

E-Tender No. IPA/GAD/Containers Scanner dated 03/11/2016
Procurement of 3 (Three) Nos of X-Ray Based Drive-through Container Scanning Systems
Clarifications to pre-bid queries provided in the meeting held on 28/11/2016

| S.No. | Clause /Description | Tender Requirement | Query/ Suggestion | Clarifications |
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| 1. | Name of Firm : M/s Rapiscan Systems | | | |
| a) | Page No.- 21 Section/Chapter – 2.12 Title - INSPECTION AND QUALITY CONTROL | The Purchaser and/or his representative(s) will, carry out Factory Acceptance Tests (FAT) as per the terms of the contract at the Supplier’s premises or the premises of the sub- contractors of the Supplier before dispatch of goods to check if the goods and related services conform to and perform as per the specifications and quality control requirements of the contract. Requirements/ checks to be carried out during FAT/SAT have been tabulated in Appendix II, titled “Parametric Test and Inspection for Acceptance.” All cost for carrying out, including travel, stay, etc., for FAT shall be borne by the Supplier | Based on the customer purchasing 3 x Systems, for the FAT purposes of testing the system, including image performance parameters as specified in Appendix II, can the supplier build 1 x system only and then perform an inventory check on the remaining 2 x Systems, without the need to completely assemble? | <i>FAT is required to be conducted on all the three systems as per the requirements of the tender.</i> |
| b) | Page No.-29 Section/Chapter – 3.7 Title - SITE WORKS & SERVICES | Site Preparation works (except those relating to radiation & equipment safety,) | Please confirm whether Radiation Shielding walls, built to the requirements of the respective tenderer, will be included in site works carried by respective ports, or not? | <i>Yes. However, the tenderer should provide necessary design details and drawings for the construction of radiation shielding walls by the respective Ports.</i> |
| c) | Page No.-29 Section/Chapter – 3.8 Title - SITE WORKS & SERVICES | The bidder in his bid must bring out and provide details of specific requirements in regards to site preparation as well as that of service (water, electrical power, lighting,) | Based on schematic layouts of O&M Building (Appendix-IV) on page 93, it is understood that the respective ports will be responsible for supplying this O&M building, therefore provision of services and requirements for such services will be responsibility of the respective port. Please confirm? | <i>While the respective Ports will be constructing O&M building, services requirements (water, electrical power, lighting, communication, etc.) necessary for smooth functioning of the Scanner System will need to be conveyed in advance by the</i> |

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| | | | | <i>tenderer such that these are provided by the Ports.</i> |
| d) | Page No.-31 Section/Chapter – 3.22 Title - POST WARRANTY MAINTENANCE | At least one engineer should be present, per shift, during the operation of DTCS. | It is assumed that the “shift” is based on 24 x 7 operation. Please confirm? Please confirm that the 1 x Engineer to be present is based on 1 x Engineer per site and not 1 x Engineer on call at a central location in India. | <i>Scanner system will be operating on 24 x 7 basis. Normally, each ‘shift’ is of 8 hours duration. Thus, one engineer of tenderer should be available in each shift at each site of installation.</i> |
| e) | Page No.- 36 & 38 Section/Chapter – 4.2.15.(f) & 4.2.25.(b) Title - Data Image Processing & Data Management | “.... Capable of storing the scanning records information for at least 1,00,000 containers....) It must be possible to store information about at least 10,00,000 scanned objects at each site of installation before transportation to the central server | Can it please be confirmed the quantity of image storage required at the local sites? Can it please be confirm the quantity of image storage at the central server? Can it be confirmed when the information must be transported from the local sites to the CBEC in Delhi? | <i>Quantity of images & data has been specified, file size containing these images will be tenderer dependent.</i> <i>Quantity of images & data has been specified, file size containing these images will be tenderer dependent.</i> <i>Frequency of information transport will be decided later, based on the file size, in consultation with Customs dept.</i> |
| f) | General Query | | The supplier being foreign entity it may please be noted that the equipment will be imported in the name of Purchaser. However all necessary arrangements like, customs clearance and delivery of equipment at site will be completed by the supplier or its local representative. This means that IEC Code of the purchaser will | <i>Yes, the understanding is correct. Respective Ports will be requested to obtain IEC code and furnish the same to IPA.</i> |

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| | | | be used for import and customs clearance of the equipment, please clarify. | |
| g) | General Query | | The Civil work is not to the scope of the supplier, hence any delay in completion of civil work should be attributable to supplier of the equipment and the delivery and completion of overall project to be extender if it is required due to delay in completion of civil work , please clarify. | <i>While the supposition is correct, this should not be considered in slowing/ delaying the manufacturing, conducting FAT and dispatch of the equipment.</i> |
| 2. | Name of Firm : M/s Shanghai Rays Electronics Science & Technology Co. Ltd | | | |
| a) | Page No.-11 Section/Chapter – 1.31 Title - | Earnest Money Deposit (EMD) of Rs. 2.40 Crore | Foreign Bidder shall be allowed to submit EMD in foreign currency. | <i>Rs.2.40 Crore or USD 350,000 in the form of BG from scheduled commercial bank operating in India as stipulated in the clause.</i> |
| b) | Clause 1.7,Page 8 | The tenderer should have a satisfactory establishment directly through its Indian subsidiary or in collaboration with an Indian firm to install, commission, maintain, repair and to provide technical support for Drive- through container scanner during warranty period and on a CAMC after warranty period and provide product support. The Indian collaborating firm should have prior experience of installing and/ or maintaining similar electronic, imaging & security systems in India. The terms of service level agreement entered by OEM with the Indian maintenance entity shall be submitted in the technical bid. The decision of the Tender Evaluation Committee as to whether the establishment is satisfactory shall be final. | Point 1.7 – For Foreign OEM – The tender should set-up a satisfactory establishment in India directly, if the tender is awarded to Foreign OEM, but before the actual supply of equipment to India and shall be responsible to install, commission, maintain, Repair and to provide technical support and provide product support and should extend a CAMC after period and provide product support along with an Indian subsidiary. | <i>Tender condition prevails.</i> |
| c) | Section 4,Page 34 | Manufactured by a worldwide leading producer | We only have one year accelerators | <i>Tender condition prevails.</i> |

