

1. SPECIFICATIONS FOR DUAL VIEW CARGO X-RAY MACHINES

1.1. Regulatory Requirement:

- 1.1.1. The X-Ray Machine must be approved by TSA and One (01) of the following major Civil Aviation Regulatory Agencies in addition to appropriate authority of the country of product manufacturer and country of end user.
 - a) Department of Transport (DFT- UK)
 - b) European Civil Aviation Conference (ECAC)
 - c) Department of BKA (Bundeskriminalamt - German) "Federal Criminal Police Office
 - d) Department of Transport (Australia)
 - e) Flughafen Police (Switzerland)
- 1.1.2. The offered Make and Model must be in the Qualified Section of latest (TSA) Air cargo Screening Technology List for Non-Computed Tomography (Non-CT) Transmission X-ray Device.
- 1.1.3. Radiation Safety : Shall comply with all applicable national radiation & health regulations for radiation emitting devices and approval shall be obtained from National Atomic Energy Authority of Sri Lanka.

1.2. General Requirements:

- 1.2.1. X - Ray Machine shall be Supplied, Installed and Commissioned at of the Bandaranaike International Airport for Hold Baggage screening.
- 1.2.2. Systems shall be safe for the use in public areas without any restriction and shall comply with applicable international safety standard. Bidder shall have furnished applicable documents & certificates issued by to support the compliance of offered system to safety standard.
- 1.2.3. X-Ray Generators : Two (02) or higher number of generators placed according to the system design architecture.
- 1.2.4. Method of Moving : System shall be mounted on heavy duty castor wheels for Ease of movement
- 1.2.5. Method of Inspection : Baggage to be inspected shall be fed to the X-ray system / Inspection area, through a conveyor belt and it shall be collected from the other end of the conveyor after the inspection. Detected X-Ray images from both horizontal and vertical elevations shall be displayed on video monitor / monitors after necessary processing.
- 1.2.6. Maximum Object size Supported by the conveyor & system
 - I. Width : 1000 mm (or higher)
 - II. Height : 1000 mm (or higher)
- 1.2.7. Conveyor Height : Between 300 mm - 400 mm (from the floor)
- 1.2.8. Conveyor shall be extended 1000 mm towards feeding area with roller bed extension, and 3000 mm in cascaded, detachable 1000 mm units towards discharge area from the edges of the conveyer and 600 mm drop chute at the end of the 3000 mm

extension (width, height and load of the roller bed extension shall be shall be provided.”

- 1.2.9. Conveyor Speed : not less than 200 mm / Sec.
- 1.2.10. Conveyor Capacity : not less than 200 kg. (Distributed)
- 1.2.11. Conveyor operation : Screening shall be possible in both forward and Reverse directions
- 1.2.12. Method of Display
 - I. Organic material such as Explosives (irrespective of surrounding metal objects and orientation of Organic material & the metals) shall be displayed as per “Clause 1.3.”
 - II. Method / methods adopted to detect above specified material shall be clearly explained with sufficient documentary proof.
- 1.2.13. Wire Resolution (Standard) :
 - I. View-1 : 40 SWG or better without using any function keys
 - II. View-2 : 40 SWG or better without using any function keys
- 1.2.14. Penetration : 28 mm or better (steel) for each view
- 1.2.15. Image Display / Displays:
 - I. Video Monitor / monitors (2 Nos.) LCD/LED with screen diagonal not less than 19" (with minimum 1024X768 pixels)
 - II. Brightness control shall be accessible to operator.
- 1.2.16. Power : 230 V + 10%, 50 Hz + 3%
- 1.2.17. Operating environment: 20° C to 40°C, 80% to 90% Humidity
- 1.2.18. Internal UPS shall be available inside the X-Ray Machine in Order to protect internal electronic devices such as computers, etc. to enable automatic shutdown when input power is disconnected.
- 1.2.19. External UPS : 3 kVA or better On-Line UPS with not less than 10min backup time

1.3. **Image Processing & Image Display:**

- 1.3.1. There shall be only one computer control unit for the processing of images from both View A and View B in the dual view system.
- 1.3.2. Real-time Operation, ALL image enhancement features must be accessible to the operator without having to stop the belt
- 1.3.3. Black & White image : Display dense objects to low-density objects, in not less than 256 gray levels, according to density of the object.
- 1.3.4. Color image : Images in different colors for organic & inorganic objects.
- 1.3.5. Video Zoom : Expansion of video image by factor of 2, 4 or more for better viewing. And viewing of different areas of zoomed image by moving image over the screen of the monitor.

