श्री चत्रा तिरुनाल आयु र्वज्ञान और प्रौद्यो गकी संस्थान, तिरुवनंतपुरम- 11, केरल
Sree ChitraTirunal Institute for Medical Sciences and Technology, Thiruvananthapuram - 11, Kerala
(भारत सरकार के अधीन राष्ट्रीय महत्व संस्थान)
(An Institute of National Importance under Government of India)
टेलीफॉन नं./**Telephone No. 0471-2443152** फाक्स/**Fax 0471-24464332550728**
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CORRIGENDUM -1 dtd.13.08.2021

TENDER NO.SCT/H/PMSSY/I/2021-22/07

Particulars	Dates given as per tender dtd. 06.07.2021	To be read as
Last date and time of online submission of bids	**10/08/2021 upto 5.00 pm**	**03.09.2021 upto 5.00 PM**
Last date and time of submission of **Hardcopy of Techno- commercial Bid** with supporting documents **(price bid has to be submitted online only).** ***The tender will stand rejected if the price bid is submitted along with hardcopy of techno-commercial bid***	**16/08/2021 upto 1.00 pm**	**08.09.2021 upto 01.00 PM**
Date of tender Opening	**17/08/2021 at 2.30 pm**	**09.09.2021 at 2.30 PM**

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MODULAR OPERATION THEATER UNIT		
(A) General Instructions to Bidders (GIB), 2. Introduction		
Sl.No.	**Description**	**To be read as**
2.1	Accordingly the construction of the 170 bedded hospital building is in progress which is expected to be tentatively completed by January'2021.	Accordingly the construction of the 170 bedded hospital building is in progress which is expected to be completed by March 2022.
(B) Section - IV of General Conditions of Contract (GCC) of Tender Document		
15.4	Warranty as well as Comprehensive Annual Maintenance Contract will be inclusive of all accessories and turnkey work and it will also cover the following, wherever applicable:- • All kinds of Motors. • Plastic & Glass Parts against any manufacturing defects. • All kinds of sensors. • All kinds of coils, probes and transducers. • Computers, Monitors, Printers and imagers including laser and thermal printers with all parts. • UPS including the replacement of batteries. • Air-conditioners • Fit out work carried out by the supplier • Third Party items.	Warranty as well as Comprehensive Annual Maintenance Contract will be inclusive of all accessories and turnkey work and it will also cover the following, wherever applicable:- • Plastic & Glass Parts against any manufacturing defects. • All kinds of sensors. • All kinds of displays • Computers, Monitors, Printers and imagers including laser and thermal printers with all parts. • Air-conditioners, Laminar flow system, HEPA filters • Fit out work carried out by the supplier • Third Party items. • Institute reserve the right to include / exclude any item in the purchase order at the time of awarding CAMC / LAMC • Panels and doors Peripheral Lights and OT Lights.
(C) SECTION- VI - List of Requirements		
Part II: Required Delivery Schedule:	For Indigenous or Imported goods: Supply, Installation and Commissioning to be completed within 90 days from the date of Purchase Order or date of opening of LC or date of approval of layout drawing (in case applicable) or readiness of site as certified by the institute	For Indigenous or Imported goods: Supply, Installation and Commissioning to be completed within 180 days from the date of Purchase Order or date of opening of LC or date of approval of layout drawing (in case applicable) or readiness of site as

	whichever is later. (In case of LC opening, necessary documents like valid Performance Security and Proforma Invoice are to be submitted within 30 days from the date of release of Purchase Order. In case layout drawing approval is applicable, it should be submitted by the supplier within 21 days from the date of release of Purchase Order.) For delayed delivery and/or installation and commissioning liquidated damages will get applied as per GCC clause 23. Readiness of site should be ensured by the supplier before delivery of goods.	certified by the institute whichever is later. (In case of LC opening, necessary documents like valid Performance Security and Proforma Invoice are to be submitted within 30 days from the date of release of Purchase Order. In case layout drawing approval is applicable, it should be submitted by the supplier within 21 days from the date of release of Purchase Order.) For delayed delivery and/or installation and commissioning liquidated damages will get applied as per GCC clause 23. Readiness of site should be ensured by the supplier before delivery of goods.
(D) Section - VII - Technical Specification and General Points of MOT Unit		
Pg.No.44 of Tender Document, General Points of MOT Unit	All products should be designed and manufactured according to ISO 9001:2000 standards.	All products should be designed and manufactured according to ISO 9001:2015 standards.
8.M	The ceiling material should be CE certified according to EN standards.	The ceiling material should be according to Indian Standards. If there is no Indian standard available it should have a US FDA/ EUROPEAN CE with four digit Identification number from a notified body certification.
9.L	The filtration ceiling system should have flow equalizer to achieve uniform & constant air distribution over the whole surface .it should also have connection for surgical lamp to be fitted in place of any filter	The filtration ceiling system should have flow equalizer to achieve uniform & constant air distribution over the whole surface of the plenum .
11.A.4	Doors should be made as sandwich-type – from two plates, the space between them should be filled with particle board or with so called honeycomb, glued to the plates. In installation places of hinges and locks, strengthening components must be used	Doors should be made as sandwich-type – from two plates, the space between them should be filled with solid core, glued to the plates. In installation places of hinges and locks, strengthening components must be used
13.A	Touch screen Control panel must be able to show temperature, humidity in the operating theater and must be able to be set on required	Touch screen Control panel of minimum size 21", must be able to show temperature, humidity in the operating theater and must

