



# Dow University of Health Sciences

## Directorate of Procurement

No. DUHS/DP/RFQ/SIDH&RC(Covid-19)/2020/07-02

Dated: 16<sup>th</sup> July, 2020

### REQUEST FOR QUOTATION

In order to fully operationalize **200 bedded “Sindh Infectious Diseases Hospital and Research Centre (SIDH&RC)” NIPA, Karachi** as desired by the Chief Minister Sindh to cater the COVID-19 patients. Dow University of Health Sciences (DUHS), Karachi invites the quotations in accordance with the SPPRA Rules 2010 (Amended 2019) Clause 16 (b) (viii) for following goods and services from well-reputed manufacturers or their authorized agents / distributors / local suppliers available on ‘List of Active Tax Payers’ of FBR (for Income Tax) & SRB (For Sales Tax) websites.

The Quotation must be delivered by hand / mail upto **20-07-2020 upto 01:00 pm.** at the office of the Director Procurement, Digital Library Building, Dow University of Health Sciences (Ojha Campus) Karachi.

Sr. No.	Description of the Goods / Services	Quantity / Job / Services
1	<p><b>C.T. Scanner 32 Slices or better</b> Origin: Europe / Japan / USA / China With acquisition and diagnostic and Artificial Intelligence workstations 03 units. FDA approved and CE marked (<b>C&amp;F by Air basis</b>) with 5 years comprehensive warranty including all parts, detectors and CT Tube.</p> <p><b>Tube:</b></p> <ul style="list-style-type: none"><li>• Heat Storage capacity of at least 5 MHU or more</li><li>• Anode heat dissipation of at least 800 kHU/min or better</li></ul> <p><b>Generator &amp; Detector</b></p> <ul style="list-style-type: none"><li>• Slice thickness of 0.6 mm or less</li><li>• 32 detector rows or more</li></ul> <p><b>Artificial Intelligence (AI) based hardware &amp; software specially for Covid-19</b></p> <ul style="list-style-type: none"><li>• Dedicattee AI post processing workstation with high specification to process and compute large volume of data.</li><li>• Specialized software for auto detection of Pneumonia due to Covid-19</li><li>• Software must be able to give quantitative analysis in terms of volume and percentage of lungs affected.</li><li>• Software must be able to give quantitative analysis in terms of volume and percentage of lung lobes affected.</li><li>• Software must be able to give quantitative analysis in terms of volume and percentage of lobe segments affected.</li><li>• Graphical representation of affected lung volume and HU value.</li><li>• Auto generation of notes based on quantitative analysis for doctors to quickly add to their report.</li><li>• Software must have capability of comparing patient’s past scans with present scans side-by-side with automatic slice matching.</li><li>• System must have auto positioning / scouting and scanning capability remotely from operator room by use of AI Camera or similar.</li></ul>	1 No.
2	<p><b>Oxygen Generation Plant 120Nm<sup>3</sup>/h</b> Origin: Europe / Japan / USA Capacity: 50,0 x 2 = 100Nm<sup>3</sup>/h at +20°C Purity: 95% ±1% vol. O<sub>2</sub> Outlet pressure: 5,0 bar(g)</p>	1 No.



