



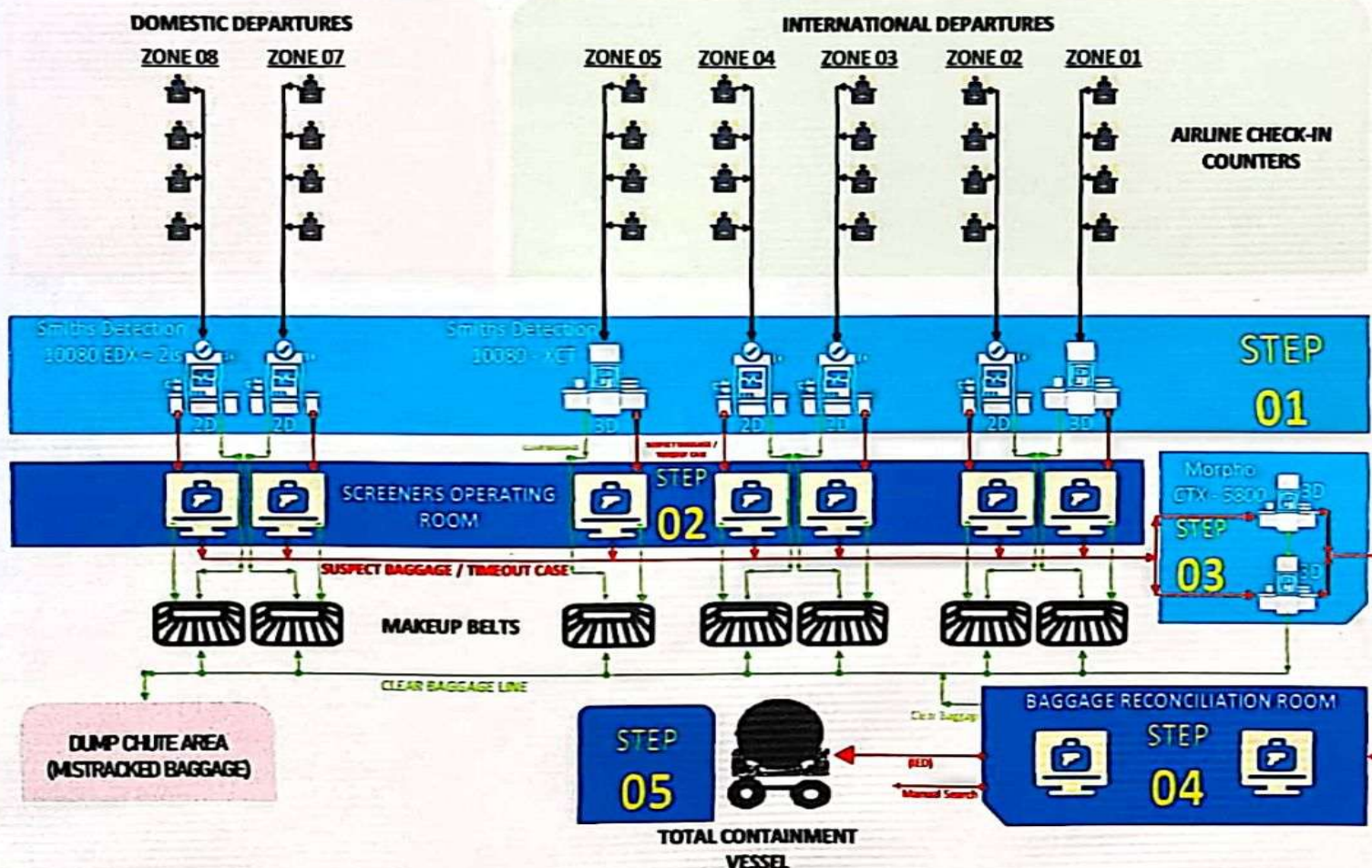
ISLAMABAD INTERNATIONAL AIRPORT

SECURITY CHECK EQUIPMENT

(Hold Baggage Screening)



PAKISTAN CIVIL AVIATION AUTHORITY BAGGAGE HANDLING SYSTEM ISLAMABAD INTERNATIONAL AIRPORT



Step 01 Smiths Detection Systems - 2D/3D images

- Equipped with EDS Line 01 & 05 also equipped with Computed Tomography
- Analysis as per chemical composition and density.
- Baggage cleared by auto decision : Minimum 70%
- Clear → Make up area
- Suspect/Time out case → Step no. 02