	temperature of air as well as light intensity. Also must show function of clock and stopwatch.	be able to be set on required temperature of air as well as light intensity. Also must show function of clock and stopwatch.
14.C	Peripheral lights and clean room luminaries fitted in the CG frame should be 8 in numbers for each OR. High quality imported surface mounted and recessed luminaries should be with at least 3Nos of 54W fluorescent lamps (TS or equivalent). Instead LED lights of equivalent illumination should be provided.	Peripheral lights and clean room luminaries fitted in the CG frame should be 8 in numbers for each OR. High quality surface mounted and recessed LED luminaries matching the ceiling the tile size.
14.G	This should be with adjustable multilamp ballast with interface 1-10V, controllable from the panel. Should be suitable for extruded aluminum areas where infrared remote controls are in use.	**Deleted**
18.3.III	Light field diameter adjustable - 220 mm to 290 mm	Light field diameter adjustable - 180 mm to 300 mm
18.3.IV	Focusing Mechanically	Focusing - Adjustable
18.3.X	Tube 99%	Shadow dilution with one Tube> 99%
18.3.XI	one mask: 70%	Shadow dilution with one mask: 60%
18.3.XII	tube and one mask: 70%	Shadow dilution with tube and one mask: 60%
18.3.XIII	two masks: 50%	Shadow dilution with two masks: 45%
18.3.XIV	tube and two masks: 50%	Shadow dilution with tube and two masks: 45%
18.3.XV	Total illumination intensity of a double light combination <1000 W/m^2	**Deleted**
18.3.XVI	Energy efficiency Ee - 540 W/m^2	**Deleted**
18.3.XVII	Ee/Ec ratio - 3.4 m W/m^2 x lux	**Deleted**
18.3.XVIII	Photometric radiation equivalent - 280 lm/W	**Deleted**
18.3.XX	Light-emitting surface - 3866 cm^2	**Deleted**
18.3.XXI	Bulb efficiency - 60 lm/W	**Deleted**
18.3.XXII	Total nominal power of all LED bulbs- 108 W	**Deleted**
18.3.XXIII	Max. power consumption per light - 200VA	**Deleted**
18.3.XXV	Light head supply voltage - 24V/DC	**Deleted**
18.4.XVI	Intensifier - automatic / manual (-3 to 28 dB, 16 levels)	**Deleted**
20.B	It should be continuously ventilated by positive air in the room through ventilation holes provided at the bottom and top of opposite sides.	**Deleted**
20.C	The storage unit should be divided 2 equal parts and each part should have individual glass doors with high quality locking system. Each part will be provided with glass racks.	The storage unit should be divided 2 equal parts and each part should have individual glass doors with high quality locking system.
23.A	It should have weight bearing capacity of more than 350 KG	It should have weight bearing capacity of more than 300 KG

23.O	Hand control should have menu navigation key for additional functions like kidney bridge, longitudinal shift etc.	**Deleted**
23.Q	Overall table length should be 2240 mm	Overall table length should be more than 2200 mm
23.R	Overall width of the table should be 600 mm	Overall width of the table should be at least 600 mm
23.S	Table height adjustment should be 620 mm / 1120 mm	Table height adjustment should be approx: 600 mm / 1150 mm
23.Z	Products offered must be medical grade and compliant with US FDA 510k cleared.	Products offered must be medical grade have a valid Indian Standards quality certification. If there is no Indian standard available then the item/ equipment should have a US FDA / EUROPEAN CE with four digit Identification number from a notified body certification.
25.A.1	Integrated Audio, Video And Data Integration System To The Surgical Control Panel	Integrated Audio, Video And Data Integration System To The Surgical Control Panel or independent system
25.A.1.I	Audio system to hear soothing music and radio channels. It should be able to play pen drive, hand held device, mp3 player	Should provide an Audio system to hear soothing music and radio channels. It should be able to play pen drive, handheld device, mp3 player.
25.B.2	Each OR must be equipped with ___ watt speakers either ceiling mounted or integrated with the OR integration system	Each OR must be equipped with 10 watt speakers either ceiling mounted or integrated with the OR integration system
25.C.1.I	The system should receive the signal from different image sources like Surgical Robot, Endoscopy camera, In-Light camera, C-Arm, Patient Vital Signs, wall camera etc. It should support various native signal sources such as HDMI, Composite, S-Video, VGA, SDI/3G HD SDI and DVI-D video signals. The no of simultaneous connections may vary from OR to OR and may range from 1 to 4 at a time as per scope of supply for each OR	The system should receive the signal from different image sources like Surgical Robot, Endoscopy camera, In-Light camera, C-Arm, Patient Vital Signs, wall camera , Microscope, Video Conferencing etc. It should support various native signal sources such as HD,3D & 4K can also connect HDMI, Composite, S-Video, VGA, SDI/3G HD, SDI and DVI-D video signals. The no of simultaneous connections may vary from OR to OR and may range from 1 to 8 at a time as per scope of supply for each OR
25.C.1.IV	The system should be able to receive incoming signals from different image sources, in different colour space, video formats and aspect ratios (e.g. 4:3, 16:9, 16:10) and display them with accurate anatomical features, with correct and undistorted tone	The system should be able to receive incoming signals from different image sources 4K,3D and HD, in different colour space, video formats and aspect ratios (e.g. 4:3, 16:9, 16:10) and display them with accurate anatomical features, with correct and undistorted tone.
25.C.1.VII	The platform should enable the hospital to record and archive Operating Theatre activities.	The platform should enable the hospital to record and archive Operating Theatre

