

# Registration Excise and Prohibition Department

Vikash Bhawan, New Secretariat,

Bailey Road, Patna-01

Tender No: Excise/FBTSS-2016/03 dated 11th June 2016

## Replies to pre-bid queries of the bidders as per the pre-bid meeting held on 17 June 2016

S. No.	Name of the Bidder	RFP Document Reference(s) (Section & Page Number(s))	RFP Document Section (s)	Content of RFP requiring Clarification(s)	Points of clarification	Replies
1	L-3 Communications-Security & Detection Systems	General Query	General Query	General Query	1. We see all the commercial transaction within the scope of this tender to be in Indian Rupees only. Since the tender is a global RFP, option should be provided to bid in US Dollars as well.	Bids can be accepted in US Dollars, provided currency conversion into rupees at all the stages of payments to be done at a predecided exchange rate, mentioned by the bidder.
2	Coxswain	Section 1( INTRODUCTION)	Introduction Section 1.1	Department of Registration, Excise and Prohibition, Government of Bihar, invites Global Tenders ONLINE on <a href="https://eproc.bihar.gov.in">https://eproc.bihar.gov.in</a> , in two cover procedure, valid up to 180 days from the date of opening of Tender, for Supply, Site preparation, Installation, Commissioning and Maintenance of 7 (seven) Nos. of X-ray based Full Body Truck Scanning System (FBTSS) for Truck/Trailer Mounted Cargo Containers and other Transport Vehicles as required and mentioned in the tender. Period of completion of the project is 3 months from the date of award of contract for each of the five check-posts.	Para 1.1 lays down the requirement as " Global Tender, for Supply, Site preparation, Installation, Commissioning and Maintenance of 7 (seven) Nos. of X-ray based Full Body Truck Scanning System (FBTSS) for Truck/Trailer Mounted Cargo Containers and other Transport Vehicles". It does not talks about supply of mobile scanner.	Specifications as applicable to mobile scanners are required. Specification related to relocatable, underground systems can be ignored. In Section 1.1 Definition of FBTSS can be read as X-ray based mobile Full Body Truck Scanning System.

4	Coxswain	Section 5 (Scope of work)	Section 5.1-C (i) (MODALITY OF PROJECT EXECUTION)	The Supplier shall supply the following goods and services. The cost of all of the following, except CAMC, shall be included in the bid for FBTSS: i. Supply, install and commission Seven Nos. of FBTS Systems along with three operators per mobile scanner	It talks of supply of FBTS System but there is a mention of operators per mobile scanner. Please clarify whether you have specific requirement of FBTSS or Mobile Scanners as they are two different products? If it is FBTSS as mentioned in Para 1.1 then please replace the word Mobile Scanner by FBTSS.	As above
5	Coxswain	Section 5.(SITE SERVICES)	Section 5.5	In case of mobile scanner no civil work is required	This para again talks of Mobile Scanner which should be FBTSS, In case of mobile scanners no civil work is required whereas in case of FBTSS civil work is required.	As above
6	Coxswain	Section 5 (DELIVERY SCHEDULE/TERMS OF DELIVERY)	Section 5.12	The supplier will have to deliver FBTS system including the scanner facility with site preparation, installation & commissioning and then entire system complete in all respect will be handed over to the end user after successful test and trials to following locations within the delivery period as mentioned in the chart below. The supplier must quote guaranteed delivery period for each location from the date of placement of contract for the above purpose, Location table provided in a table	In Para 1.1 there is mention of Seven (7) FBTSS but here in para 5.12 the guarantee delivery period for each location only mentions Five (5) locations. This discrepancy needs to be corrected for the correct number of installations.	The number of FBTSS required is Five for the provided location. In para 1.1 Seven FBTSS to be read as Five FBTSS