- 1.3.6. Image enhancement functions :
 - I. Video inversion (ability to display monochrome image)
 - II. Edge enhancement feature
 - III. Organic and inorganic stripping
- 1.3.7. Any selected functions shall reset automatically when the next object is being screened
- 1.3.8. All available image enhancement functions offered by the system should be capable of using without stopping the belt.
- 1.3.9. Density Expansion : Increase the contrast for a selected density range (low, high Etc.) to allow optimal viewing of objects.
- 1.3.10. Automatic Threat Alert: Identification of baggage with suspicious level of metal, weapons, explosives, dangerous restricted articles, and dangerous substances and warn the operator indicating such areas in the image.
- 1.3.11. Image storage Facility : Facility to store X-Ray images (minimum 10,000 images) for reference and / or investigations and shall be capable to export to a CD / DVD / Flash Drive.
- 1.3.12. Machine should be capable of recalling last 15/20 images
- 1.3.13. Threat Image Projection: Internally generated random threat images shall be projected over the operator monitor screen at pre programmable intervals and the statistics shall be utilized on evaluating operator. System administrator shall be able to enable or disable when necessary.
- 1.3.14. Access Passwords : The different access levels and passwords shall be assigned to Operators, Supervisors and Administrators
- 1.4. **Safety:**
 - 1.4.1. Leakage : shall not be greater than 2 $\mu\text{Sv/hr}$ at a distance of 5 cm from external housing.
 - 1.4.2. Film Safety : Shall be safe for ISO 1600 /33 DIN speed films and lower.
 - 1.4.3. General Safety : Interlock system shall be in cooperated within the system
 - 1.4.4. Cabinet to prevent accidental exposure of Maintenance personnel to X-Ray source or any harmful areas inside the system.
 - 1.4.5. Emergency Stop Keys : shall be available at operator work Station.
- 1.5. **Other Requirements:**
 - 1.5.1. Indications: Provision shall be made for display of following states / Parameters and any other important parameter (specified by manufacturer) to be monitored by operator.
 - I. X-Ray warm-up
 - II. X-Ray ON (operator work station and both Ends of tunnel)
 - III. System operation Hours
 - IV. X-Ray ON Hours

- V. No. of Inspections
- VI. System alarms

1.5.2. Operator Controls: Provision shall be made for following controls and controls required for image processing facilities mentioned under the item no. 3 of specifications

- I. System On / Off
- II. X-Ray On / Off
- III. Conveyor On / Off
- IV. Conveyor Forward / Reverse
- V. Emergency Stop
- VI. Display / Monitor Brightness

1.5.3. System layout :

- I. Operator console shall have facility to be placed on either side of the machine regardless of the running direction of the conveyer belt.
- II. Sides of the conveyor (areas not covered by the cabinet) shall be covered by a material preferably non-brittle material, which shall prevent the scattering of X-Ray towards the baggage feeding and discharge area.

1.5.4. Interference to Other systems :

- I. Interference to radio & electronic equipment operating in close vicinity shall be minimal.
- II. There shall not be a limitation to the operation of a Passenger screening Metal Detector Archway by a side of X-Ray system. If there is any limitation, it shall be specified in the offer.

