



JAWAHAR NAVODAYA VIDYALAYA, GADHI, GEORAI – TQ, DIST-BEED (MS)
Ministry Of Human Resource Development, Dept. Of Education, Govt. Of India
Tender for the supply of STATIONERY for the year 2014-15

1. Name of the Firm owner
2. Name of the firm
3. Full Address of the firm
-
Fax No:..... PHONE NO.:..... Mobile no:.....
E-Mail Id.....
4. Income Tax/ PAN No. :.....
5. Sales Tax / VAT No :.....
6. Details of EMD/SD : D.D.No..... Date
-
Amount Bank.....

Sr.	Name of items	Qty.	Specification (Brand)	RATE
01	School Bag	01 Nos	Enclosed separately	

The samples are to be provided along with tender form with identification of the firm i.e. Name & Seal

Date

Nos. Pages :

Nos. Correction

Signature of Tenderar
Name
Firm
Stamp

<u>OFFICE USE ONLY</u>				
Signature of PAC Members:				
1.....	2.....	3.....	4.....	5.....

SPECIFICATIONS OF SCHOOL BAG

1. SCOPE

This standard covers the requirements for bags, used by school students for carrying books, writing material, and drawing instruments etc.

2. SHAPE, DIMENSIONS & TECHNICAL SPECIFICATION

2.1 The shape and dimensions of the school bag shall be as shown in Fig.1.

2.2 Design & specifications of School bag

- Students school bag nylon royal blue colour with black straps & piping
- Bag, horizontal in shape, made of nylon matty 600 denier laminated with PVC & lined/reinforced with plastic sheet, dirt resistant and waterproof with zipper fastening at the top.
- Padded shoulder straps (width 6cm,thickness 3 mm) With an adjustable attachment of soft nylon (width 2.5cm) securely sewn on the base of the bag.
- Back & front seams reinforced with plastic piping to maintain the shape of the bag.
- One front pocket approximate size 23X27 cm with zipper closure.
- The length of back strap shall be adjustable by means of a buckle as shown in Fig. 1
- Adjustable side strap with buckle – 25 mm width
- Handle on the top with PU foam cushion inside – 25 mm width

3. MATERIAL

3.1 The various components of the school bag shall be made from the materials specified in Table 1.

4. MANUFACTURING, WORKMANSHIP AND FINISH

4.1 The school bag shall be made from three pieces of material, that is, front, back and gusset.

4.2 The front portion shall be provided with a pocket of size 23x27cm with gusset of 4 cm for articles used in school as shown in Fig. 1. The shape of the pocket should be such as to provide sufficient space for keeping lunch-box, pencil box, instrument box, etc.

4.3 The bag shall be provided at all seams with plastic piping and self material including the pocket, top edges and the sides as shown in Fig. 1. The piping shall be of the self material specified in Table 1.

4.4 The school bag shall be assembled 'lock stitch' or 'chain stitch' regulated to give 6 to 8 stitches per 25 mm. All ends shall be securely fastened, off and loose threads properly trimmed.

4.5 Two buckles with straps shall be provided in the bag for closure as shown in Fig. 1.

4.6 The bag shall be neatly finished with straight and parallel rows of stitching, where required.

4.7 The ends of buckles loops, side back and buckle straps shall be properly tacked with the rows of stitches as shown in fig. 1.

4.8 Bags will have two compartments & for separation adequate plastic material of minimum 2 mm thickness will be used duly bound with piping tape.

4.9 The inner side of the front panel of the bag shall also be lined with coated synthetic cloth in addition with reinforcement material.

TABLE 1 : MATERIAL FOR COMPONENTS OF SCHOOL BAG

SI	COMPONENTS	MATERIAL
(1)	(2)	(3)
1	Fabric i.e. Body, pockets etc.	Dirt resistant, waterproof, nylon 600 denier PVC Coated fabric weight 500 gm/sq mtr. Breaking strength(minimum warp-100 kgs,weft-50 kgs, tearing strength-7 kg, proofing content per sq mtr(minimum)-375 gms, weight of basic fabric i.e. nylon fabric 600 denier per sq mtr(min)-125 gms. Colour fastness to rating 4 & above

