

PASCHIM GUJARAT VIJ COMPANY LIMITED

REGD. & CORPORATE OFFICE:- "PASCHIM GUJARAT VIJ SEVA SADAN"
OFF NANA MAVA MAIN ROAD, LAXMINAGAR, RAJKOT-360004
CIN U40102GJ2003SGC042908

Telephone Nos:-0281-2380425/427/2360182

Fax No:-0281-2368175

Website:-www.pgvcl.com

E-mail:-proc.pg@gebmail.com

TECHNICAL SPECIFICATIONS

GENERAL GUIDELINES AND TECHNICAL SPECIFICATIONS **OF UNIFORM FABRICS FOR PGVCL's MALE EMPLOYEES**

General Guidelines for Sourcing of Fabrics

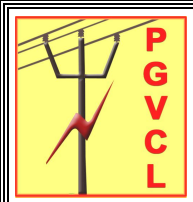
1	Fabric samples along with shade band and lab dips have to be approved prior to bulk production. The sample may be tested at ATIRA / any Govt. approved laboratories or at PGVCL discretion.
2	The shade band and lab dips will have to be approved before the commencement of fabric production. The shade will be matched visually. Any shade variation, from the approved shade will not be acceptable.
3	Test report will have to be attached along with samples of each offered items
4	All testing should be carried out by an independent accredited agency nominated by PGVCL.
5	Lot wise Test report for the mentioned parameter will have to be submitted before dispatch of fabric
6	Fabric will be in the form of packed of length as per schedule-A of tender / requirement of PGVCL and as per specifications of Fabric Pack No.: 1 & 2 (Each applicable for the respective product)
7	Trims specified in the respective sheets are also to be enclosed in the same pack.
8	No fabric defect of any nature is permissible in the fabric pack, refer <u>Annexure No. 1</u>
9	Fabric has to comply with all the mentioned test standards
10	Packing is as per the Annexure No. 2
11	Each Fabric Pack must be traceable to the lot Number.
12	Shade variation within the same piece is strictly unacceptable.

Signature of Tenderer:

Date:

Place:

Company's Round Seal:



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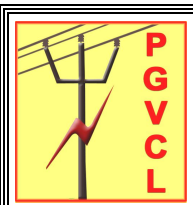
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13	The fabric will be accepted only after a pre dispatch inspection by an independent accredited agency nominated by PGVCL or any person/s deputed by PGVCL and as per PGVCL tender specification / approved/ accepted specification by PGVCL
14	Any other guideline that might be laid down to ensure the best quality of fabric /garment// trim/accessory being procured.
15	The successful bidder / suppliers must have to submit one sample of uniform fabrics of shirting & trouser as per photo design and specification of tender, for approval of PGVCL before commencement of production without effecting delivery of schedule of materials.
16	The supplier should offer the lot of cloths for initial Inspection & joint sampling.
17	At random the sample from the offered lot will be collected by PGVCL inspector before making pieces from 'Taka' for testing at Textile committee (Govt. of India) / ATIRA / any Govt. approved laboratories Supplier shall have to bear the Testing charges & cloth or as per PGVCL discretion. The cloth should confirm the test as per Tender specification otherwise the manufactured lot will be rejected. One sample will be tested from each lot of supply against each item.
18	Cloth should be supplied in fabric pack as per PGVCL's requirement only and after approval of Chief Engineer (Material), PGVCL, Corporate Office, Rajkot.
19	Audit inspection of various uniform clothes supplied in pieces at various destinations will be carried out as per PGVCL standard terms & conditions.
20	Bidder has to, Weave monogram i.e. "Specially made for PGVCL by (name of manufacturer ----- ----)" on Suiting and Shirting at every One-meter length (minimum).
21	Bidders are requested to refer the following Annexure which given in the end part of this specification a. Annexure- 1: List of Fabric defects b. Annexure- 2: Specification for the packing c. Annexure- 3: Fabric packs for tender bid

Signature of Tenderer:		Company's Round Seal:
Date:	Place:	