1.6. **Maintenance:**

- 1.6.1. Mean-Time between Failures (MTBF) and Mean-Time To Repair (MTTR) data for the offered systems is required to be at an average of "uptime" of over 99% under realistic operating conditions.
- 1.6.2. Test signals / test patterns shall be made available in the system itself for testing of circuits & monitors.
- 1.6.3. Panels of the equipment shall be easily removable for maintenance.
- 1.6.4. All system components such as Card Racks, Power supplies, X-Ray Generator, Components of Conveyor and all other repairable items shall be easily accessible for preventive and corrective maintenance, in order to minimize system down time.
- 1.6.5. System component layout / diagram shall be provided along with the offer, clearly indicating removable panels & access points.
- 1.6.6. System parameters such as X-Ray hours, Total Hours of usage of the machine, baggage count, and alarms shall be available with the system.
- 1.6.7. Recovery CD / USB drive shall be provided specifically for the computer inside in X-Ray machine and user shall have the right to do installation
- 1.6.8. Software updates shall be provided for 10 years from the date of commissioning and updates shall be free of charge.

- 1.6.9. The Software of the X-Ray machine should automatically generate system log files (Similar to Diagnosis report) indicating all the technical parameters and stored within the system.

1.7. Circuit Diagrams & Manuals:

- 1.7.1. Detail operational manuals with adequate operational aspects shall be provided for the operator to be fully conversant with the operations.
- 1.7.2. Detailed circuit diagrams, Component layouts and circuit descriptions with all other manufacturer recommended test procedures shall be provided so that the technical staff could attend to the preventive and corrective maintenance work efficiently.
- 1.7.3. Documents on recommended safety procedures for operational & Maintenance staff shall be provided.
- 1.7.4. Preventive and corrective maintenance procedures shall be provided.

1.8. Spares & Consumables:

- 1.8.1. List of all important system modules including "Manufacturers Part Number" and "Current Unit Price" shall be provided.
- 1.8.2. Following spares shall be offered with the machine
- | | | |
|------|---|--|
| I. | X-ray generator | – 01 Nos. |
| II. | Conveyer belt | – 04 Nos. |
| III. | Rollers associated with conveyer assembly | – 02 Sets (Free Roller, Power Roller, Tracking Roller, Tension Roller) |
| IV. | Detector Board | – 02 Nos. |
| V. | Control Computer | – 01 Nos. |
| VI. | Full Function Keyboard | – 02Nos. |
| VII. | Other if recommended | |
- 1.8.3. Manufacturer shall guarantee in writing for uninterrupted supply of spares for a period not less than Ten (10) years, following the date of commissioning.
- 1.8.4. Any special tools / calibration tools for repair / maintenance of X-Ray Machine shall be supplied with the equipment.
- 1.8.5. 1 Number of Standard Test Piece (STP) shall be provided and the STP's must be approved by at least One (01) of following regulatory agencies.
- | | |
|------|---|
| I. | Transport Security Administration (TSA) |
| II. | Department for Transport (DFT- UK) |
| III. | European Civil Aviation Conference (ECAC) |

1.9. Warranty:

- 1.9.1. The X-Ray System shall be guaranteed to be free of defects, for a minimum period of One (1) Year from the date of commissioning.
- 1.9.2. Maintenance Requirements (corrective and preventive) shall be carried out by the OEM During the 1-year warranty period.
- 1.9.3. The Corrective Maintenance process and Preventive Maintenance procedure shall be published and certified by Original Equipment Manufacturer (OEM).

1.9.4. Preventive Maintenance (During warranty period)

- 1.9.4.1. All PM shall be carried out by the contractor in adherence to the Original Equipment Manufacturer (OEM) recommended schedule and PM procedures.
- 1.9.4.2. Contractor shall submit recommended OEM certified PM schedule and PM procedures along with the proposal.
- 1.9.4.3. The Preventive Maintenance shall only be performed without interruption to the operations of the machine or terminal. The timeslot for Corrective Maintenance shall be obtained by Senior Assistant Airport Manager, BIA
- 1.9.4.4. There shall be equipment logbook and procedure checklist to be maintained for each equipment by contractor and every action performed on each equipment must be clearly recorded with the details of the technical personal who attended for the action.