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| | Clause 4.2- System Requirement Point 1.X-Ray Generator – Point b | of accelerators with proven experience of more than 7 years | experience. Hence IPA should consider to relax the experience criteria to enable wider participation from other OEMS who are able to supply more sophisticated and state-of-art-technology driven equipment for the smooth /effective/ efficient day –today operations. | |
| d) | Section 4,Page 35 Clause 4.2- System Requirement Point 8-Material discrimination | Material discrimination: a) Capability / to distinguish (based on color coding) between low-Z organic, low-Z inorganic, high- Z inorganic, Very high-Z inorganic, and intermediate materials. Details of test device and test procedure to be furnished with tender. b) Analysis system should be capable of estimating the atomic number of the material interactively at image viewing station. | We don't have this function at present. But we expect some relaxation for new and interested bidders to take active participation enabling them to meet the required specification before the actual supply of the equipment takes place. | <i>Tender condition prevails.</i> |
| e) | Section 4,Page 35 Clause 4.2- System Requirement Point 9- Threat detection | Threat detection: Image processing should be capable of assisting the operator in threat detection and identification. Colorization based on atomic number for the assisted recognition of threats should be available. | We don't have this function at present. But we expect some relaxation for new and interested bidders to take active participation enabling them to meet the required specification before the actual supply of the equipment takes place | <i>Tender condition prevails.</i> |
| f) | Section 4,Page 35 Clause 4.2- System Requirement Point 10- Density threshold alert | Density threshold alert: It should be possible to alert the operator of presence of non-penetrating materials based on programmable density threshold along with audio alarm | We don't have this function at present. But we expect some relaxation for new and interested bidders to take active participation enabling them to meet the required specification before the actual supply of the equipment takes place. | <i>Tender condition prevails.</i> |
| g) | Section 4,Page 35 Clause 4.2- System Requirement | Release/Hold decision: Should have the capability to tag an image as suspect or 'non-suspect' and store the decision with the image | We don't have this function at present. But we expect some relaxation for new and interested bidders to take active | <i>Tender condition prevails.</i> |

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| | Point 11- Release/Hold decision | data set. | participation enabling them to meet the required specification before the actual supply of the equipment takes place. | |
| h) | Section 4,Page 38 Clause 4.2- System Requirement Point 20- Regulatory requirements for Radiation Safety- (a) | Drive-Through X-Ray container Scanner System must comply with the regulations of Atomic Energy Regulatory Board (AERB) of India | We don't have AERB | <i>The system has to comply with the regulation of AERB of India. Tender condition prevails.</i> |
| i) | Section 4,Page 39 Clause 4.2- System Requirement Point 31- Cargo Viewing | Cargo Viewing | We don't have this function at present. But we expect some relaxation for new and interested bidders to take active participation enabling them to meet the required specification before the actual supply of the equipment takes place. | <i>Tender condition prevails.</i> |
| j) | Section 4,Page 40 Clause 4.3- Technical Requirement Point 4- System (a) | Scanner & its associated systems should be of proven design having worked in actual field conditions for immediate past three years. | We don't have this function at present. But we expect some relaxation for new and interested bidders to take active participation enabling them to meet the required specification before the actual supply of the equipment takes place. | <i>Tender condition prevails.</i> |
| k) | Section 4,Page 41 Clause 4.3- Technical Requirement Point 16- UPS | UPS: A true on- line, double conversion UPS system of sufficient ratings complete with backup batteries to enable continuation of full scanning operation (i.e. scanner system along with support systems for 30 minutes) after failure of power shall be provided by the bidder. | We can apply UPS only for IPC for 30 minutes | <i>Tender condition prevails.</i> |
| l) | | Closing date and time for receipt of Tender Online Time :1300 Hrs; Date :19-12-2016 | Please extend the date of submission of last date from 19-12-2016 to 30-12-2016. | <i>Since, Project has to be implemented in time bound manner .Therefore, no further extension.</i> |
| 3. | Name of Firm : M/s Khemka Instruments Pvt Limited(M/s PowerScan Company Ltd, China) | | | |
| a) | General Query | | One of our renowned overseas Principals- | <i>Since, Project has to be</i> |

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| | | | M/s PowerScan Company Ltd, China have shown their interest for participation in the above mentioned Tender. In fact, our principals have arrived earlier at New Delhi for attending pre-bid Meeting on 16th Nov, 2016 and they have learnt that the due date for Pre-bid Meeting has been extended. Due to short transit by them they have insisted upon to request you on their behalf for extend the due date for submission of the offer upto 3/4 weeks later from the Due date i.e. 19th Dec, 2016. | <i>implemented in time bound manner .Therefore, no further extension.</i> |
| 4. | Name of Firm : M/s PowerScan Company Ltd | | | |
| a) | General Query | | Submission time is too short to complete the whole tender document preparation, we are kindly requesting you to extend the due date for submission of the offer up to 3/4 weeks later from the due date i.e.19th Dec, 2016. | <i>Since, Project has to be implemented in time bound manner .Therefore, no further extension.</i> |
| b) | Clause 1.9 | 'The tenderer should have manufactured & supplied and/or installed & commissioned at least 2 (two) Drive-through Container Scanner Systems abroad in the last five years.' | If the tenderer is a local manufacturer instead of an OEM who is authorized to submit the tender, and if the OEM has manufactured & supplied more than two systems in the last five years as requested, is the local manufacturer eligible to be the tenderer? | <i>Tenderer has been defined under Clause 1.6 Section-1. Hence, your position as a tenderer may please be ascertained.</i> |
| 5. | Name of Firm : M/s Leidos Inc | | | |
| a) | General Query | | Please clarify whether the financial accounts prepared on the basis of Non-GAAP standards, i.e. per Indian Accounting Standards shall be acceptable by IPA. | <i>Financial Accounts prepared on the basis of Accounting Standards of the country where the bidder is located, shall be acceptable. However, Financial Accounts prepared</i> |