Step 02 Screeners Operating Room - SOR

- Image projection on monitors for 15 seconds
- Clear → Make up area
- Suspect/Time out case → Step no. 03

Step 03 Morpho Detection System 3D images

- Equipped with EDS and Computed Tomography
- Clear → Make up area
- Suspect → Step no. 04

Step 04 Baggage Reconciliation Room - BRR

- Both Smiths and Morpho work stations installed
- Ample time available for image analysis
- Clear → Make up area
- Suspect → Manual search in front of passenger
- IED → Step no. 05

Step 05 Total Containment Vessel - TCV

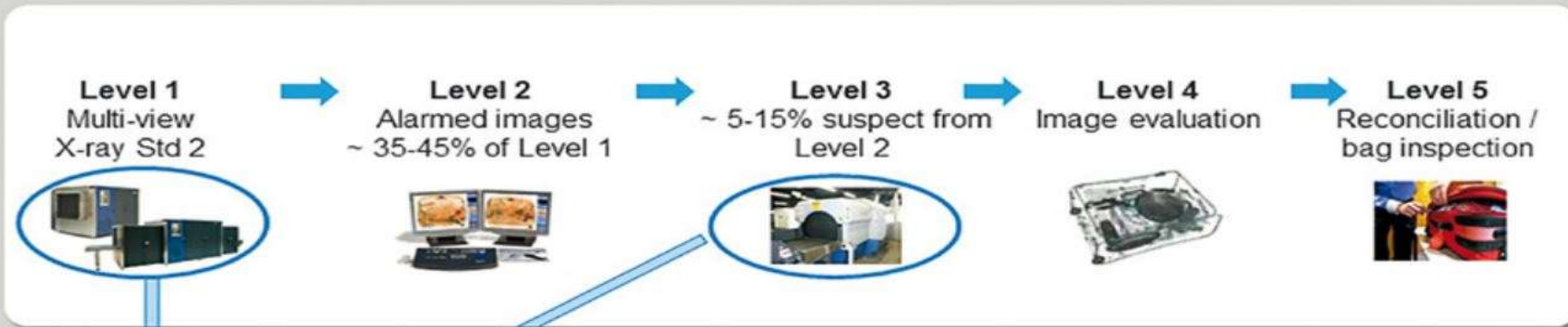
- Made in Poland
- Sustains upto 08 kg high explosive
- Air/Gas tight, thus reduces intensity of explosion

STANDARD-2 Vs STANDARD-3 PROCESS

PROCESS	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
TYPICAL STANDARD 2 PROCESS  OPERATIONAL FAR -40%	AUTOMATIC X-RAY STD 1 OR STD 2  OPERATOR CLEAR RATE-80%**	ALARMED IMAGES SENT TO OPERATOR 2D  OPERATOR CLEAR RATE-80%**	UNCLEARED BAGS SENT TO CT  FAR-20%	ALARMED IMAGES SENT TO OPERATOR 3D  OPERATOR CLEAR RATE-90%**	FINAL EXAMINATION  AIRLINE REP/PASSENGER MANUAL SEARCH PROCEDURES (NO TIME LIMIT)
TYPICAL STANDARD 3 PROCESS HI-SCAN 10080 XCT	AUTOMATIC EVALUATION  FAR-20%	ALARMED IMAGES SENT TO OPERATOR 2D & 3D  2A OPERATOR CLEAR RATE -80%** 2B OPERATOR CLEAR RATE -90%**	FINAL EXAMINATION  AIRLINE REP/PASSENGER MANUAL SEARCH PROCEDURES (NO TIME LIMIT)	BENEFITS • LESS COMPLEXITY • LESS OPERATORS • MORE SPACE • LESS POWER CONSUMPTION • LESS MAINTENANCE OVERALL • MORE EFFICIENT OPERATION • MORE ADVANCED SECURITY STANDARD	
TYPICAL STANDARD 3 PROCESS CTX 9800 DSI	AUTOMATIC EVALUATION  FAR-20%	ALARMED IMAGES SENT TO OPERATOR 3D  OPERATOR CLEAR RATE-90%**	FINAL EXAMINATION  AIRLINE REP/PASSENGER MANUAL SEARCH PROCEDURES (NO TIME LIMIT)		

ECAC STANDARDS

5 Level concept in *ECAC Standard 2 (generic)*



3 Level concept in *ECAC Standard 3 (proposal – lean)*



Figure 1 Comparison of ECAC Standard 2 system with a proposed ECAC Standard 3 system

