

Tender No:

UHKDU/PRO/SOGE/SVS/0524 /2020



University Hospital Kotelawala Defence University  
Werahara ,Boralessgamuwa  
Sri Lanka  
T:Phone: 0112044555  
Fax: 0112044592  
Web:

25/08 / 2023.

**INVITATION TO BID AND GENERAL CONDITIONS OF TENDER**

1. The Vice Chancellor of the General Sir John Kotelawala Defence University, as the Chairman, Department Procurement Committee invites Bid/s from prospective Bidders for sewage treatment plants Course & rescue training programme

2. **CLOSING DATE & TIME.** The tender will close at 1400 hrs on 13/09/2023 Any Bid submitted after the closing time of the tender will be rejected & unopened such bids will be returned to the bidder.

3. **VALIDITY OF BID.** The bid submitted under this tender **must be valid for a period of 120 days from the date of closing of tender.**

4. **BID BOND / GUARANTEE.**  
(a) If the quoted bid value exceeds Rs: 2,000,000.00, such Bids should be accompanied with 1% of Bid Value an “on demand” and “unconditional” Bid Bond/Guarantee for a sum of **Rs: .....** in the format given in Annex “C” through a recognized local Bank or Insurance Company registered in Sri Lanka which is authorized by the Insurance Board of Sri Lanka to issue such Bid Guarantees. All Bid Bond/Guarantees should be valid for at least 30 days more than the validity period of bids, ie, for 150 days from the date of Bid opening. **Cheques will not be accepted as Bid Guarantee.**

(b) Submission of insufficient Bid Bond/Guarantee value or period will be considered as a “**major deviation**” and such offer will not be considered for further procurement action and will be rejected.

5. **VALUE ADDED TAX.** The Bidders who bid for locally delivered items must have the VAT registration. The VAT portion must be shown separately in the price schedule in Annex “A” and VAT registration number must be indicated. If the quoted item is exempted from VAT or Bidding Company is not liable for VAT, reference number and date of relevant Act number/Gazette notification/a certificate (as applicable) **issued for the current financial year** from the Commissioner General of Inland Revenue to that effect should be submitted along with the Bid.

6. **BID SUBMISSION.** The **bidder must duly sign at the last page (before Annexes) of this document** indicating the name of the signatory and the name of the company & place the company common seal to confirm the acceptance of tender conditions. **The Bid/s that do not include authorized signature will be rejected.** The Bid/s duly signed by the bidder enclosed and sealed in an appropriate cover addressed to the following address should be sent by registered post or could be deposited in the **appropriate tender box placed at University Hospital Kotelawala Defence University, Werahara** (at the Main Entrance of University Hospital Kotelawala Defence University) on or before the time & date specified for the closing of tender. **The tender reference number, date & time of closing tender should be indicated & underlined at the top left corner of the envelop.**

**Tender Ref No** : .....

**Closing Date & Time** :1400 hrs on 13/09/2023.....

The Chairman,  
Department Procurement Committee,  
University Hospital Kotelawala Defence University,  
Werahara,  
Sri Lanka.

7. The Bid/s must be submitted in the attached schedule of prices in Annex “A” as applicable. However, bidders could use similar formats prepared with their own letter heads with all the details mentioned therein and submit in **three copies along with duly signed copy of a General Conditions of tender.** The Bid/s must contain **Technical Literature, Pamphlets, Drawings and Quality Standard Certificate etc** necessary to determine characteristics of items offered and in case of Machinery/Vehicles & Equipment, servicing and workshop data/after sales service, back up facilities or any other facilities provided by the supplier.

8. **SUBMISSION OF SAMPLES/PAYMENT OF TESTING CHARGES.**  
When it is required to submit samples, **every offer** must be accompanied with pre - marked samples. The marking of samples **indicating the Bidder & Offer number** must be done and the samples must be handed over to the officer at same place where tender box is placed **on or before the closing date & time of the Bid.** Samples submitted after closing time of the Bid will be rejected. The documents such as Air Way Bills etc, will not be accepted in place of samples. When the testing charges are required to be paid, bidders shall pay testing charges separately **for all offers** indicated in their bid/s.

(1) **Samples.** Please submit ..... samples.

(2) **Testing Charges.** A sum of Rs. .... **per offer** must be paid to the Bursar of KDU, prior to the submission of bid and a copy of the receipt must be annexed to the bid. It is the responsibility of bidder to inform the Cashier of the Account Office to note the tender number on the receipt issued for such payments.

8. **BID OPENING.** All duly received bids **will be opened immediately after the scheduled closing time of Bids at the same venue.** Bidders or their accredited agents could be present at the time of opening of bids.

9. **PRICES.**  
For locally delivered items (including locally manufactured items & foreign items imported by the bidders) price must be quoted in Sri Lankan Rupees, inclusive of all charges for delivery of items to University Hospital General Sir John Kotelawala Defence University Werahara., **Unit price, VAT and Total price should be clearly indicated in schedule in Annex “A”.** Other than VAT, all other type of taxes (eg : NBT, BTT, etc.) should not be indicated separately and should be included in unit price.