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| | | | | <i>on the basis of GAAP as well as Non GAAP Accounting principles are acceptable provided the same are duly audited by the Certified Public Accountants.</i> |
| b) | Page 34 System requirement #5. Wire detect ability | 1 mm or better (in free air). Details of test device & procedure to be furnished with tender | <p>Request that the requirement reflect a range of 1 mm – 5 mm (in free air) or better. Global manufacturers may slightly vary their product’s wire detectability to achieve greater throughput of 150-300 vehicles per hour.</p> <p>The footprint of the system is suggested to be reduced to the minimum. Since we are all are aware that the real estate in the ports is very limited and expensive and the reduced operating footprint improves the ports efficiency and profitability.</p> <p>The radiation exclusion zone is suggested to reduce to the minimum. The radiation exclusion zone, similar to the footprint of the actual system is a use of the port’s real estate and is equally important to reduce to increase the port’s efficiency and profitability.</p> | <p><i>Tender requirement prevails. Specified through-put requirement is from the Scanner Facility and not from the Scanner System alone</i></p> <p>---- do ----</p> <p>.</p> <p><i>As this, the Scanner System is expected to be with radiation shielding arrangement, foot print specified in the tender is available.</i></p> |
| c) | Page 34 System requirement #6. Contrast sensitivity | 1% or better behind 100 mm of steel. Details of test device & procedure to be furnished with tender. | <p>Request that the requirement reflect a range of 1% – 3 % or better behind 100 mm of steel.</p> <p>Global manufacturers may slightly vary their product’s contrast settings to achieve</p> | <p><i>Tender requirement prevails.</i></p> <p><i>Specified through-put requirement is from the</i></p> |

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| | | | <p>greater throughput of 150-300 vehicles per hour.</p> <p>The footprint of the system is suggested to be reduced to the minimum. Since we are all are aware that the real estate in the ports is very limited and expensive, a reduced operating footprint improves the ports efficiency and profitability.</p> <p>The radiation exclusion zone is suggested to reduce to 8 meter wide by 10 meter along the lane. The radiation exclusion zone, similar to the footprint of the actual system is a use of the port's real estate and is equally important to reduce to increase the port's efficiency and profitability.</p> | <p><i>Scanner Facility and not from the Scanner System alone.</i></p> <p><i>As this, the Scanner System is expected to be with radiation shielding arrangement, foot print specified in the tender is available. .</i></p> <p>---- do ----</p> |
| d) | Page 34 System requirement #7 Spatial resolution | 5 mm (horizontal & vertical) or better at any location at the centre of the container. Details of test device & procedure to be furnished with tender. | <p>Request that the requirement reflect a range of 5 mm – 10 mm (horizontal & vertical) or better at any location at the centre of the container.</p> <p>Global manufacturers may slightly vary their product's resolution to achieve greater throughput of 150-300 vehicles per hour.</p> <p>The footprint of the system is suggested to be reduced to the minimum. Since we are all are aware that the real estate in the ports is very limited and expensive, a reduced operating footprint improves the ports efficiency and profitability.</p> | <p><i>Tender requirement prevails.</i></p> <p><i>Specified through-put requirement is from the Scanner Facility and not from the Scanner System alone.</i></p> <p><i>As this, the Scanner System is expected to be with radiation shielding arrangement, foot print specified in the tender is adequate.</i></p> |

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| | | | The radiation exclusion zone is suggested to reduce to the minimum. The radiation exclusion zone, similar to the footprint of the actual system is a use of the port's real estate and is equally important to reduce to increase the port's efficiency and profitability. | ---- do ---- |
| e) | Page 35 System requirement #13 Detectors | b) Detector's size facing the X-ray beam shall not be larger than 5 mm x 5 mm (smaller detector size will be preferred). Mounting architecture of the detector modules, maintenance required and replacement method in the case of service should be specified. | Request that this requirement be removed. The performance of the machines should be of interest not the size of the internal components. It should be the discretion of the global manufacturers to use the detectors that ensure maximum performance. It doesn't matter whether detectors are 5mm or more. | <i>Tender requirement prevails.</i> |
| f) | Page 29 Sections 3.7 Site Works & Services | Site preparation works (except those relating to radiation & equipment safety, CCTVs for DTCS, data communication, networking – local & remote) will be carried out by respective Ports. Civil construction pertaining to shielding arrangement, weigh-bridge, OCR, if any, will be carried out by the respective Ports, as per the requirement of the Supplier. Approvals, as necessary, for site preparation works will be obtained by the respective Ports. | Please confirm that the civil work related to the foundation of the machine offered will be prepared by individual ports and the global manufacturers will provide a drawing for the civil works to the individual ports. Please confirm that the civil works for the weigh bridge will be prepared by the ports with the use of the global manufacturers' drawings. | <i>Civil works for foundations of the machine offered will be undertaken by the respective Ports, provided details design and drawings are furnished by the tenderer.</i> ---- do ---- |
| g) | Page 35 System Requirement #10 Density threshold alert | It should be possible to alert the operator of presence of non-penetrating materials based on programmable density threshold along with audio alarm. | Request the requirement change to remove the audio alarm as global manufacturer's systems alert the operator by a visual alarm. | <i>Tender requirement prevails</i> |

