

No. IV-21011/39/2009-Prov.I  
Government of India  
Ministry of Home Affairs  
P M Division/Prov.I Desk

26, Mansingh Road, Jaisalmer House  
New Delhi, the 18<sup>th</sup> March, 2013

To,

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

**Subject : QRs and Trial Directives of Multipurpose Ladder**

Sir,

The QRs and Trial Directives in respect of Multi-purpose Ladder as per annexures have been accepted 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 Technical Specifications/QRs.

Yours faithfully,



(Smt. S B Nanda)  
Under Secretary(Prov.I)  
Tele : 23381278

Encl : As above.

Copy forwarded to :

SO(IT), MHA – with the request to host the QRs and Trial Directives (soft copy attached) on the MHA website (under the page of organizational set up Police Modernization Division).



(R K Soni)  
Section Officer(Prov.I)

Copy to :Director (Procurement), MHA  
Copy for information to PPS to JS(PM)

REVISED QRs OF MULTI PURPOSE LADDER




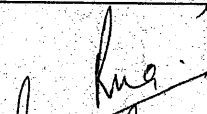

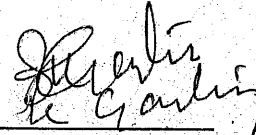
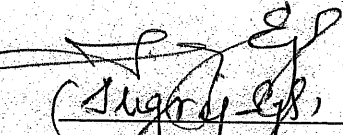

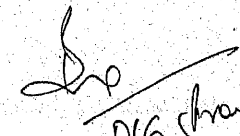
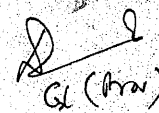
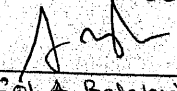
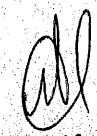
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1. **Rugged and Durable.** The ladder should be made of rugged (having a rough irregular surface) and durable material (capable of withstanding wear and tear or corrosion). The ladder joints should make minimum noise during handling and carriage even after prolonged usage.
2. **Foldable.** The ladder should be foldable / sliding and man-packed by back harness provided with the equipment.
3. **Weight Capacity.** The ladder even when extended to its maximum required height should be able to withstand the weight of two fully equipped troops climbing simultaneously (i.e. at least 200 Kgs.)
4. **Non Reflective Finish.** The ladder should be with non reflective finish. Color of the ladder to be specified by the user.
5. **Grip.** The rungs of the ladder should be designed to ensure better grip. The rungs should be securely locked with the stile and not loosen with use. All sections should be suitably serrated to provide better grip to hand and foot. The ladder should be equipped with adjustable shoes with buffer coating at the top and bottom ends to provide a firm grip, prevent slipping and making of noise.
6. **Mechanism for Extension.** Suitable mechanism for easy extension and locking between all sections to be provided.
7. **Hook in Device.** The ladder to be provided with hook in device at the top end to provide support during ops.
8. **Max Weight.** 14Kgs.
9. Distance/gap between two successive steps of ladder should be max 1foot and min ½ foot.
10. **Storage and operational conditions.** The ladder should be capable of operating between -20<sup>0</sup> C to + 55<sup>0</sup>C and can be stored between -30<sup>0</sup>C to +60<sup>0</sup>.

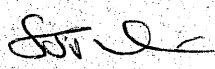
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11. Dimensions.

- (a) Length.
- (i) Retraced form - 1.2m (max).
  - (ii) Fully extended form - 3.2m (min).
- (b) Width - Minimum 0.35 meter

 SVT MANISH RAJ, BSE	 A.K. Shukla, AC, CISF	 Shiv Prasad Sati, AC/COO ITBP
 Rajeev Kana, AC, SSB	 (CAUTION COPY), Jyoti DCA (M) DCA (M)	 S. K. Gaur, AC/COO ACD/AC
 (Sugr) G.P., DCA/AC/AM	 LT COL VIRENDRA PANT ZTC (W/E), HQ, NSG	 D/G (Prov), NSS
 G (Prov)	 Lt Col A. Balakrishna OC BD Unit ✓	 MAJ ASHISH SINGH SL SAG

