

ITEM NO. 01 SPECIFICATIONS REGARDING SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF LUGGAGE SCANNING MACHINE.

SN	PARAMETERS	SPECIFICATIONS
1	View Type	Dual View , dual energy
2	Tunnel Opening	Minimum 1010 x 1010 mm or better
3	Max Object Size	1000 x 950 mm or better
4	Machine Dimensions (L x W x H)	Less than 3650 x 2050 x 2150 mm or better
5	Conveyor Height	Less than 350 mm
6	Maximum Conveyor Load	200 kg or better
7	Net Weight	Less than 1,700 kg or better
8	Gross Weight	Less than 2,150 kg or better
9	Conveyor Speed	Minimum 0.35 m/s, standard screening of bags
10	X-ray Generator	160 kV - dual generators required
11	Beam Direction / Detector Line	L-shaped detector line / equivalent
12	Steel Penetration	Minimum 38 mm typical, 37 mm standard
13	Wire Resolution	Minimum 40 AWG typical, 38 AWG standard
14	Spatial Resolution	1.3 mm or better
15	Gray Levels	4096 or better
16	Monitor	High resolution display , 2xLEDS
17	Image Archive (IMS)	Automatic Image archiving
18	AI / Auto Threat Detection	Explosives, narcotics, density alerts, TIP
19	Image Processing	Spectrum 4-Colour, Zoom, Organic/Inorganic discrimination
20	Power Consumption	Less than 1.4 kW or better
21	Supply Voltage	100-240 VAC +/-10%
22	Storage Temperature	-20 C to +50 C or better
23	Humidity	5-95% non-condensing
24	Roller Beds	2 m input roller conveyors motorized and 2 m output, roller conveyors non-motorized
25	External UPS	Min 5kva to run entire machine for 30 min on power failure
26	Remote Console	Remote console with 4 m umbilical cable
27	Remote Control Panel	Power, Go, Stop, Reverse or other
28	Image Magnification	64x or better
29	X-ray Leakage	Within applicable regulatory limits
30	Certifications / Compliance	EC 300/2008; TSA ACSTL; Canada ACS; UK DFT /IEC/ equivalent The offered equipment shall be certified by at least one or more internationally recognized aviation/security authority. Whereas TSA ACSTL is preferable.
31	Warranty/ After sale services	2 years including parts and labor
32	Software updates	Life time required
33	SLA with parts and minimum response time	Total 5 years SLA: 2 years including parts (warranty period) and 3 years without parts. Should cover monthly PM and CMs as required. Response time will be 24 hours or less.


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ITEM NO. 02 SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF UPS 5 KVA, DOUBLE CONVERSION ON LINE UPS WITH BRANDED MAINTENANCE FREE DRY BATTERIES HAVING 30 MINUTES BACK UP OR HIGHER.

- 5KVA , pure sine wave, double conversion On line UPS
- LED display& Alarm when ON/OFF & failure alarm display
- Surge protection from line to line & earth.
- Power management system & Electrostatic discharge immunity
- Internal circuit failure
- Maintenance by pass switch, over temperature, overload / short circuit protection & ground protection.
- Minimum rechargeable time
- Communications Interface RS-232, Plug and Play, open collector alarm contacts
- Maintenance free branded dry batteries
- Moveable Rack required for batteries and UPS along with all wiring cables & extensions and etc.



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Detailed Evaluation Criteria for Luggage Scanning Machine

The Technical bids will be evaluated on basis of following criteria;

A. Mandatory Criteria:

The bidder will have to fulfill following mandatory criteria. Any supplier, who fails to fulfill any of following 13 requirements, will be disqualified.