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| h) | General Query | Date of Submission: December 19, 2016 | Due to Thanks Giving holidays and forthcoming Christmas holidays in the United States, We request IPA to kindly extend the date of submission by 4 (Four Weeks) from December 19, 2016. | <i>Since, Project has to be implemented in time bound manner .Therefore, no further extension.</i> |
| 6. Name of Firm : M/s Empire Industrial Equipment | | | | |
| a) | Pg No. 36 of 95. Section IV — Specifications and Allied Technical Details. System Requirements. 5. Wire Detect Ability. | 1 mm or better (in free air). Details of test device & procedure to be furnished with tender. | We request you to amend the requirement to 5 mm or better. To the best of our knowledge, no manufacturer can match requirement as it is too low. It is not possible to detect 1 mm for any cargo/container scanner. | <i>Tender requirement prevails</i> |
| b) | Pg No. 36 of 95. Section IV — Specifications and Allied Technical Details. System Requirements. 6. Contrast Sensitivity. | 1% or better behind 100 mm of steel. Details of test device & procedure to be furnished with tender. | We request you to amend the requirement to 5% or better behind 100 mm of steel. To the best of our knowledge, no manufacturer can match this requirement as it is too low. It is not possible to detect 1% behind 100 mm of steel for any cargo/container scanner. | <i>Tender requirement prevails</i> |
| c) | Pg No. 37 of 95. Section IV — Specifications and Allied Technical Details. System Requirements. 9. Threat Detection. | Image processing should be capable of assisting the operator in threat detection and identification. Colorization based on atomic number for the assisted recognition of threats should be available. | The colorization feature is not available in cargo/ container scanners. It is not advisable as the dosage required is very high and not recommended for Drive Through type of Scanners. We request you to remove the colorization feature. | <i>Tender requirement prevails</i> |
| d) | Pg No. 37 of 95. Section IV — Specifications and Allied | It should be possible to alert the operator of presence of non-penetrating materials based on programmable density threshold along with | This feature is manufacturer specific. We have an alert on the display screen of the operator. | |

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| | Technical Details. System Requirements. 10. Density Threshold Alert. | audio alarm. | We request you to amend the requirement as: "It should be possible to alert the operator of presence of non-penetrating materials based on programmable density threshold along with suitable alert on display screen/audio alarm." | |
| e) | Pg No. 38 of 95. Section IV — Specifications and Allied Technical Details. System Requirements. 14. Image Processing. | Connectivity to Purchaser's EDI system for data/ image retrieval and processing | What exactly is the EDI system? What kind of integration or connections has to be done? More clarity on this requirement | <i>Requirement is amply clear. System architecture has also been given. Tender condition prevails.</i> |
| f) | Pg No. 40 of 95. Section IV — Specifications and Allied Technical Details. System Requirements. 20. Image Processing. | Appropriate failsafe electrical, electronic and optical mechanisms shall be put in place, such that the radiation exposure to driver does not exceed the limit prescribed by AERB for the purpose. | We request you to please mention the limits prescribed by AERB for the purpose. | <i>Tenderer may visit AERB web site or interact with AERB and obtain required information.</i> |
| g) | Pg No. 41,42 of 95. Section IV — Specifications and Allied Technical Details. System Requirements. 31. Cargo Viewing. | The software should be able to alert the operator, in case of some contraband or any targeted commodity is encountered during scanning | The auto detection feature is not present in the cargo/container scanners. This is purely the judgement of the operator based on the experience. As there will be a lot of images taken and stored in the library, it is the duty of the operator to be well equipped to distinguish between various objects and contraband using library pictures as reference. Automatic detection is not available for Cargo or Container Scanners. | <i>Tender requirement prevails.</i> |
| h) | Pg No. 42 of 95. Section IV — | Scanner & its associated systems should be of proven design having worked in actual field | All manufacturers consistently strive to improve their technology according to | <i>Tender requirement prevails.</i> |

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| | Specifications and Allied Technical Details. 4.3 Technical Requirements. 4. System. | conditions for immediate past three years. | change in demands. We request you to amend the following clause as "Scanner & its associated systems should be of proven design having worked in actual field conditions in the past." And not specifically last three years. As there could be manufacturers who have recently incorporated changes in their scanning system. | |
| i) | Pg No. 44 of 95 Section IV — Specifications and Allied Technical Details. 4.3 Technical Requirements. 20. Software & Software Upgrade | Should be provided with copies of as-built software in executable code that are installed in the system at all levels. | It is not possible to provide the software code, because it is part of the core technology of the system. No manufacturer will be ready to disclose of their technology to the other. We request you to remove this clause. | <i>Tender requirement prevails.</i> |
| j) | Pg No. 44 of 95. Section IV — Specifications and Allied Technical Details. 4.3 Technical Requirements. 20. Software & Software Upgrade. | Should be able to customize some portion of software to meet specific operational requirements, when arise any, of the Purchaser. | This requirement is unclear. Although changes can be made to the software, it will be dependent on the Purchaser's demand and the ability to incorporate that change in the software. It may not be possible to incorporate anything/everything which the Purchaser wants. So it should be noted by the Purchaser that the customizing the software is possible but not guaranteed. | <i>Tender requirement prevails.</i> |
| 7. | Name of Firm : M/s Smiths Detection | | | |
| a) | Clause 1.79 Stages and method of | Advance *Up to 20% of ex-duty/ tax cost. | We request for advance payment of up to 35%. We also request you to make another | <i>No change, tender condition prevails</i> |

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| | Payment The Purchaser will pay the Supplier the following amounts, if the Supplier completes the work at each stage and produces billing documents | (as soon as possible after signing the contract) | Mile Stone payment of 20% upon FAT or dispatch from factor | |
| b) | Page No.- 22 Section – 2 Clause 2.12 | If any defective goods are repaired] rectified or replaced during the warranty period, the warranty for such goods shall be extended to a further period of twenty four months from the date such repaired, rectified or replaced goods start functioning to the satisfaction of the Purchaser | Indefinite warranty? Needs to be removed or changed | <i>These are `General Conditions of Contract' duly vetted by Ministry of Law and meant to be adopted in Government tenders. Tender conditions prevail.</i> |
| c) | Page No.- 24 Section – 2 Clause 2.39 | liquidated damages 0.5% percent of the delivered price of the delayed goods and/or services for each week of delay or part thereof subject to a maximum deduction of 10% percent of contract price | This can be for supplies and not for warranty services. Shall be rephrased accordingly. | <i>These are `General Conditions of Contract' duly vetted by Ministry of Law and meant to be adopted in Government tenders. Tender conditions prevail.</i> |
| d) | Page No.28 SECTION 3-SCHEDULE OF REQUIREMENTS Clause 3.4 | Operator training at each site ten customs officers. Once every six months during the warranty and CAMC period. The training should take place in an environment where each participant has access to a workstation of his/her own. | Costing to be so [10 workstations for training? What will be No. of workstations supplied along with the machine. Training software license for each site for 10 nodes?] | <i>Number of work stations to be supplied at each site of installation is given Clause 4.2 [15 (b)]. Tenderer may suitably decide on training software licenses. Tender condition prevails.</i> |
| e) | Page No.31 SECTION 3-SCHEDULE OF REQUIREMENTS Clause 3.23 | non-operational continuously beyond 24 hours, 1% of the CAMC charges will be deducted for ever such da or part thereof | Clause 3.18 are having different LD clauses. Dual penalty can't be thus this needs to be removed or capped. | <i>Clause 3.18, 3.23 & 3.24 are mutually exclusive. Tender condition prevails.</i> |

