



Tender enquiry number: ADMIN/Tender/OT/1/2013/ Dated 10-09-2013

For supply, installation and commissioning of **Low End Modular Operation Theatres and Medical Equipments** at All India Institute of Medical Sciences Raipur (CG)

Various queries raised by bidders during pre-meeting held at Committee room 1st floor medical college building, AIIMS Raipur, has been examined by technical and commercial committee and amendment is issued here under.

DUE DATE AND BID SUBMISSION DATE: **NO CHANGE**

Schedule No.	Equipment Name	Total Quantity	EMD Details
1	Low End Modular Operation Theatre	4	₹ 7,70,000
2	Double dome Operating lights with Audio-Visual integration with facility of streaming for conferencing at a distance of 300 meters	3	₹ 1,50,000
3	Double dome LED operating lights	1	₹ 1,50,000
4	Operating Room Table	4	₹ 3,50,000

The above table describing schedule, equipment name, total quantity and EMD is amended as shown below

Schedule No	Equipment name	quantity	EMD
Schedule 1	Low end modular operation theater	4	₹ 7,70,0000/-
Schedule 2	Double dome Operating lights with centrally mounted camera (plug and play / fixed / detachable) with facility to stream camera output for conferencing, the camera output should be LAN ready for transmission of data using CAT 6 and given at a suitable place outside the operating room. Room camera and microphone for Audio-Visual streaming, the audio-visual output should be LAN ready for transmission of data using CAT 6 and given at a suitable place outside the operating room. The price of camera should be quoted separately.	3	₹ 1,50,000/-
Schedule 3	Double dome LED operating lights	1	₹ 50,000/-
Schedule 4	Operating Room Table With all the accessories described under the head accessories for 2 tables With screen, lithotomy position stands, anesthesia circuit holder and side arm boards (2 number for each table) for 2 tables	4	₹ 3,50,000/-

Page no / Clause no / Point no	Existing sentence	To be read as
Page 2 Clause 5	Tenderers shall ensure that their complete tenders in all respects are dropped in the Tender Box located at AIIMS Raipur, Tatibandh, Raipur 492001 (CG), on or before 05.10.2013, 1700 hrs IST at Deputy Director's (Admin) office failing which the tenders will be treated as late and rejected.	Tenderers shall ensure that their complete tenders in all respects are dropped in the Tender Box located at AIIMS Raipur, Tatibandh, Raipur 492001 (CG), on or before 05.10.2013, 1400 hrs IST at Deputy Director's (Admin) office failing which the tenders will be treated as late and rejected.
Page 15 Clause 13.5.5 Customs Duty:	The Purchaser will pay the Customs duty wherever applicable.	The supplier shall get the goods cleared at the port of entry. Normally, goods to be supplied to government departments against government contracts are exempted from levy of custom duty; however, on some occasions, the administrative bodies at the port of entry as per their regulations allow such exemptions only on production of certificate to this effect from the concerned government department. Keeping this in view, the supplier shall ensure that the stores to be supplied by the supplier against the contract placed by the purchaser are exempted from levy of custom duty and, wherever necessary, shall obtain the exemption certificate from the purchaser. However, if the custom officials still insists upon payment of custom duty, the same should be paid by the supplier customs officials to avoid delay in supplies and possible demurrage charges and obtain a receipt for the same. The supplier should forward the receipt obtained for such payment to the purchaser to enable the purchaser reimburse the supplier and take other necessary action in the matter.
Page 55 SECTION VI	The table showing schedule no, equipment name, total quantity and EMD	The table is replaced by the amended table shown on page 1 of this document
Page 56 Part II: Required Delivery Schedule:	a) For Indigenous goods or for imported goods: For all schedules: Delivery installation and commissioning should be completed within 90 days from the date of notification of award. (Tenderers may quote earliest delivery period).	a) For Indigenous goods or for imported goods: For all schedules: Delivery installation and commissioning should be completed within 120 days from the date of notification of award. (Tenderers may quote earliest delivery period).