Hold Baggage (Inline SCE) Screening



HI SCAN 10080XCT

(EU Standard-3 X-Ray Machine – CT Equipped)

Line X-Ray Scanning

Computed Tomography CT- Scanner

TSA Certified

BHS Departure Lines 1 & 5

Qty:	2
Capacity:	1800 bags per hour
Speed:	0.5 m/sec
Max Load:	200 kg
Power Consumption:	16 kVA
Weight:	7650 kg
Max Object:	1000 (W) X 800 (H) X 1600 (L) [mm]



Hold Baggage (Inline SCE) Screening

HI SCAN 10080 EDX-2is (EU Standard-2 X-Ray Machine)

Dual view X-Ray image for operator re-check
BHS Departure Lines 2, 3, 4, 7 & 8

Qty:	5
Capacity:	1800 bags per hour
Speed:	0.5 m/sec
Max Load:	200 kg
Power Consumption:	6 kVA
Weight:	3080 kg
Max Object:	1060 (W) X 800 (H) X 3800 [mm]



Hold Baggage (Inline SCE) Screening



CTX 5800

(EU Standard-3 X-Ray Machine – CT Equipped)

Computed Tomography Scanner

TSA Certified

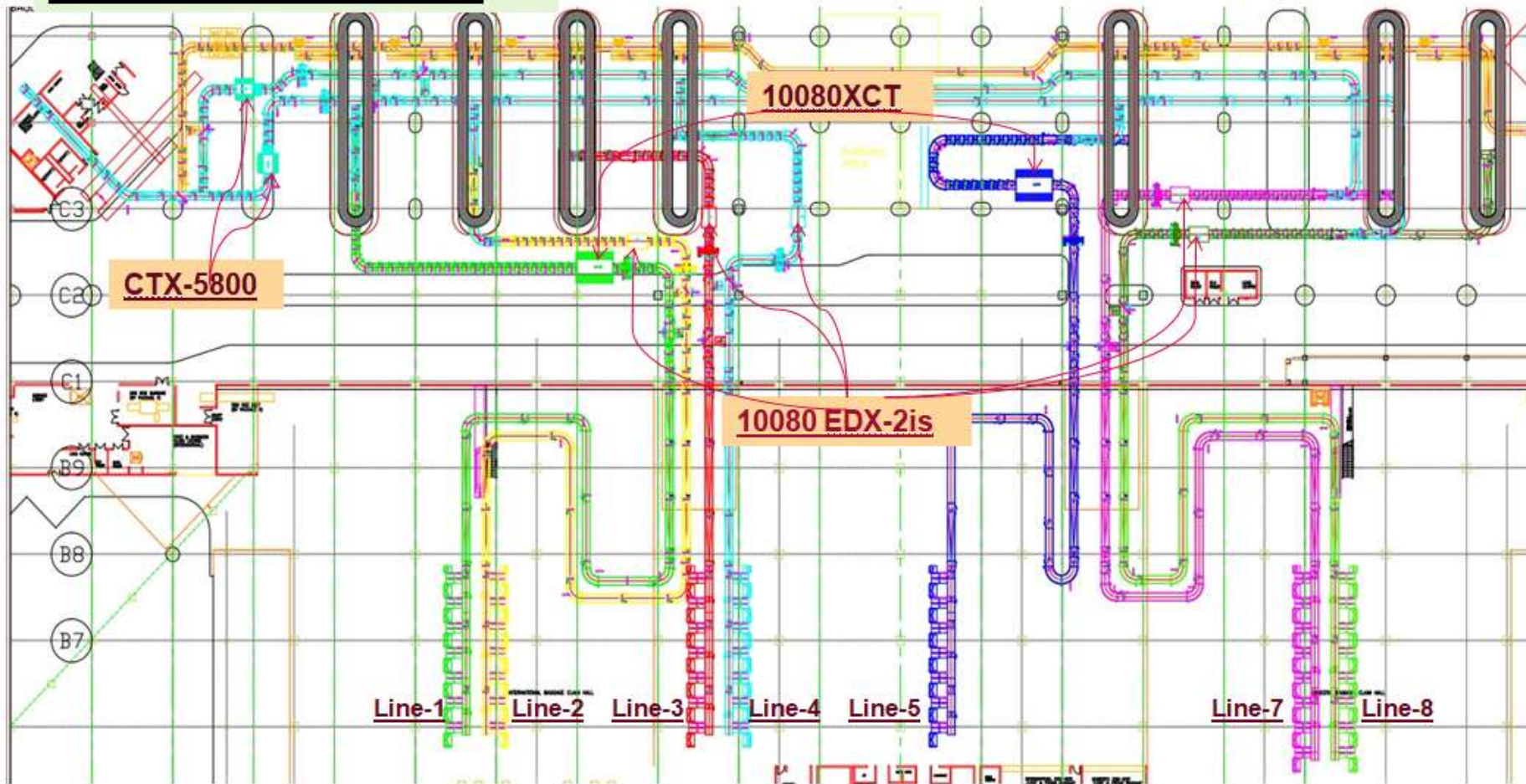
BHS Departure Lines 2, 3, 5, 7 & 8

Qty:	2
Throughput:	400 bags per hour
Speed:	0.14 m/sec
Max Load:	160 kg
Power Consumption:	2.5 kVA
Weight:	2041 kg
Max Object:	750 (W) X 408 (H) X 1200 (L) [mm]

