

## BP Back pack specification

### 1. Material

Must be fine polyurethane material like Cordura 725 denier fabric or MIL-C-43734 class 3 textured nylon duck cloth

### 2. Volumetric capacity

It must be 40 liters

### 3. Dimensions

SL NO:	Characteristics	Requirements	
1	Length	Maximum 22	
2	Width	About 16"	
3	Thickness	About 17"	
4	Weight	About 7 lbs	
5	Weight carrying capacity	80 lbs	

### 4. Design

SL NO:	Characteristics	Requirements
1	Description of pouches in general	All pouches, unless stated otherwise. Must have zippers. When they are on the outside of the rucksack, they must be made of the same fabric as used in the main body of the rucksack. When the pouches are not of polyester mesh.
2	Main compartment of the rucksack	The zipper must open along the full length and width of the main compartment. Two symmetrically placed straps with snap buckles must be provided inside along the length of the width in the center of the length of the rucksack to secure the stuff kept there.
3	Pouches inside the main cavity of the rucksack	Inside the main compartment or cavity of the rucksack. There should be two pouches on the rear side of the rucksack. That is. The side

		which is towards the back of the wearer and touches it .They should be on top of each other along the length. The top pouch should be dimensions not less than 9” in the height and 12” width. The bottom pouch should be of dimensions not less than 8” in height and 12”in width
4	Two side pouches	Two side pouches on each side with fully closing cover flaps Must be provided on the thickness of the rucksack
5	Main front pouch on the outer side	This shall be on the outside of the front of the rucksack when it is worn. Its dimensions should not be less than 15”in height 12”in width and 3” in thickness On its outer side there should be a Pouch Attachment ladder system (PALS) as used in the MOLLE (Modular Light weight individual Load-carrying equipment system) Pack of the US army. Of interwoven straps to attach small pouches, Accessory carriers and other attachments. This must have 5 plain straps with 5 loops each and two velcroed straps with 5 loops each
6	Pouch inside the outer flap of the main front pouch	On the inside of the outer flap of the main front pouch there should be a pouch of dimensions not less than 6” in height and 11” in width
7	Pouch inside the inner rear side flap of the main front pouch	There shall be 3 pouches stacked on the top of each other along the thickness of the rucksack. They shall be successively smaller.
8	Pouch on top of the front outer side of the rucksack	This pouch shall sit above the main front pouch described above. The shape of this pouch shall blend with the contours of the loop of the rucksack
9	Stitching	Heavy duty tight double stitching preferably by Cordura though nylon would not be a disqualification . The rucksack must be

		evenly stitched free from missed stitches , holes ,cuts ,puckering and other defects .
10	Padding in general	All padding must be of polyurethane foam
11	Padding on the back	This refers to the padding on the rear inner side of the rucksack the surface that comes in contact with the back of the wearer. The padding is intended to serve two purposes. The first is to reduce the pressure on the back of the wearer so that it becomes more comfortable. The second is to create some space between the rucksack and the body so that there is ventilation, heat buildup is reduced and perspiration dries up. For this reason padding on the back must be modular and not continuous on the whole area. The padding at the bottom that is the part that is in contact with the lower back must be not less than 3cm thick. The padding at the top that is the part that is in contact with the back must be 4 appropriately contoured modules not less than 2cm thick and width not more than 1” -1.5” space between them .
12	Shoulder straps	Fully adjustable with snap lock buckle. They must be appropriately contoured with a padding that must not be less than half an inch thick. The shoulder strap must not be less than 3” wide at its maximum and must be connected by a nylon belt not less than 1” wide.
13	Hip belt	Fully adjustable with snap lock buckle. They must be appropriately contoured with a padding that must not be less than half an inch thick. The hip belt must not be less than 5.3” wide at its maximum 3.5” at its minimum. It must be connected by a nylon belt and snap lock buckle not less than 2” wide
14	Zippers	All zips used in the rucksack must be heavy duty metallic or synthetic ones. All zips must have provision for pulling the slides from both ends. They should have heavy duty 3” long nylon cord loops at the ends to make

		pulling of the zipper easier in the dark without fumbling.
15	Snap-lock buckles	All buckles must be of plastic and not metal. All the clasps must lock with direct insertion and must open with a single application of two fingers on the sides.

## **WORKMANSHIP AND FINSH**

The general workmanship and finish must be of high standard. The rucksack shall be free from stitching defects like uneven stitch, puckering, gathering of threads, cuts and holes, streaky or patchy dyeing, stains and any other spots affecting the aesthetic appearance.

- **Above these :-**

- The supplier should have well-equipped office/workshop for maintenance.
- Supplier should have direct authorization from the Original Equipment Manufacturer (OEM) to participate in the tender. Necessary authorization documents should be made available in this regard
- The name of the OEM along with the contact telephone numbers, addresses, fax numbers & e-mail address may be available for confirmations with the OEM about the status of the supplier.
- AMC proposal for a period of 5 years after the warranty period, should be enclosed with the tender proposal.
- AMC should be expressed as percentage of Total Product Value (TPV) separately for each year of AMC.
- Tender will be valued based on the net liability to department which includes the product cost and AMC cost.