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Sr. No.	Description of the Goods / Services	Quantity / Job / Services
	Air consumption at 7,5 bar(g): 10,97 m <sup>3</sup> /min F.A.D. Inlet/outlet connections: G 1 1/2" / 1" 3.000L/11 bar(g) Oxygen line tank <b>Model: OG-60 Duplex System</b> <b>Capacity:</b> 11,0 x 2 = 22 Nm <sup>3</sup> /h at +20°C Purity: 95% ±1% vol. O <sub>2</sub> Outlet pressure: 5,0 bar(g) Air consumption at 7,5 bar(g): 2,41 m <sup>3</sup> /min F.A.D. Inlet/outlet connections: 1" / 1/2" 800L/11 bar(g) Oxygen process tank <b>Model: TT-520 Duplex System, Gasgen On-Site Gas Technology or equivalent</b>	
3	<b>ICU Ventilators with Compressor</b> Origin: Europe / Japan / USA <b>Model: PB-980, Medtronic Covidien/ Model: S1, Hamilton, Switzerland or equivalent</b>	10 Nos.
4	<b>ICU Ventilators without Compressor</b> Origin: Europe / Japan / USA <b>Model: PB-980, Medtronic Covidien/ Model: S1, Hamilton, Switzerland or equivalent</b>	10 Nos.
5	<b>Trolley mounted High End advanced Echocardiography and General-Purpose Color Doppler</b> Fully digital beam having 125 or more physical channels and 800,000 or more digital processing channels Color Doppler Ultrasound with 12 bit or better A/D conversion for Cardiac, Abdomen, radiology, urology, vascular, breast, small parts and pediatric scanning functionality etc. 21-Inches Minimum TFT / LED Color Monitor with anti-flickering technology. 4 or more active universal transducer connectors. B mode, M mode, THI mode, CDI mode, PDI mode, Directional PDI mode, TDI mode, PW mode, CW mode, Spatial Compound imaging mode, Frequency compound imaging mode, Trapezoid imaging mode, Noise reduction technology, HPRF, Anatomical M Mode, Color M mode, Steer M mode, Strain elastography imaging, Contrast imaging, Stress Echo, Needle enhancement mode, Real Time panoramic mode in B-Mode and CDI, Biopsy guidance software, grid biopsy guidance software for endo-cavity biopsy procedures. B-Mode Frame rate: 1600fps or more. Easy detection of weak blood flow in micro vessels such as HD FLOW. Comprehensive Software Package for Measurement of Distance, Circumference, Area, Time, Depth, ANGLE, IMT, Velocity, Frequency, Heart Rate, Volumes. Auto-calculation: Auto IMT, Real-time Auto PW/CW Trace, Auto EF. All measurement Software to be provided as a Standard (including TOE probe for future addition). 1-7 MHz or better Multi-Frequency Single Crystal Convex Probe for B/M/CDI/PW. 5-17 MHz or better Multi-Frequency Linear Probe for B/M/CDI/PW. 1-6 MHz or better Multi-Frequency Single Crystal Adult Cardiac Probe for B/CDI/PW/CW/TDI/M. B/W Thermal Printer. Online Compatible UPS. FDA 510(k) Approve and CE Marked 2 years comprehensive warranty. <b>Model: S60, Sonoscape or equivalent</b>	1 No.



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6	<p><b>Trolley mounted Medium End Color Doppler</b>            Digital dynamic focusing advanced Color Doppler Ultrasound system with Chest and abdomen scanning functionality.            18-Inches Minimum TFT / LED Color Monitor.            Touch Command Screen Control at least 8-inches LCD / TFT            4 or more active universal transducer connectors.            B mode, M mode, THI mode, CDI mode, PDI mode, Directional PDI mode, PW mode, CW mode, Spatial Compound imaging mode, Frequency compound imaging mode, Trapezoid imaging mode, Noise reduction technology, HPRF, Steer M mode, Elastography imaging, Needle enhancement mode, Panoramic Imaging mode.            Frame rate: 900fps or more.            To provide Comprehensive Software Package for Measurement of Distance, Circumference, Area, Time, Depth, ANGLE, IMT, Velocity, Frequency, Heart Rate, Volumes.            Auto-calculation: Auto IMT, Auto PW/CW Trace, Auto EF.            All measurement Software to be provided as a Standard.            2-6 MHz Multi-Frequency or better Convex Probe for B/M/CDI/PW.            5-14 MHz Multi-Frequency or better Linear Probe for B/M/CDI/PW.            5-12 MHz Multi-Frequency or better Endocavity Probe for B/M/CDI/PW.            B/W Thermal Printer.            Online Compatible UPS.            FDA 510(k) Approve and CE Marked            2 years comprehensive warranty            Model: S22, Sonoscape or equivalent</p>	1 No.
7	<p><b>Bi-Pap Machines</b>            Origin: Europe / Japan / USA / China            Model: Lumins 100 VPAP S, Resmed or equivalent</p>	50 Nos.
8	<p><b>Oxygen Supply (VIE Tank full size on per month rental basis)</b></p>	1 Job / Services
8.1	VIE Tank (Capacity: 6000 ltrs.) on monthly rental basis	
8.2	Liquid Medical Oxygen Gas Supply (as per hospital requirement)	
8.3	Connection / installation with ancillaries (one time charges)	
9	<p><b>Furniture / Fixture (Best Quality)</b>  <b>To be supplied as per the approved sample</b></p>	
9.1	Supply of <b>Office Table</b> (using PVC foam Board complete table with wooden lipping and boarder polished) Size 48" Long x 30" Wide x 30" High	10 Nos.
9.2	Supply of <b>Office Table</b> (using MDF Lamination complete table with wooden lipping and boarder polished) Size 48" Long x 30" Wide x 30" High	12 Nos.
9.3	Supply of <b>Office Table</b> (using Ply with Formica Finished complete table with wooden lipping and boarder polished) Size 48" Long x 30" Wide x 30" High	11 Nos.
9.4	Supply of <b>Office Table's Side Rack</b> (using PVC foam Board complete table's Side Rack with wooden lipping and boarder polished) including 3 Nos. Drawers keyboard tray with mongry. Size 36" Long x 16" Wide x 30" High	10 Nos.