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| f) | Page No.31 SECTION 3-SCHEDULE OF REQUIREMENTS Clause 3.24 | The Supplier or, as the case may be, the maintenance contractor shall carry out preventive maintenance visits at least once in 6 months. For every failure to carry out a preventive maintenance, 2.5% of the CAMC charges will be deducted | There is no cap specified; cap should be cumulative for both CM & PM as 5% mentioned at 3.18 | <i>Clause 3.18, 3.23 & 3.24 are mutually exclusive. Tender condition prevails.</i> |
| g) | Page 34 SECTION 4 SPECIFICATIONS AND ALLIED TECHNICAL DETAILS Clause 4.2 –System Requirement Point No. 4 –Penetration | Minimum 320 mm of steel | The standard penetration is 300 mm, we request to change from 320 mm steel penetration to 300 mm steel penetration | <i>Tender requirement prevails.</i> |
| h) | Page 34 SECTION 4 SPECIFICATIONS AND ALLIED TECHNICAL DETAILS Clause 4.2 –System Requirement Point No. 5 - Wire detect ability | 1 mm or better (in free air), Details of test device & procedure to be furnished with tender. | We request for reference of standard specifications. | <i>Reference code & standards are given in Clause 4.3 (7).</i> |
| i) | Page 34 SECTION 4 SPECIFICATIONS AND ALLIED TECHNICAL DETAILS Clause 4.2 –System Requirement Point No. 6 - Contrast sensitivity | 1% or better behind 100 mm of steel. Details of test device & procedure to be furnished with tender. | We request for reference of standard specifications. | <i>Reference code & standards are given in Clause 4.3 (7).</i> |

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| j) | Page 35 SECTION 4 SPECIFICATIONS AND ALLIED TECHNICAL DETAILS Clause 4.2 –System Requirement Point No. 8 - Threat detection | Image processing should be capable of assisting the operator in threat detection and identification. Colorization based on atomic number for the assisted recognition of threats should be available. | We request for reference of standard specifications. | <i>Reference code & standards are given in Clause 4.3 (7).</i> |
| k) | Page 37 SECTION 4 SPECIFICATIONS AND ALLIED TECHNICAL DETAILS Clause 4.2 –System Requirement Point No. 16 - Net-working | System should permit export of the image as a .pdf or Jpeg or .tiff file to the Purchasers computer or hand held devices, in a pre-defined folder for further processing in the Purchaser's systems. System should enable remote login with full functionality into the server by officers from anywhere in the country. The viewing of the image at the remote workstation will be user selectable. | Based on customer's operating systems and network capability. | <i>Query is not clear. Tender requirement prevails.</i> |
| l) | Page 38 Section – 4 Specifications and Allied Technical Details Clause 4.2 –System Requirement Point No. 20 - Regulatory requirements for Radiation Safety | a. Drive-through X-ray Container Scanner System must comply with the regulations of Atomic Energy Regulatory Board (AERB) of India and Supplier should produce a no-objection certificate (NOC) from AERB along with the Tender or prior to completion of technical evaluation of the offers. b. Radiation dose at the exclusion zone boundary shall not exceed as prescribed by AERB. | We request for providing list of requirements from Atomic Energy Regulatory Board (AERB) of India | <i>Tenderer may interact with AERB based on the scanner system proposed to be offered by him.</i> |
| m) | Page 41 Section – 4 Specifications and Allied Technical Details | a. A true on-line, double-conversion UPS system of sufficient ratings complete with backup batteries to enable continuation of full scanning operation (i.e. scanner system | We request to reduce the back up to 15-20 minutes. | <i>Tender requirement prevails.</i> |

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| | Clause 4.3 – The Drive-through X-ray Container Scanner System and its associated systems and equipment should meet the following technical features: Point No. 16 - UPS | along with support systems) for 30 minutes after failure of power shall be provided b the Bidder. | | |
| n) | Page -30 Clause 3.13-Delivery | After successful completion of tests and trials, the Supplier shall deliver the Drive-through Container Scanner System and all related equipment, operation manuals, construction drawings, quality assurance reports, reference documents, etc. to the user Customs Commissionerate and Port authorities. The delivery will be completed when the Supplier and the Port authorities sign the Certificate of Delivery and Acceptance as provided in Form 8. Decisions of the Purchaser as to compliance or non-compliance with the requirements shall be final and binding upon both parties hereto. | It is suggested that Delivery must be done in milestones. 1) Physical delivery of FAT equipment at site of installation. It should be linked to partial payment to improve cash flow for supplier. As any delay in acceptance by authorities due to any reason will have impact on financial conditions of supplier. 2) Delivery of services. (Installation and Commissioning). Should be linked to partial payment as SAT and actual acceptance of site by authorities can have long waiting period as well. 3) Period between SAT + training one month Operational trial and actual signing of acceptance of equipment should be either fixed and warranty should start effective that due date. No operations will happen during that period and payment will be released based on SAT considering delivery of equipment 4) Mutual acceptance of local construction works before shipment of equipment. | <i>The equipment delivery is on 'turnkey' basis, comprising of various stages, which are interlinked. Hence, breaking delivery on milestone basis would not be feasible. Tender condition prevails.</i> |

