

TECHNICAL SPECIFICATIONS**PASSENGER BAGGAGE TROLLEY (STAINLESS STEEL TYPE)**

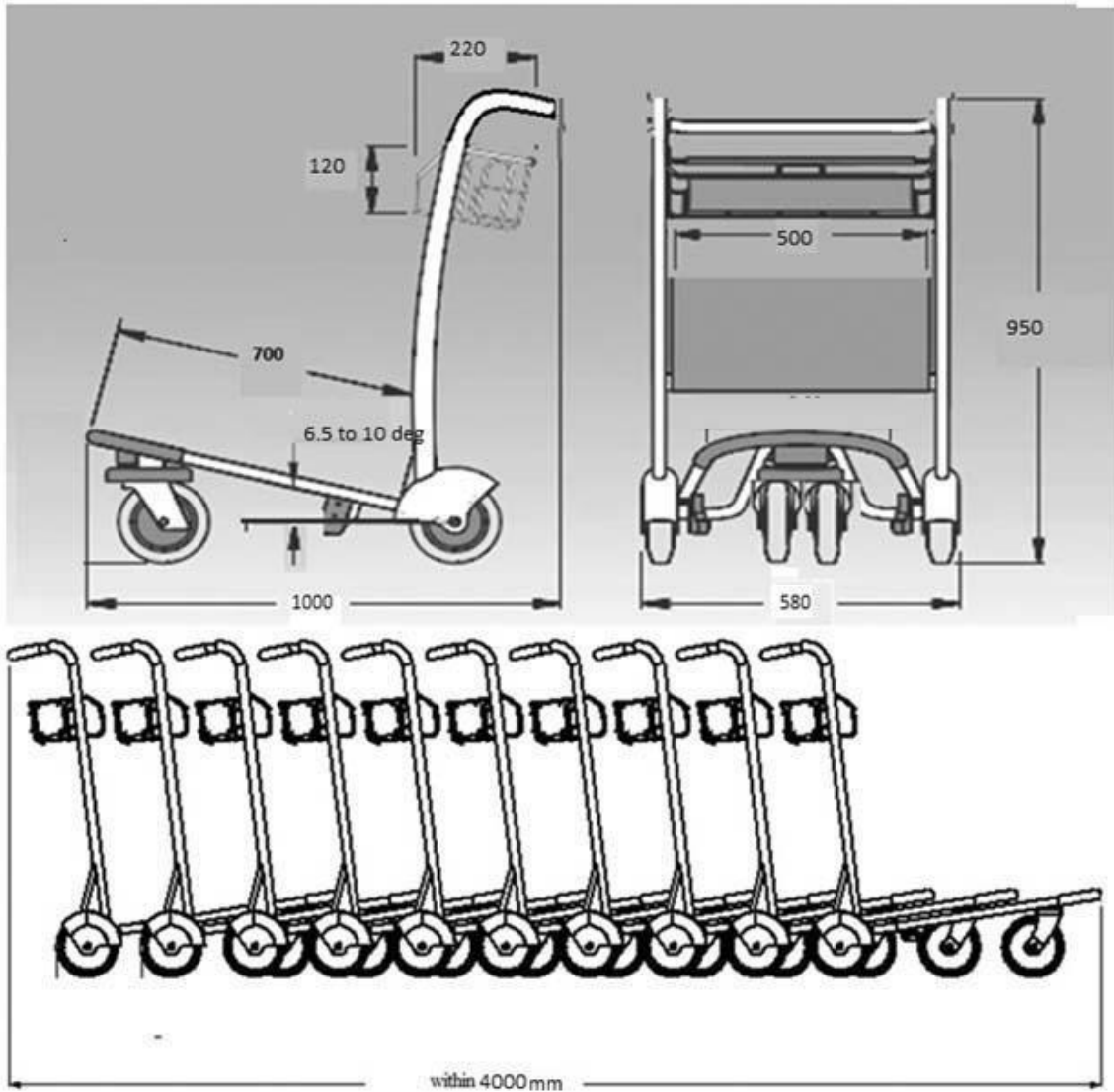
S. No	Technical Specification	Parameters Complied/ not complied
1.	Trolleys will be of 4 wheel type. Front wheels will be either two wheels on a single swivel type or two independent swivel type. Rear wheels shall be 2 fixed type.	
2.	The Main frame and load platform will be of AISI grade 304SS pipes having circular section or elliptical section with minimum thickness of 2 ± 0.12 MM. In case of circular sections the vertical frame dia should not be less than 30mm and horizontal frame dia should not be less than 25mm and incase of a separate load platform mounted on horizontal frame the size of platform frame should not be less than 22MM. Incase of elliptical section the size should not be less than 38mmX20 mm for Vertical and horizontal frames and 30mmx16mm for load platform.	
3.	Hand Baggage Basket will be of AISI grade 304 SS Rods / Pipes. The basket should be of the following size: Length: 500 mm or above. Width:220mm or above. Height:120mm or above. Also the projection of the basket beyond the vertical frame should not be more than 60 mm, so that the load platform area is not affected. The advertisement panel can be at front side and at the rear side. The design shall incorporate finger protection clearance.	
4.	Hand Baggage Basket will consist of frame of SS rods having a minimum $5\text{mm}\pm 0.25\text{mm}$ or higher thickness. The basket will be welded to them in frame by SS welding rods.	