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TECHNICAL SPECIFICATIONS

ITEM :1 TROUSER

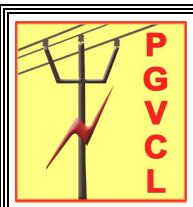
Fabric pack: 1	TROUSER	Fabric code: TR-1-PV
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Fabric specification

		Standard No.	Tolerance
Type	PV suiting		
Content/ composition	65-70% polyester 35-30% viscose	AATCC-20/20A	± 3%
Weave	Plain	-----	-----
Ends Per Inch. (Finished)	50	STM-D-3775	Min
Picks Per Inch. (Finished)	44		Min
Yarn count	Warp	2/18	Approx
	Weft	2/18	Approx
Yarn Type	Warp	P/V Blend	-----
	Weft	P/V Blend	-----
Width	58" or 147 Cm	-----	± 1 c m.
Weight in gms per sqm	280 gms. / Sq.mtr.	ASTM D- 3776	Min
Crease recovery angle (warp +Weft)	270 Degree	IS 4681	Min
Tensile strength in Newton (20x5 ems)	800	1420	Min
	600	1180	Min
Tear strength	4928 g	4928 g	Min
	4416 g	4416 g	Min

Colour & quality of Fabric for Trouser: As per our sample

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Fabric pack: 1	TROUSER	Fabric code: TR-1-PV
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Fabric should confirm following quality standards:

Tests		Test Method	Acceptable standard	
Colour fastness	Fastness to sun light	AATCC-16	4-5	
	Washing	AATCC-61-2003	4-5	
	Croaking	AATCC-8	4-5	
	Heat press	AATCC-133	4-5	
	Perspiration	AATCC-15-2002	4-5	
Dimensional stability (After 3 cycles)		AATCC 135-2003	± 2%	
Bow/ skew		ASTM D 3882	3%	
Abrasion, 10000 cycles		ASTM D 4966	Shade change	4 or Better
			Pilling	4 or Better
Washing shrinkage %	Length	IS 63301A	2% (Max)	
	Width		2% (Max)	

Note: Banned dyes/ chemicals not to be used

Value for test results:

5: Negligible

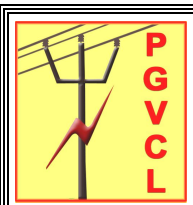
4: Slight

3: Noticeable

2: Considerable

1: Sever

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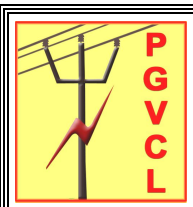
2. SHIRTING FABRIC (all Male Staff):

Fabric pack:	2
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Fabric code:	PG-1-PV
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Sr. No.	Construction Parameters	Requirement	Tolerance	Method of Test
1	Nominal Count, Denier			IS 3442
	(a) Warp	40s Ne	± 5%,	
	(b) Weft	40s Ne	± 5%,	
2	No. of threads per inch			IS 1963, ASTM D 3775
	(a) Warp	136	+5%, -2.5%	
	(b) Weft	72	+5%, -2.5%	
3	Width, Inches	60	± 0.5 inch	IS 1954, ASTM D 3774
4	Length, Meter	1.65	± 2 cm	IS 1954
5	Mass (Weight in grms / sq. meter - GSM)	130	± 5%	IS 1964, ASTM D 3776
6	Fibre Composition %			IS 667, AATCC 20/20A, IS 1564, IS1889, 2005, IS 2176, IS 2177, IS 3416, IS 3421, IS 1969
	(a) Polyester, % content	50	± 3 units	
	(b) Cotton, % content	50	± 3 units	

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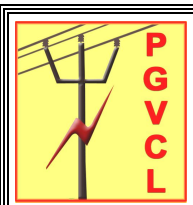
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	Essential Functional Parameters	Requirement	Tolerance	Method of Test
7	Breaking strength on 5cm x 20cm strip, N (kgf)		Minimum	IS 1969, ASTM D 5035
	a) Warp way	440 (44.9)		
	b) Weft way	350 (35.7)		
8	Tear Strength, N (kgf)		Minimum	IS 6489, ASTM D 1424
	a) Warp way	10.0 (1.0)		
	b) Weft way	8.0 (0.8)		
9	Colour Fastness Rating to		Minimum	
	(a) Light:			IS 686 or 2454, AATCC 16, ISO 105B02
	Change in colour	5		
	(b) Washing:			IS 3361, AATCC 612003, ISO 105 C10
	Change in colour	4		
	Staining on adjacent fabric	3-4		
	(c) Perspiration (acidic and alkaline)			IS 971, ISO 105-E04,
	Change in colour	4		
	Staining on adjacent fabric	4		
	(e) Rubbing			IS 766, AATCC 8 & 165, ISO 105-X12
	Dry	4		
	Wet	3		
	(c) Hot Pressing			IS 689, AATCC 133
	Change in colour	4		
	Staining on adjacent fabric	4		