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Sr. No.	Description of the Goods / Services	Quantity / Job / Services
9.5	Supply of <b>Office Table's Side Rack</b> (using MDF Lamination complete table's Side Rack with wooden lipping and boarder polished) including 3 Nos. Drawers keyboard tray with mongry. Size 36" Long x 16" Wide x 30" High	12 Nos.
9.6	Supply of <b>Office Table's Side Rack</b> (using Ply with Formica Finished complete table's Side Rack with wooden lipping and boarder polished) including 3 Nos. Drawers keyboard tray with mongry. Size 36" Long x 16" Wide x 30" High	11 Nos.
9.7	Supply of <b>Executive Revolving Chair</b> with 39" high, 26" wide and 20" deep, Metallic Chrome finished based structure with five casters, with Plastic arms and seat and back jointly support with hydraulic system for seat height adjustment, black mesh fabric cushion.	15 Nos.
9.8	Supply of <b>Staff Revolving Chair</b> with 39" high, 23" wide and 20" deep, Metallic Chrome finished based structure with five casters, with Plastic arms and seat and back jointly support with hydraulic system for seat height adjustment, black mesh fabric cushion.	24 Nos.
9.9	Supply of <b>Visitor Wooden Chair</b> with 34" high, 19" wide and 18" deep, Shishum wood frame without arms, curved wide wooden strip back with leatherroid seat	78 Nos.
9.1	<b>Conference Table</b> (using MDF Lamination complete table with wooden lipping and boarder polished and wooden frame with all accessories of addressing ad projector etc. provisions) (Size 240" Long x 96" Wide x 30" High)	1 No.
9.11	Supply of <b>Office Table</b> (using PVC foam Board complete table with wooden lipping and boarder polished) Size 48" Long x 30" Wide x 30" High	18 Nos.
9.12	Supply of <b>Office Table</b> (using MDF Lamination complete table with wooden lipping and boarder polished) Size 48" Long x 30" Wide x 30" High	20 Nos.
9.13	Supply of <b>Office Table</b> (using Ply with Formica Finished complete table with wooden lipping and boarder polished) Size 48" Long x 30" Wide x 30" High	19 Nos.
9.14	Supply of <b>Office Table's Side Rack</b> (using PVC foam Board complete table's Side Rack with wooden lipping and boarder polished) including 3 Nos. Drawers keyboard tray with mongry. Size 36" Long x 16" Wide x 30" High	18 Nos.
9.15	Supply of <b>Office Table's Side Rack</b> (using MDF Lamination complete table's Side Rack with wooden lipping and boarder polished) including 3 Nos. Drawers keyboard tray with mongry. Size 36" Long x 16" Wide x 30" High	20 Nos.
9.16	Supply of <b>Office Table's Side Rack</b> (using Ply with Formica Finished complete table's Side Rack with wooden lipping and boarder polished) including 3 Nos. Drawers keyboard tray with mongry. Size 36" Long x 16" Wide x 30" High	19 Nos.
9.17	Supply of <b>Executive Revolving Chair</b> with 39" high, 26" wide and 20" deep, Metallic Chrome finished based structure with five casters, with Plastic arms and seat and back jointly support with hydraulic system for seat height adjustment, black mesh fabric cushion.	22 Nos.
9.18	Supply of <b>Staff Revolving Chair</b> with 39" high, 23" wide and 20" deep, Metallic Chrome finished based structure with five casters, with Plastic arms and seat and back jointly support with hydraulic system for seat height adjustment, black mesh fabric cushion.	57 Nos.
9.19	Supply of <b>Visitor Wooden Chair</b> with 34" high, 19" wide and 18" deep, Shishum wood frame without arms, curved wide wooden strip back with leatherroid seat	114 Nos.
9.2	Supply of <b>3 Seater Sofa cum Bed</b> , 72" long , 32" high at back 18" wide, Patal wooden frame, with leatherroid seating and back using Moltifoam, with 2 pillows	2 Nos.
9.21	Supply of <b>1 Seater Sofa</b> , 30" long , 32" high at back 18" wide, Partal wooden frame, with leatherroid seating and back using Moltifoam	1 No.
9.22	Supply of <b>Office Table</b> (using Ply finished Polished complete glass top table with wooden lipping and boarder polished) Size 48" Long x 30" Wide x 30" High	2 Nos.