10. **RESTRICTED TENDERS.** Invitation to Bids are circulated among the registered suppliers with Ministry of Defence (MOD), only bids submitted by registered suppliers will be allowed for consideration. However, Chairman, Department Procurement Committee reserves the right to invite the bids from multiple combinations of Procurement Methods as stipulated in Chapter III of the Government Procurement Guideline, 2006 to ensure highest competitiveness.

11. **PERFORMANCE BOND/GUARANTEE.** A successful bidder shall furnish a Performance Bond/Guarantee in the form of "On Demand" & "Unconditional" Bank/Insurance Guarantee for a sum equivalent to 10% of the contract value for every contract that exceeds Rs. 2,000,000.00 or equivalent amount in foreign currency through a recognized Commercial Bank registered in Sri Lanka or through an Insurance Company authorized by the Insurance Board of loss resulting from the supplier's failure to complete his performance obligations under the contract. If the contracted supplier fails to deliver the items Sri Lanka to issue such Performance Guarantee for this purpose, **within two weeks from the date of notification of award.** The proceeds of the Performance Bond/Guarantee shall be payable to the Vice Chancellor of the General Sir John Kotelawala Defence University as compensation for any o

12. time or fails to complete the works as per the agreed contract, **THE TOTAL VALUE OF THE PERFORMANCE BOND/GUARANTEE** will be forfeited. If only partial delivery is made during the agreed contract period, the corresponding value percentage of undelivered quantity from the Performance Bond/Guarantee will be forfeited.

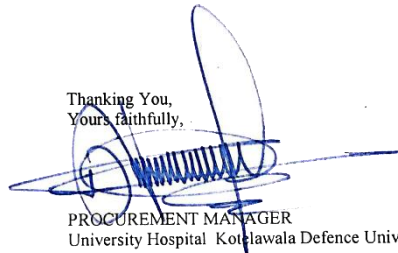
13. **SIGNING OF CONTRACT.** The notification of award will be transmitted to the successful bidder by post, by fax or e-mail. This notification constitutes the formation of the contract. The successful bidder should submit his written acceptance for the award and performance bond / guarantee (For awards over Rs. 500,000.00 without VAT) within 14 days of receipt of such notification. Upon acceptance of the award and furnishing of the Performance Bond/Guarantee, the successful bidder will have to enter into a formal contract with the Vice Chancellor of the General Sir John Kotelawala Defence University by signing the Contract.

14. **DELIVERY.** Preference will be given for early delivery. In case of bulk supplies for locally manufactured items, the delivery of **total quantity must be completed within 120 days of signing of contract,** unless mutually agreed for extended delivery period with University Hospital Kotelawala Defence University. **The bidder/s must indicate the proposed delivery schedule in Annex "E".** In the event of placing a purchase order with the successful bidder, the total quantity so ordered must be supplied as one consignment unless part deliveries are agreed upon in the contract. The deliveries not made as per agreed delivery schedule will be considered as bad performances by the suppliers and **no extended delivery period will be authorized.** Under extreme unavoidable conditions too, the Chairman, Department Procurement Committee (Vice Chancellor of the General Sir John Kotelawala Defence University) reserves the right to grant or refuse delivery period extensions only within the current financial year with or without liquidated claim for delayed deliveries and that decision will be final.

15. **LIQUIDATED DAMAGES.** In case of delivery period extensions requested by the successful bidder, a sum equivalent to 2% of the total value of the delayed supply per delay of one week or part thereof may be deducted from the payment due to the supplier from the University Hospital General Sir John Kotelawala Defence University as liquidated damages up to the maximum limit of 10% of the total value of delayed supplies.

16. **PAYMENT TERMS FOR LOCALLY DELIVERED ITEMS.** Payment will be made after acceptance of items which should be subjected to a pre-acceptance inspection/testing by University Hospital General Sir John Kotelawala Defence University authorities. The delivery made to University Hospital should not be considered as quantities taken over by University Hospital General Sir John Kotelawala Defence University until items are properly accepted after pre-acceptance inspection. Any item that does not conform to the specifications or already approved sample will be rejected & it is the responsibility of the supplier to remove them from University Hospital stores/premises within 07 working days of such intimation (either verbal or written) at his own cost and replace them with items conforming to specification within one month of such rejection. The bidder shall allow approximately 60-90 days period of credit from the date of acceptance of items for Account Office, University Hospital General Sir John Kotelawala Defence University to obtain liquid cash from General Treasury & release the payment.

17. **RIGHTS OF THE PROCUREMENT COMMITTEE.** The Department Procurement Committee reserve the right to accept or reject whole or part of this tender and their decision will be final. The successful bidders will be notified. Information with regard to rejected or unsuccessful bids will not be communicated.

Thanking You,  
Yours faithfully,  
  
PROCUREMENT MANAGER  
University Hospital Kotelawala Defence University

I/We agree to abide by the conditions of tender and undertake to supply the items as per delivery schedule mentioned in the contract, in the event of an order been placed with me/my firm/company as a result of this tender.

..... Signature  
..... Name of Signatory

.....Name of the Company/Bidder

Date :- .....