1.9.5. Corrective Maintenance (During warranty period)

- 1.9.5.1. The resolution of faults come under the Corrective maintenance

	Reporting Window	Response time at site	Resolution Time	Total Fault Resolution Time
Case -1	24 x 7	2 Hrs	22 Hrs	24 Hrs

- 1.9.5.2. The 24 hrs aforesaid shall be considered only for corrective maintenance of serviceability per month per machine.
- 1.9.5.3. Representative/s from the contractor shall attend for any type of breakdown at site within 2 hours from the notification.
- 1.9.5.4. There Shall be a hotline number and Email available for the notification of faults

1.10. References:

- 1.10.1. The Supplier shall provide a list of at least 5 Nos. of similar model X-Ray installations in international airports other than the country of manufacture along with contact numbers / email addresses and names of the Officers in-charge of those installations.
- 1.10.2. Visit shall be arranged to minimum of 5 number of people for inspection of user interface and demonstration of the system, upon request from AASL.

1.11. Factory Training:

- 1.11.1. The Contractor shall provide (level-3) Technical and Maintenance training program at a manufacturer certified training facility for Twelve (12) number of trainees in two batches.
- 1.11.2. The Training period shall be not less than 5 days. However, if manufacturer recommends more than 5 days to comply the given syllabus, the manufacturer recommended days shall be offered as the period of training.
- 1.11.3. The training facility shall have the facilities to carry out all technical and maintenance, theory and practical

- 1.11.4. The exact offered model shall be used in the site for practical training described in this section.
- 1.11.5. Operator training for all members of the technical team shall be provided at the same site of technical training alongside the technical Training.
- 1.11.6. Syllabus of the (level-3) Technical and Maintenance training shall include (but not limited to) the below subject areas.
- I. X-Ray theory and how Advance Cabin Baggage X-Ray Scanning works
 - II. Descriptive Details about X-Ray generator technology
 - III. Descriptive Details about the electronics Cards and equipment used in the machine
 - IV. Descriptive Details about the Wiring diagrams of the entire machine including electronics cards and equipment
 - V. Descriptive Details about how the system components are integrated
 - VI. In-depth knowledge on the components used in the electronics cards
 - VII. Methods of Storing and handing of all components used in the machine
 - VIII. Manufacturer recommended stock keeping of spare parts
 - IX. Manufacturer recommended safety procedures and how to follow than correct
 - X. Manufacturer recommended meter reading procedures for the record keeping of the machine for the identification of performance degradation
 - XI. Manufacturer recommended procedure for relocating of machines
 - XII. Any other recommended theory by the manufacturer
- 1.11.7. Manufacturer recommended maintenance procedure for X-Ray machine maintenance and Descriptive details that why it is been kept that way
- 1.11.8. Practical training shall be provided on following:
- i. Change of X-Ray conveyer belt
 - ii. Change of Mechanical parts of the machine
 - iii. Change of keyboard and monitors
 - iv. Change of Detector boards/array
 - v. Change of Light barriers
 - vi. Change of X-Ray generators
 - vii. Change of Computer control units
 - viii. Change of X-Ray Generator Controls
 - ix. Change of Peripheral interface boards
 - x. Change of Circuit Interface Boards
 - xi. Change of A to D and D to A converters
 - xii. Relocation of Machines
 - xiii. Safety procedures
 - xiv. Any other recommended by the manufacturer
- 1.11.9. Fault identification & Troubleshooting shall be done with the simulation of faults in the components of following items
- i. Mechanical parts of the machine
 - ii. Keyboard and monitors
 - iii. Detector boards/array
 - iv. Light barriers
 - v. X-Ray generator
 - vi. Computer control unit
 - vii. X-Ray generator Control
 - viii. Interface board

- ix. Circuit Interface Board
- x. A to D and D to A converter
- xi. Any other critical components recommended by manufacturer

