

DEMOCRATIC SOCIALIST REPUBLIC OF SRI LANKA
MINISTRY OF HEALTH & MASS MEDIA
EXPANSION OF THE A & E UNIT
GENARAL HOSPITAL (TEACHING) - PERADENIYA
BIDDING DOCUMENT

CONTRACT NO: THP/AD/07/2025

Volume I (For the Use as the “original” document to submit)

Invitation for Bids

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Volume II (For the Use as the “Duplicate Copy” to submit)

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

Contractor

CONSULTANT

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

CLIENT

MINISTRY OF HEALTH & MASS MEDIA
“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 **Expansion of the A & E Unit for General Hospital (Teaching), Peradeniya** as described below and estimated to cost~ 35.48 million (Basic cost)
2. Work consists of Demolisher, Concreter, Masonry Works, Wall Finishes, Floor Finishes, Painter, Plumber, Aluminum Work, Electrical Works & Miscellaneous Works etc. (refer BOQ)

Construction period is **120 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 **C6 or above** in the field of Building works under Construction Industry Development Authority (CIDA)/ Former ICTAD.

4(b) Average annual volume of construction work performed in the last five years shall be at least 35million

4(c) Contractor has successfully completed at least a similar project to this by value and complexity during last five years (At least 70% of project should have been completed).

4(d) Technical staff at site to be

- At least one Technical Assistant (Civil, full time on site) – NCT or equivalent with 3-year experience.
- Civil Engineer (Periodical visits) – Qualification; (Degree in BSc Engineering, Minimum with three years experience)
- Electrical/ Mechanical Engineer (Periodical visits)– Qualification; (Degree in BSc Engineering, Minimum with three years experience).

4(e) The minimum amount of liquid assets or available credit facilities for utilizing at the time of bidding exclusive of any advance payments shall be not less than Rs. 27 Million. as per clause 4.4 in bidding data.

5. Interested bidders may obtain further information from **Director, General Hospital (Teaching), Peradeniya for Expansion of the A & E Unit**, and inspect the bidding documents at the address given below from 2025.05.23 until 2025.06.13 from 09.00 hrs to 14.00 hrs

6. 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 Expansion of the A & E Unit from 2025.05.23 until 2025.06.13** 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.
www.peradeniya-hospital.health.gov.lk
7. 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 2025.06.13. 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.
8. Bid validity shall be 91 days from the date for closing of Bids.
9. All bids shall be accompanied by a "Bid security" of **Rupees three hundred sixty thousand only (Rs. 360,000.00)**. 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: **Expansion of the A & E Unit**

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)*

ICTAD Registration	<i>(Attach copies of relevant pages from the registration book)</i>
Registration number	
Grade (C6 or above)	
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	<i>(Attach relevant status copies of sole proprietor, partnership/ company, as annex)</i>
Construction Program	<i>(Attach as annex)</i>
Average annual volume of construction work performed in the last five years shall be at least 35million Year 2020 Year 2021 Year 2022 Year 2023 Year 2024	<i>(Attach certified copies of certificate of completion, etc and other documents such as profit loss and income expenditure Statement)</i>
Value of similar works completed in last 5 years (Indicate only 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)
Qualification and experience of key staff - Site & Head Office (Permanent, Contract Basis & Consultants)	(Attach certified copies of certificates) Managerial / Technical: 1. Technical Assistant- Civil (Full time at site)- NVQ 5 or equivalent with minimum five years experience 2. Civil Engineer (Periodical visits)– Qualification; (Degree in BSc Engineering, Minimum with three years experience)

	<p>3. Electrical Engineer/ Mechanical Engineer (Periodical visits)– Qualification; (Degree in BSc Engineering, Minimum with three years experience)</p>
<p>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</p>	

Section - 7

BILL OF QUANTITIES

EXPANSION OF THE A & E UNIT
GENERAL HOSPITAL (TEACHING) - PERADENIYA

SUMMARY

ITEM	DESCRIPTION	AMOUNT Rs. Cts.
A	PRELIMINARIES	
B	DEMOLISHER	
C	CONCRETER	
D	MASONRY WORKS	
E	WALL FINISHES	
F	FLOOR FINISHES	
G	PAINTER	
H	PLUMBER	
I	ALUMINIUM WORK	
J	ELECTRICAL WORKS	
K	MISCELLANEOUS WORKS	
(a)	Sub Total I	
(b)	Ddt: Provisional Sum	5,226,500.00
(c)	Sub Total II	
(d)	Ddt :% Discount	
(e)	Sub Total III	
(f)	Add: Provisional Sum	5,226,500.00
(g)	Total amount for Bid	
(h)	Add : 18% VAT	
(j)	Total Amount with VAT	

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

.....

