F.No. U.II-98(Spec.)/2012-13-Prov(Ruck Sack)-MHA-Prov-I — 1 2 हे 5 भारत सरकार/Government of India

गृह मंत्रालय/Ministry of Home Affairs
पुलिस आधुनिकीकरण प्रभाग /Police Modernization Division
संभरण-। डेस्क /Prov.। Desk

Jaisalmer House, 26, Man Singh Road, New Delhi, the De November, 2016

To,

The DsG: AR (through LOAR), BSF, CISF, CRPF, ITBP, NSG, SSB & BPR&D.

Subject: Revised QRs & Trial Directives of Ruck Sack (70-85 Ltrs) for all CAPFs.

The undersigned is directed to refer to the subject mentioned above and to say that the Revised QRs and Trial Directive in respect of Ruck Sack (70- 85 Ltrs) as per Annex-I and Annex-II respectively have been approved by the competent authority in MHA.

- 2. Henceforth, all the CAPFs should procure the above items required by them strictly as per the laid down QRs and TDs of Ruck Sack (70- 85 Ltrs).
- 3. Concerned CAPFs will be accountable for correctness of the QRs and Trial Directives of Ruck Sack (70-85 Ltrs).
- 4. QRs/Specifications of Ruck Sack (70-100 Ltrs) issued earlier vide MHA's letter No. U.II-98(Spec.)/12-13-Prov(Ruck Sack) dated 12.2.2013 is rescinded.

Encl: As above.

Yours faithfully,

(Ritesh Kumar)

Under Secretary to the Govt. of India

Copy forwarded for necessary action to: SO (IT), MHA - with the request to host the Trial Directives on official website of MHA (under the page of Organizational Set up, Police Modernization Division-Clothing items) and remove earlier QRs/Specifications of Ruck Sack (70-100 Ltrs) vide MHA's letter No. U.II-98(Spec.)/12-13-Prov(Ruck Sack) dated 12.2.2013. Soft copy is being sent through email also.

(V. Devadas) Section officer (Prov-I)

Copy to: Director (Procurement), MHA

Revised QRs/Specification of Ruck Sack(70-85 Ltrs)

SI. No.	Parameter	Requirement in Specification		
1	Туре	Top Loader with detachment pack		
2	Compartment	One Bottom Compartment		
		 One Top Compartment with central Zip and draw cord and skirting top lid with pocket & side compartments Detachable Pack of 08 Ltrs±10% with provision for carriage of a water bottle 		
3	Featuring	 Top Compression straps. Side Compression Straps. Front Compression Straps. Adjustable Lid Closure. Adjustable back system with top and bottom load adjusters. Padded and S shaped shoulder straps with sternum strap. Padded and curved waist belt. 		
		Dimensions of Pockets:- i) Right Side Pocket-38(±3) cm x 10(±1) cmx 9(±1) cms ii) Front Pocket-51(±4)cm x 26(±1)cm x 9(±1)cms iii) Main Compartment-60(±5)cm x 35(±3)cm x 23(±2)cms iv) Upper Left side Pocket-21(±1)cm x 10 (±1)cm x 5(±1)cms v) Lower Left Side Pocket-17(±2)cm x 10(±1)cm x 5(±1)cms Main compartment divider can be released to create one large compartment. Side waist belt adjusters.		
4	Fabric Used	a) Main Fabric (Base Fabric):- Nylon 6,6, PU Coated 1000 Den. (Appendix-4-1) GSM 360 minimum b) Lining Fabric:- Shell Lining 190* Taffeta, GSM 105 minimum *190T denotes thread count i.e. EPI+PPI (±5% tolerance)		
5	Webbing	Nylon Tapes (Nylon Six HT Filament yarn)		
6	Volume(approx)	Minimum 70 Ltrs to Maximum 85 Ltrs Dimension of main Compartment:- Lenth-70±5cm Width-40±3cm Height-25±2cm		
7	Extras	Attachment foldable combat colour cover with RUCK SACK of synthetic water proof material		