- 1.11.10. Trainees shall be only from AASL Technical staff. No personnel from any other organization are allowed to accompany the training group. On successful completion of the Training program, AASL Technical staff shall be capable of carrying out all the corrective and preventive maintenance of each type of equipment independently. The manufacturer shall cover content of the syllabus for technical training in the specifications for each type of machine.
- 1.11.11. Factory training program shall be completed before installation and commissioning of X-Ray machines.
- 1.11.12. Instructors of each training program shall possess in depth knowledge related to the topics covered under the trainings. Compliance with this requirement will be considered in the issuance of training completion certificate.
- 1.11.13. Invitation letters for the trainees to obtain visa shall be delivered by the Contractor to the Buyer At least Six (06) weeks prior to the date of departure from Sri Lanka.
- 1.11.14. Contractor shall assist in obtaining visa for the trainees to visit respective country for the trainings.
- 1.11.15. Air fare and per diems for accommodation, food, etc. for the trainees, who would attend factory training, shall be borne by the Contractor. Per diem shall be paid according to the circular M.F.01/2015/01 dated 2015.05.15 issued by the Ministry of Finance of Sri Lanka. Per diems to be directly paid to the trainees in cash and the trainees shall make own arrangements for accommodation, food, etc.
- 1.11.16. Incidental allowance for the trainees attending the factory training shall be provided in cash by the contractor as per clause 03.a. of the above M.F.01/2015/01 circular. The incidental allowance shall be paid for the days including the travelling days and rounded up to the nearest ½ day.
- 1.11.17. Visa fees, travel insurance fee and any other expense for trainees attending the factory training shall be borne by the Contractor. The Contractor shall not offer tickets from Airlines Classified as budget Airlines.
- 1.11.18. In the case of more than one stops to reach the destination, the air ticket offered must not be from multiple airlines
- 1.11.19. Bidder shall furnish the syllabus, training schedule, contents and other particulars recommended and offered by the manufacturer of all the Training program, along with the Bid.
- 1.11.20. Certificates of competency shall be issued to the trainees after each module of Factory Trainings through appropriate assessments. Confidential reports of these assessments in respect of each trainee shall be submitted to the Buyer, at the end of each training program.
- 1.11.21. The Buyer shall evaluate the success of each training component according to the feedback received from the trainees of each training component. If any of the training component is not adequately covered (identified by the team leader), and the other trainees provide the feedback verifying the same, then the certificate for successful completion of the training will not be issued by the Buyer to the Contractor.

- 1.11.22. Cost breakdown of the factory training (training cost, cost of allowances, visa fee, air ticket fee, etc.) shall be provided with the bid.

1.12. Local Training: -

Technical

- 1.12.1. Level -2 Local Training shall be conducted by a certified instructor from the OEM for full scope of the procurement.
- 1.12.2. After installation and prior to Site Acceptance Test of the system, on-site training on technical maintenance and operation of the system shall be provided. Installation staff of the contractor/Manufacturer, who possess overall knowledge on the system may conduct the training. This training shall arrange for Ten (12) Technical Personnel from AASL.
- 1.12.3. Local Training shall not be an extension for the factory training since the participants are not the same group who attended for the factory training.

Advance Operator training

- 1.12.4. Advance Operational Training shall be provided for 30 number of Security Instructors employed by AASL in 3 batches each consist of maximum 10.
- 1.12.5. Advance Operator Training shall be conducted by an instructor certified by OEM
- 1.12.6. The training shall include for all Items of the scope of the procurement.

Basic Operator training

- 1.12.7. On – site training on operations of X-Ray machines for 300 operational (security) persons in 30 batches.
- 1.12.8. The training program shall be conducted by a certified instructor from the OEM