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| | | | 5) Any delay on completion of civil works for receipt of equipment should not be transferred or linked to delay in physical delivery of equipment or overall delivery | |
| o) | Page -30 Clause 3.14-Delivery Schedule | The Supplier shall deliver the Drive-through Container Scanner System along with Site works, as required, to the Port authorities within 15 fifteen months from the date of notification of award | Noted. Please refer remarks in section 3.13. | <i>Refer to the response provided under Clause 3.13.</i> |
| p) | Page -30 Clause 3.15- TERMS OF DELIVERY | Until the delivery is completed, the DTCS and all its associated systems & equipment are the responsibility of the Supplier, Accordingly, its packing, transport, insurance, clearance through Customs, handling, maintenance and upkeep until the delivery shall be to the responsibility of the Supplier and to his account. | 1) Delivery of services, (Installation and Commissioning). Should be linked to partial payment as SAT and actual acceptance of site by authorities can have long waiting period as well. 2) Period between SAT + training, one month Operational trial and actual signing of acceptance of equipment should be either fixed and warranty should start effective that due date. No operations will happen during that period and payment will be released based on SAT considering deliver of equipment. | |
| q) | Page -30 Clause 3.16- TERMS OF DELIVERY | Any loss or damage to the Drive-through Container Scanner (Road) System & associated equipment during handling, transportation, etc. until completion of delivery shall be to Supplier's account The Supplier shall be responsible for preferring of all claims and make good for the damage of loss by way of repairs and/or replacement of the portion of equipment damaged or lost. | Noted. Equipment once received on site should also be responsibility of Customer, as any damage done at site due to reasons not pertaining to supplier should not be considered or transferred to supplier. (like unfinished civil works causing physical damage of equipment security of equipment is within preview of customer, as area is not entirely in control of supplier.) | <i>Tenderer may request for a safe and secure place to store the equipment till installation and commissioning is carried out by him. Tender condition prevails.</i> |

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| r) | Page -30 Clause 3.17- Progress and Monitoring | Within 15 days of the notification of award of contract, the Supplier should submit a detailed Time Bar Chart/PERT chart covering key phases of design manufacture, inspection & testing, site works, supply, installation and commissioning of the OTCS and its associated systems & equipment If the Purchaser so requires, the Supplier shall discuss the Time Bar IPERT Chart with the Purchaser and revise it, Time Bar Chart/PERT Chart will be used to periodically review the progress of the project, The Purchaser through its representatives may convene periodic monitoring meetings with the supplier/sub-contractors and other stakeholders, from time to time, to ensure that the construction and other activities are being carried out as per the specifications given in the contract. All key plans, detailed drawings, materials stipulated in requirements and workmanship entering into the making of the Systems may at all times be subject to inspection and tests by the Purchaser or his representative. The facilities, labour and materials necessary for the safe and convenient conduct of such inspection shall be furnished by the Supplier without extra charge. | Noted. Any delay in civil construction works or local approvals except equipment related approvals should not be transferred to supplier. Hence no LD clause should be applicable in that case. | <i>The observations could apply to the Tenderer as well as hence will be determined as the work progresses. Tender conditions prevail.</i> <i>Further, it may be noted that in-puts, requirements, design details, drawings, etc. for civil works to be carried out by the respective Ports shall need to be provided by the successful tenderer within 6 weeks of award of the contract.</i> |
| s) | Page -31 Clause 3.18- General Maintenance Requirements | The DTCS will be required to operate 24 X 7 and the Supplier shall offer satisfactory service during warranty period of two years and post warranty maintenance under CAMC for eight years the Supplier should either have his own service set- up in India or he should appoint as | Rectification. The statement "Penal charges @ 50% of the AMC charges per hour for the period (number of hours) for which DTCS remained non-operational beyond free time i.e. 5% of the total time in a year, subject to a maximum of 5% of the AMC | <i>Tender condition prevails.</i> |

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| | | <p>'Maintenance Contractor' any indigenous manufacturer / reputed contractor who is to capable maintain the DTCS and its associated systems & equipment, The Supplier must indicate in the offer the name of the maintenance contractor and enclose a copy of the agreement with them, The agreement must be valid for at least ten years. The availability of the scanner system should be better than 95% of the time in a year. 5 % time in a year is allowed for break down maintenance, which includes preventive maintenance. Penal charges @ 50% of the AMC charges per hour for the period (number of hours) for which DTCS remained non-operational beyond free time i.e. 5% of the total time in a year, subject to a maximum of 5% of the AMC charges shall be levied. CAMC shall be entered with the successful bidder bringing out modalities of apportionment of time required for break down as well as preventive maintenance.</p> | <p>charges shall be levied CAMC shall be entered with the successful bidder bringing out modalities of apportionment of time required for break down as well as preventive maintenance." If the penal charge @50% of AMC Charge per hour is charged then, limiting to 5% of AMC charges per annum is not applicable. The penal charges of 0.5% of AMC per hour should be applicable capping it to 5% of AMC charges beyond the allowed period of non-operational free time of 5% of total time.</p> | |
| t) | <p>Page -32 Clause 3.29- Purchaser's Right to Terminate the Maintenance Contract</p> | <p>Purchaser reserves its right to terminate the maintenance contract at any time without assigning any reason. The Supplier will not be entitled to claim any compensation against such termination. However, while terminating the contract, if any payment is due to the Supplier for maintenance services already performed in terms of the contract, the same shall be paid to him as per the contract terms.</p> | <p>The rational of termination and representation of facts to be considered for fully understand the cause of non-fulfilment of scope requirements as mentioned or outlined in this tender document. A fair chance of representation should be given.</p> | <p><i>Noted. Any such action will be taken after due deliberations and mutual discussions.</i></p> |
| u) | <p>Page -32 Clause 3.30- Software &</p> | <p>The Supplier shall agree to provide copies of as-built software in executable code that are</p> | <p>Any fixing or modification in already supplied version of software will be updated</p> | <p><i>Contention is in order.</i></p> |