Approved/ Not Approved

K. Được Prasad, IPS,

<u>DG CRPF</u>

Appendix-A-1

1000 D Cordura Specs or its equivalent

SI.	Characteristics	Requirement	Method
No			
1	Nature of Fibre/Filament	100% Nylon 66 Air Textured	AATCC20:2010
2	Nature of Coating	Polyurethane	
3	Weave	Plain-1 up 1 down	Visual
4	GSM	370 Max	IS 1964:1970
5	Tearing Strength(N)		IS 6489: 1993
	-Warp(minimum)	300	
	-Weft(minimum)	220	2000004
6	Breaking Strength		IS 1969
	-Warp(minimum)	3000	
	-Weft(minimum)	2400	
7	Abrasion Resistance(Martindale)-	No thread breakage	IS 12673:1989
	After 50000 cycles		
8	Colour fastness to washing		IS/ISO 105 C10-C(3)
	-Change in colour	4 or better	
	-staining to adjacent fabric	4 or better	
9	Colour fastness to perspiration		IS 971:1983
	-Change in colour	4 or better	
	-Staining to adjacent fabric	4 or better	
10	Colour fastness to rubbing		IS 766:1988
	-Dry	4 or better	
	-Wet	4 or better	
11	Colour fastness to light	5 or better	IS 2454:1989
12	Dimensional change due to	2.0	IS 2977: 1989
	relaxations, both directions,		
	percentage, maximum		
13	Water proofness (Hydrostatic	No percolation of water	IS 7016 Part VII(A-2)
	pressure head test at 30 cm water	through the fabric or wetting	
	column height for 60 mins)	of the outer surface	
14	Water repellency (uncoated face)	Spray rating Min. 80	IS 390: 1975
15	Separation of PU film	On fraying threads in warp and weft directions up to 5	
	-	mm after cutting the fabric	• -
		shall not be a continuous PU	
		where the threads been remove	
16	Resistance to accelerated ageing at	There shall not be any	IS 70 7016 Pt.
	70 C±1C for 168 hrs in hot air	softening, stiffening,	VII:1975
	circulating oven	tackiness, discolouration and	
		objectionable odour	
17	Resistance to damage by Flexing	There shall not be any	IS 7016 Pt. IV:1987
	after 1,00,000 cycles	wrinkling, cracking flaking	
18	pH of Aqueous extract	6.0-8.0	IS 1390: 1983(Cold
	·		Method)

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TRIAL DIRECTIVES OF RUCK SACK(70-85 LTRS)

AIM

To frame trial directives to facilitate board of Officers to carryout physical/technical evaluation of Samples of Ruck Sack at the time of procurement.

Composition of the Trial

The trial will be conducted on the basis of

- a) Physical specification:- To be checked by BOO
- b) Technical Specification:- NABL accredited lab test report as per requirement of ORs.

No part of accessory of Ruck Sack will be replaced/changed once the technical evaluation of tender sample has commenced.

General requirement

Following men material should be available during the trial procedure.

- a. Advance Sample of Ruck Sack as per QRs.
- b. Measuring tape & weighting machine.
- c. Magnate to check aluminum/brass item.
- d. Computer with printer.
- e. Calculator.
- f. Sufficient stationery including clip board, plain papers, pen & pencils.

General Instructions:

- a) This Trial Directive is issued to assist and guide the evaluation committee. Nothing in this trial Directives absolves the BOOs from their responsibility to ensure that the evaluation is carried out strictly as per the specifications in every respect.
- b) The Evaluation Committed may carry out additional test which they consider necessary after seeking approval of Competent Authority to verify the quality of the tender sample with the specifications.

April 1999

TRIAL DIRECTIVES OF RUCK SACK 70 TO 85 LTRS

SI. QRs/Specification No.	Trial Directives
Parameter Requirements in Specific	cation
1 Type Top Loader with detact pack	
One top compartments central zip and dra and skirting, top pocket & compartments. Detachable Pack of ±10% with provisi carriage of a water	physically. The functional quality of a zipper lies in how smoothly it operates. Zips will be tested by opening and closing them a given number of times (minimum 100) and checked for whether they snag or require extra effort at any stage or leave any part

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3. Featuring

- Top Compression Straps.
- Side Compression Straps.
- Front Compression Straps
- Adjustable Lid Closure.
- Adjustable back system with top and bottom load adjusters.
- Padded and S shaped shoulder straps with sternum strap.
- Padded and curved waist belt.

The Board shall check physically the various straps by using the equipment.