Company seal

**SCHEDULE OF PRICES FOR LOCALLY DELIVERED ITEMS**

S/N	ITEMS	UNIT	QTY	PRICE EACH SLRS	TOTAL PRICE SLRS
01	Design, Fabrication & Build of Soundproof Audiology Room Of ENT				
	<b>Specification is attached here with Annex "B"</b>				
	TOTAL				
	DISCOUNT				
	TOTAL(AFTER DISCOUNT)				
	VAT %				
	<b>GRAND TOTAL</b>				

2. a . Validity : 120 days from the date of closing of tender
- b . **Payment term : Credit**
- c .Warranty : .....
- d . Brand name : .....
- e .Country of origi : .....
3. VAT Registration No. : .....
4. Name of the Company : .....
5. Testing Charges Paid. : Rs.....  
Receipt No and Date : .....
6. Signature of Bidder : .....
7. Date. : .....
8. MOD registered No : ..... Company Seal : .....

  
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### 1. Project

Setting up a professional Audiometric suite for ENT Department of University Hospital of KDU, for conducting Diagnostic tests for patients with hearing impairments and related issues.

### 2. Scope

The scope of the project involves re-configuration of the room layout in the allocated space in the existing building, as per the new room layout proposed by the ENT Consultant of UHKDU, soundproofing and final finishes to comply with professional standards.

Proposed Audiometric suite comprises of three sound proof functional modules.

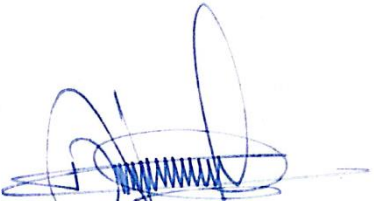
- 1) Audiometric Booth (Patient's Room)
- 2) Control Room (Audiologist's room)
- 3) Audiology Room (ABR room)

#### 2.1 Scope of the document

This specification addresses the needs of stipulation of standards for the setting up of the aforementioned Audiometric suite comprising of the three functional modules.

### 3. Technical Specifications

Item Number	Requirement	Priority category	Conformity		Proof	Bidder's offer	Remarks
			Yes	No			
1	Audiometric Booth						
	1. Noise level < 34 dB						
	i. Ambient noise level inside the booth shall						



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	<p>be less than 34 dB with Air-conditioning system switched "on."</p> <p>ii. All structure borne vibrations shall be eliminated through means of isolation</p> <p>iii. Double wall construction shall be used where necessary &amp; applicable.</p> <p>iv. Refer to table 1. below for details of NR characteristics.</p>				
	<p>2. Sound Absorption level – Material Average NRC &gt; 0.9</p> <p>i. Internal sound absorption shall be at or better than the levels given in the table 2. at respective frequencies indicated.</p> <p>ii. Any acoustically hard surfaces shall be lined with absorbent layers in order to minimize sound reflection.</p> <p>iii. Reverberation time &lt; 0.25 seconds.</p>				
	<p>3. Wall construction</p> <p>i. Construction of masonry walls, during the re-configuration of current room layout, shall be carried out using the same types of material as in the existing construction. (Concrete, Cement blocks, Bricks etc.) but no substitutes.</p> <p>ii. Inner walls shall be treated with acoustically absorbent material of which NRC&gt;0.9 ( 2-inch thickness rock wool, glass wool etc. on wooden frames etc.) to improve absorption and a top final finish</p>				

  
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iii.	layer. Asymmetric wall constructions shall be applied , where necessary, to minimize Reverberation time.				
4.	Roof (Ceiling) construction				
i.	A secondary ceiling, Isolated from the building structure, shall be rested on inner walls of the booth in order to make it a sealed & sound proof inner booth.				
ii.	Air conditioning ducts should be terminated at this ceiling, with circular diffusers through flexible couplings.				
iii.	Inner surface of the ceiling should be acoustically treated with absorbent layers and appropriate final finishes.				
iv.	Asymmetric ceiling constructions shall be applied , where necessary, to minimize Reverberation time.				
5.	Floor construction				
i.	A floating floor, acoustically isolated from the structural floor, shall be installed.				
ii.	Thickness > 25mm solid floor (Excluding re-enforcement frame, if any).				
iii.	Shall be strong enough to bear the weight of inner walls of the booth, in case of double wall construction.				
iv.	Load bearing capacity > 50Kg / sq foot.				
v.	Shall be treated acoustically to absorb sound and minimize foot step noise (Carpeting, under layers etc).				



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	<p>6. Door</p> <p>Shall be Sound proof, single leaf and flush mounted to the wall with frame.</p> <ul style="list-style-type: none"><li>i. Material - Steel ( GI coated and spray painted or powder coated).</li><li>ii. STC Rating &gt;50</li><li>iii. Dimensions of D2 - 7' (H) x 3' (W) x 2.5" (D).</li><li>iv. Acoustically treated to be sound proof and absorptive.</li><li>v. Shall be anchored with heavy duty, offset pivoted, cam-lift hinges (self closing).</li><li>vi. Fitted with Dual line Neoprene / EPDM Rubber compression beading on the perimeter for sound proofing (all four sides).</li><li>vii. Bottom sill - Stainless Steel plate compressed.</li><li>viii. Tower Bolt type latches (Stainless Steel).</li><li>ix. Stainless Steel Push Plates &amp; Pull handles.</li><li>x. Dual layer glass Vision Panel.</li><li>xi. Modular fabrication of Door &amp; Frame.</li></ul>			
	<p>7. Window - (To control room)</p> <ul style="list-style-type: none"><li>i. Condensation free Double Glazed unit (DGU) glass window with 6mm glasses Hermetically sealed.</li><li>ii. Encapsulated in Aluminum / GI Frame</li><li>iii. Dimensions 4' (W) x 3' (H)</li><li>iv. STC &gt; 45</li><li>v. Desiccator material included in the gap.</li></ul>			