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| | Software Upgrades | installed in the system at all levels. It shall also state the Hardware that needs to be in place for implementation ensuring that the system un-availability is minimal. The Supplier shall also comply and guarantee software upgrades for the service life of the scanner. Commercial image processing software, if used, should be provided with each set of the image inspection unit (work station) . | as per the case. Any new version of software for similar equipment can only be upgraded with up-gradation of equipment only as they require compatible hardware for these upgrades. | |
| v) | Page -32 Clause 3.31- Software & Software Upgrades | Taking into account the operational requirements of the Purchaser, there may be a need to customize some portion of the software. Supplier should agree for such customization, which is expected to be limited) at no extra cost | Noted. Any modification or fixation which does not require to write the software codes again or change the codes will be done limited to patch programs for connectivity etc. It is suggested that all connectivity compatibility of systems should be highlighted before start of manufacturing The system where connectivity is required must be indicated with sufficient details which can be considered before start of manufacturing to minimize the customization at later stage. The EDI and DMS connectivity interface requirements (detailed Summary and write up along with process flow chart) must be given prior to start of manufacturing. | <i>It is recommended that successful tenderer discusses the requirements of EDI & DMS (local & central) connectivity and obtain requisite information from the Purchaser before commencement of manufacturing of the scanner system so as to minimise customisation at a later stage.</i> |
| w) | Page -32 Clause 3.32- Software & Software Upgrades | Any software upgrades developed by the Supplier during the warranty and the post warranty period should be made available to the Purchaser at no extra cost and should be delivered and installed in a prompt and efficient manner. The Supplier should install and train the operator with software upgrades. | Refer to remarks in section SI No. 3.30 | <i>The clause is different from Clause 3.20. Tender requirement stays.</i> |

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| x) | Page -32 Clause 3.33- DISASTER MANAGEMENT | The supplier has to provide detailed disaster management plan to meet any eventuality, which may arise during the operation of DTCS. The disaster management plan should be elaborate, detailing the actions to be undertaken in the case of any emergency and/or disaster and defining the role of every authority and person during such a situation. | Any maintenance of equipment post disaster not attributing to supplier, will be charged extra and will be mutually agreed post assessment, The duration in this period till equipment comes to 100% pre-disaster status will not be considered in down time of equipment. The CAMC time will only start again post rectification from disaster. | <i>The disaster management plan is be provided by the tenderer to mitigate any eventuality during the operation of the scanner system. Tender requirements stays.</i> |
| y) | Page -33 Clause 3.35- DOCUMENTATION | The Supplier shall document design, manufacture, inspection, testing, site works & services, installation, commissioning, test & trials, operation & maintenance, quality assurance and delivery of Mobile X-ray Container Scanner and its associated systems & equipment. The complete documentation work shall be in English. | Noted, Any document related to detailed engineer and design which infringement to IP will not be shared. | <i>Extent of detailed engineering and other details required by the Regulator for reviews and by the Purchaser for reference & record will need to be provided. Tender condition prevails.</i> |
| z) | Section 4 - Specifications and Allied Technical Details Clause 4.2, Page No-34 Point 1-X-Ray Generator | a) Having adequate energy to provide penetration of minimum 320 mm of steel (typically, Dual energy: High – 6MeV (Nominal); Low–within a differential of 2 to 3 MeV. | We request for changing penetration from 320 mm of steel to 300mm of steel penetration as internationally accepted norm. | <i>Tender requirement stays.</i> |
| aa) | Section 4 - Specifications and Allied Technical Details Clause 4.2, Page No-34 Point 1- X-Ray generator | d) Focal spot should be as small as possible. Collimator must be installed for directing X-ray into a fan shape to reduce radiation scatter. Should be provided with beam-stopping aperture and a monitoring switch. | Not relevant – This is not a source and there is no beam stopping aperture but X-rays are stopped using one of the E-stops around the product | <i>Tender requirement is for normally available product.</i> |
| bb) | Section 4 - Specifications and Allied Technical Details Clause 4.2, Page No-34 Point 4- Penetration | Minimum 320 mm of steel | Request to change to 300mm of steel penetration | <i>Tender requirement stays.</i> |
| cc) | Section 4 Specifications | 1 mm or better (in free air). Details of test | Request to change to 2mm. | <i>Tender requirement stays.</i> |

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| | and Allied Technical Details Clause 4.2, Page No-34 Point 5- Wire detect ability | device & procedure to be furnished with tender. | | |
| dd) | Section 4 - Specifications and Allied Technical Details Clause 4.2, Page No-34 Point 6- Contrast sensitivity | 1% or better behind 100 mm of steel. Details of test device & procedure to be furnished with tender. | 2%. Request to change to 2% from 1%. | <i>Tender requirement stays.</i> |
| ee) | Section 4 - Specifications and Allied Technical Details Clause 4.2, Page No-35 Point 10- Density threshold alert | It should be possible to alert the operator of presence of non-penetrating materials based on programmable density threshold along with audio alarm. | No audio alarm is available. Request to remove this requirement. | <i>Tender requirement stays.</i> |
| ff) | Section 4 - Specifications and Allied Technical Details Clause 4.2; Page No-35 Point 12- Image quality & storage | c) Images in the original format should be able to open with Windows tools, or corresponding licence-free conversion software. | Image will be available in jpg. Request for changing this requirement. | <i>Tender requirement stays.</i> |
| gg) | Section 4 - Specifications and Allied Technical Details Clause 4.2, Page No-35 Point 13- Detectors | Detector's size facing the X-ray beam shall not be larger than 5 mm x 5 mm (smaller detector size will be preferred). Mounting architecture of the detector modules, maintenance required and replacement method in the case of service should be specified. | Available in 5x20mm. Request to change this as suitable for this type of equipment | <i>Tender requirement stays.</i> |
| hh) | Section 4 - Specifications and Allied Technical Details Clause 4.2, Page No-36 | a) Per site of installation, Image inspection station (IIS) must have a minimum of six sets of workstations (including two for remote location inspection) and provision to add at | This can only be possible with infrastructure provided by Customer connecting it with our main server. | <i>Requirements is to be furnished by the tenderer to meet the objective in the clause.</i> |