SN	Requirements
1	Confirmation of Pakistan Railways specifications, delivery and completion Schedule.
2	Confirmation to supply, installation, testing & commissioning of the equipment
3	Confirmation of Warranty clause i.e. 24 Months after completion of successful commissioning of equipment / work in from of letter.
4	Confirmation for provision of after sale services / post installation technical (as & when required) for 10 years after expiry of warranty in form of letter.
5	Supplier is required to mention brand name, manufacturer name, and country of origin and provide complete technical literature.
6	Assurance of lifetime license (15 Years) of luggage scanning with free software up gradation in form of letter.
7	PTA / PNRA approval certificate & allied equipment being offered in bid. (If required)
8	Manufacturer Authorization Certificate
9	Supplier shall not be blacklisted by any Government Department, Autonomous Body, Public Sector Organization, or Regulatory Authority in Pakistan at the time of bid submission. Affidavit will be provided by the firm.
10	Supplier must have completed at least 5 Similar Assignments for Luggage Scanner equipment about supply & installation on airports, railways, ports, customs / others. Proof of 5 completed assignments should be attached in form of satisfactory performance certificates from end users of assignments. (Similar Assignment means supply and installation of luggage scanning equipment)
11	Supplier has a luggage scanning service center along with dedicated software for offered product with office support established anywhere in Pakistan.
12	Practical training and troubleshooting will conducted by the firm up to 15 No. Police officials at Quetta Railways station. Contractor is also bound to provide hard copy of handouts/manuals to the trainees. Troubleshooting manual of every equipment must be provided by the supplier.
13	Inspection of the equipment will be from the SRP/QTA and DASTE/QTA. Physical and practical performance test will also be carried out by the SRP/QTA and DASTE/QTA as per specifications.


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B. Experience & Capabilities of Firm and Durability & Reliability of the product being offered:

The employer shall evaluate the Technical Bids by applying the point system given in table below. The maximum Score shall be 100. A Technical Bid shall be declared as non-responsive if it fails to secure minimum qualifying score of overall seventy five (75). The distribution of 100 marks is as under:

SN	Description & Distribution of Marks	Max. Marks															
1	OEM / authorized representative must have verifiable presence in Pakistan through proof of supplied any dual view X-Ray scanning machines in last 10 Years and No of completed similar assignments (provide satisfactory performance certificate of the completed projects from end users)	20															
2	<u>Installation & commissioning of Offered Machine Model and certifications</u> TSA = 6 ACTL = 4 US FDA,CE Compliance = 3 EU Electromagnetic Compatibility or ROHS and FCC = 3 IEC = 2 Film Safety ISO 1600(33DIN)ISO 9110 = 2	20															
3	<u>Durability / Reliability of equipment being offered</u> - OEM Experience and Global Installations =10 (for more than 50 systems installed) - Warranty & Spare Parts Support = 10 (for complying to all requirements) - Compliance, Training, Installation & Commissioning = 10 (for offering complete package)	30															
4	Scanning Machine Service trained engineers present in cities (proof of training to be provided) - At least 3 cities = 15 2 cities = 10 1 city = 5	15															
4	<u>Scanning Machine Service center</u> - Established anywhere in Pakistan = 10 - Or established in Quetta city = 15 - Established in other province = 5	15															
5	<u>Key Professionals</u> <table><tr><th>SN</th><th>Position</th><th>Points</th><th>Academic Qualification</th><th>Points</th></tr><tr><td>1</td><td>Project Manager/Team Leader</td><td>2</td><td>Master of Engineering</td><td>2</td></tr><tr><td>2</td><td>Bachelor Electronics</td><td>2</td><td>DAE technicians x 4 (1 point for each)</td><td>4</td></tr></table> CVs must be attached	SN	Position	Points	Academic Qualification	Points	1	Project Manager/Team Leader	2	Master of Engineering	2	2	Bachelor Electronics	2	DAE technicians x 4 (1 point for each)	4	10
SN	Position	Points	Academic Qualification	Points													
1	Project Manager/Team Leader	2	Master of Engineering	2													
2	Bachelor Electronics	2	DAE technicians x 4 (1 point for each)	4													
6	<u>Financial soundness of bidder or its authorized representative (average annual turnover of last 3 years based on audit reports)</u> a) More than PKR 300 million = 10 b) More than or equal to PKR 150m but less than 300 million =5 c) Less than or equal to PKR 100 million = 0	10															


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