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Sr. No.	Description of the Goods / Services	Quantity / Job / Services
9.23	Supply of <b>Office Table</b> (using Ply finished Polished complete glass top table with wooden lipping and boarder polished) Size 60" Long x 36" Wide x 30" High with side rack size 36" x 16" x30"	1 No.
9.24	Supply of <b>Staff Revolving Chair</b> with 38" high, 22" wide and 20" deep, Metallic Chrome finished based structure with five casters, with Plastic arms and seat and back jointly support with hydraulic system for seat height adjustment, black mesh fabric cushion.	5 Nos.
9.25	Supply of <b>Visitor Chair</b> with 36" high, 22" wide and 20" deep, Metallic Chrome finished based structure with five casters, with arms and seat and back jointly support leatherroid cushion.	3 Nos.
9.26	Supply of <b>Office Table</b> (using PVC foam Board complete table with wooden lipping and boarder polished) Size 48" Long x 27" Wide x 30" High	12 Nos.
9.27	Supply of <b>Office Table</b> (using PVC foam Board complete table with wooden lipping and boarder polished) 2 draws with mongrey. Size 48" Long x 30" Wide x 30" High	14 Nos.
9.28	Supply of <b>Table</b> in ICU at First Floor (using PVC foam Board complete table with wooden lipping and boarder polished) Size 42" Long x 22" Wide x 30" High with large drawer	1 No.
9.29	Supply of <b>Working Table</b> (using PVC foam Board complete table with PVC lipping) 2 Sliding Shutter and 6 Open Box with mongrey. Size 72" Long x 48" Wide x 30" High	1 No.
9.3	Supply of <b>Office Table's Side Rack</b> (using PVC foam Board complete table's Side Rack with wooden lipping and boarder polished) including Drawers keyboard tray with mongry. Size 36" Long x 16" Wide x 30" High	11 Nos.
9.31	Supply of <b>Open File Rack</b> (3.5mm Thick Shelf 16 Nos. using PVC foam Board with PVC lipping. Size 10" Long x 14" Wide x 36" High	2 Nos.
9.32	Supply of <b>Open File Rack</b> (3.5mm Thick Shelf 11 Nos. using PVC foam Board with PVC lipping. Size 10" Long x 14" Wide x 36" High First Floor ICU	1 No.
9.33	Supply of <b>File Rack Trolley</b> (3.5mm Thick Shelf 16 Nos. using PVC foam Board with PVC lipping. with Tray at Top and 4 Roller Wheels for moving Size 20" Long x 18" Wide x 36" High	1 No.
9.34	Supply & fixing of <b>Dry Partition</b> with 9mm thick ZRK MDF with partal wood frame Size 156" Wide x 99" High x Thickness 3" Doffing & Donning Areas	1 No.
9.35	Supply & fixing of <b>Dry Partition with Door</b> with 9mm thick ZRK MDF with partal wood frame Size 143" Wide x 99" High x Thickness 3" (Door Size: 84" x 36") Doffing & Donning Areas	1 No.
9.36	Supply & fixing of <b>Dry Partition with Window</b> with 9mm thick ZRK MDF with partal wood frame Size 135" Wide x 99" High x Thickness 3" (Window Size: 24" x 24" with 2 openable shutter) Doffing & Donning Areas	1 No.
9.37	Supply & Fixing of <b>Public Dealing Counter in Radiology</b> (using PVC foam Board complete Counter with silver finished Formica boarder) including Drawers keyboard tray with mongry for 2 persons including Double Marble Top finished. Size 154" Long x 23" Wide x 42" High Ground Floor	1 No.
9.38	Supply of <b>Internal Dealing Counter in Pharmacy</b> (using PVC foam Board complete Counter with Wooden boarder polished) including Drawers keyboard tray with mongry for 2 persons including Double Marble Top finished. Size 182" Long x 30" Wide x 42" High First Floor	1 No.
9.39	Supply of <b>Executive Revolving Chair</b> with 39" high, 26" wide and 20" deep, Metallic Chrome finished based structure with five casters, with Plastic arms and seat and back jointly support with hydraulic system for seat height adjustment, black mesh fabric cushion.	52 Nos.