1.13. Factory Acceptance Test: -

- 1.13.1. A Factory Acceptance Test (FAT) of X-Ray machines shall be carried out at the Manufacturer 's site. The FAT procedures have to be formulated by the Manufacturer and approved by the Buyer and these documents should reach Buyer At least Two (02) weeks prior to commencement of Factory Acceptance Test. The cost of FAT for Two (02) representatives of the Buyer, will be borne by the contractor.
- 1.13.2. If FAT is not successful, and related matters could not be attended within the scheduled period of FAT, following arrangements shall be made depending on the level of deviations / failures, in agreement with both parties.
- 1.13.3. If period of the FAT to be extended beyond the scheduled period of FAT, all additional Expenditure, including expenses for the representative of the Buyer incurred shall be borne by the Contractor.
- 1.13.4. If FAT has not been performed or major deviations / failures are observed, another FAT shall be arranged and total cost of this FAT, including all expenses for the representative of the Buyer, to attend the second FAT, shall be borne by the Contractor.
- 1.13.5. If deviations / failures are of minor nature, but rectification could not be completed within the period of FAT, after rectification of the deviations / failures, Manufacturer shall perform the relevant parts of the test at the Factory. The test report shall be sent to Buyer and obtain Buyer's concurrence prior to the dispatch of the system. However, the related test

shall be performed during the Site Acceptance Test. Specific test equipment, which will be needed for these tests, shall be brought to the site of installation by the Contractor, at his own cost.

- 1.13.6. Air fare and per diems for accommodation, food, etc. for two (02) representatives of AASL who would attend FAT, shall be borne by the Contractor. Per diem shall be paid according to the circular M.F.01/2015/01 dated 2015.05.15 issued by the Ministry of Finance of Sri Lanka. Per diems to be directly paid to the FAT representatives in cash for them to make their own arrangements for accommodation, food, etc.
- 1.13.7. Incidental allowance for the representatives attending the FAT shall be provided in cash by the contractor as per clause 03.a. of the above M.F.01/2015/01 circular. The incidental allowance shall be paid for the days including the travelling days and rounded up to the nearest ½ day.
- 1.13.8. Visa fees, travel insurance fee and any other expense for attending the FAT shall be borne by the Contractor. The Contractor shall not offer tickets from Airlines Classified as budget Airlines.
- 1.13.9. In the case of more than one stops to reach the destination, the air ticket offered must not be from multiple airlines
- 1.13.10. Cost breakdown of the FAT (FAT program cost, cost of allowances, visa fee, air ticket fee, etc.) shall be provided with the bid.

1.14. Manufacturer's Products Specifications / Brochures: -

- 1.14.1. Offers should include ORIGINAL Technical Literature published by the manufacturer as documentary evidence to support Statement of Compliance and given reference. All manuals should be in the English Language.
- 1.14.2. The component Block diagram of each model of the machine must be submitted with the bid.

1.15. Patent Right Claims: -

- 1.15.1. The Contractor shall indemnify and defend at his own cost, Airport & Aviation Services (Sri Lanka) (Private) Limited, against any and all claims arising on account of patent rights or royalties whether from manufacturers or others on the use by Airport & Aviation Services (Sri Lanka) (Private) Limited of the X-Ray Machines supplied. Further, the Contractor shall agree to honor, pay and discharge any judgment or decree arising therefrom.

1.16. Local Agent: -

- 1.16.1. Manufacturer shall have a local agent in Sri Lanka and shall disclose the name and address of the Local Agent in the bidding document indicating the commission payable to him.
- 1.16.2. There shall only be one local agent in Sri Lanka for the manufacturer and the local agency must be authorized directly by the OEM.
- 1.16.3. Nomination of a Local Agent after opening of the Bid will not be accepted.
- 1.16.4. Bids received from Local Agents on behalf of their manufacturers will not be considered unless the Local Agent holds a Letter of Authority from Principals.

1.17. Shipment Details: -

- 1.17.1. Immediately after the X-Ray Machines are shipped, the Contractor shall advise the Chairman, Airport & Aviation Services (Sri Lanka) (Private) Limited by fax {Fax No. (+94)112252239} or email (head.scm@airport.lk), the name of the ship, quantity and number of packages shipped, the date of sailing and ETA of the Vessel to the Colombo Port.
- 1.17.2. The contractor shall also forward advance copies of shipping documents comprising two copies of invoice, two copies of packing list and one copy of certificate of origin by Air Mail to "Chairman, Airport & Aviation Services (Sri Lanka) (Private) Limited, Bandaranaike International Airport, Katunayake.