	vi. Flexible coupling for the air gap (Min. 4").				
	<p>8. Temperature</p> <p>i. Adjustable - between 20 – 27 degrees Centigrade.</p> <p>ii. See note 1 below.</p> <p>iii. See note 2 below.</p> <p>iv. Controller mechanisms / Electronics shall be installed for the same.</p>				
	<p>9. Illumination</p> <p>i. Minimum Light level - 800 Lux, Inside at 30" height level from the floor of the booth.</p> <p>ii. Colour Temperature &gt;6000 K (Cool white)</p> <p>iii. RFI free LED lighting.</p> <p>iv. 02 lighting fixtures (ceiling mounted), Flicker-free, even distribution with diffused light.</p> <p>v. Pre wired individual switches with RFI-free Dimmers.</p>				
	<p>10. Speaker mounts</p> <p>i. Vertical pole type speaker mounts (02 Nos.) – Acoustically isolated from the floor, walls or ceiling.</p> <p>ii. 02 Nos. Swivel mounts with Three DOF (compatible with the weight of speaker)</p> <p>iii. Height adjustable along the vertical pole</p> <p>iv. Pre-wired speaker points</p> <p>11. Interface connector / jack / patch panel</p>				

  
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	<p>i. A Flush mount metallic patch panel shall be installed below the window to the control room. It shall contain, 3-pin Standard ¼" Phone sockets - 04 nos. USB sockets - 02 nos. 9-pin D socket - 01 No. BNC sockets - 02 nos. 2-pin Speaker sockets - 02 nos.</p> <p>ii.</p> <p>iii. These connectors shall be connected to a similar patch panel (via one-to-one trunk lines), to be installed on the other side of the same wall, in the control room (Audiologist's room)- Refer "item 11" under "control Room specifications".</p> <p>iv. Metallic plate shall be connected to system ground.</p>				
	<p>12. Electrical outlets</p> <p>i. 13 Amp Square pin (with ground) outlets – 04 Nos. -- below the Interface jack panel.</p>				
	<p>13. Accessories - Hanger bar</p> <p>i. A horizontal hanger bar for patch cables, headphones etc. on the wall, mounted close to the patch panel.</p>				
2	<p><b>Control Room</b></p>				
	<p>1. Noise level &lt; 40dB</p> <p>i. Ambient noise level inside the control</p>				

		<ul style="list-style-type: none"> <li>ii. room shall be less than 40 dB with Air conditioning system switched "on". All structure borne vibrations shall be eliminated through means of isolation or absorption.</li> </ul>					
		<ul style="list-style-type: none"> <li>2. Sound Absorption level – Material Average NRC &gt; 0.9           <ul style="list-style-type: none"> <li>i. Internal sound absorption shall be at an average level of 0.6 or more.</li> <li>ii. Any acoustically hard surfaces shall be lined with absorbing layer in order to minimize sound reflection.</li> </ul> </li> </ul>					
		<ul style="list-style-type: none"> <li>3. Wall construction           <ul style="list-style-type: none"> <li>i. Construction of masonry walls, during the re-configuration of the room layout, shall be carried out using same types of material as in the existing construction (Concrete, Cement blocks, Bricks etc.) but no substitutes.</li> <li>iv. Inner walls shall be treated with acoustically absorbent material and a top final finish layer.</li> </ul> </li> </ul>					
		<ul style="list-style-type: none"> <li>4. Roof (Ceiling)           <ul style="list-style-type: none"> <li>i. An acoustically treated ceiling shall be installed to achieve stipulated noise and absorption conditions, reverberation times.</li> <li>ii. Air conditioning ducts should be terminated at this ceiling, with circular diffusers through flexible coupling.</li> <li>iii. A secondary ceiling shall be installed, in case if the stipulated conditions cannot</li> </ul> </li> </ul>					



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	<p>be achieved with a single ceiling. If a second ceiling is installed, Air conditioning ducts should be terminated at the second ceiling, with circular diffusers through flexible couplings. Inner surface of the ceiling should be acoustically treated with absorbent layers and appropriate final finishes.</p>				
	<p>iv. Existing floor shall be treated acoustically to absorb Structure borne low frequency vibrations, sound and minimize foot step noise (carpeting, under layers etc.).</p>				
	<p>5. Floor</p> <p>i. Existing floor shall be treated acoustically to absorb Structure borne low frequency vibrations, sound and minimize foot step noise (carpeting, under layers etc.).</p> <p>6. Doors</p> <p>i. Shall be sound proof, single leaf and flush mounted to the wall with frame. Material - Steel (GI coated, Spray painted or Powder coated).</p> <p>ii. STC Rating &gt;50</p> <p>iii. Dimensions of D2 - 7' (H) x 3' (W) x 2.5" (D).</p> <p>iv. Acoustically treated to be sound proof and absorptive.</p> <p>v. Shall be anchored with heavy duty, offset pivoted, cam-lift hinges (self closing).</p> <p>vi. Fitted with Dual line Neoprene / EPDM Rubber compression beading on the perimeter for sound proofing (all four sides). Bottom sill - Stainless Steel plate compressed.</p>				