	The core of the platform should be capable to manage video information, store it with at least Full HD 1080p 60fps resolution for the finest details to be provided in the surgical process	activities. The core of the platform should be capable to manage video information, store it in native input resolution 4K,3D and Full HD 1080p 60fps for the finest details to be provided in the surgical process.
25.C.1.VIII	It should be able to capture, videos and still pictures from video sources connected in the OR in patient context	It should be able to capture, record videos and still pictures from video sources connected in the OR in patient context. Audio comments in case Surgeon wants to record.
25.C.1.X	Video recordings should support at least Full HD resolution (1080p) with selectable encoding format at least H.264 10Mbps	Video recordings should support at least 3840 x 2160p Full HD resolution (1080p) with selectable encoding format at least H.264 10Mbps
25.C.1.XIII	Resolution of still images should be 1920 x 1080	Resolution of still images should be in native resolution 3840x2160p
25.C.1.XX1	The system should automatically delete older studies when the setup time or disk capacity limits have been reached	The system should automatically delete older studies when the setup time or disk capacity limits have been reached. Confirmation to be sought by the system before deletion.
25.D.1.I	No of simultaneous Imaging / video inputs - 4	No of simultaneous Imaging / video inputs 8
25.D.2.XVII	No air exchange from ventilation into the OR	No air exchange from monitor ventilation into the OR
25.D.3.A.II	Video stream should be accessible in lightweight client software which should be available without administration rights on the station.	**Deleted**
25.D.3.A.XIII	The system should be capable routing following signals while assuring native signal.	The system should be capable routing 4K, 3D and SD signals while assuring native signal.
25.D.6.III	Rated power of 2 X 120W@4Ohms;	**Deleted**
25.D.6.IV	2 X 100W@70/100V;	**Deleted**
25.D.8.II	CE Marking according to Directive 93/42/EEC	Should have a valid Indian Standards quality certification. If there is no Indian standard available then the item/ equipment should have a US FDA / EUROPEAN CE with four digit Identification number from a notified body certification.
25.D.8.III	US FDA	Should have a valid Indian Standards quality certification. If there is no Indian standard available then the item/ equipment should have a US FDA / EUROPEAN CE with four digit Identification number from a notified body certification.

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25.D.9.II	All the medical devices shall be CE marked as per EU Medical Device Directive No.93/42/EEC and other component parts shall bear CE mark as per relevant EU directive/s. or US FDA Approved. Self-declaration of conformity documents with other related certificates e.g. Notified Body certificates shall be uploaded. Additional documents to verify the claims may be asked for.	All the medical devices quoted should have a valid Indian Standards quality certification. If there is no Indian standard available then the item/ equipment should have a US FDA / EUROPEAN CE with four digit Identification number from a notified body certification.
25.D.9. IV	Modular OT, OT light and OT table should be from the same OEM for better integration and compatibility.	**Deleted**
25.D.10.I	The equipment's and all accessories shall have CE mark with valid EU'S MDD certificate from	Equipment's and all accessories should have a valid Indian Standards quality certification. If there is no Indian standard available then the item/ equipment should have a US FDA / EUROPEAN CE with four digit Identification number from a notified body certification.
25.D.10.II	European Conformity (EC) notified bodies issued from European address or valid US FDA approval and documentary evidence to that effect shall be submitted.	All items quoted should have a valid Indian Standards quality certification. If there is no Indian standard available then the item/ equipment should have a US FDA / EUROPEAN CE with four digit Identification number from a notified body certification.
(E) Revised BOQ (IMP and INR) attached		
(F) Revised Technical Compliance is attached		
(G) Bid Security Declaration Format Enclosed (Section - XII of Tender Document)		
(H) Drawing Second Floor MOT is attached		
(I) Drawing Forth Floor MOT is attached		
(J) Drawing Fifth Floor MOT is attached		
(K) Drawing Sixth Floor MOT is attached		

Sd/-
Director