

Corrigendum- III

Technical Specification change request.
: 24/RT/Pulmo/Broncho/866 /2026- Rish (Admn)

| S.No. | Product Name | Description | Requested changes with reasoning | Amendment Technical Specification |
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| 1. | Bronchoscopy and EBUS Simulator Specifications | 1. The system should be fully computerized and interactive. | | |
| | | 2. Should have PC with latest Intel i7 and Virtual Reality simulation processor with remote access. | | |
| | | 3. Should have a Stainless steel support (130-186) cm L (57-87) cm Width / (135-180)cm Height | Kindly make the dimensions generalised as to should have sturdy support with lockable wheels | The range provided is already quite broad |
| | | 4. Should have at 27" Flat LCD touch screen with a movable arm. | | |
| | | 5. Should have designated cyberscopy navigation tasks to improve eye hand coordination and navigational skills. | | |
| | | 6. Should have a 3D map for the ease of users to learn and understand the anatomy better. | | |
| | | 7. Should offer a choice of aids enhancing 3D and anatomical perception such as external 3D Map. | | |
| | | 8. Should support the trainees' performance with real time guidance, comments and patient safety alerts. | | |

RISH CHAUDHARY

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| | | 9. The performance assessment should be most advanced with benchmark setting depending on the user level. | | |
| | | 10. Should incorporate electric tools such as electrocautery probe. | | |
| | | 11. The system should have Web based simulator Curricula Management System , providing the optimal solution for managing simulation based training and education needs; <ul style="list-style-type: none"> • Should facilitate performing the administrative tasks of running a training course or workshop. • Should offer extensive library of course including a library of ready to use simulator based courses and a platform to design new ones. • Should have ready to use designed curricula. • Should have a facility to access, assign, evaluate and administer the data of users remotely. | Kindly make web based as optional | Accepted |
| | Bronchoscopy Basic Characteristics | 1. The system should be equipped with a reliable high end technological Haptic (Force Feedback) to provide realistic sensation that mimic the look and feel of an actual procedure. | | |
| | | 2. Should preferably have a mannequin with Nose and mouth for performing diagnostic and therapeutic bronchoscopy. | | |
| | | 3. Should have original OEM bronchoscope adapted to simulation purposes, to provide realistic feel and maneuverability. | Kindly make Original OEM bronchoscope as optional. | Accepted |

Yashraj Group of Institutions
 Yashraj Institute of Health Sciences
 Yashraj Institute of Management Studies
 Yashraj Institute of Technology

Mavenk Mishra

Syeda
 Additional Director General
 G.H.S.
 Health Services
 Welfare

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| | | | Reason-specific for surgical sciences. Request to reframed as "the simulated bronchoscope should have the look, feel and features of an actual bronchoscope" | |
| | | 4. Should have one master tool device, one 10cc syringe and one EBUS TBNA needle (adapted) | | |
| | | 5. Should simulate the full spectrum of the Bronchoscopic Procedure. <ul style="list-style-type: none"> • Patient management with moderate sedation and topical anesthesia • Ongoing patient monitoring • Maybe • And also preferably Solving complication such as hypoxia, respiratory depression, dangerous levels of BP and HR | Kindly make this point optional Reason-specific for surgical sciences. | Not Accepted Reason: These are medical Complications that may arise during a such procedure. |
| | | 6. All virtual patient cases should offer an unrestricted clinical environment for inspecting, analyzing, diagnosing and treating accordingly. | | |
| | | 7. Should provide real life patient environment with: Reactive vital signs, True to life physiological responses like | | |

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| | | cough, Altering consciousness and Complications. | | |
| | | 8. Should have designated tasks to support structured self learning of sampling methods with immediate performance feedback. | | |
| | | 9. Should have designated tasks to improve eye hand coordination and navigation skills. | | |
| | | 10. Advanced modules should offer choice between moderate sedation by the trainee to pre-existing general anesthesia. | Kindly make it optional Reason- Repetition of previous point | Accepted |
| | | 11. Should offer a choice of didactic aids enhancing 3D and anatomical perception such as a anatomy compass, external 3D Map, anatomy atlas and anatomical labels for bronchial segments and lymph nodes. | | |
| | | 12. System should support trainees' performance with real time guidance including efficiency, comments and patient safety alerts. | | |
| | | 13. The performance assessment should be most advanced and include biopsy results per sampled location or lymph node, for advanced Modules. | | |
| | | 14. Should incorporate electric tools such as electrocautery probe and APC probe. | | |
| | | 15. Should offer the following Bronchoscopic tools and methods for the trainee to use at his clinical discretion: | | Accepted |