Page no / Clause no / Point no	Existing sentence	To be read as
Page 59 GENERAL	The Pre-fabricated Operating Room should be constructed using 1.6 mm thick EGP panels backed by 12 mm Bison board. EGP steel wall paneling and PVC flooring (Commissioning and installation to be strictly carried as per international standards)	The Pre-fabricated Operating Room should be constructed using 1.6 mm thick SS 304 panels backed by 12 mm Bison board. SS 304 wall paneling and PVC flooring (Commissioning and installation to be strictly carried as per international standards) The material used in the OT should be HRFR compliant
Page 60 WALL PANELLING SYSTEM-SS	The inner surface walls should be constructed with 1.60 mm thick EGP steel panels backed by Bison board.	The inner surface walls should be constructed with 1.60 mm thick SS 304 panels backed by Bison board.
CEILING SYSTEM	The ceiling plates /cassettes should be made up of 1.6 mm thick EGP steel panels with matt finish backed by 8 mm Bison board and should be polyurethane powder coated. The ceiling suspension should consist of Support elements: Suspension bracket with tension spring, and the material used should be high quality galvanized or powder coated steel	The ceiling plates /cassettes should be made up of 1.6 mm thick SS 304 panels with matt finish backed by 8 mm Bison board and should be polyurethane powder coated. The ceiling suspension should consist of Support elements: Suspension bracket with tension spring, and the material used should be high quality galvanized or powder coated steel EGP elsewhere in this tender document should also be considered replaced by SS 304
Page 61 LAMINAR AIR FLOW SYSTEM	The ceiling filtration system should be designed to ensure unidirectional distribution of sterile air with differential flow velocities decreasing from center to perimeter of the surgical theatre to ensure the cleanliness of all the area covered by the airflow. The ceiling system should be equipped with "S" class HEPA (High Efficiency Particulate Absolute) filters with different performances according to their position in the ceiling to achieve different flow velocities.	The ceiling filtration system should be designed to ensure unidirectional distribution of sterile air to ensure the cleanliness of all the area covered by the airflow. The ceiling system should be equipped with "S" class / H 13 / H 14 HEPA (High Efficiency Particulate Absolute) filters with different performances according to their position in the ceiling to achieve different flow velocities.
	Iv Protective grids: white epoxy painted micro drawn grid	Clause is deleted
Page 63 HERMETICALLY SEALED DOORS Para Added		Hermetically Sealed doors automatic of size: 2.1 m (H) x 1.0 m (W) of same specification without window to be installed between scrub area and OR in each OT

Page no / Clause no / Point no	Existing sentence	To be read as
		<p>Sealed automatic swivel doors of size: 1.8 m (H) x 2.1 m (W) of same specification with 250 mm X 250 mm windows (2 no) to be installed on either side of the corridor in trauma building OT complex</p> <p>Hermetically Sealed glass window with motorized blinds of size: 2.3 m (H) x 1.8 m (W) in OT 1 and OT 2 of 3 OT complex of trauma building</p>
Page 66 HATCH BOX Para Added		Hatch Box: Size 600 mm x 600 mm. Its body shall be made out of Stainless Steel sheet (304 Grade). The unit is provided with heavy-duty electromagnetic interlocking arrangement. Electric buzzer, UV lights (8 watt)-1 No. and lighting arrangement shall be provided. The doors should be made from SS 304 and provide for viewing glass.
Page 67 SCRUB STATION Para Added		Hands free infrared sensor operation with a built-in range of adjustment and user definable settings of 3, 6, 12, 30 and 45 seconds and 1, 3, 5 and 10 minutes. It should have a foot operated facility
Page 68 PENDANT FOR ANESTHETIST The clause Para Added	Should have provision of RJ 45 /cat 6 for data communication.	<p>It should be provided with CAT 6 Cable with RJ45 connections for telephone and data communication and should be terminated outside the OT with recommended patch panel. It should also have RGB/DVI connector along with RGB cable running up to Video Monitor.</p> <p>The material should be rust free and factory powder coated</p>
Page 69 SPECIFICATION FOR SURGICAL CEILING SUSPENDED PENDANT SYSTEM Para Added	Load capacity should be 380 Kg.	<p>Overall Load bearing capacity should be > 350 Kg.</p> <p>The material should be rust free and factory powder coated</p>
	Should have > 2 platforms of atleast 75cms x 50cms x 40cms	Should have > 4 platforms of atleast 75 cms x 50 cms x 40 cms
SPECIFICATION FOR SURGICAL CEILING SUSPENDED PENDANT SYSTEM	Should have (iv) Data Port – 2 No's (v) All interfaces for integration	<p>Should have (iv) Data Port – 4 No's (RJ45) (v) deleted</p> <p>It should have CAT 6 x 4 no cable terminates as RJ45 in suspension head and terminated at outside OT as patch panel, two pair of Audio video Cable terminated</p>