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Sr. No.	Description of the Goods / Services	Quantity / Job / Services
9.4	Supply of <b>Staff Revolving Chair</b> with 39" high, 23" wide and 20" deep, Metallic Chrome finished based structure with five casters, with Plastic arms and seat and back jointly support with hydraulic system for seat height adjustment, black mesh fabric cushion.	61 Nos.
9.41	Supply of <b>Visitor Wooden Chair</b> with 34" high, 19" wide and 18" deep, Shishum wood frame without arms, curved wide wooden strip back with leatherroid seat Ground Floor in Doctors Room	46 Nos.
9.42	Supply of <b>Sofa cum Bed</b> , 72" long , 32" high at back 18" wide, Patal wooden frame, with leatherroid seating and back using Moltifoam, with 2 pillows at First Floor	16 Nos.
9.43	Supply of <b>Locker</b> pertaining to 6 locker in each locker, size 72" x 46" x 18" deep, consisting of Shelf with hanging arrangement with key lock and additional lock arrangement available, 18 swg sheet, with grey paint all internal and external and White Color on Front and sides. at Ground Floor	16 Nos.
9.44	Supply of 3 Seater Chairs metallic chrome finish base frame including powder coated	20 Nos.
9.45	Metal Stool (Best quality)	4 Nos.
10.	<b>Janitorial Services</b>	
10.1	Supervisor	5 Nos.
10.2	Janitor (Male / Female)	50 Nos.

- **Quantity of the goods may be increased or decreased.**
- **Delivery of the goods and services are urgently required. Therefore, preference shall be given to the offers having the minimum delivery period.**
- In case of any unforeseen situation or government holiday resulting in closure of office on the date of submission shall be submitted on next working day at the given time and venue.
- The Dow University of Health Sciences, Karachi (DUHS) reserves the right to reject any or all the quotation subject to the relevant provisions of SPP Rules 2010 (Amended 2019).

  
16/07/2020  
**Director Procurement**

Dow University of Health Sciences – Karachi