Sujata

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| | <p>Diagnostic Bronchoscopy Module with:</p> | <ul style="list-style-type: none"> • Biopsy result per the area sampled • Cases with malignant endobronchial findings • Pediatric inflammation case • Adult inflammation case • Sarcoidosis case • Aspergillus case | | |
| | <p>Emergency Bronchoscopy Module With :</p> | <ul style="list-style-type: none"> • Endobronchial bleeding in main airways • Peripheral endobronchial bleeding following biopsy • Foreign body aspiration- pediatric • Foreign body aspiration- adult • Therapeutic aspiration-Mucus filled airways • Stent placement • Balloon dilation • Plectomy | | |
| | <p>Essential EBUS Module with</p> | <ul style="list-style-type: none"> • A step by step procedural task for complete EBUS TBNA performance • Tasks to learn and identify the different lymph node stations on the ultrasound view. • Radial peripheral EBUS basic training • Cases with multiple lymph nodes, all of which can be sampled by the trainee • Pathological finding results per the sampled lymph nodes. • A case with different pathological findings for different lymph nodes • Malignant lymph nodes • Benign lymph nodes | | |
| | | <ul style="list-style-type: none"> • The system should come with 5 years warranty and the company should quote 5 years CMC price | | |

Sujata

Frank Mishra

Dr. (Prof.) SUJATA CHAUDHARY
 Director General
 C.H.S.

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| | | <ul style="list-style-type: none"> • Diagnostic Bronchoscopy, all clinical cases should offer: Topical anesthesia and BAL using an actual syringe, cytology brushes, biopsy forceps, and conventional TBNA needles with actual syringe to apply suction. • Essential EBUS, all clinical cases should offer: Topical anesthesia using an actual syringe, EBUS-TBNA needle with actual syringe to apply suction. • Emergency Bronchoscopy, different cases should offer: basket, balloon, grasping forceps, V- shape forceps, electrocautery probe, APC probe, iced saline, epinephrine and mucomist endobronchially using an actual syringe • Should offer a structured curriculum and certification for essential Bronchoscopic skills and Diagnostic Bronchoscopy. | Request to make V-shaped forceps Optional | |
| | Taining Modules and Virtual Patient Cases | The System should have the following modules and virtual patient cases: | | |
| | Essential Bronchoscopy Module Offering skill and procedural tasks: | <ul style="list-style-type: none"> • Bronchoscope control and maneuvering • Anatomic navigation • Anatomical recognition of bronchial segments • Anatomical recognition of lymph node stations • Step by step procedural performance of forceps biopsy, brushing and conventional TBNA | | |

Dr. Anshu Sindhvani
 Additional Director General
 Secondary Medicine

Dr. Ank Mishra

Dr. (Prof.) SUJATA CHAUDHARY
 अपर महानिदेशक / Additional Director General
 स्वास्थ्य सेवा महानिदेशालय / Dte. G.H.S.

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| | | <ul style="list-style-type: none"> The company should have the option to buy back the machine after warranty CMC period is over. | | |
| | | <ul style="list-style-type: none"> The system should have over the cloud upgradation of software. | | |
| | | <ul style="list-style-type: none"> The system should be BIS/ISO/UPSFDA/EUROPEAN CE or equivalent. | | |
| | | <ul style="list-style-type: none"> The price of accessories should be quoted in the financial bid and should be valid for 10 years. | | |
| | | <ul style="list-style-type: none"> Note: A physical demonstration of the equipment by the bidding firms will be required. If the equipment meets the necessary criteria, they will be duly informed. <p>List of accessories as follows:</p> <ol style="list-style-type: none"> Scopes Monitor CPU Keyboard Mouse Robotic Sensor Footswitch Manikin body (Optional but preferably) Ebus needle Bronch tool Tool holder | | |

डॉ. गिरीश सिंह
 आचार्य एवं विशेषज्ञ
 Professor & Hon. Pulmonary Medicine
 एम्स, ऋषिकेश / AIMS, Rishikesh

डॉ. मांगक मिश्रा
 आचार्य एवं विशेषज्ञ
 एम्स, ऋषिकेश / AIMS, Rishikesh

डॉ. (प्रो.) सुजाता चौधरी / Dr. (Prof.) SUJATA CHAUDHARY
 अवर महानिदेशक / Additional Director General
 स्वास्थ्य सेवा परिवार कल्याण मंत्रालय
 Ministry of Health & Family Welfare
 Govt. of India
 New Delhi-110001