Page no / Clause no / Point no	Existing sentence	To be read as
		at service head and extended up to outside OT in patch panel
SPECIFICATION FOR SURGICAL CEILING SUSPENDED PENDANT SYSTEM	The pendant should have braking system, which should be wearing free.	The pendant should have electrical / pneumatic braking system, which should be wearing free.
PERIPHERAL LIGHTING AND IMPORTED CLEAN ROOM LUMINARIES		PERIPHERAL LIGHTING AND CLEAN ROOM LUMINARIES
Page 70 MEDICAL GAS LINE INSTALLATION	The bidder should ensure that all works carried out are to the recommendation made in the Department of Health and Social Security's Health Technical Memorandum number (HTM 02-01) & C11 and/or any other appropriate British Standards	The bidder should ensure that all works carried out are to the recommendation made in the Department of Health and Social Security's Health Technical Memorandum number (HTM 02-01) & C11 / NFPA and/or any other appropriate British Standards.
Para Added		The copper pipe shall be medical grade and should fully meet & comply with BSEN 13348:2008 Standard
Page 72 FIRE EXTINGUISHERS	Bidder should provide suitable fire-fighting extinguishers; its mechanism should be as per international standards	The material used in OT should be HR /FR compliant
Para Added Page 72 PREOPERATIVE HOLDING AREA POST-ANESTHESIA CARE UNIT		Antimicrobial paint of the preoperative holding area and postanesthesia care unit
Page 72 BOQ FOR LOW END MODULAR OT- 4 NUMBER	Prefabricated EGP steel Room Walls	Prefabricated SS 304 Room Walls
Page 73	Technical specifications for OR lights: three (4) number	Technical specifications for OR lights: three (3) number
Page 73 Clause 4	It should have LFL lens combination and have the primary optics, which guides the light in a coherent light path. The light should be shadow free and the thickness of the light head shall be no more than 50 mm.	The light should be shadow free
Para added		The light should be HD Camera ready and the camera should be centrally mounted type. The camera output should be on monitor as well as recording system.