	<ul style="list-style-type: none"> <li>viii. Key lock type latches (Stainless Steel).</li> <li>ix. Stainless Steel Push Plates &amp; Pull handles.</li> <li>x. Dual layer glass Vision Panel.</li> <li>xi. Modular fabrication of Door &amp; Frame.</li> </ul>				
	<p>7. Window – (to Audiometric booth)</p> <p>This refers to a part of the item given above under Audiometric booth (item 6).</p> <ul style="list-style-type: none"> <li>i. Double glazed window to the Audiometric booth.</li> <li>ii. Condensation free Double Glazed unit (DGU) glass window with 6mm glasses Hermetically sealed.</li> <li>iii. Encapsulated in Aluminum / GI Frame.</li> <li>iv. Dimensions 4' (W) x 3' (H)</li> <li>v. STC &gt; 45</li> <li>vi. Desiccator material included in the gap</li> <li>vii. Flexible coupling for the air gap (Min. 4").</li> </ul>				
	<p>8. Temperature</p> <ul style="list-style-type: none"> <li>i. Adjustable between 20 – 27 degrees Centigrade.</li> <li>ii. See note 1 below.</li> <li>iii. See note 2 below.</li> <li>iv. Controller mechanisms / Electronics shall be installed for the same.</li> </ul>				
	<p>9. Illumination</p> <ul style="list-style-type: none"> <li>i. Minimum Light level - 800 Lux - Inside at 30" height level of the booth.</li> <li>ii. Colour Temperature &gt; 6000 K (Cool white)</li> <li>iii. 04 lighting fixtures (ceiling mounted), Flicker-free, even distribution with diffused light.</li> </ul>				



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	iv. Pre wired, 02 switches (two fixtures per circuit) with RFI-free dimmers.	
	10. Speaker mounts i. 02 Nos. Swivel mounts with Three DOF (compatible with the weight of speaker) – Acoustically isolated from floor , wall and ceiling. ii. Pre-wired speaker points	
	11. Interface connector/jack/patch panel i. A Flush mount metallic patch panel shall be installed below the window to the Audiometric booth. ii. It shall contain, 3-pin Standard ¼" Phone sockets - 04 nos. USB sockets - 02 nos. 9-pin D socket - 01 No. BNC sockets - 02 nos. 2-pin Speaker sockets - 02 nos. iii. These connectors shall be connected to a similar patch panel (via one-to-one trunk lines), to be installed on the other side of the same wall, in the Audiometric booth (Patient's room)- Refer "item 11" under "Audiometric booth specifications". iv. Metallic plate shall be connected to system ground.	
	12. Electrical outlets i. 13 Amp Square pin (with ground) outlets – 04Nos. – below the Interface jack panel, on the same wall.	

	<ul style="list-style-type: none"> <li>ii. 13 Amp Square pin (with ground) outlets – 04 Nos. – at 14-inch level from the floor, on the opposite wall.</li> <li>13. Accessories – Hanger Bar <ul style="list-style-type: none"> <li>i. A horizontal hanger bar for patch cables, headphones etc. on the wall, mounted on to the left hand side of the patch panel – with provision of adequate space for the control desk.</li> </ul> </li> </ul>					
3	<p><b>Audiology Room (ABR room)</b></p> <ul style="list-style-type: none"> <li>1. Noise level &lt; 40 dB <ul style="list-style-type: none"> <li>i. Ambient noise level inside the control room shall be less than 40 dB with Air conditioning system switched “on”.</li> </ul> </li> <li>2. Sound Absorption level - Material average &gt; 0.9 NRC. <ul style="list-style-type: none"> <li>i. Internal sound absorption shall be at an average level of 0.6 or more.</li> </ul> </li> <li>3. Wall Construction <ul style="list-style-type: none"> <li>i. Inner walls shall be treated with acoustically absorbent foam backed fabric layer.</li> <li>ii. Maximum thickness shall not exceed 1”</li> </ul> </li> <li>4. Ceiling <ul style="list-style-type: none"> <li>i. Primary ceiling shall be acoustically treated to maintain the required absorption level.</li> </ul> </li> <li>5. Floor <ul style="list-style-type: none"> <li>i. Existing floor shall be treated acoustically to absorb Low-Frequency vibrations,</li> </ul> </li> </ul>					

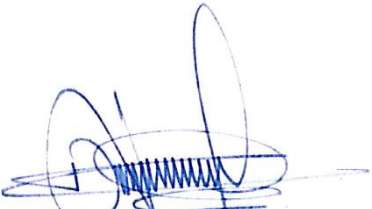
  
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	sound and minimize foot step noise.									
6.	Door	Shall be sound proof , single leaf and flush mounted to the wall. i. Material - Steel ii. STC Rating >50 iii. Dimensions of D2 - 7' (H) x 3' (W) x 2.5" (D). iv. Acoustically treated to be sound proof and absorptive. v. Shall be anchored with heavy duty, offset pivoted, cam-lift hinges (self closing). vi. Fitted with Dual line Neoprene / EPDM Rubber beading on the perimeter for sound proofing (all four sides). vii. Bottom sill - Stainless Steel plate compressed. viii. Key lock type latches (Stainless Steel). ix. Stainless Steel Push Plates & Pull handles. x. Dual layer glass Vision Panel. xi. Modular fabrication of Door & Frame.								
7.	Temperature	i. Adjustable between 20 – 27 degrees Centigrade. ii. See note 1 below. iii. See note 2 below. iv. Controller mechanisms / Electronics shall								