Approved / Not approved

  
4/1/21  
(Subhash Joshi)  
Director General, NSG

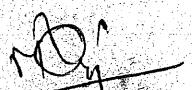
**TRIAL DIRECTIVES : MULTIPURPOSE LADDER**

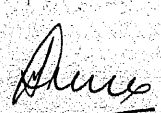
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<u>Ser No</u>	<u>Parameters</u>	<u>Method</u>	<u>Remarks</u>
1.	<b><u>Rugged and Durable.</u></b> The ladder to be made of rugged (having a rough irregular surface) and durable material (capable of withstanding wear and tear or corrosion). The ladder joints should make minimum noise during handling and carriage even after prolonged usage.	The ladder would be immersed in salt water for 12Hours to check anti rusting. After removing from salt water, there should not be any traces of rust or corrosion.	To be physically checked by the BOO.
2.	<b><u>Foldable.</u></b> The ladder should be foldable / sliding and man-packed by back harness provided with the equipment.	Back harness to be provided by the firm and will be checked on ground during trials.	
3.	<b><u>Weight Capacity.</u></b> The ladder even when extended to its maximum required height should be able to withstand the weight of two fully equipped troops climbing simultaneously (i.e. at least 200 Kgs.)	To be physically checked by BOO.	
4.	<b><u>Non Reflective Finish.</u></b> The ladder should be with non reflective finish. Color to be specified by the user.	To be physically checked by the BOO.	
5.	<b><u>Grip.</u></b> The rungs of the ladder should be designed to ensure better grip. The rungs should be securely locked with the stile and not loosen with use. All sections should be suitably serrated to provide better grip to hand and foot. The ladder should be equipped with adjustable shoes with buffer coating at the top and bottom ends to provide a firm grip, prevent slipping and making of noise.	To be demonstrated by the firm and to be physically checked by the BOO.	
6.	<b><u>Mechanism for Extension.</u></b> Suitable mechanism for easy extension and locking between all sections to be provided.	To be physically checked by the BOO.	
7.	<b><u>Hook in Device.</u></b> The ladder to be provided with hook in device at the top end to provide support during ops.	To be demonstrated by the firm and physically checked by the BOO.	


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8.	<b>Max Weight.</b> 14Kgs.	To be physically checked by the BOO.	
9.	Distance/gap between two successive steps of ladder should be max 1foot and min ½ foot.	To be physically checked by the BOO.	
10.	<b>Storage and operational conditions.</b> The ladder should be capable of operating between -20° C to + 55° C and can be stored between -30° C to +60°.	Certificate from the OEM/Firm will be the acceptance criteria.	
11.	<b>Dimensions.</b>  (a) Length.  (i) Retraced form -1.2M (max).  (ii) Fully extended form - 3.2m (min).  (b) Width. minimum 0.35 meter.	To be physically checked by the BOO.	

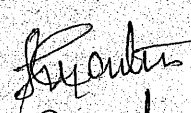
  
SIIT MANISH RAJ, BSF


  
A.K. Shukla AC, CISF

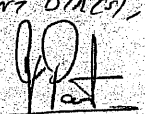
  
Shiv Prasad Sati AC/Gen ITBP

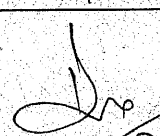
  
Rajeev Kana, AC, SSB

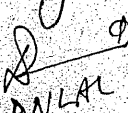
  
J. K. Gupta  
JOINT OIA (C), DGAD(S)

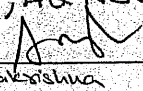
  
S. K. Gantam ABEDA


  
J. G. Singh, DGOM

  
LT COL VIRENDRA PANT  
2IC (WE), HQ NSG

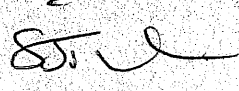
  
D. K. Singh, IAS

  
D. N. Lal (CAO)

  
LT Col A Babakrishna  
OC BD Unit

  
MAJ ARJUN SINGH  
SI SAG

**APPROVED/NOT APPROVED**

  
4/11/11  
**(Subhash Joshi)**  
Director General, NSG