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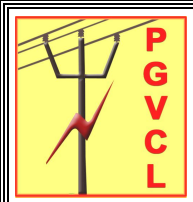
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	Other Functional Parameters	Requirement	Tolerance	Method of Test
10	Crease recovery angle, degrees		Minimum	IS 4681, AATCC 66
	(a) Dry	240 degrees		
	(b) Wet	240 degrees		
11	Dimensional stability to dry heat at 105 ± 2oC, percent		Maximum	IS 12170, AATCC 1352003
	(a) Warp way	1.0		
	(b) Weft way	1.0		
12	Dimensional change on washing, percent		Maximum	IS 1299, AATCC 135 & 150 2003
	a) Warp way	2.0		
	b) Weft way	2.0		
13	Pilling resistance (After 5 hr. of test)	4	Minimum	IS 10971, ASTM 3512
14	pH value of aqueous extract (Hot method)	16.0 to 8.0		IS 1390
15	Abrasion resistance, 5000 cycles, (Martindale method)	4		IS 12673, ASTM D 4966

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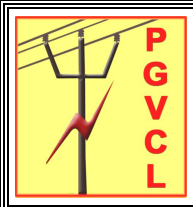
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TECHNICAL SPECIFICATIONS

ANNEXURE: 1

<u>List of Fabric Defects</u>	
Nature	Defects
Yarn Defects	Broken Filaments, Color flecks , Slubs, Knots
Weaving Defects	Broken Ends, Broken Ends Woven in a Bunch, Broken Pattern, Double End, Float, Gout, Hole-Cut or Tear, Lashing-in, Local Distortion, Missing Ends, Oil or other Stain, Oily or Soiled Ends, Oily Weft, Reed Marks, Selvage Defect, Slough Off, Smash, Snarls, Stitches, Untrimmed Loose threads, Weft Bar, Weft Crack.
Processing Defects	Bleaching spot, Blurred or Dark Patch, Defects caused by Hanging Thread, Dye Bar, Dyestuff Stain Misprint/Absence of Print, Patchy or Streaky or Uneven Dyeing, Pilling, Shading or Listing, Uneven Printing or Tinting, Water Mark, White Spot.
Embroidery Defects	Wrong Placement, Tilting of Embroidery, Broken threads, Incomplete embroidery, Shade Variation.
Visual Defect	Any visual defect that may affect, salability, serviceability, appearance of the fabric in a way that is significantly unacceptable for sale.