- Snap-lock buckles: They will be tested for slippage by providing tension of 25 Kg Weight.
- Compression Straps should be made of Nylon Fabric.
- Adjustable back system shall be checked by Board by adjusting the Ruck Sack as per convenience. Padded, S shaped shoulder straps with sternum strap, padded and Curve waist belt should be checked by the Board to confirm utility for Force personnel by random sampling.
- The Board shall check physically the dimensions as per QRs/Specifications

Dimensions of Pockets:-

- (i) Right Side Pocket- $38(\pm 3)$ cm x $10(\pm 1)$ cm x $9(\pm 1)$ cms
- (ii) Front Pocket- $51(\pm 4)$ cm $\times 26(\pm 1)$ cm $\times 9(\pm 1)$ cms
- (iii) Main Compartment- $60(\pm 5)$ cm x $35(\pm 3)$ cm x $23(\pm 2)$ cms
- (iv) Upper Left Side Pocket-21 (± 1)cm x $10(\pm 1)$ cm x $5(\pm 1)$ cms
- (v) Lower Left Side Pocket $-17(\pm 2)$ cm x $10(\pm 1)$ cm x $5(\pm 1)$ cms
- Main compartment divider can be released to create one large compartment.
- Side Waist belt adjusters.

Dimensions of Pockets:-

- (i) Right Side Pocket-38(\pm 3)cm x $10(\pm 1)$ cm x $9(\pm 1)$ cms
- (ii) Front Pocket- $51(\pm 4)$ cm x $26(\pm 1)$ cm x $9(\pm 1)$ cms
- (iii) Main compartment- $60(\pm 5)$ cm x $35(\pm 3)$ cm x $23(\pm 2)$ cms
- (iv) Upper Left Side Pocket-21 (± 1) cm x $10(\pm 1)$ cm x $5(\pm 1)$ cms
- (v) Lower Left Side Pocket $-17(\pm 2)$ cm x 10(± 1) cm x 5(± 1) cms
- Provision of main compartment divider shall be checked physically by the Board.
- Side Waist belt adjusters shall be checked physically by Board by adjusting to confirm utility for Force personnel by random sampling.

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4	Fabric used	a) Main Fabric (Base Fabric):-	• T	he mater	ial Nylon	6,6, PU
4	rabile used	Nylon 6,6, PU Coated 1000		d 1000		
		Den. GSM 360 minimum				ning 190*
		b) Lining Fabric:- Shell				ım shall be
j		Lining 190* Taffeta, GSM				accredited
		105 minimum	labora			
				•	fastness:-	Colour
		*190T denotes thread count i.e.				S764:1979
		EPI+PPI				ng by IS
ŀ		(±5% tolerance)	,			rubbing by
	1	(=5,0 00.07.00.0 1)				and to light
						or better).
						nation will
					al inspecti	
				-	the Fabric	l l
				_		STM 3884
						00 grams.
						mum 2000.
						Martindale.
				50,000		no thread
				age should		
						2261 warp
						minimum
			48.41		` '	
			The N	NABL lab	report re	equired for
						s per CIE
						oserver. 10
			Degre	e Standar	d observei	;, 2:1 CMC
			(l:c)	for brow	n, green	and khaki
			colou	rs:-		
				X	Y	Z
			Brown	5.664	5.640	4.432
			Green	4.103	4.654	4.176
			Green	4.105	4.031	1.170
			Khaki	16.918	17.722	10.822
				L	С	Н
				L-		
			Brown	20 405	0.110	62 750
				28.485	8.448	63.758
			Green	25.725	5.988	135.782
			Green	43.143	3.700	133.702
			Khaki	49.157	19.275	87.970

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5	Webbing	Nylon Tapes (Nylon six HT	NABL accredited laboratory test
		Filament yarn)	report is required from the firm.
6	Volume (approx)	Minimum 70 Ltrs to Maximum 85 Ltrs Dimension of main Compartment:- Lenth-70±5cm Width-40±3cm Height-25±2cm	 NABL accredited laboratory test report is required from the firm for confirming capacity of the Ruck Sack. Weight carrying capacity of the Ruck Sack:- The Ruck Sack will be loaded with 50 kg and hoisted a given number of times (minimum 50) by its main handle as well as by the shoulders straps to confirm holding of the weight without snapping, rupturing or giving way in any manner.
7	Extras	Attachment foldable combat coloured cover with RUCK SACK of synthetic water proof material.	 NABL accredited laboratory test report is required from the firm to confirm the material to be synthetic water proof. NABL accredited laboratory test is required to confirm colour code (disruptive pattern) The outer colour should be checked and confirmed to be OG.

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Approved/Not Approved

K. Durga Prasad, IPS,

<u>DG CRPF</u>