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	be installed for the same.					
	8. Illumination i. Minimum light level - 800 Lux - Inside at 30" height level from the floor of the booth. ii. Colour Temperature > 6000 K (Cool white). iii. 04 lighting fixtures (ceiling mounted), Flicker-free, even distribution with diffused light. iv. Pre wired, 02 switches (two fixtures per circuit) with RFI-free dimmers.					
	9. Electrical Outlets i. 13 Amp Square pin (with ground) outlets – 04 Nos. – on the wall.					
4.	Buffer Area 1. Noise level < 45 dB i. Ambient noise level inside the Buffer area shall be less than 45 dB. ( Not critical but acts as a noise buffer for two rooms) 2. Sound absorption level i. Absorption can be at a moderate ( >0.4 material average) level to suppress incoming noise through sound leakages through doors, if any. (Not critical) 3. wall construction i. Acoustical fabric overlaid thin layer of absorbent ( max ¾") on four sides of the wall. 4. Ceiling					





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	<p>i. Suspended acoustic panel ceiling ( Mineral fiber etc.) with moderate absorption.</p>	
<p>5. Floor</p>	<p>i. Floor carpeting (Loop pile carpet) with form or quire under layer.</p>	
<p>6. Door</p>	<p>Shall be sound proof , single leaf and flush mounted to the wall.</p> <ul style="list-style-type: none"> <li>i. Material - Steel</li> <li>ii. STC Rating &gt;40</li> <li>iii. Dimensions of D1 - 7' (H) x 3' (W) x 2.5" (D)</li> <li>iv. Acoustically treated to be sound proof and absorptive.</li> <li>v. Shall be anchored with heavy duty, offset pivoted, tam-lift hinges (self closing).</li> <li>vi. Fitted with Dual line Neoprene / EPDM Rubber beading on the perimeter for sound proofing (all four sides).</li> <li>vii. Bottom sill - Stainless Steel plate compressed.</li> <li>viii. Key-lock type latches (Stainless Steel).</li> <li>ix. Stainless Steel Pull handles.</li> <li>x. Modular fabrication of Door &amp; Frame.</li> </ul>	
<p>7. Illumination</p>	<ul style="list-style-type: none"> <li>i. 600 LUX , Even illumination.</li> <li>ii. Colour Temperature &gt; 6000 K (Cool white)</li> </ul>	

	iii. 01 No. fixture (ceiling mounted) with pre wired switch on the wall.					
	9. Electrical Outlets					
	i. 13 Amp – 3-pin power outlet - 01 No.					
	10. Accessories					
	i. RED Warning lamps - 02 Nos. Installed over 1) Control room door 2) Audiology room door With individual switches pre-wired to control desks of respective rooms					

Freq (Hz)	125	250	500	1000	2000	4000	8000
NR in dB (Single wall)	24	30	40	50	55	55	55
NR in dB (Double wall)	47	62	83	91	99	97	91

Table 1. Noise Reduction Levels at Octave Band Center Frequencies.

Freq (Hz)	125	250	500	1000	2000	4000	8000
Attenuation	0.49	0.37	0.83	0.96	0.99	1.0	-

TABLE 2. Absorption coefficients at Octave Band Center frequencies.



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**Notes :**

- 1) Dimensions of the construction / fabrication shall be as per the diagrams attached in section 4. (Audiometric Suite layouts) of this document, unless otherwise specified in section 3. ( Technical Specification).
- 2) CFM requirement of the AC supply to be stipulated by the bidder and a request has to be made to the building contractor. (Air conditioning supply and return duct lines will be routed from the Air handler Unit (AHU) of the Central AC system of the building. Internal Building contractor will provide ducts up to the facility).
- 3) Necessary noise filters, Valves, attenuators shall be installed by the bidder to **Supply** and **Return** air ducts for maintaining specified noise levels in all three rooms, and isolation of three rooms acoustically from each other.
- 4) **All acoustical paneling on walls and ceilings shall be with neat, rugged, durable final finish and aesthetically pleasing appearance.**
- 5) All Electrical accessories, Lt minaires, controllers, dimmers etc. shall be compatible with AC power supply voltage - AC 230 Volts, 50 Hz.
- 6) Electrical system shall have provision for a Single phase central UPS input with a Change-over switch ( a UPS unit placed out of the Audiology unit premises)
- 7) Bidder shall ensure the fire rating of all the material used for the construction and fabrication are high and the final product is fire proof and fire safe to the highest extent. Bidder shall liaise with the fire prevention department of UHKDU for any further requirements.