5.	All wheels will be of molded synthetic non-marking rubber tyred with two precisions, industrial, dust protected, metal sealed on both sides, self-lubricated ball bearings (bearings should be of SKF/NBC/TIMKEN/NTN of reputed Foreign / Indian make of same features). Swivel will have dust protected large ball bearings with rubber sealing on both sides (SKF/NBC/TIMKEN/ NTN6305-2RS1or bigger size of reputed Foreign/Indian make of same features). Such wheels should be trouble free long life as specified in clause on maintenance.	
6.	The axles shall be made from EN 8 Rods.	
7.	Ten trolleys should stack with each other within 4.00 meters length and the design should be such that while stacking and moving in a group of 15trolleys, the maneuvering should be smooth.	
8.	Overall Dimensions:	
	Length:1000mm or above.	
	Height: 950 mm or above.	
	Width (rear): 580 mm or above.	
	Load Platform Length (Effective) :> 700 mm or above	
9.	Load Area Slope (towards rear)	
	6.5° to 10°(towards rear).	
10.	Overall weight:	
	i. Not less than 19Kgs (in case of no separate load platform mounted on horizontal frame). ii. 22 Kg to 28Kg.(In case of a separate load platform mounted on horizontal frame).	
11.	Normal carrying weight :100Kgs.	
12.	Maximum carrying weight : 300 Kg. (will be checked randomly).	
13.	Front Caster Wheel and Rear Wheels:	

	<p>i) Front castor wheel should be molded synthetic non marking rubber wheel with two precision double sealed industrial ball bearing dust protected and hub thickness sufficient to carry a weight of 75Kg on each wheel. Swivel Caster will have precision double ball bearings sealed; dust protected and self-lubricated large ball bearings. The nuts provided shall have suitable locking arrangement to prevent loosening during normal usage. The caster mounting should not have nut protruding to the load platform. The wheel size should be of diameter 125mm or above having bearing of SKF/NBC/TIMKEN/NTN 6001-2Z or bigger size of reputed Foreign / Indian make of same features. Shore hardness $75 \pm 5^{\circ}$ Shore A. All wheels should have Thread Guards.</p>	
	<p>ii) The wheel and castor should conform to the testing requirement as per standard EN 12532. Supplier has to arrange test certification by TUV (or an accredited lab selected by AAI) for the wheels as per EN12532 standard.</p>	
	<p>iii) Rear wheels should be molded synthetic non marking rubber wheel with two sealed industrial ball bearings dust protected and hub thickness sufficient to carry a weight of 75 Kg on each wheel having precision double ball bearings, sealed, dust protected and self-lubricated. The nuts provided shall have suitable locking arrangement to prevent loosening during normal usage. Wheel size should be of diameter 180 mm having bearing of SKF/NBC/TIMKEN/NTN 6202-ZZ or bigger size of reputed Foreign/Indian make of same features. Shore hardness $75 \pm 5^{\circ}$ Shore A. All wheels should have Thread Guards. The wheel should conform to the testing requirement as per standard EN 12532. Supplier has to arrange test certification by TUV (or an accredited lab selected by AAI) for the wheels as per EN12532 standard.</p>	
14.	Front bumper guard: PVC / LDPE minimum 5mm thick.	
15.	Finish: Trolley frames will have Ra 0.2 to 0.4 μ m finish or Electro Polished Shining Finish	
16.	Identification Plate: The size not less than 100mm X 80mm X 1.5mm thick Aluminum Plate will be riveted on the left side of the basket at the rear side on to the SS Plate fixed on the horizontal member of the basket.	
17.	Number Plate: The size not less than 100mm X 80mm X 1.5mm thick Aluminum Plate will be riveted on the right side of the basket at the rear side on to the SS Plate fixed on the horizontal member of the basket.	

18.	The trolley platform shall ensure that the maximum hand baggage size do not fall through any gap at the rear side of trolley. Suitable baggage stop should be in place.	
19.	Workmanship: high standard of workmanship only shall be acceptable which includes	
	i) Using the latest technology for welding i.e. MIG/TIG/ ARGON welding or better so as to achieve quality welded joints without flaws, uniform applications and no sharp edge or weld burrs.	
	ii) Fabrication shall be done using CNC bending machines and Jigs & fixtures to ensure consistency in shape and dimension.	
	iii) Superior surface finish.	
	iv) All used fasteners are to be tamper proof and shall not protrude in the loading platform of trolley or movement area of baggage.	
20.	The agency shall submit Manufacture's Test Report (MTC) confirming to all above parameters. In case agency fails to submit MTC, AAI reserves its right to test the parameters from outside labs at the cost of the licensee.	

Illustration of Dimensions of PBT



All measurements are in mm