

BHEL JHANSI
Specification of Men's Uniform Cloth (Pant)
Ref: BHEL/JHS/HR/WLF/uniform/02

Annexure-01

1. Scope of the specification covers the requirement of uniform (pant) cloth for men.
2. **Sample of Uniform Cloth**
The vendor will submit sample and conformance certificate as per specification No: BHEL/JHS/HR/WLF/uniform/02 along with their quotation. Maximum three samples can be submitted with offer by each bidder. Each sample should be at least 50X50 cm piece of cloth and shall have name and signature of the bidder and tender enquiry no.
3. **Test Certificate:** Test certificate shall be submitted along with bulk supply after carrying out test as per the technical parameters mentioned in point 7 on each lot of supply against BHEL order.
4. **Packing & Marking:** Each piece of cloth should be packed in a polythene bag. Blend composition and name of the manufacturer will be printed on the cloth.
5. **Inspection of the cloth:** Final inspection will also be carried out at our works with reference to the approved sample and BHEL/JHS/HR/WLF/Uniform/02/2010 and test report submitted along with supply and as per purchase order. BHEL Jhansi may inspect at manufacturer's work at its discretion with reference to the approved sample and technical parameters with reference to BHEL/JHS/HR/WLF/Uniform/02/2010. The supplier shall give inspection call before dispatch of cloth.
6. **Qualification of the vendor:** The vendor should be original cloth manufacturer and must have executed order of minimum Rs. 3 lakh in last three years to Govt./PSU/private organizations.

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7. Technical parameters with reference to IS: 15853/2009 for Pant cloth

1.	Colour of cloth	Smoke Grey
2.	Blend Composition (Polyster:Cotton)	80/20 +/-5%
3.	Cut Length	1.2 to 1.5 meter
4.	Width	150 Cms +/-1 Cm
5.	Yarn Number - NE - Warp Weft	2/30s +/-5% 30 DN Tex
6.	Thread Density Per Inch. - Ends Picks	92 +/-5% 64 +/-5%
7.	Weight Per Sq - Mtr - Grams	245.0 +/-5%
8.	Breaking Strength - KGF 20 x 5 Cms Ravel led Strip - Warp	130 (Min) 115 (Min)
9.	Crease Recovery Angle - Degrees Warp + Weft	240 (Min)
10.	Shrinkage When Heated - Warp - Weft	2.0 Max 2.0 Max
11.	Relaxation Shrinkage - Warp - Weft	1.0 Max 1.0 Max
12.	Ph of Aqueous Extract.	6-9.5
13.	Water Soluble	1% Maximum
14.	Colour Fastness Test a) Lighting - Class b) Washing - Change in Colour - Staining on Undyed Piece c) Perspiration Acidic - Change in Colour - Staining on Undyed Piece Alkaline - Change in Colour - Staining on Undyed Piece	4 or better 4 or better 4 or better 4 or better 4 or better 4 or better 4 or better
15.	Fibre Composition - Warp P/C - Weft P/C	67/33 +/-2% 100 Polyester
16.	Rubbing (Pilling)	4 or better
17.	Weave	Gabardine

Signature

7. Technical parameters with reference IS: 15852/2009 for shirt cloth

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Technical Parameters		
1.	Colour of Cloth	Smoke Grey
2.	Blend Composition	67 % /33 +/-2%
3.	Cut Length	2.20-2.50 meter
4.	Width	90 Cms +/-1 Cm
5.	Yarn Number - NE - Warp Weft	2/80s PC +/-5% 2/80s PC +/-5%
6.	Thread Density Per Inch. - Ends Picks	140 +/-5% 80 +/-5%
7.	Weight Per Sq - Mtr - Grams	140.0 +/-5%
8.	Breaking Strength - KGF 20 x 5 Cms Ravel led Strip - Warp	80 Kgf (Min) 45 Kgf (Min)
9.	Shrinkage When Heated % - Warp - Weft	2.0 Max 2.0 Max
10.	Relaxation Shrinkage % - Warp - Weft	1.0 Max 1.0 Max
11.	Ph of Aqueous Extract.	6 -9.5
12.	Water Soluble	1% Maximum
	Colour Fastness Test	4 or better
	a) Lighting - Class	4 or better
	b) Washing - Change in Colour - Staining on Undyed Piece	4 or better
	c) Perspiration	4 or better
	Acidic - Change in Colour - Straining on Undyed Piece	4 or better 4 or better
	Alkaline - Change in Colour - Staining on Undyed Piece	4 or better
13.	Fibre Composition - Warp P/C - Weft P/C	67/33 +/-2% 67/33 +/-2%
14.	Rubbing (Pilling)	4 or better
15.	Weave	Plain

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