7	Coxswain	Section 6 (SPECIFICATIONS AND ALLIED TECHNICAL DETAILS)	Section 6 System Requirements	<p>The Mobile X-Ray Scanner will be self-contained and self-sufficient consisting of a 10 wheel truck, with 1 front axle and 2 rear axles with transmission x-rays, consisting of a high energy dual energy (6/4MeV) Linear Accelerator. This will also include all the necessary image processing, stowable Lshape boom with detector array, on-board inspector cab, on-board diesel generator and all safety equipment as specified in the following pages. The mobile x-rays scanner shall have two (2) modes of operation being:</p> <ol style="list-style-type: none"> <li>1. Drive-by – Where the mobile drives by the unoccupied target vehicle under inspection</li> <li>2. Drive-through – Where the mobile is stationary and occupied vehicles are driven through the L-shaped detector array.</li> </ol>	<p>The system requirements as specified in para 6 are apparently for Mobile Scanners and not for FBTSS. This is a big flaw in the RFP and leaves the tender completely flawed and needs to be re-done with correct specifications for FBTSS</p>	<p>Specifications as applicable to mobile scanners are required. Specification related to relocatable, underground systems can be ignored. In Section 1.1 Definition of FBTSS can be read as X-ray based mobile Full Body Truck Scanning System.</p>
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8	Godrej & Boyce Mfg Co Ltd	Section No. 6 ( SPECIFICATIONS AND ALLIED TECHNICAL DETAILS) & Page Number 15 &16. Appendix I Point No 2.2	System Requirements	<p><b>Height</b> : The internal dimensions of the detector boom height should be 5.1 meters, making it capable of scanning a target vehicle item up to height of 5.0 meters. <b>Width</b> : The internal dimensions of the detector boom width should be 3.8 meters, making it capable of scanning a target vehicle item up to a width of 2.6 meters.</p> <p><b>S. No-8 Scan Size</b> : A height of 0.3 meters above to the top of the truck/container without missing any area or corner cut-off. Max. size of object scanned: Width – 3.00 m or more; Height - 4.50 m or more; Length - 18.00 m</p> <p><b>S.No. 9.Max. Dim. of scanned vehicle</b> : Length:18.0m Width: 2.6m Height: 4.6m</p> <p><b>Point 2.2-</b> Scanning of truck/ truck mounted cargo container of sizes: 2.90 m Width, 4.50 m Height, 17.00 m Length and those of lesser dimensions.</p>	These items are different on dimension of target vehicles in the specification, according to road regulation, most vehicles shall meet Width – 3.00 m or more;Height - 4.50 m or more; Length - 18.00 m.Could you clarify the maximum dimension of target vehicle is 2.6m in Width; 4.6m in Height?	Maximum Dimensions Height 4.50 m, Width 3.00 m, Length 18.0 m
9	Godrej & Boyce Mfg Co Ltd	Section No. 6 ( SPECIFICATIONS AND ALLIED TECHNICAL DETAILS) Page Number 16, Point No 4 & Apendix I, Page 55 Point No. 9.1	System Requirements	<p><b>Point No 4-Penetration,</b> Minimum 320 mm of steel (at normal system scan speed ).</p> <p><b>Point No 9.1-</b> Image Quality Data-Varying steel plate thickness of 300 mm to 350 mm and behind 25 mm lead brick of size 100*100mm in steps of 10 mm located at the Floor, center and top of container levels.</p>	In the appendix 1, you demand thickness of 25mm lead brick behind the steel plate. Usually a total absorbed material is used for penetration test such as a 100mm thick lead brick. Could this item change to a thicker lead brick such as 100mm?	Minimum thickness required for lead brick behind steel is 25mm. Lead brick layer thickness more than that are acceptable.