Page no / Clause no / Point no	Existing sentence	To be read as
Clause 6	The light should have variable color temperatures of 3800K and 5000K (changeable during the surgery depending on the surgeon's choice). The optimum color temperature of the light should be between 3800 - 4700K	The light should have multiple stage color temperature between 3800K and 5000K (changeable during the surgery depending on the surgeon's choice). The optimum color temperature of the light should be between 3800 - 5000K
Clause 8	Diameter of main light head 60 - 90 cm (main dome) Diameter of satellite light head 60-90 cm (satellite dome)	Area of main light head 60 X 90 cm (main) Area of satellite light head 60 X90 cm (satellite)
Clause 13	It should have facility to replace each LED individually instead of replacing the module with several LEDs.	Deleted
Clause 17	It should be supplied with two autoclavable & detachable suspension handle. The light should have unbreakable head Glass.	It should be supplied with two autoclavable & detachable handle. The light should have unbreakable head Glass.
Clause 19	It should have provision for a HD camera system on a separate swivel arm with a capability to move 360 degree along its axis.	It should have provision for a HD camera system in the center of the light head
Clause 20	It should also have two swivel arms for slave monitors where the camera output and slave monitoring should be provided.	It should also have one-swivel arm to mount 2 26" monitors for the camera output and slave monitoring.
Clause 21	Two medical grade monitors for slave monitoring and camera output should be fitted on swivel arms with light.	Two 26" LED medical grade HD color monitors to be fitted on swivel arm.
Clause 31	Light Sources LED (no) > 90	Deleted
Page 74 Technical specifications for OR lights: three (4) number System Configuration Accessories, spares and consumables	18. It should be supplied with reOTe control panel. 22. Wireless reOTe dome control 31. Light sources LED (no) > 90 i. Two medical grade slave monitors ii. Spare 10 no of LED bulbs iii. 1 wall panel iv. 1 wireless reOTe control v. v. 1 voltage stabilizer unit	18. The light should be supplied with controls on light dome and on wall panel Delete clause 31 i. Deleted ii. Deleted iii. Deleted iv. Deleted v. Deleted

Page no / Clause no / Point no	Existing sentence	To be read as
<p>Para Added CAMERA SPECIFICATIONS</p>		<ol style="list-style-type: none"> 1. The Camera should be High definition and have full HD video Output. 2. The Camera Should be Mounted in the center of the dome. 3. The zoom facility of camera should be 120x (10x optical / 12x digital) 4. The Camera should have convenient control of all camera functions via a separate control unit. 5. There should be Video signal and control signal interface via combination wall socket. 6. There should be HD –DSI digital video signal via BNC socket. 7. There should be Control signals via multiple DIN socket. 8. There should be no image interference caused by electro-surgery. 9. The Camera & Monitor Arm Should be of the same manufacturer as of the O.T. Light. <p>Technical Data Of HD Camera</p> <p>Image sensor 1/3” CMOS</p> <p>Number of pixels 1920 x 1080</p> <p>Effective pixel number approx. 2,000,000</p> <p>Signal system Standard : 1080i / 50 Hz</p> <p>Optional : 1080i / 59.94 Hz 720p / 50 Hz, 720p / 59.94 Hz</p> <p>Aspect ratio 16:9</p> <p>Minimum illumination 12 lx</p> <p>Signal-to-noise ratio (SNR) >50 dB</p> <p>Zoom 10x optical/12x digital</p> <p>Focal length (zoom lens) f = 5.1 mm to 51 mm</p> <p>Shutter ½ to 1/10,000” S</p> <p>White balance Automatic</p>
<p>Page 75</p>	<p>Specifications for Flat Panel Monitor - Should be 23” High Definition Progressive Scan Flat-panel Monitors with ceiling mounted spring arm suspension</p>	<p>Specifications for Flat Panel Monitor - Should be atleast 26” LED High Definition Medical grade color Monitors with mounting on the ceiling arm.</p>

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	<p>to support high-definition/HDTV progressive Scan images and should be able to support and display DVI/HDTV, RGBHV, S-Video, Composite video signals.</p> <p>The flat Panel suspension should be ready with the cables for integration of High Definition Digital (DVI/HDTV), RGBHV (High Resolution), SVHS (S-Video), Composite video signals to travel from the various sources of video like endoscopic camera, room camera, in light camera, high definition flat panel monitors, while assuring native resolution / signal.</p> <p>Such Monitor should at least meet the following technical criteria: Resolution: 1600 dots x 1200 dots, Progressive Scan Display Colors: 16 Million Colors Inputs: DVI, RGBHV, S-Video, Composite Video Synchronization: 2.5 – 5.0 Vpp separated sync Response time: < 25ms Travel: 330° - 340° Forward Tilt: 30° - 40° Backward Tilt: 45° - 50° Cable Kit for Integration: DVI, Fiber-Optic, RGBHV, S-Video, Composite</p>	<p>Deleted</p>
<p>Para Added AUDIO VIDEO CABLING INSIDE OR WITH AUDIO VIDEO EQUIPMENT</p>		<p>The video and audio cable should be laid inside the OT and should be terminated at outside OT walls with patch panel for easy connection of audio video. The cable should be high grade HRRF</p> <p>Audio equipments like wireless microphone (2Nos), and one active speaker mountable on wall should be provided.</p> <p>One room camera mountable on wall of not less than 450 lines resolution with zoom, pan tilt functions with remote control for zooming and positioning of camera.</p> <p>It should also be supplied with Audio and</p>