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| | Point 15- <i>Data/Image Processing Hardware</i> | least two more, if work load demands. | | |
| ii) | Section 4 - Specifications and Allied Technical Details Clause 4.2, Page No-37 Point 16- <i>Net-working</i> | d) System should permit export of the image as a .pdf or .jpeg or .tiff file to the Purchaser's computer or hand held devices, in a pre-defined folder for further processing in the Purchaser's systems. System should enable remote login with full functionality into the server by officers from anywhere in the country. The viewing of the image at the remote workstation will be user selectable. | JPG export is existing in a dedicated folder on the server. Customer can retrieve it using an USB device Remote access need further discussion and explanation from customer. | <i>USB devices will not be used for transport of data/ images. Requirements for remote access is amply clear any further discussions will be held with the successful tenderer. .</i> |
| jj) | Section 4 - Specifications and Allied Technical Details Clause 4.2, Page No-37 Point 17- <i>Redundancy features</i> | a) System should be designed and constructed with adequate redundancy provisions to avoid potential single point of failure from end-to-end process, resulting in non-availability of the system | Redundancy in terms of Image storage will be there. Request to list the specific redundancy required. | <i>Tenderer to indicate the provisions available in the offered system keeping in view the requirement in of clause. .</i> |
| kk) | Section 4 - Specifications and Allied Technical Details Clause 4.2, Page No-37 Point 18- <i>Sensors</i> | d) Sensors should detect presence of any car or other passenger vehicle; if accidentally pass through, so that these are not scanned. | Not existing. Need further discussion or explanation for understanding. | <i>Requirement is amply clear.</i> |
| ll) | Section 4 - Specifications and Allied Technical Details Clause 4.2, Page No-37 Point 18- <i>Sensors</i> | e) Sensors should be provided to detect the gap between the driver's cabin and the cargo container loaded on to the trailer, which could be as low as 500 mm. X-ray generator shall not be ON unless the driver's cabin has fully passed the scanner system and start of the container is recognized. | Scan will start 2.3 meters from detection of Windshield of truck. | <i>Tender requirement stays.</i> |
| mm) | Section 4 - Specifications and Allied Technical Details | c) Driver's cabin has completely passed the scanner and start of the container is detected. | Scan will start 2.3 meters from detection of Windshield of truck. | <i>Tender requirement stays.</i> |

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| | Clause 4.2, Page No-37 Point 19- Safety interlocks | | | |
| nn) | Section 4 - Specifications and Allied Technical Details Clause 4.2, Page No-38 Point 20- Regulatory requirements for Radiation Safety | a) Drive-through X-ray Container Scanner System must comply with the regulations of Atomic Energy Regulatory Board (AERB) of India and Supplier should produce a no-objection certificate (NOC) from AERB along with the Tender or prior to completion of technical evaluation of the offers. | System is CE certified. Request to provide the AERB requirements and regulations. | <i>Tenderer may visit AERB web portal or interact with AERB based on the scanner system proposed to be offered by him.</i> |
| oo) | Section 4 - Specifications and Allied Technical Details Clause 4.2, Page No-39 Point 31- Cargo viewing | c) The software should be able to alert the operator, in case of some contraband or any targeted commodity is encountered during scanning | Limited options are available under this requirements. | <i>Tender requirement stays.</i> |
| pp) | Section 4 - Specifications and Allied Technical Details Clause 4.3, Page No-42 Point 20- Software & software upgrade | a) Should be provided with copies of as-built software in executable code that are installed in the system at all levels. | Restricted. | <i>Tender requirement stays.</i> |
| | | b) Should be able to customize some portion of software to meet specific operational requirements, when arise any, of the Purchaser. | Restricted. | <i>Tender requirement stays.</i> |
| | | c) Should have guaranteed supply of software upgrades for the service life of the scanner. Commercial image processing software, if used, should be provided with each set of the image inspection unit (work station). | IP restrictions. | <i>Tender requirement stays.</i> |
| | | d) Any software upgrades developed by the Supplier during the warranty and the post warranty period should also be made available promptly, installed and operators trained with software upgrades | Restricted. Customer will be provided with latest updated version during commissioning of system which will be effective throughout. | <i>Tender requirement stays.</i> |
| qq) | Section 4 - Specifications | a) Total area within exclusion zone should be | In port authority scope. | <i>Tenderer shall provide design</i> |

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| | and Allied Technical Details Clause 4.3, Page No-42 Point 21- <i>Site works within Scanner Facility</i> | laid with adequately designed RCC pavement, except some portion which should be kept green. | | <i>details & drawings and any other requirement for smooth functioning of the scanner system and to provide requisite performance.</i> ---- do ---- |
| | | b) Exclusion zone should be fenced from all sides and two gates for entry and exit of the trucks should be provided. In addition, Scanner Facility should be provided with boundary wall with entry & exit gates. | In port authority scope. | |
| | | c) Access roads to the site of Scanner Facility should also be provided to facilitate entry and exit of the trucks- trailers. | In scope of port authorities. | ---- do ---- |
| | | d) Structure/ building should be designed for site specific strata and should meet the requirements of seismic design criteria as per the seismic zone in which each site falls. RCC work in the Facility should be of M30 grade. | In scope of port authorities. | ---- do ---- |
| 8. | Name of Firm : M/s Nuctech Company Limited | | | |
| a) | General query | | Who is responsible for operating Room site work? Respective port or tenderer? | <i>Respective Ports will be responsible for the construction of operating rooms as per design details & drawings provided by the tenderer. Further, services requirements (such as water, electrical power, lighting, communication, etc.) necessary for smooth functioning of the Scanner System will also need to be</i> |

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| | | | | <i>conveyed in advance by the tenderer such that these are provided by the Ports.</i> |
| b) | General query | | Who is responsible for the internet connection for the remote image check station? | <i>Tenderer shall be responsible for the transport of images & data to remote image check stations, servers (local & central) as required in the tender document.</i> |
| c) | General query | | Who is going to supply 125m x 50 m surveillance facility? | <i>Scanner Facility boundary surveillance will be provided by the respective Ports. Scanner system's surveillance will be the responsibility of the tenderer.</i> |