10	Godrej & Boyce Mfg Co Ltd	Section No. 6 ( SPECIFICATIONS AND ALLIED TECHNICAL DETAILS) Page Number 15, 16 & 19. & Appendix I Page No 57 Point no 14.2	System Requirements	<p><b>Safety Zone</b> :Under no circumstances it shall exceed 50m long x 40m wide, based on scanning a single combined truck and 40ft container.</p> <p><b>Page 16 Point 18-</b> Standard mode: 41m(L)×31m(W) (for 18m scanning length) without any external shield materials. Drive by Mode:- 28m(L)×40m(W) (for scanning standard 40ft container vehicle) without any external shield materials.</p> <p><b>Page No 19-</b>Dose rate on the system Boundary ≤ 2.5 μSv/h. Point No 14.2</p> <p><b>Radiological &amp; Regulatory Requirements-</b> Radiation1microSv/hr.dose(instantaneous).at the exclusion zone boundary shall not exceed 1 microSv/hr. (instantaneous).</p>	<p>Respectively in the specification and appendix 1, the radiation dose boundary are different, the radiation protection area of 41m(L)×31m(W) for standard mode and 28m(L)×40m(W) for drive-through mode is based on item 19. Dose rate on the system Boundary ≤ 2.5 μSv/h. But if we take 1μSv/h to respect, and to keep a very good performance, the radiation protection area may be larger than 50m *40m. So could we follow the requirement of item 19 Dose rate on the system Boundary ≤ 2.5 μSv/h or could the requiredradiation protection area change to larger?</p>	<p>Radiological and regulatory requirements ,i.e. radiation limit of 1 μSv/h shall be effective. Respective increase in radiation protection area is acceptable. Civil work required for such extension shall be provided by the department.</p>
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11	Godrej & Boyce Mfg Co Ltd	Section No. 4 Definition Point No 4 & Section No 6 (Specification & Allied Technical Details) Page No 14 System Requirements		<p>“FBTSS” means X-Ray based <b>relocatable</b> type Scanner System, including OCR &amp; UV SS systems, for scanning of stationary Trucks/Truck mounted containers and requisite infrastructure required for operation &amp; maintenance.</p> <p><b>Page No 14</b>-The Mobile X-Ray Scanner will be self-contained and self-sufficient consisting of a 10 wheel truck, with 1 front axle and 2 rear axles with transmission x-rays, consisting of a high energy dual energy (6/4MeV) Linear Accelerator. This will also include all the necessary image processing, stowable L-shape boom with detector array, on-board inspector cab, on-board diesel generator and all safety equipment as specified in the following pages.</p>	<p>In P6, the definition of FBTSS is a relocatable system, and in Appendix-1, the whole test flow is based on a relocatable system which is not suitable for a mobile scanner. but all the specifications in P14~P17 is a mobile scanner. Is it a typo of the definition of the FBTSS and the appendix-1 requirement?          Could this definition change to “x. “FBTSS” means X-Ray based mobile type Scanner System for scanning of stationary Trucks/Truck mounted containers and requisite Infrastructure required for operation &amp; maintenance.”          Could we use the proposed FAT and SAT proposal instead of follow the appendix-1?</p>	<p>Specifications as applicable to mobile scanners are required. Specification related to relocatable, underground systems can be ignored. In Section 1.1 Definition of FBTSS can be read as X-ray based mobile Full Body Truck Scanning System.</p>
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12	Godrej & Boyce Mfg Co Ltd	Section No. 6 ( SPECIFICATIONS AND ALLIED TECHNICAL DETAILS) Page Number 17, 18 & 19		<p><b>Page No 17</b>-Parametric inspection and tests will be carried out as included in Appendix-1.</p> <p><b>Page No 18</b>- Submission of FAT document: Shall be made available to the Purchaser for review within three months of the notification of award.</p> <p><b>Page No- 19</b> Submission of SAT document: Shall be made available to the Purchaser for review within six months of the notification of award.</p> <p><b>Page No 52 Point No 2.7</b>- System should be equipped to capture the number of the container and convert it into characters with an efficacy of 95% or better. It should also capture the image of the number so that if there is an error,</p>	<p>According to the requirement, Appendix-1 shall be used for equipment tests. But the description in the appendix-1 is based on the re-locatable system and not suitable for the mobile system. However in P18, P19 also requires the supplier to submit a FAT and SAT flow document, could we follow the FAT and SAT document we submit and not follow the appendix-1?</p>	<p>Requirements suitable to mobile scanner, i.e.,SAT and FAT documents should be followed</p>
13	Godrej & Boyce Mfg Co Ltd	Appendix I Page No 53 Point No 2.9, 2.10,2.11,2.12	anning Condit	<p><b>Point No 2.9</b>- Under carriage imaging/scanning of the truck / carrier. Certification in respect of sensor, camera, protection rating, etc. to be provided. <b>Point No- 2.10</b> Correlation of under carriage image of the truck / carrier with the image obtained from the Scanner System.</p> <p><b>Point No 2.11</b>-Relocate ability- Assembly &amp; disassembly practices to enable easy relocation of the scanner system. Max. weight to be transported. <b>Point No 2.12</b>- Integration of measured weight of container with its image during scanning operation</p>	<p>In appendix 2.10 ~2.12 requires under carriage imaging system and measured weight system which are always fixed on the ground and not mentioned in the previous technical requirement, such system works in general with the re-locatable system and need to install in a fixed site. Please clarify this is a typo and will be deleted. We don't need to provide these functions.</p>	<p>Accepted, point 2.10,-2.12 can be ignored.</p>