Signature of the Contractor

Witness :-

Address

Address :-

Date

Date :-

EXPANSION OF THE A & E UNIT
GENERAL HOSPITAL (TEACHING) - PERADENIYA

PRELIMINARIES

Note:

- 1 **The Engineer/ Consultant may modify or amended any item , or delete inappropriate item/s or add new item/s , depending on the nature of the proposed work.**
- 2 **Mode of payment are as below.**

Mode of Payment	Category
Reimbursement of actual cost on submission of the relevant document acceptable to the Engineer plus 5% of the actual cost of obtaining the insurance policies and securities.	A
60% on completion of temporary buildings or structures. 30% in equal installments over the contract period and balance 10% on dismantling and removal on completion.	C
Paid on satisfactory completion of the item	D
In equal installments over the contract period.	E
Mode of payment to be mutually agreed between contractor and the employer at the commencement of contract in relation to the program of work.	F
On the completion of work	G

- 3 **The above recommended percentage may be adjusted by the Employer/Consultant to suit the particular project.**
- 4 **The tenderer is advised to visit the site of the proposed work, as it is his responsibility to ascertain the conditions, space governing access to the site, external working space, storage area, status of the adjoining properties etc.**
- 5 **Any preliminary item not listed below but deemed to be included in the tender rates, as no extras would be made.**

Item	Description	Mode of payment Category	Unit	Amount Rs. Cts.
A	<u>PRELIMINARIES</u>			
	Insurance & Securities			
A1	Provisional Sum for providing a Performance Security	A	P.S	55,000.00
A2	Provisional Sum for providing an Advance Payment Security	A	P.S	110,500.00

Item	Description	Mode of payment Category	Unit	Amount Rs. Cts.
A3	Provisional Sum for insurance of Works, Machinery & Equipment, Plant, Materials, third party persons & property at site as per the Contract. (All Risk Policy)	A	P.S	74,000.00
A4	Provisional Sum for insurance against accidents and injury to Contractor's personel as per the Contract. (Workmen Compensation)	A	P.S	37,000.00
	Contractor's Facilities			
A5	Allow lump sum for constructing, maintaining, dismantling and removal on completion of the Works, a <u>temporary site office</u> , stores of adequate size including staff rest room and toilets and other facilities for the Contractor's site management staff in accordance with the plans prepared by the Contractor and concurred by the Engineer.	C	Item	
	Quality, Standars and Progress			
A6	Allow lump sum for provision of 3 sets of (Hard copies and soft copies) as built drawings of all services, for Engineer's approval.	D	Item	
	Health, Safety & Environment			
A7	Allow lump sum for providing all necessary safety measures to workmen at site conforming to the latest industrial safety regulations and as directed by the Engineer.	E	Item	
A8	Allow lump sum for maintaining the site in a clean and orderly manner at all times and during the entire contract period, demobilization, removal of all rubbish, debris and clearing up site on completion, leaving all in good order and handing over.	G	Item	
	Services & Facilities			
A9	Allow lump sum for supply of water for the works and paying all charges and other expenses in connection with the supply from water mains or any other alternative method of water supply, storage and reticulation.	E	Item	
Sub Total carried to Grand Summary				

EXPANSION OF THE A & E UNIT
GENERAL HOSPITAL (TEACHING) - PERADENIYA

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT (Rs)
	<p>Note:- (a) Rates are included for cleaning away debris within the Hospital Premises unless stated otherwise. Reusable/serviceable material shall be handed over to the client in formal way and any place of fixing and removing scaffolding. (b) All preliminary cost work should be included within BOQ items.</p> <p>B <u>DEMOLISHER</u></p>				
B1	Cutting trees girth 0.5m to 1.0m, removing root balls and stacking logs.	nr	10		
B2	Demolishing & clearing tiled, glazed floor or wall. (including cement bedding)	m ²	200		
B3	Removing & stacking wooden rain covers, shelves weld mesh from existing walls.	m ²	10		
B4	Demolishing reinforced concrete walls, beams or slabs and debris cleared away.	m ³	5		
B5	Demolishing, Hacking up & clearing debris away of floor concrete, inclusive of rendering.	m ²	80		
B6	Demolishing bricks / Masonry block walls inclusive of plaster and any fixtures including debris cleared away.	m ²	485		
B7	Removing & stacking Door or window (sash with frame) size over 4.0m2 from existing walls.	nr	5		
B8	Removing & stacking door or window (sash with frame) size up to 4.0m2 from existing walls.	nr	20		
B9	Removing & stacking Wash basins, cisterns, sinks, and urinals.	nr	25		
B10	Removing & stacking partitions, weld mesh, shelves, covers from existing walls.	m ²	75		
B11	Removing & clearing debris away Corrugated sheets, iron, asbestos or aluminium alloy from roofs, including framework inclusive of wiring and fixtures, gutters, valance boards etc.	m ²	100		
B12	Clearing away debris from hospital premises using tractor/ trailer or tipper.	load	30		
Sub Total carried to Summary					