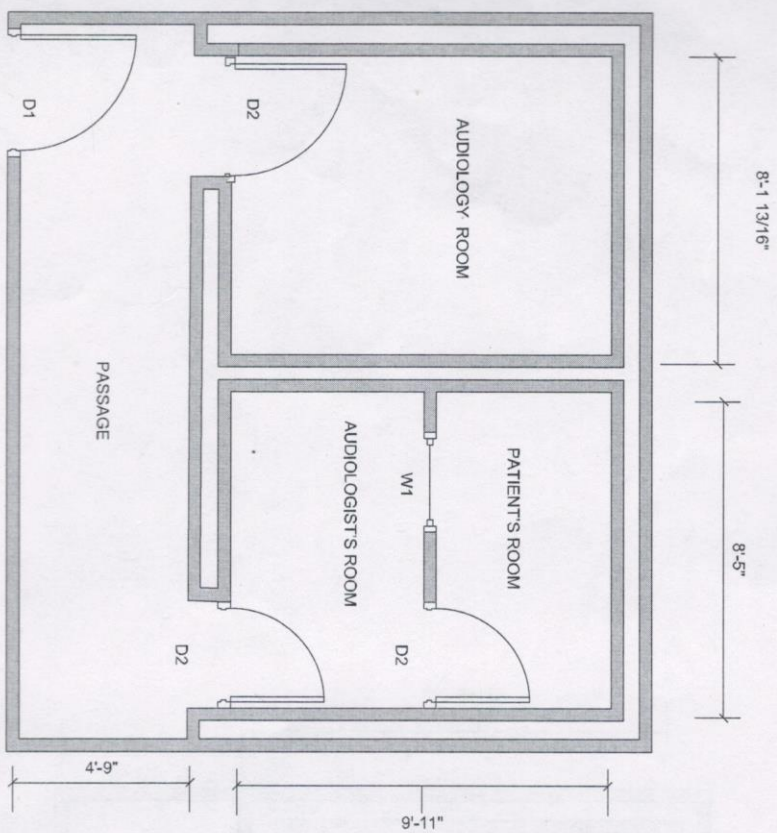
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## 4. Audiometric Suite Layouts

### 1. Existing Layout

Dimensions – As per given in the diagram

Floor to Ceiling height : 2650 mm (8' 6")



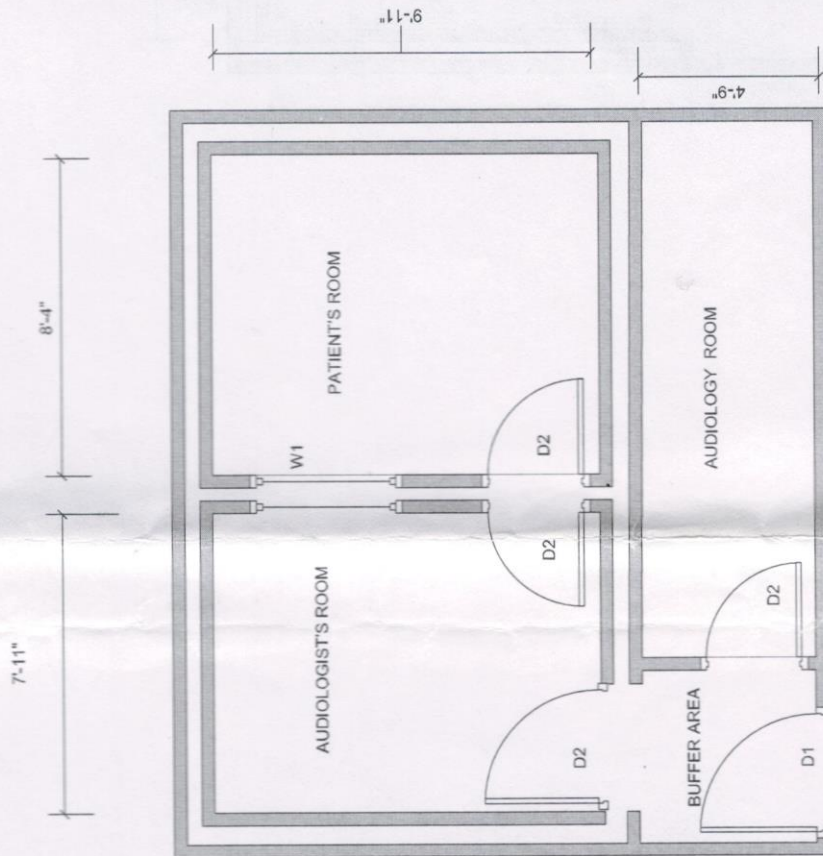
  
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## 2. Proposed New Layout

Dimensions – As per given in the diagram

Floor to Ceiling height : 2650 mm (8' 6")



  
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## 5. Warranty, Service Agreements and Documentation

- 1) All items described in the schedule should be covered by a warranty for a period of not less than 24 calendar months from the date of successful commissioning against manufacturing defects, workmanship and all other issues.
- 2) Technology / service manuals / operations manuals, any other technical detail should be handed over to the client at the time of commissioning.
- 3) Supply of spare parts, replaceable items/ consumables should be guaranteed for a period of 10 years starting from the date of successful commissioning. A price list for such items over a period of 10 years from the date of installation should be made available.