14	Godrej & Boyce Mfg Co Ltd	Appendix I Page No 53 Point No 5.1 & 5.2	Hardware	<p><b>P53, 5.1&amp;5.2,</b> Monitors should be minimum 24" flat LCD (TFT) colour having resolution 1920 x 1080 or better. One of the displays should be on a reasonably larger screen (over 60") without any distortions or loss of resolution and should take signals from all other monitors.</p>	<p>In 5.1&amp;5.2, requires monitors with over 60" screen which is too large for the operation cabin integrated with mobile scanner. This is also a requirement of a re-locatable system with a fixed operation room and not realizable for a mobile system. Please clarify this is a typo and will be deleted. We don't need to provide these functions.</p>	<p>Accepted. Requirement waived off.</p>
15	Godrej & Boyce Mfg Co Ltd	<p>Section No. 6 ( SPECIFICATIONS AND ALLIED TECHNICAL DETAILS) &amp; Page Number 14 Appendix I Point No 6.5 &amp; Point No 11.1</p>		<p><b>Page No 14-</b> It must be possible to operate the scanner, as well as monitor the safety zone, with a maximum of three (3) people. Standard Operator Number: Total = 3. (One Image Analyser, One Operator and One Driver/ Ground Marshal). <b>Page No -54 Point No 6.5</b> Per scanner system, five sets of workstations for image inspection (including two for remote location inspection) and provision to add at least two more. <b>Page No 55, Point No 11.1-</b> Scanner operation station, Image inspection station, Check-in, check-out posts, Remote inspection Areas MIA) should be connected through wide area network.</p>	<p>In P14, the system shall have one image analysis workstation, one operation workstation for two operators in the operation cabin. (three people with one driver). In 6.5 requires five sets of workstations for image inspection (including two for remote location inspection), in 11.1 requires check-in, check-out posts, which means we need to put at least 6 workstations (One operation workstation, three image analysis workstation, one check-in workstation, one check-out workstation) which is also a requirement of a re-locatable system not for a mobile scanner with the operation cabin on-board. The test requirement in Appendix-1 is different from the technical spec and Appendix-1 is based on re-locatable system, Could this item in P54 and P55 change to P54,6.5, Per scanner system, three sets of workstations for image inspection (including two for remote location inspection). P55,11.1, Scanner operation station, Image inspection station should be connected through wide area network. Also, please clarify whether we need to provide remote image processing workstations?</p>	<p>Specifications as applicable to mobile scanners are required. Specification related to relocatable system can be ignored. Remote image processing workstations requirement is waved off.</p>



16	Godrej & Boyce Mfg Co Ltd	Appendix I Page 55 Point No 11.6	ware & Netwo	Software should be able to alert the operator, in case of some contrabands are noticed.	There is impossible for the software to detect all contrabands nowadays, but the software can detect some contrabands such as cigarette, liquor, it is suggested to change this requirement to "Software should be able to alert the operator, in case of cigarette or liquoris noticed."	Software should be able to alert the operator in case of cigarette, liquor and other defined contraband materials.
17	Godrej & Boyce Mfg Co Ltd	Appendix I Page 56 Point 13.2	y & Security	Supply of, per installation, one PZT CCTV camera having facility to view from remote location with DVR capable of saving more than 12 hour long video	For a mobile scanner, the CCTV will be viewed in the monitor inside the operation cabin. For a re-locatable system, the CCTV can be viewed from the operation room built on the ground. Please clarify this item means Supply of, per installation, one PZT CCTV camera having facility to view from operation cabin with DVR capable of saving more than 12 hour long video	Remote location in Point 13.2 can be read as 'from the opertaion cabin'.

18	Godrej & Boyce Mfg Co Ltd	Scope of Work , Pa	REGULATORY & STATUTORY REQUIREMENTS	<p>a. )The scanner should meet the regulatory and statutory requirements of the Atomic Energy Regulatory Board (AERB) in India and other Government, local and municipal authorities. The Supplier shall obtain all requisite clearances in this regard, including those related to the construction of the Scanner Facility. Wherever, the application for approval/permission has to be provided by the Purchaser; the Supplier will prepare all such documents as are necessary to obtain such approvals/permissions.</p> <p>b.) Information available with the Purchaser (full information may be obtained from Head, Radiological Safety Division, AERB, Mumbai) indicates that approval of AERB is required at the following stages:</p> <p>i. Selection of Site ii. Clearance (including import of the X-ray generating unit</p> <p>iii. Installation &amp; Pre-commissioning Tests. iv. Commissioning &amp; Regular Operation</p> <p>The Purchaser will arrange for approval of the site. Other approvals should be obtained by the Supplier. Additionally, the Bidder shall process and provide the certificates as per rules and regulations of AERB and keep department informed at each step. Further, it is to be noted that regulatory review/ statutory clearance is an iterative process and time required for the same should be duly accounted for by the bidder while planning various activities associated with this tender.</p>	Site Layouts are still not provided	Site layout shall be provided. Attached in the Corrigendum.
19		Section 7 Price Schedule Page No 24 & Page No 25		Stages & Method of Payments	FAT is mentioned before SAT in the sequence of payment schedule, so the payment sequence is incorrect. Advance should be at least 20%.	SAT shall precede FAT. RFP stands modified accordingly.