2(a)	Polypropylene straps 25mm	Padded nylon material 1 cm thickness 25mm wide synthetic tape
2(b)	Polypropylene strap 38 mm	38mm wide Polypropylene tape
3.	Piping	Plastic of best quality to maintain shape of the bag. Piping should be covered with PVC coated nylon fabric 600 denier.
4.	Buckles	Plastic which can bear & impact of at least 5 kg weight
5.	Sewing thread for body and straps	Sewing nylon 145 dtex X 3, IS 9543-1980, Variety No. 5 any colour matching to the body-colour & colour fastness to rating 4 & above
6.	Sewing thread for piping	Sewing nylon 145 dtex X 3, IS 9543-1980, Variety No. 5 of same colour of piping colour fastness to rating 4 & above.
7.	Stitching	Double stitching threaded quality suitable for material specified. All material edges to be tucked & stretched to prevent fraying.
8.	Bottle case	Synthetic net and elastic tape
9.	Zipper (fastener) with 2 nos. sliding tabs	Toothed edges of plastic with metal sliding tabs (Best Quality)
10.	Handle	Soft nylon width 2.5 cm
11.	Colour	Royal blue for all construction material including plastic piping & reinforcement material, separator for compartment & lining material black.

	Breaking load (full widthx20cm) - (min kg)	Mass per 100 meter in Gms (max)
* Strap (25mm wide Polypropylene tape)	325	1700
** Strap (38mm wide Polypropylene tape)	550	2400

5. SIZE OF THE SCHOOL BAG-

Size	A	B	C	D	E
	mm.	mm.	mm.	mm.	mm.
Small	330	230	90	70	260
Medium	360	260	110	80	280
Large	380	280	140	85	295

The sizes shall be as per the figure 1

Design and Dimension of School Bag –

School bag rucksack style made of PVC coated dirt resistant & waterproof nylon fabric 600 denier (as mentioned in Table 1) with zipper/fastener having two compartments as shown in Fig 1. One Pair of padded shoulder strap (width-6cm each, foam thickness-3mm) with an adjustable attachment of buckle (width 25mm), padded shoulder straps should be reinforced at the top with 38 mm polypropylene tape as shown in figure-1, one strap of polypropylene tape with foam width 25mm used as handle to be provided on to of the bag as shown in figure-1.). Back & front seams of the bag and pocket at front are to be re-inforced with plastic piping to maintain shape of the bag. One front pocket of size 23x27cm with zipper/fastener for closure to be provided on front as shown in Fig 1. The width of gusset of the pocket should be 4cm. One pouch pocket at gusset of school bag of self material and synthetic netting cloth with elastic at top shall be provided for carrying water bottle.

6. SAMPLING

6.1 In case of Test, Samples shall be drawn in four sets or as required by concerned laboratory / agency by giving the serial numbers on random basis of the sets supplied, properly sealed in the presence of the bidder's representatives.

8. TESTS:-

7.1 Drop Test The school bag shall be fully loaded with books or suitable materials weighing 10 kgs. After filling the specified weight, the bags shall be closed, fastened and hung on pegs at the wall with the help of the back strap. The distance between the floor and the peg shall be 1.0 metre in back strap. The bags shall then be suddenly dropped and this operation shall be repeated ten times. During or after the test the stitches shall not open, the straps & buckles shall not give way or come off the stitched tacks.

7.2 Snatch Test- The school bag shall be securely fixed in an inverted position on a rigid support, leaving the strap free for applying the load. The strap shall be suitably harnessed to distribute the load applied over the entire middle portion. A load of 50 N (5 kg) shall be applied suddenly to the strap for a period of 30 seconds. This operation shall be repeated 10 times. The weight may be applied either by means of spring balance or weight suitably placed on a stirrup. During or after the test, the strap shall not have snapped, loosened or come off the stitching.

Warranty There shall be a minimum warranty of nine months from the date of supply or six months useful life, whichever is earlier and warranted against any manufacturing defects. Such defected bags shall be removed by the supplier from the office of NVS, as the case may be & bags of given specification would be supplied without extra price.

9. MARKING

School bag, on left hand corner of back of the bag, shall be legibly marked with the following:

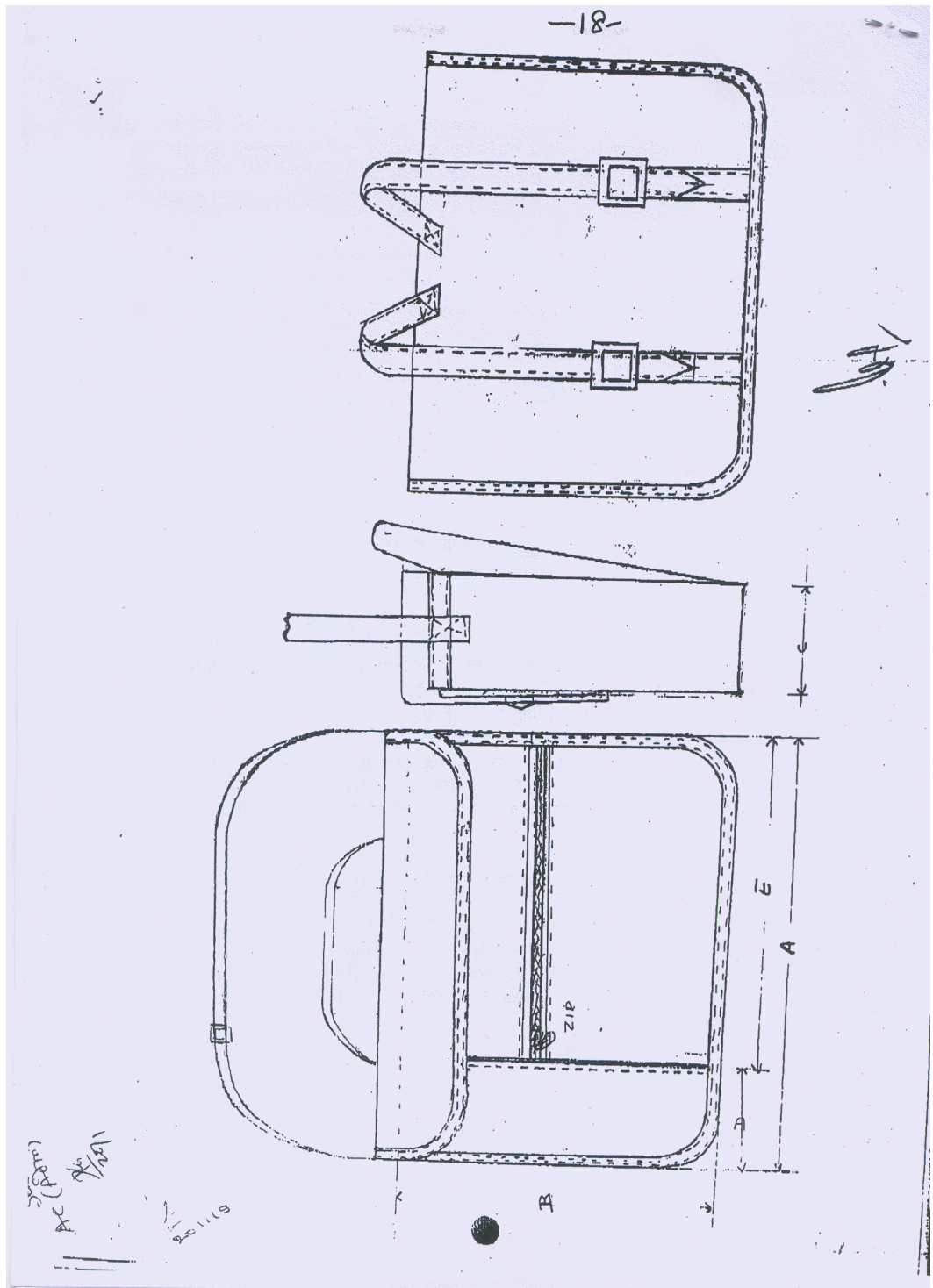
- Manufacturer's name or registered trade-mark or code(if any)
- Name / symbol Government & Elementary education department.
- Any other logo/ messages as required shall be screen printed on the pocket in front of bag in 23X27 cm size.

10. DIGITAL CODING:

School bags are to be serially numbered with 15 digit numbering with automatic online numbering machines. The number will consist of state code(1 digit)district code(two digit) NVS code (3 digit)year code(two digit)supplier code(2 digit)& serial number of bag(5 digit). This coding is to be done in a box of 1x7 cm in upper right corner of the bag & will contain micro lettered border with name of the department. The area underneath the numbering box will be printed with special security anti counterfeiting ink which would have taggant codes for verification by machine readable technology using electronic authenticator readers. For verification, samples of such bags with numbering, micro lettering, Machine readable taggant security ink coding having the above properties is to be given within 15 days of supply order. The department with electronic authenticator will verify the samples for above mentioned features in printing.

11. PACKAGING & LABELING:

Bags should be packed in a strong, export quality cartons & labeled with complete address of concerned office, contents & quantity. Each carton must be strapped horizontally & vertically. The packing material must be NEW with no marking writing etc. other than label. Used packing material must not be reused. All items must be packed suitably for rail/ road transportation adequate enough to withstand extreme rough handling & weather hazards.



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