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT
					(Rs)
C	<u>CONCRETER</u>				
	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			
	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			
	Rate shall include for necessary tests including cube tests as per the BS 1881 and SCA/4/1.	Note			
	<u>Formwork</u>				
	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			
	<u>Reinforcement</u>				
	All reinforcement shall be as per relevant British Standards having minimum characteristic strength of 460 N/mm ² for High Yield 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			
	All cement type to be Ordinary Portland Cement (OPC)				
	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			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT
					(Rs)
C1	Mixing and placing concrete grade 20 in position, nominal mix 1:2:4 (20mm) manually including compacting and curing.	m ³	10		
C2	Floor concrete with 1:2 1/2:5(25mm) 75mm thick, 1:3 normal cement and sand rendering finished smooth with expansion joints filled with 1:2 bitumen and sand. Rate including for curing, compacting ground and laying polythene sheets under the concrete.	m ²	175		
	<u>FORMWORK</u>				
C2	Sawn timber formwork in class III timber with bearers, joists and props including fixing and dismantling for the concrete ledge, steps etc.	m ²	50		
	<u>REINFORCEMENT</u>				
C3	Supplying and BS 4449 high Yield steel bars and laid in positing as reinforcement in beams, columns and staircase with binding wire.	Kg	100		
	Sub Total carried to Summary				
D	<u>MASONRY WORKS</u>				
D1	Masonry block work 100mm thick (Nominal) in walls in cement and sand 1:5 mortar using hollow blocks made of cement and sand to the proportion of 1:10, confirming compressive strength not less than 2N/mm2 at ground floor level.	m ²	450		
	Sub Total carried to Summary				
E	<u>WALL FINISHES</u>				
	<i>Rate shall include to</i>	<i>Note</i>			
	<i>(a) Fair joints</i>				
	<i>(b) Outlets, working over and around obstructions, pipes, and the like into recesses and shaped inserts.</i>				
	<i>(c) Bonding agents where included with the work.</i>				
	<i>(d) Patterned work is deemed to included all extra work involved.</i>				
	<i>(e) Bedding mortars</i>				
	<i>(f) Grouting</i>				
	<i>(g) Working over and polishing</i>				
	<i>(h) Plastic corner beadings</i>				
	<i>(j) Supplying and Fixing</i>				
	<i>Samples shall be forwarded by the contractor for prior approval of the Engineer.</i>	<i>Note</i>			
	<i>Rate to include for scaffolding.</i>	<i>Note</i>			
E1	16mm thick 1:5 cement and sand plastering to walls finished smooth with lime putty.	m ²	325		

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT
					(Rs)
E2	16mm thick cement and sand 1:5 plaster finished semi-rough with wooden float.	m ²	300		
E3	Supplying and fixing 300mm x 600mm locally manufactured Homogeneous Porcelain rustic wall tiles to walls including 12mm thick 1:3 cement sand bedding and finished with tile grout to match the tile with skirting.	m ²	140		
Sub Total carried to Summary					
F	<u>FLOOR FINISHES</u>				
F1	Cut & polishing terrazzo floor & skirtings.	m ²	525		
F2	Supplying and fixing locally manufactured 600mm x600mm locally manufactured Homogeneous Vitreous Porcelain semi glazed/matt floor tiles to floors including 20mm thick 1:3 cement sand bedding and finished with tile grout to match the tile.	m ²	150		
Sub Total carried to Summary					
G	<u>PAINTER</u>				
	<i>Rates shall include for,</i>				
	<i>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.</i>	Note			
	<i>Protection of floors and fittings, removing door and window furniture, and cleaning window etc. upon completion.</i>	Note			
	<i>Reveal, Column Projections, undersides of lintels and wall ends less than 300mm shall not be measured and shall be incorporated in other measurements. Isolated columns shall be measured for payments.</i>	Note			
	<i>All weathershield/ floor paints, primer shall be of approved make with non lead pigment.</i>	Note			
	<i>Rate to include for the cost for the scaffoldings.</i>	Note			
G1	Prepare and applying two coats of filler using brush or roller to walls.	m ²	2030		
G2	Paint filler applying two coat to ceilings or soffit after cleaning and preparing surface.	m ²	720		
G3	Paint exterior emulsion, applying two coats to walls after cleaning and preparing on surfaces .	m ²	480		
G4	Paint emulsion, applying two coats after cleaning and preparing surface	m ²	1550		

