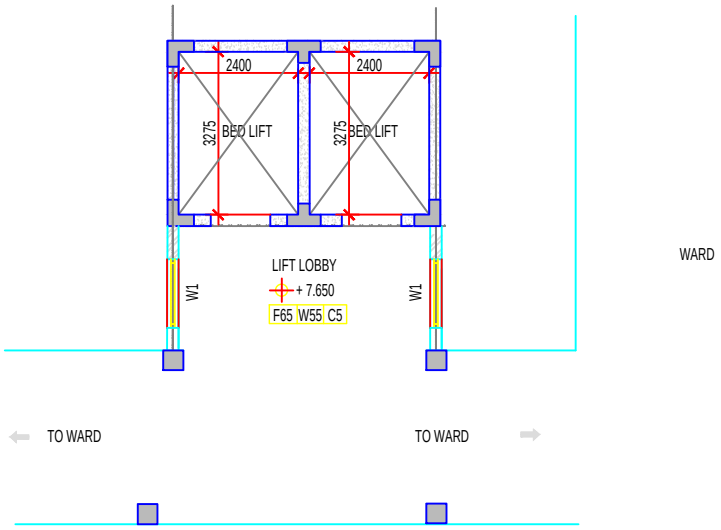
PRODUCED BY AN AUTODESK STUDENT VERSION

PRODUCED BY AN AUTODESK STUDENT VERSION

PRODUCED BY AN AUTODESK STUDENT VERSION



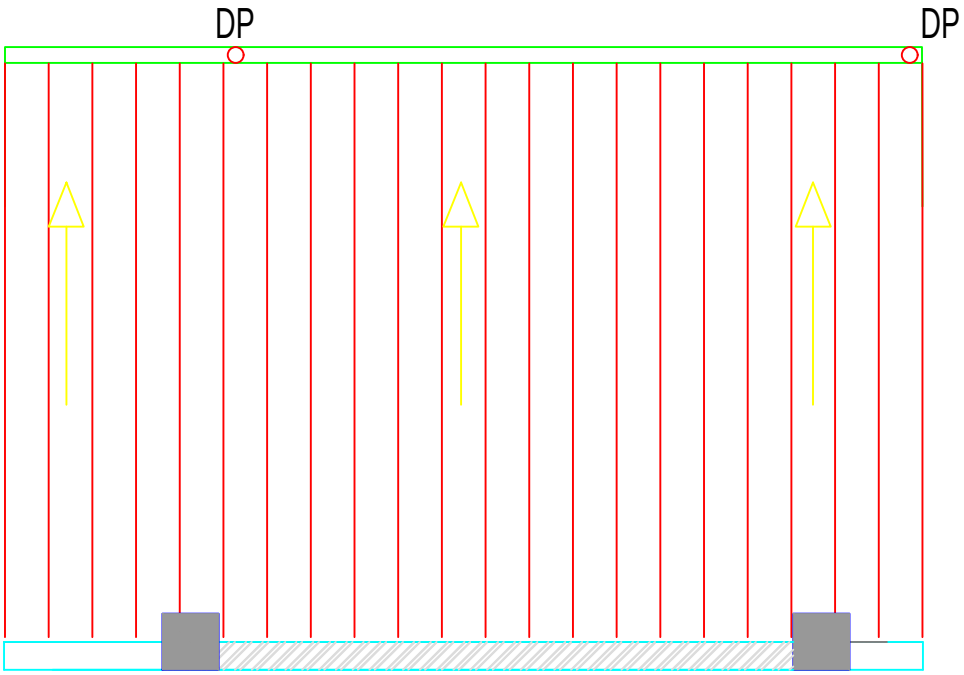




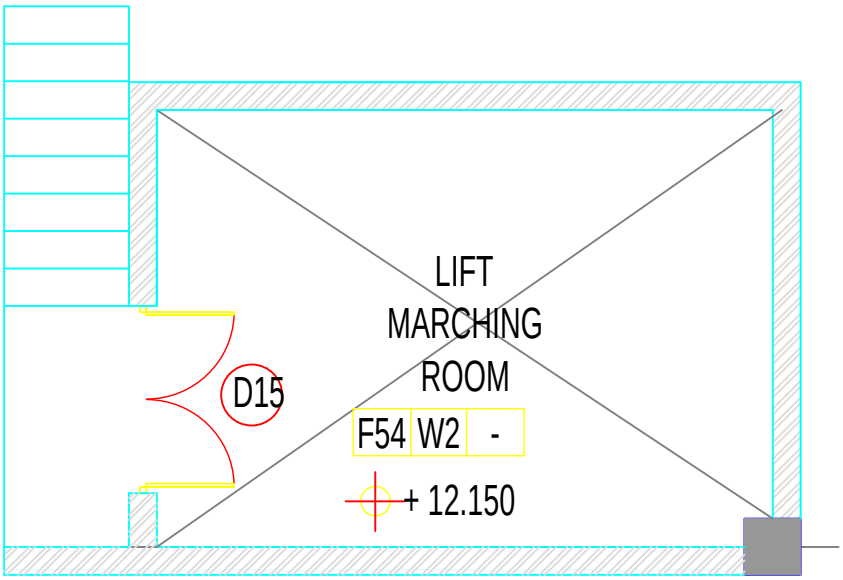
PRODUCED BY AN AUTODESK STUDENT VERSION

PRODUCED BY AN AUTODESK STUDENT VERSION

PRODUCED BY AN AUTODESK STUDENT VERSION



ROOF PLAN



PRODUCED BY AN AUTODESK STUDENT VERSION

PRODUCED BY AN AUTODESK STUDENT VERSION

PRODUCED BY AN AUTODESK STUDENT VERSION

Section - 9

STANDARD FORMS (BID)

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

FORM OF BID SECURITY

……. ……..……

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

Beneficiary: Director,
Teaching Hospital,
Peradeniya.

Date: .....[Insert (by issuing agency) date]

BID GUARANTEE NO.....[Insert (by issuing agency) number] We have been informed that ..... [*Insert (by issuing agency) name of the bidder*](Hereinafter called "**the Bidder**") has submitted to you its bid dated ..... [Insert (by issuing agency) date](Hereinafter called **"the Bid**") for execution of **"Construction of a Lift Bay for a Bed Lift for the Extension of Medical Wards & Ward No 07 and 08 at Teaching Hospital - Peradeniya", (Contract No: THP/AD/16/2026)** under Invitation for Bids No. …….. ("**The IFB**").

Furthermore, we understand that, according to your conditions, Bids must be supported by a Bid Guarantee.

At the request of the Bidder, we..... *[Insert name of issuing agency]* hereby irrevocably undertake to pay you any sum or sums not exceeding in total an amount of ……. *[Insert amount on figures]* …….. *[insert amount in words]* upon receipt by us of your first demand in writing accompanied by a written statement stating that the bidder is in breach of its obligation(s) under the bid conditions, because the Bidder:

(a) has withdrawn its Bid during the period of bid validity specified; or
(b) does not accept the correction of errors in accordance with the Instructions to Bidders (hereinafter "the ITB"); or
(c) having been notified of the acceptance of its Bid by the Employer during the period of bid validity, (i) fails to refuses to execute the Contract Form, if required, or (ii) fails to refuses to furnish a Performance Security, in accordance with the ITB.

This Guarantee shall expire:

(a) if the Bidder is the successful bidder, upon our receipt of copies of the Contract signed by the bidder and the Performance Security issued to you by the Bidder; or
(b) If the Bidder is not the successful bidder, upon the earlier of
(c) Our receipt of a copy of your notification to the Bidder that the bidder was unsuccessful, otherwise it will remain in force up to 28 days beyond the validity of the bid. *(.....)*

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

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

Check List for Bidders

Bidders are advised to fill the following table:

ITEM	ITB Clause	Yes (tick)	REFERENCE
Form of Bid			
Addressed to the Employer?	**18**		
Completed?	**18**		
Signed?	**18**		
Bid securing Declaration form (if required)			
Properly filled and singed	**16**		
Bid Security (if required)			
Addressed to the Employer?	**16**		
Format as required?	**16**		
Issuing Agency as specified?	**16**		
Amount and currency as requested?	**16**		
Validity 28 days beyond the validity of Bid ?	**16**		
Qualification Information			
All relevant information completed?	**4**		
Signed?	**4**		
Addendum			
Contents of the addendum (if any) taken in to account?	**10**		
BID package			
All the documents given in ITB Clause 12 enclosed in the original and copy?	**12**		
ITB Clause 19 followed before Sealing the Bid Package?	**19**		