



**The Director General of Police
Maharashtra Police HeadQuarters, S.B.S. Road, Mumbai 400 001**

-: Corrigendum of Jungle Shoes. Tender no. 1777 :-

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ALL THE BIDDERS ARE REQUESTED TO TAKE NOTE OF REVISED SPECIFICATIONS AND DATES FOR BID & SAMPLE SUBMISSION FOR THE ABOVE MENTIONED e- TENDER.

THE BIDDERS ARE HEREBY REQUESTED TO BID AS PER THE REVISED SPECIFICATIONS. NO REQUEST FOR ANY EXTENSIONS, OTHER THAN MENTIONED BELOW, WILL BE ENTERTAINED.

A)	Tender No	:	DGP/18/30/2017-18/Jungle Shoes/46/2017
B)	Date of Tender Download	:	From 10/05/2018, 10:00 hrs. Up to 29/05/2018, 17:30 hrs.
C)	Date of Bid Preparation and Hash Submission	:	From 10/05/2018, 10:00 hrs. Up to 29/05/2018, 23:00 hrs.
D)	Decryption and Re-encryption	:	From 31/05/2018, 10:00 hrs. Up to 01/06/2018, 17:30 hrs.
E)	Date of opening of Tender	:	From 12/06/2018, 10:00 hrs. Up to 30/06/2018, 17:30 hrs.
F)	Sample Submission date	:	11/06/2018, 15.00 hrs.
G)	Validity of Tender	:	Till 120 days from the date of opening of tender

BY ORDERS

DATE :- 23.05.2018

**Specification for Jangle shoes
with Rubber PU sole using DIP**

Sr.No	Characteristics	Requirements and Test Result
1	Shape and design	Laced design of boot upper
		With tongue and plug
		Greenish colour look
2	Soling pattern	Soling shall not include continues lateral patterns
		Sole adequate skid resistance with clear height of 6 mm +/- 0.5mm
		Sole bucket type wall height 20 mm at toe and 35 mm at heel +/- 1.0 mm
3	Leg height	160 mm for size 9 +/- 5 mm (increase or decrease of size 2 mm for each bigger or smaller size respectively)
4	Upper fabric	As per Annexure - B Attached
5	Lining material	(Cotton cloth + foam (thickness 5 mm (min) + inner black fabric) thickness should be min. 6 mm
	Vamp	
	Upper	
	Quarter	
	Counter	
6	In socks	Moulded EVA 4 mm +/- 1.0 mm
	7	Lacing
7	Length	150 cm +/- 2 cm
	Diameter	3.5 mm +/- 0.5 mm
	Breaking load	70 kgf. Min
	8	Toe puff
9	Counter stiffener	Thermo plastic sheet 2.0 mm +/- 0.5 mm
10	Eyelets	Aluminum 8 pairs
11	Thread	Nylon 3 ply
12	Binding / Piping	Polyester Cotton dyed black
13	Weight (pairs)	For size 8 1000 gm +/- 5% (increase or decrease of size 70 g for each bigger or smaller size respectively)
14	Insole thickness	Woven cloth min 1.5 mm
15	Sole	As per Annexure - A Attached

A. Electric resistnsnce

When measured in accordance with the method described in IS : 15298 Part-1 after conditioning in a dry and wet atmosphere, the electrical shall be not less than 100 K Ω and not greater than 1000 M Ω .

B. Energy absorption of seat region

When footwear is tested in accordance with the method described in IS : 15298 part-1, the energy absorption of the seat shall be not less 20 J.

C. Resistance to harsh environments

C.1. Heat insulation of sole complex

When footwear is tested in accordance with the method described in IS : 15298 Part-1, temperature increase on the upper surface of the insole shall be not greater than 20° C.

C.2. Cold insulation of sole complex

When footwear is tested in accordance with the method described in IS : 15298 Part-1, temperature decrease on the upper surface of the insole shall be not more than 20° C.

C.3. Hydrolysis Test

The boots shall be placed in High Humidity (100%) at a temperature of 70° C for 5 days and then Tested for whole shoe flexing for 100000 cycles No Crack or damage to the sole is acceptable.

D. The thickness of Outer sole in the finished condition shall be as under

Sr. No.	Description	Thickness
1.	At Forepart	3.00 mm (Min)
2.	At Waist	3.00 mm (Min)
3.	At Heel	3.00 mm (Min)
4.	Depth	5.00 mm (Min)

E. Bond Strength

The direct moulded boot shall be subjected to adhesion test. The testing shall be made atleast 24 hours, after manufacture.

F. Upper / outsole bond strength

The bond strength shall not be less than 4 N/mm unless there is tearing of the material in which case the tearing strength shall not be less than 3 N/mm. when tested as per IS : 15298 (Part-1), 2011.

G. Interlayer bond strength

The bond strength between the outsole & Mid sole shall be not be less than 4 N/mm unless there is a earing of the sole, in which case the bond strength shall be not less then 3.0 N/mm when tested as per IS : 15298 (Part-1), 2011.

Annexure – ‘A’

Polyurethane MID - Sole

Property	Minimum Requirement
Moulded Density ((kg/m ³)	400 to 500
Hardness	40 to 50 shore “A”
Trouser tear strength (IS : 15298 Part-1)	5kN/m Min

Rubber - Sole

Property and Test Method	Minimum Requirement
Tear Strength (IS : 15298:2011 (Part-1)	Min. 8kN/m
Resistance to fuel oil (IS : 15298:2011 (Part-1)	12% Max.
Abrasion (IS : 15298:2011 (Part-1)	Maximum volume loss 150 mm ²

Complete Sole (MIDSOLE + OUTSOLE)

Property and Test Method	Minimum Requirement
Flexing Life Test (IS : 15298:2011 Part-1)	Max. 4mm cut growth till 30,000 cycles
Thickness (IS : 15298:2011 Part-1)	Thickness should not be less than 4.00 mm (cleated outsole) and cleat height should not be less than 2.5 mm

Annexure – ‘B’**Requirements of Upper Material**

Sr. No.	Parameter	Requirement / Norm	Test Method
1.	Blend Composition	a. Polyester (%) 80 +/- 3. b. Viscose Remainder.	IS : 11195.
2.	Weave	Twill 2/1.	Visual.
3.	Mass (gm/m ²)	290 +/- 10%	IS : 1964.
4.	Breaking load in kg. (min) (5x20 cm strip) a. warp b. weft	200 100	IS : 1969.
5.	Elongation in % age	20% (min)	IS : 1969.
6.	Tear Strength in N, min a. warp b. weft	200 150	IS : 6489 Part - 4.
7.	Mullen Burst in Kg/cm ²	10 (min)	IS : 1966 Part – 1.
8.	pH Value	6.0-8.5	IS : 1390 (Cold method).
9.	Colour Fastness a. Light b. Washing c. Perspiration	¾ or better ¾ or better ¾ or better	IS : 2454 IS : 764 IS : 971
10.	Upper & Lining		
	Upper (Outer Layer)	Polyester Viscose Fabric	
	Lining (Inner Layer)	Non Woven Nylon Cambrelle type Fabric	