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT
					(Rs)
G5	Paint emulsion, applying two coats to soffit after cleaning and preparing surface.	m ²	720		
G6	Paint enamel, applying two coats after cleaning and preparing surface .	m ²	100		
Sub Total carried to Summary					
H	<p><u>PLUMBER</u></p> <p><u>Sanitary Fittings & Fixtures</u></p> <p><i>Supply and installation of approved quality sanitary appliances with pipe specials, fittings, and special connecting to water supply, sewage and wastewater disposal pipes.</i></p> <p><i>Unless otherwise measured separately, Rates shall include for:</i></p> <p><i>(a) Fittings such as taps, wastewater outlets, internal overflows etc. and supporting brackets, incidental materials for fixing.</i></p> <p><i>(b) Assembling, jointing together fixing components parts, and jointing to pipes including necessary coupling and for leaving perfectly clean and in perfect working order as on completion.</i></p> <p><i>(c) all necessary fixtures for sanitary fittings and special connection to water supply, wastewater and sewer lines</i></p> <p><i>(d) Jointing and connection pipes to sanitary fittings.</i></p> <p><i>(e) Testing and commissioning of the installation.</i></p> <p><i>(f) Making good the work disturbed.</i></p> <p><i>(g) Protecting the works</i></p> <p><i>(h) All Samples should be approved by the Engineer</i></p>	Note			
H1	Supplying & fixing approved sink stainless steel with single drain board with chromium plated wastewater chain flexible horse,, stay & waste plug	nr	2		
H2	Supplying & fixing mirror for bathroom 450mm x 600mm size approved quality with screws, plugs etc.	nr	10		
H3	Supplying & fixing Wash basin with pedestal Vitreous China 575 X 450 X 820mm (Rocell urban D or equivalent) and Chromium Plated Sawn neck Type Pillar Tap (Rocell N091214 or equivalent) complete with Waste Plug (Rocell A38, A43 or equivalent), flexible horse, chromium plated waste chain & stay	nr	12		
H4	Supply and installation of stainless steel wired Soap dish . Rate shall include all fixtures.	nr	12		

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT
					(Rs)
H5	Supply & fixing approved Closet with working order in white vitreous china, syphonic system, hinged acrylic soft closing seat and lid including 20mm(1/2")dia. chromium plated angle valve and chromium plated flexible hose. Rate to include for necessary fixtures and special connection to water supply line and sewer lines.	nr	10		
H6	Supplying & fixing 20mm(1/2") dia. bidet spray approved best quality. (chromiumplated)	nr	10		
H7	Supplying and fixing 20mm(1/2") dia. Approved, heavy quality chromium plated bib tap with 20mm(1/2") dia. P.V.C. Faucet Socket . (Rocell SD9A126 or equivalent)	nr	10		
H8	Supplying & fixing 20mm(1/2") pipe dia.,150mm approved chromium plated shower rose.	nr	10		
H9	Supplying & fixing 20mm(1/2") pipe dia., approved chromium plated telephone shower with wall bracket.	nr	5		
H10	Supplying & fixing approved stainless steel Towel rail with screws, plugs etc.	nr	10		
H11	Supplying and fixing 20mm(1/2") dia. Approved, brass-heavy quality chromium plated Angle Value with 20mm(1/2") dia. P.V.C. Faucet Socket.	nr	30		
H12	Supply and fix 20mm dia Chromium plated Brass Conceal Valve.	nr	20		
H13	Supplying and fixing 150mm x 150mm gully including concreting and supplying necessary grating.	nr	10		
H14	Stainless steel floor trap cover. Approx. 150x150mm size, (European or Equivalent Quality)	nr	10		
	<u>Water Supply System</u>				
	<i>All Type 1000 (uPVC) pipes used in the plumbing installation must conform in every respect to the requirements of the SLS 147 of 1993 or BS 4514.</i>	Note			
	<i>All uPVC fittings and specials should be Type 1000, unless otherwise specified, with joints of approved quality and conforming to Sri Lankan Standards used in the plumbing installation.</i>	Note			
	Unless otherwise measured separately, rates shall include for:	Note			
	<i>(a) Supply, transport to site and laying as specified.</i>				
	<i>(b) Cutting and joining of pipes and wastage of pipes.</i>				
	<i>(c) All specials such as elbows, bends, tees, junctions, plugs, reducers and similar necessary pipe fittings. (Valves may be measured separately)</i>				
	<i>(d) Necessary jointing materials i.e rubber rings, solvent cement etc, specified fillings for pipe beddings etc.</i>				