## 6. General conditions for bidders

- 1) The bidder shall implement maximum level of **Fire safety conditions** in order to prevent any possible fire hazard in using electricity, power tools, welding gear etc. during the construction.
- 2) All the material (wood, any absorbent material based on biomass etc.) are to be chemically treated before the delivery to the site to prevent development of breeding grounds for harmful insects (termites etc.), and any possible termite attacks at the site in the long run.
- 3) Bidder shall take necessary precautions to minimize disturbances to the ongoing operations of UHKDU during the construction & fabrication work. Bidder , or any representative , can liaise with professional staff at the Audiology department of UHKDU on the same and implement a " No disturbances to ongoing operations during construction" policy during work.
- 4) All electrical components and conduits shall be recessed into the wall panels, and shall be wired in GI conduits with threaded joints not exposing to the exterior in order to prevent any possible electrical fires.
- 5) Screened metal galvanized (GI) power outlets (Industrial type) should be used as recessed power outlets in areas where acoustical panels, fabric lining has been installed as a part of acoustic treatment.

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- 6) Grounding terminal of the Electrical system shall be provided by the bidder for a dedicated grounding system for the Audiometry suite. (Connection of this terminal to the earth ground is the responsibility of the client - UHKDU).
  - 7) The bidder should provide a certificate of sound level of separate rooms as mentioned in the specification, issued by a recognized third party accreditation body following the completion of fabrication, at the expense of the bidder, as recommended by ENT Consultant. UHKDU will not bear any cost related to this procedure.
  - 8) Provisions such as access to the site, utility (electricity, water etc.) and permission for work out of office hours (night work etc. if required) are responsibility of the client, UHKDU.

## 7. Bidding conditions

1. Bidder should be able to show prior experience in building sound proof suits in health institutions and should be able to confirm the sound level requested by the specification, after completion, by a 3rd party accredited institution (ITI or NERD Center) at the expense of the bidder, before giving QCJ report.
2. Bidding document should include the methodology and a list of material intended to use in achieving the stipulated standards. (Preferably with diagrams and technical details).
3. Bidder should provide details of the products (catalogs, brochures etc.) of the material as proof.
4. The site may be inspected with prior approval of the CEO, University Hospital of KDU during week days.

Prepared & Forwarded by



Engineering Consultant

Eng. W.A. Shanthakumara  
BSc, MBA, PG Dip (UOM),  
MIET (UK), MIEEE (USA), MIEESL (SL)

6<sup>th</sup> September 2022



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**DELIVERY SCHEDULE**

(IT IS MANDATORY TO FILL THE FOLLOWING SCHEDULE BY THE BIDDER) TENDER NO

:

ITEM : ..... QTY :

.....

DURATION	QTY
EX STOCK QTY (WITHIN 01 WEEK)	
01MONTH	
02 MONTHS	
03 MONTHS	
04 MONTHS	
<b>TOTAL</b>	

NAME OF THE BIDDER : .....

SIGNATURE OF BIDDER : .....

DATE : .....

COMPANY SEAL : .....

  
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**SPECIMEN FORM OF BID SECURITY**

By this Bond we ..... (hereinafter called "the Bidder") and We (name of bank or insurance company) whose registered office is at ..... (hereinafter called "the Surety") are held and firmly bound onto ..... (hereinafter called the Authority") in the sum of ..... for the payment of which sum the Bidder and the Surety bind themselves their successors and assigns jointly and severally by those presents.

Whereas the authority has invited the Tender and other persons to compete tenders in similar terms for the supply of ..... and to submit the same for the consideration of the Authority, and the Bidder proposes to submit to the Authority a Bid (hereafter called "the Bid") in accordance with such invitation, the Bond shall provide security to the Authority that the Bidder will honour certain obligations to be undertaken by him in the Tender in accordance with the following conditions.

**Now the Conditions of this Bond are:**

- (a) That it shall remain in full force and effect until the earliest of
  - (i) (Date), being ( ) days from (submission date), the date stipulated by the Authority for the submission of tenders, or any prolongation of such date above notified to the Authority by the Bidder and the Surety in writing.
  - (ii) In the event of acceptance of the Tender by the Authority, the date upon which the Bidder provides a performance security to the Authority in accordance with the terms of the contract thereby made between them, or
- (b) Subject to this Bond being in full force and effect, the Surety shall pay the full amount specified in this Bond upon receipt of first written demand form the Authority stating that.
  - (i) The Bidder has withdrawn his Tender during the validity of this Bond, or
  - (ii) The Bidder has failed to provide a performance security to the Authority in accordance with the terms of the tender within 14 days from receipt of intimation of award of the Tender.

No alteration in the terms of the Tender, nor any forbearance of forgiveness in or in respect of neither any matter or thing concerning the Tender on the part of the Authority, nor any objection from the bidder shall in any way release the Surety from any liability under this Bond.

The benefit of this Bond shall not be assignable by the Authority and upon its ceasing to be in full force and effect the Authority shall return the same to the Bidder.

This Bond shall be governed by the laws of Sri Lanka

I executed as a deed on this ( ) day of ( ) 20 ( )

For and on behalf of the Bidder

-----  
-----

Signed by -----

In the capacity of -----

and by -----

In the capacity of -----

Seal (where applicable)

For and on behalf of the Surety

-----  
-----

Signed by -----

In the capacity of -----

and by -----

In the capacity of -----

Seal (where applicable)



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