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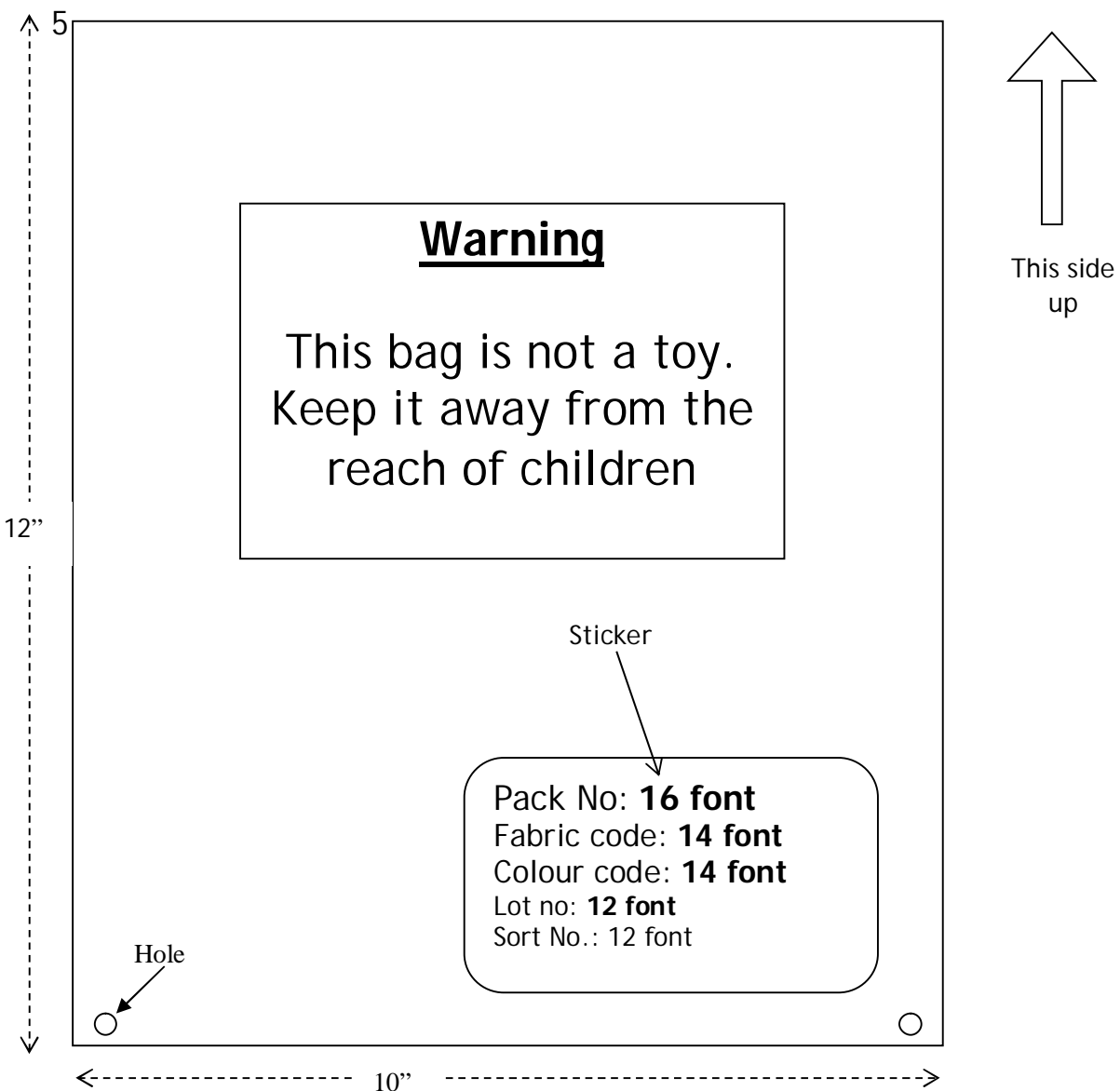
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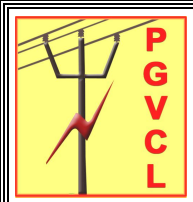
ANNEXURE: 2

Specifications for packing:

1. Pack should contain fabric of length as specified in schedule -A of tender
2. Ready Pack size 12" x10" (+/- 1/2")
3. Material: Self adhesive poly bag, **gauge: 200**
4. Necessary warning should be printed in front side of bag to keep it away from the reach of children.



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ANNEXURE: 3

Fabric Pack for Tender bid

Sr. No.	Details	Fabric Pack
1	Fabric: Suiting + Shirting	Fabric pack No.: 1 + 2

IMPORTANT NOTE:

All the items of Uniform Cloth of this tender SHALL BE STRICTLY AS PER TENDER SPECIFICATION.

For Colour & Design Purpose Only:-

For Colour & Design Purpose only, Swatch/Samples for all items for this Tender are available at,
"Chief Engineer (Material), PGVCL, Reg & Corporate office, Nana mava main road, Laxminagar, Rajkot".

~~Bidders can collect the same (up to Last date & time of submission of offer for this Tender inquiry) during office hours of working days only.~~

Signature of Tenderer:		Company's Round Seal:
Date:	Place:	