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT
					(Rs)
	<p>(e) All costs associated with provision of all holes (cutting or forming), mortises, openings, Chasing of brick, cement block or concrete walls, columns, beams etc. and necessary hangers and clips, for fixing to soffits, wall surfaces etc. and making good all works disturbed.</p> <p>(f) Necessary screws, nails, sockets, connection back nuts standard pipe fixing or supporting clips, saddles, brackets, holder bats, s-traps.</p> <p>(g) Connecting different types of pipes.</p> <p>(h) Testing, commissioning and disinfection after completion.</p> <p>(i) Excavation, backfilling, disposal of surplus soil.</p>				
H15	Supplying and laying Pipes PVC with specials, size 20mm dia. type 1000 (PNT 14) on wall	m	150		
H16	Supplying and laying Pipes PVC with specials, size 25mm dia. type 1000 (PNT 11) on wall	m	75		
H17	Supplying and laying Pipes PVC with specials, size 50mm dia. in wastes of sinks. Type 600.(PNT 7)	m	100		
	<u>Waste Water and Sewerage Disposal System</u>				
	All Type 600 unplasticized polyvinyl chloride (uPVC) pipes used in the plumbing installation must conform in every respect to the requirements of the SLS 147 of 1993 or BS	Note			
	<u>Unless otherwise measured separately, Rates shall include for:</u>	Note			
	(a) Laying of pipes to falls.				
	(b) Excavation, backfilling, disposal of surplus soil.				
	(c) All pipe specials such as bends, junctions, elbows, tees, end caps etc. unless separately given in the BOQ.				
	(d) Necessary jointing materials i.e rubber rings, solvent cement etc, specified fillings for pipe beddings etc.				
	(e) All costs associated with provision of all holes (cutting or forming), mortises, openings, Chasing of brick, cement block or concrete walls, columns, beams etc. and necessary hangers				
	(f) Necessary screws, nails, sockets, connection back nuts standard pipe fixing or supporting clips, saddles, brackets, holder bats, straps.				
	(g) Connecting different types of pipes.				
	(h) Connection to sides of manholes etc.				
	(i) Providing sleeves etc., when pipes pass through walls, foundations etc.				
	(j) Testing and commissioning of the installation.				
	(k) Protecting the works, all necessary hoardings, barricades.				

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
				(Rs)	(Rs)
H18	Supplying and laying of pvc 110mm diameter (type 400) on trenches including excavation.	m	100		200,000.00
H19	Supplying and fixing elbow pvc 110mm.	nr	20		
H20	Allow for supply and fixing valves, cleaning Eye,Elbow,Tees, Bends and unforeseen Work	P.S			
	Sub Total carried to Summary				
I	<p><u>ALUMINIUM WORK</u></p> <p><i>Aluminium extrusion should be manufactured under the certification of ISO 9001:2008</i></p> <p><i>The work shall include supply, fabricate and installation of doors, windows out of Aluminium Sections.</i></p> <p><i>Tolerance for thickness of the section is $\pm 10\%$ from the specific thickness given in the manufactures made.</i></p> <p><i>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.</i></p> <p><i>For each fabrications, a shop drawing shall be furnished to the Engineer, One month prior to the installation commencement and should get the approval for the same.</i></p> <p><i>Samples of hinges , Aluminium sections, Al composite boards etc shall be forwarded by the contractor for prior approval of the Engineer.</i></p> <p><i>The fabrication and installation of all aluminium work must be carried out by specialist tradesman.</i></p> <p><i>It shall be bidder's responsibility to check the sizes of all openings on site, prior to fabrication.</i></p> <p><i>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.</i></p> <p><i>Rate shall include for testing for Hardness, profile thickness, coating thickness of Aluminium extrusions</i></p> <p><i>Details of Aluminium Sections and accessories to be used if not specified separately.</i></p> <p>for Sash Doors - Width of Top bar-80mm Width of Middle bar-100mm Width of Bottom bar-120mm</p> <p>Glass Doors - 6mm thick clear float glasses Gardian or equivalent</p>				

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT
					(Rs)
	Lock (if not separately specified) -Door lock with triplicate keys (Mortice type) Alpha or equivalent. Hinges - 04 nos Stainless Steel (304) (Kinglong) hinges to be provided for a door sash if not separately specified				
I1	76 x 1.2mm thick powder coated aluminium partition frame, panelled two portions , top portion is panelled with aluminium composite panel of total thickness 4mm, with both sides Polyester coated aluminium sheets of 0.2mm thick, and bottom portion is panelled with aluminium composite panel of total thickness 4mm with 2 nos.of Polyester coated aluminium sheets of 0.2mm thick composite, completed with board joints taped with necessary pop rivots, gasket & etc. and work complete in order	m ²	25		
I2	Fabricating and fixing Powder-coated aluminium partition with aluminium architectural sections with 60 - 80 micron coating, glazed and panelled with 4 mm cladding board, at the bottom and 4.6mm thick glass at the top.	m ²	35		
I3	Fabricating and fixing Powder-coated aluminium hinged type sash door with aluminium architectural sections with 60-80 micron coating glazed and panelled with 4mm cladding board including door lock, etc.	m ²	20		
I4	Fabricating and fixing Powder coated aluminium glazed sliding type door sash with aluminium architectural sections with 60 - 80 micron coating glazed and panelled with 4 mm cladding board at the bottom and 4.6mm thick glass at the top, including door lock.	m ²	18		
I5	Supply all material, fabricate & fixing of fully paneled door (for toilets). Using Natural coloured Anodized 25mm X 75mm Box Bars Sections, "U" Bars & Paneling with 4mm thick both side coated Aluminium Composite Boards. Rate include of fixing of indicator type keyless door lock.	m ²	20		
I6	Powder Coated double sash butt hinged openable door with middlerail, panelling with aluminium composite panel of total thickness 4mm, with both sides Polyester coated aluminium sheets of 0.2mm thick and glazed with 5mm thick clear glass panes at top panel, neoprene and wooled beading, gaskets, pop rivots, threaded barwith nut and approved quality lock,butt hinges, door handle with capnut.	m ²	50		