Page no / Clause no / Point no	Existing sentence	To be read as
		video mixer, which can be placed inside or outside OT for mixing audio video for long transmission.
Page 75 OPERATING ROOM SURGICAL OPERATION TABLE	Table should be ISO certified and should be imported	Table should be ISO certified / USFDA / CE approved
Clause 1	Table should be floor mounted and fully washable	Table should be fully washable / cleanable / disinfectable
Clause 11	It should be capable to provide 100% Kidney Bridge position by reOTe control by using extension/break function without moving the patient.	It should be capable to provide 100% Kidney Bridge position by remote control by using extension-break function and/or manually without moving the patient.
Para Added		It should have a Port for the purpose of easy diagnosis and servicing.
Page 77 General Accessories Para Added		1. A pair of arm boards with 2 clamps & 4 bands, with the universal coupling for up & down & rotary function 2. Anesthesia frame with 2 tubes & 1 clamp
Gynecology and Urology	1. A pair of arm boards with 2 clamps & 4 bands, and it has the universal coupling for up & down & rotary function 2. Anesthesia frame with 2 tubes & 1 clamp 3. A pair of leg supports with 2 clamps, pads & bands, and it has the universal coupling for up & down & rotary function 4. Disposal basin for waste 5. 1 Body strap with Velcro 6. A pair of shoulder support with 2 clamps 7. Pubic support with pad & clamp 8. Sacrum support with pad & clamp 9. One piece of gel material pad for arm in lateral position 10. One piece of gel material horse shoe pillow	1. A pair of leg supports with 2 clamps, pads & bands, and it has the universal coupling for up & down & rotary function 2. Disposal basin for waste 3. 1 Body strap with Velcro 4. A pair of shoulder support with 2 clamps 5. Pubic support with pad & clamp 6. Sacrum support with pad & clamp 7. One piece of gel material pad for arm in lateral position 8. One piece of gel material horse shoe pillow
Page 85 QUALIFICATION CRITERIA Para Added		i) Average Annual financial turnover during the last 3 years, ending 31st March of the previous financial year, should be at least 30% of the estimated cost. ii) Experience of having successfully completed similar works during last 7

Page no / Clause no / Point no	Existing sentence	To be read as
		<p>years ending last day of month previous to the one in which applications are invited should be either of the following: -</p> <ul style="list-style-type: none"> a. Three similar completed works costing not less than the amount equal to 40% of the estimated cost. <li style="text-align: center;">Or b. Two similar completed works costing not less than the amount equal to 50% of the estimated cost. <li style="text-align: center;">Or c. One similar completed work costing not less than the amount equal to 80% of the estimated cost. <p>Qualification Criteria:</p> <ul style="list-style-type: none"> • Eligible bidder should submit an AFFIDAVIT that they will quote and bid for similar manufacturer product for which they have past experience and have successfully executed similar product/work during the past five years. • Eligible bidder should submit a mandatory exclusive Letter of Authority from the Foreign Principal/ Manufacturer for the quoted products. Eligible Bidder must be an exclusive, sole and authorized distributor with the similar company for continuous last five years for the quoted products (without break). In support of this, the bidder has to submit a copy of Distributorship Agreement with the Foreign Principal along with list of projects where products manufactured by the Foreign Principal were supplied and installed in India by the bidder in each of these five years. • The Tenderer shall furnish Performance statement in the enclosed Proforma 'A'. The manufacturer as well as the Tenderer/ Indian Agent shall furnish Satisfactory Performance Certificate in respect of above, duly translated in English and duly notarized in the country of origin, along with the tender. <p>The organization/bodies from which the certificates of experience will be considered are as follow</p> <ol style="list-style-type: none"> 1. Government departments / PSU / other govt. bodies 2. Public limited company