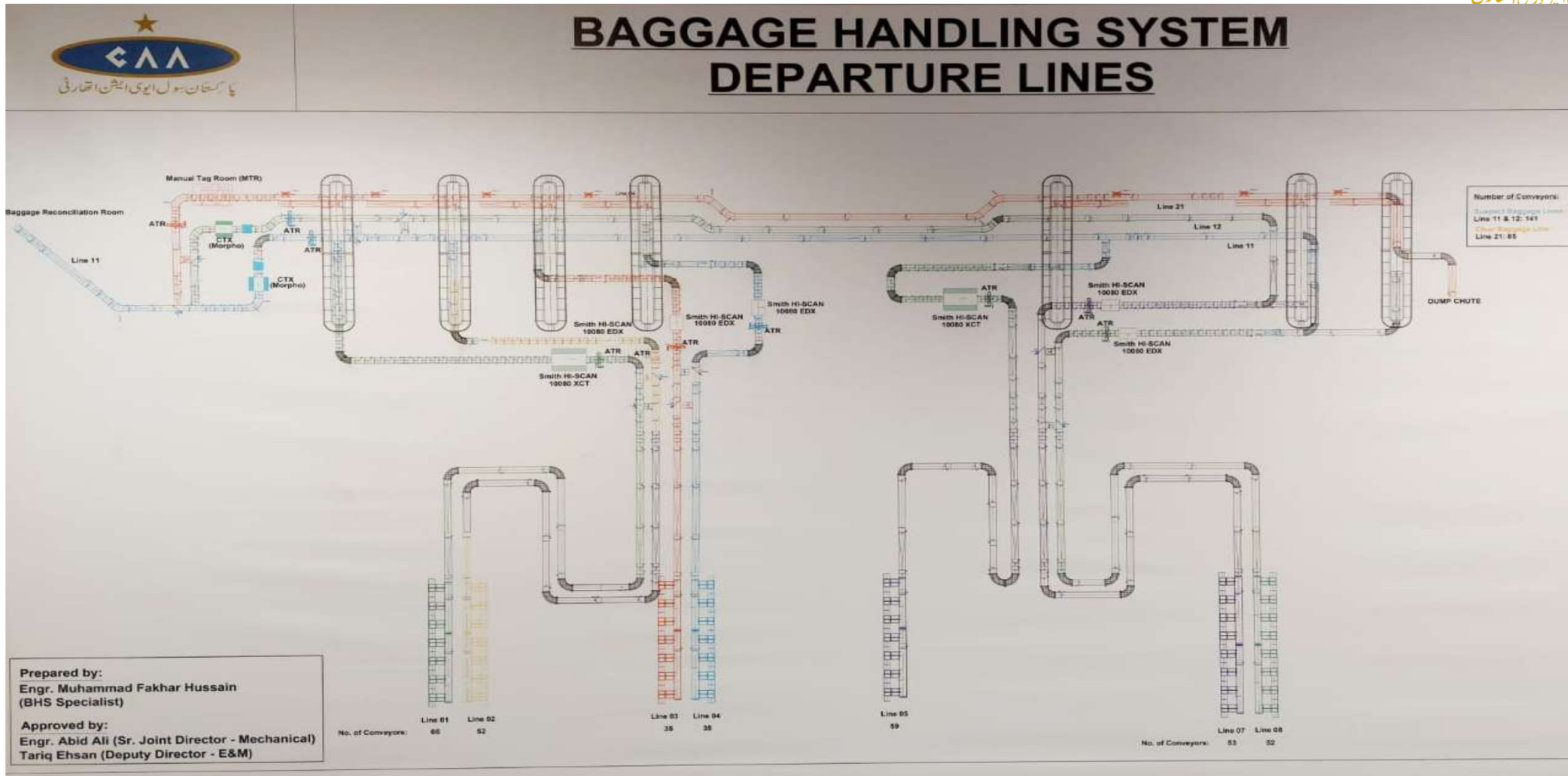


DEPARTURE IN-LINE BHS SCREENING

OUT-BOUND SYSTEM



DEPARTURE IN-LINE BHS SCREENING



Hold Baggage (Inline SCE) Screening



HI SCAN 100100T (BHS In-Line X-Ray Machine)

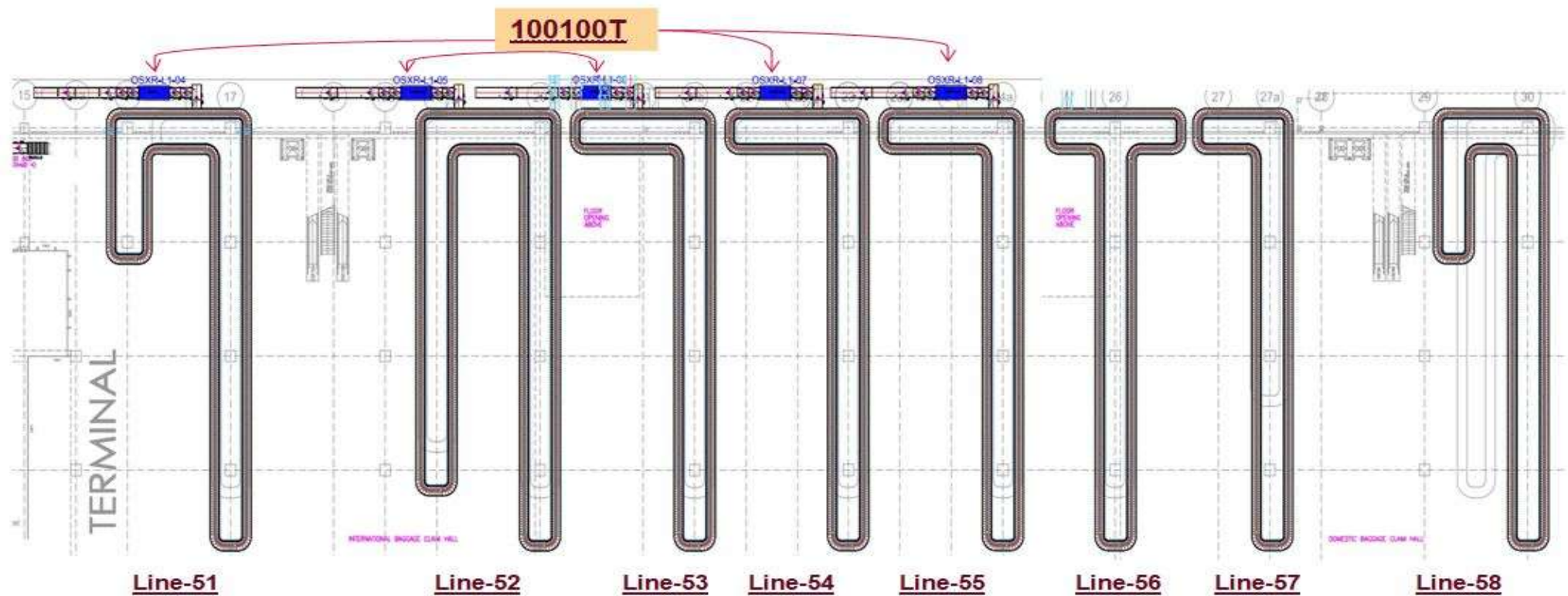
Single View X-Ray Machine BHS Reclaim Lines 51, 52, 53, 54, 55 (Int'l Side)

Qty:	5
Capacity:	720 bags per hour
Speed:	0.2 m/sec
Max Load:	200 kg
Power Consumption:	1 kVA
Weight:	930 kg
Max Object:	1000 (W) X 1000 (H) [mm]



ARRIVAL IN-LINE SCREENING

IN-BOUND SYSTEM



THE END