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT
					(Rs)
I7	Fabricating and fixing Powder-coated aluminium louvre panels , fixed to aluminium partitions, windows or doors with aluminium architectural sections with 10 - 15 micron coating including all necessary fittings, etc.	m ²	35		
I8	Fabricating and fixing Powder-coated aluminium glazed fanlight with openable sash with aluminium architectural sections with 10 - 15 micron coating glazed 4.6 mm thick glass including all necessary rubber beading, rawl plug etc.	m ²	5		
I9	Fabricating and fixing Powder-coated aluminium glazed sliding window with aluminium architectural sections with 60 - 80 micron coating with 4.6mm thick glass including all necessary rubber beading, rawl plug & window lock, etc.	m ²	5		
I10	Supplying & fixing surface mounted door closer of "Union Brand" & approved equivalent.	nr	10		
I11	Supplying of imported, heavy duty self closing floor hinge of approved quality ('VVP' or equivalent with One year guarantee) and fixing to the aluminium doors including all connecting works like chipping and removing of floor finish/floor concrete and making good after completion. (guarantee card should be provided prior to installation). Rate to include top bracket and filling grease.	nr	22		
I12	Powder Coated fixed glazed window with 12mm thick tempered glass and frame work, crews, pop rivots, gasket and wool felt etc.	m ²	25		
I13	Supplying and fixing of 300mm, 25mm dia lightly bent type stainless steel (304) door handle.	pair	30		
I14	Supply, fabricate and fixing Powder Coated Aluminium Wall Cupboard having breadth of 750mm using 1 1/2' x 1' powder coated aluminium box bar frame work panelling with 3mm thick double side white color Composite board and swing type sashes made out of powder coated aluminium 1' x 1' CNT bar frame work panelling with 3mm thick double side white color Composite board. Intermediate shelves and shelf dividers should be made of 3mm thick double side white color composite boards and all edges should be finished with 12mm x 12mm aluminium 'L' angles. Rate to include for necessary rubber beadings, door handles, locks, fixing arrangement and other accessories.	m ²	5		

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT
					(Rs)
I15	Supply, fabricate and fixing of powder coated aluminium wall rack having breadth of 450mm using 50mm x 25mm powder coated aluminium box bar frame work panelling with 4mm thick Composite board. Intermediate shelves and shelf dividers should be made of 4mm thick composite boards and all edges should be finished with 12mm x 12mm aluminium 'L' angles. Rate to include for fixing arrangement and other accessories.	m ²	5		
	Sub Total carried to Summary				
J	<u>ELECTRICAL WORKS</u>				
I	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.				
II	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.				
III	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.				
IV	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.				
V	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.				
VI	All the quantities given here are approximated values and Quantities may change with the actual installation at the site.				
VII	All types of fittings, materials, painting and finishes shall be approved by the Engineer prior to installation.				
VIII	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.				
	<u>Electrical Distribution System</u>				
J1	Associated work for the getting Electricity connection from existing Panel board.(Using 63A,3Phase Electricity Connection)	P.S			50,000.00

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT
					(Rs)
J2	<u>DB-01 (Near the existing FDB)</u> Supply and installation of 63A, 4P MCCB,16 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	nr	1		
J3	<u>DB-A&E</u> 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 63A, 4P MCCB,16 kA Breaking capacity complete 01 No ELR with core balance and all protection, 0.1 A - 02 Nos. 32A, 4P MCB,6kA 06 Nos. 32A, 2P MCB,6kA 06 Nos. 40A 2P RCCB, 30mA sensitivity 30 Nos. 6-20A, 1P MCB,6kA 01 Set of 100A Cu Bus bars for L1,L2,L3 & N 01 No Earth Bar 01 Set of indicators with protection Supply and installation of Class II Surge diveter with 40 All internal connections. Equipment to be to the BS/IEC	nr	1		
J4	<u>Three Phase Consumer Unit (TCU)</u> 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 Nos. 40A, 4P Isolator 03 Nos. 32A, 2P MCB,6kA 06 Nos. 40A 2P RCCB, 30mA sensitivity 27 Nos. 6-20A, 1P MCB,6kA 01 Set of 50A Cu Bus bars for L1,L2,L3 & N 01 No Earth Bar 01 Set of indicators with protection All internal connections. Equipment to be to the BS/IEC	nr	1		
J5	<u>Single Phase Consumer Unit (CU-UPS)</u> 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. 02 Nos. 32A, 2P MCB,6kA 02 Nos. 40A 2P RCCB, 30mA sensitivity 10 Nos. 6-20A, 1P MCB,6kA 01 No Earth Bar All internal connections. Equipment to be to the BS/IEC	nr	1		
J6	<u>Un-interrupted Power supply Systems (UPS)</u> Supply & Installation of on-line, single phase, 5kVA Equipment to be to the BS and European/Japanese	nr	1		
J7	<u>Nurse call system</u> Allow Provisional sum for Nure call system. (Including host,bed head unit, door lamp, corridor Display....etc.)	P.S			1,200,000.00