Page no / Clause no / Point no	Existing sentence	To be read as
		<p>3. Govt. recognized institutions</p> <p>4. cooperatives registered with “registrar of cooperatives”</p>
Page 85 02 (a)	<p>The Manufacturer should have supplied and installed atleast 100% of the quoted quantity of the similar equipment meeting major specification parameters in last Five years from the date of Tender Opening, which is functioning satisfactorily (Similar equipment means Modular OT meeting our tender technical requirement and for integration it is integration of equipments in Modular OTs). The foreign Manufacturer satisfying the above criteria should also have supplied and installed at least 50% of quoted quantity of similar equipment in last Five years from the date of Tender Opening, which are functioning satisfactorily anywhere outside the country of manufacture. (Similar equipment means Modular OT meeting our tender technical requirement and integration means integration of equipments in Modular OTs)</p>	<p>The Manufacturer should have supplied and installed atleast 50% of the quoted quantity of the similar equipment meeting major specification parameters in last three years from the date of Tender Opening, which is functioning satisfactorily (Similar equipment means Modular OT meeting our tender technical requirement. The foreign Manufacturer satisfying the above criteria should also have supplied and installed 50% of quoted quantity of similar equipment in last three years from the date of Tender Opening, which are functioning satisfactorily anywhere outside the country of manufacture. (Similar equipment means Modular OT meeting our tender technical requirement.</p>
02 (b)	<p>The Tenderers quoting as authorized representative of the manufacturer meeting the above criteria, 02 (a), should have supplied and installed atleast 50% of the quoted quantity of similar equipments anywhere in India of any manufacturer in last Five years from the date of Tender Opening, which is functioning satisfactorily (Similar equipment as explained above).</p>	<p>The Tenderers quoting as authorized representative of the manufacturer meeting the above criteria, 02 (a), should have supplied and installed 50% of the quoted quantity of similar equipments anywhere in India of any manufacturer in last three years from the date of Tender Opening, which is functioning satisfactorily (Similar equipment as explained above).</p>

Page no / Clause no / Point no	Existing sentence	To be read as
<p>02 (c) Para Added TURNOVER CRITERIA</p> <p>Schedule 1</p> <p>Schedule 2</p> <p>Schedule 3</p> <p>Schedule 4</p>		<p>Not less than ₹ 4,00,00,000/- per year in last 3 years</p> <p>Not less than ₹ 7,50,000/- per year in last 3 years</p> <p>Not less than ₹ 2,00,000/- per year in last 3 years</p> <p>Not less than ₹ 10,00,000/- per year in last 3 years</p>
<p>Page 89 Section XI, PRICE SCHEDULE Note Para Added</p>		<p>Custom duty shall be paid by supplier if applicable (see clause 13.5.5); and shall be reimbursed on production of original receipt</p>
<p>Para Added ROLE AND GOALS DURING INSTALLATION AND COMMISSIONING OF VARIOUS SUPPLIES</p>		<p>Before actual commissioning of all the equipments or their accessories namely OR light, gas pipelines, anesthesia and surgical pendants and cabling for various equipments, a meeting of all the suppliers would be conducted at a suitable date to define role of each supplier. The aim of this meeting will be to ensure matching of different components related to the equipments stated above. The decision taken will be put on record and shall be binding to all the suppliers.</p> <p>Role and Goals during installation and commissioning of various supplies will be governed by the administration of AIIMS Raipur and the decision of AIIMS Raipur will be binding to the suppliers</p>

Administrative Officer
AIIMS, Raipur