1.18. Clearance from Port: -

- 1.18.1. The Contractor shall provide documents relating to all Equipment included in the Letter of Award, which may be necessary to obtain approvals for the importation of the Equipment.
- 1.18.2. The Contractor shall provide necessary assistance to obtain approvals from authorities concern and, in the customs clearing process.
- 1.18.3. Local duties/taxes will be borne by Airport & Aviation Services (Sri Lanka) (Private) Limited.
- 1.18.4. Any additional expenditure, such as re-payment of local duties/taxes or duplication of local duties/taxes which may incur due to incorrect invoice, shipping documents, etc. produced by the Contractor or his representative shall be borne by the Contractor.

1.19. Transport to the Site: -

- 1.19.1. Contractor shall take over the responsibility of transporting the Equipment from the Colombo Port/Airport to the site (mentioned as per the scope of bid) on its own cost.
- 1.19.2. Additional Charges from the port for delaying transportation to the site or unloading shall be borne by the contractor.
- 1.19.3. Necessary man power and machinery for loading, transportation and unloading of the Equipment shall be provided by the contractor on its own cost.
- 1.19.4. Airport & Aviation Services (Sri Lanka) (Private) Limited will not take any responsibility for the damages during loading, transportation and unloading of the Equipment.

1.20. Installation, Site Acceptance & Commissioning: -

- 1.20.1. The Contractor shall provide all details / documents pertaining to installation, following Manufacture's recommendation (including equipment layout of the proposed system).
- 1.20.2. The Contractor shall perform the installation & Commissioning of the System following Manufacturer's recommendations.
- 1.20.3. During the Site Acceptance Test (SAT), the Contractor shall prove that the system Performance conforms to the Bid Specifications.
- 1.20.4. A qualified Technical Person / Personnel authorized by the Contractor or Manufacturer of the System shall be available at the site for SAT.
- 1.20.5. Documents giving the comprehensive test procedures and recording of all vital Parameters of the system at the SAT shall be provided by the Contractor at least Two (02) Weeks prior to the SAT for the approval by Buyer.

- 1.20.6. Upon successful completion of the installation, the SAT shall be carried out jointly by representatives of Buyer and Contractor.
- 1.20.7. If the Buyer required to relocate the X-Ray machines from its original position, the Buyer's staff trained by the manufacturer shall be authorized to perform the work.

1.21. Provisional Acceptance: -

- 1.21.1. If the Equipment is acceptable after successful completion of SAT, Local Training and after satisfactory operation of two (02) Weeks period from the date of completion of SAT, the Provisional Acceptance Certificate shall be issued.

1.22. Final Acceptance: -

- 1.22.1. Upon expiry of a period of twelve (12) operational months of successful operation of the System from the date of issuance of Provisional Acceptance Certificate, the Final Acceptance Certificate will be issued by the Buyer.

1.23. Statement of Compliance: -

- The Contractor shall provide a Statement of Compliance indicating the compliance or any deviation in respect of all of the AASL Specifications given in this document. (Starting from number 1 in the specifications Section)
- The Statement of Compliance shall strictly adhere to the following format. Please provide the reference paragraphs and the pages in the technical proposal. Compliance or non-compliance should be marked in the relevant cage. Any cage left with blank is considered as non-compliant.
- Each compliant statement must be verified by providing valid references under the **REFERENCES** column.
- Non adherence to above requirements may cause disqualification

Example:

Spec No.	Employers Specification	Offered Specification	Compliance	References	Comments
1.2.4	System shall be mounted on heavy duty castor wheels for Ease of movement	<i>heavy duty castor wheels</i>	<i>Complied</i>	<i>Ref. Para x.x.x., Page yy of Document ZZ</i>	---

Note:

1. Compliance – should be stated as “Complied / Partially complied / non-Complied” (in the event of partially compliance, reason for same shall be stated under comments column)

2. References – Relevant page numbers of Bid / Brochures / catalogues submitted along with the Bid document shall be stated under this column.