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT
					(Rs)
J8	<u>Cables</u> Supply and installation (with all materials required including conduits and termination) of following cables.				
J8.1	16mm ² , 1C×4, Cu/PVC/PVC cable from Existing FDB to DB-01.	m	5		
J8.2	16 mm ² CU/PVC Earth cable from DB-01 to Main Earth Electrode.	m	15		
J8.3	16mm ² Cu/PVC/PVC 1C×4 cable + 16mm ² Green & Yellow Earth cable from DB-01 to DB-A&E	m	50		
J8.4	6mm ² Cu/PVC/PVC 1C×4 cable + 6mm ² Green & Yellow Earth cable from DB-A&E to TCU.	m	40		
J8.5	6mm ² Cu/PVC/PVC 2C cable + 6mm ² Green & Yellow Earth cable from DB-A&E to CU-UPS.	m	40		
J9	<u>Cable management system</u> <u>PVC Trunking</u>				
J9.1	Supplying and installation of 100 × 50mm PVC Trunking as necessary.	m	80		
J9.2	Supplying and installation of 50 × 25mm PVC Trunking as necessary.	m	150		
	<u>PVC Casing</u>				
J9.3	Supplying and installation of 25 × 16mm PVC Casing as necessary.	m	300		
J10	<u>Light Fittings</u> Note :- Warranty of all complete LED light fitting must be minimum two years.				
J10.1	Supply and installation of Recessed type/ surface type White, Square shape 6W LED panel light fitting, minimum flux 390 lumens with accessories.	nr	16		
J10.2	Supply and installation of Sunk type/ surface type White, Square shape 12W LED panel light fitting, minimum flux 780 lumens with accessories.	nr	38		
J10.3	Supply and installation of Recessed type/ surface type White, Square shape 18W LED panel light fitting, minimum flux 1480 lumens with accessories.	nr	25		
	<u>Light Point Wiring</u>				
J10.4	Wiring (including supply of all materials) of the above light points using approved type PVC insulated PVC sheathed 1 mm ² copper cable drawn through securely fixed concealed PVC conduit/casing.	nr	79		
J10.5	Supplying & Fixing of wall mounted, maintained type (3W × 2) LED Emergency lamp with min 2 hour backup time.	nr	4		
J10.6	Allow Provisional sum for Removing existing defect light fittings, socket outlets & properly handing over to the client. Cost for cleaning and repainting of existing light fittings.....etc.	P.S			500,000.00

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT
					(Rs)
J11	<u>Fans</u>				
	<u>Ceiling Fans</u>				
J11.1	Supply & installation of 1400mm (56") , 75W, min. 7900 CFM with Metal blade sweep ceiling fan , complete with regulator, fan hook, extension rod & attachment.	nr	14		
	<u>Ceiling Fan point wiring</u>				
J11.2	Wiring (including supply of all material, earth wire & switch) of the above ceiling fans using approved type 1 mm ² , Cu/PVC/PVC cable & 2.5 mm ² earth wire drawn through securely fixed concealed PVC conduits/casing.	nr	14		
	<u>Wall fans</u>				
J11.3	Supply & installation of wall fan, 400mm (16") , 52W, min. 2200 CFM with Metal blade,speed regulator & accessories.	nr	6		
	<u>Wall Fan point wiring</u>				
J11.4	Supplying, wiring and installation 2.5mm ² 2C Cu/PVC/PVC cable and 2.5mm ² Cu/PVC earth conductor and 13 Amp single switch socket outlet with all accessories (including switch socket outlet).	nr	6		
J12	<u>Socket Outlets</u>				
	<u>13A Socket outlets</u>				
J12.1	Supply & installation of 13A shuttered switched single socket outlet to comply with BS .	nr	32		
	<u>13A Black color Socket outlets (For UPS power)</u>				
J12.2	Supply & installation of 13A shuttered switched single black color socket outlet to comply with BS .	nr	19		
	<u>Wiring of 13A Socket outlets (radial circuit)</u>				
J12.3	Wiring (including supply of all material required) of 13A socket outlets using approved type 2.5mm ² Cu/PVC/PVC, 2C cable & 2.5mm ² earth cable drawn through securely fixed concealed PVC conduit.	nr	51		
	<u>Supply & Wiring of 10 Nos of 13A Socket outlets</u>				
J12.4	Supply & Wiring (including supply of all material required) of 10 Nos of 13A socket outlets using approved type 2.5mm ² Cu/PVC/PVC, 2C cable & 2.5mm ² earth cable drawn through securely fixed concealed PVC conduit.(including cost of 10 nos of 13A Socket Outlets)	nr	19		
J13	<u>Main Earthing System</u>				
	Supply and Installation of an earth electrode of minimum 16mm dia. copper bonded steel 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 concrete plate to protect the earth electrode.	Item			

ITEM	DESCRIPTION	UNIT	QTY	RATE (Rs)	AMOUNT
					(Rs)
J14	<u>Inspection and Testing - Electrical installation</u> Testing the installation and rectify any defects and submit a certificate by a Chartered Electrical Engineer.(including 1 sets of as built drawing of the electrical distribution system)				
			Item		
J15	<u>Telephone Network</u> Note :- Cost for PABX is not included in this estimate.				
	<u>Telephone Junction Boxes (TJBs)</u>				
J15.1	Supply and Installation of telephone junction box with 10 pair crone sets.	nr	1		
	<u>Telephone Socket Outlets</u>				
J15.2	Supply and installation of RJ(11) single, shuttered, sunken wall mounted telephone socket outlet with modular insert and face plate comprising all other accessories required complying with relevant BS/IEC standards.	nr	8		
	<u>Wiring of Telephone Socket Outlets</u>				
J15.3	Wiring up to the telephone socket outlets from the respective floor junction box using approved type 2 pair UTP (Unshielded Twisted Pair) telephone cable drawn through securely fixed concealed PVC conduits comprising all other accessories required.	nr	8		
	<u>Testing & Commissioning-Telephone Network</u>				
J15.4	Testing the installation and rectify any defects and submit a certificate with as built drawing of Telephone Network.		Item		
	<u>Air Conditioning</u>				
J16.1	Supply and Installation of Split Type 9000 BTU Inverter Air Conditioners with all necessary accessories.Refrigerant should be R-32 or R-410A.	nr	2		
	<u>Single Phase AC Unit Wiring</u>				
J16.2	Wiring for AC units shall be terminated with a 13A socket outlet installed near the AC unit at the level of AC unit. A 20A DP switch with neon indicator 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 2.5mm ² ,2C Cu/PVC/PVC cable and 2.5mm ² Cu PVC earth wire, drawn through concealed PVC conduits, from the respective Consumer Units.	nr	2		
Sub Total carried to Summary					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
				(Rs)	(Rs)
K	<u>MISCELLANEOUS WORKS</u>				
K1	Construction of manhole 600mm x 600mm x 600mm internally complete with cement concrete 1:2:4 (20mm) in 75mm thick base, 225mm tk.brick walls on top of base slab and channeling & benching, 1:3 cement and sand rendered in internal surfaces, 75mm thick RC. cover slab r/f with 10mm tor steel @ 150mm c/c. both ways, complete with lifting handles.	nr	5		
K2	Supplying & fixing of Guage 100 Microns sand blasting sticker or tinted stickers including surface preparation as per working order.	m ²	100		
K3	Waterproofing in bathrooms, water tanks etc. with a waterproofing agent approved by the Engineer, (Barralastic or equivalent) apply two coats after a well cleared surface. (shall have minimum 10 year warranty period)	m ²	225		
K4	Supplying & Fixing heavy duty aluminium mesh. Rate Include for 25mm x 25 mm powder coated aluminum box bar frame,M bars, rubber beadings & other accessories in working order.	m ²	15		
K5	Supplying & fixing 30mm thick of PU Zinc Aluminium roofing sandwich panel approved by engineer laid on existing purlings with joints to be properly connected with an adequate side lap to ensure water tightness along the entire length and complete to working order as per manufacture's specifications.(Thk. 0.47mm , AZ 150)	m ²	100		
K6	Allow for the supply, fabrication, and installation of a sandwich panel canopy roof framework, including all necessary supporting steel structure, fixings, flashings, thread bars, roof plumbing works and other accessories, complete in all respects to the approval of the Engineer. Final design, thickness of bars, and finishes to be confirmed prior to execution.	P.S			1,500,000.00
K7	Allow for landscaping, supplying, fabricating & fixing lab sink with all accesories, supplying & fixing curtains heavy (approved by hospital authority), cleaning, repairing/relocating drainage system, repairing damaged terrazo floor, laying safety nets, barricade tapes & other unforeseen works.	P.S			1,500,000.00
	Sub Total carried to Summary				