

20 SEP 2016

No. IV-P/604/2016 (389)/HIT BOXES/NSG - 1454

भारत सरकार/Government of India

गृह मंत्रालय/Ministry of Home Affairs

पुलिस आधुनिकीकरण प्रभाग /Police Modernization Division

संभरण-I डेस्क/Prov.I Desk

26, Man Singh Road, Jaisalmer House,
New Delhi, the 16th September, 2016.

To.

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

Subject: Qualitative Requirements (QRs) and Trial Directives (TDs) of HIT Boxes.

The QRs and TDs in respect of HIT Boxes, as per Annex-I and Annex-II respectively have been approved by the Competent Authority in MHA.

2. All the CAPFs should procure the above item required by them strictly as per revised laid down QRs/TDs.

3. The concerned CAPF will be accountable for correctness of the QRs/TDs.

Encl: As above.

Yours faithfully,

R.K.
19/9/16

(Ritesh Kumar)

Under Secretary (Prov-I)

Tel: 2338 1278

Copy to:

1. SO (IT), MHA: with the request to upload the instant QRs and TDs (soft copy attached) of HIT Boxes on the MHA website (under the page of Organizational Set up-Police Modernization Division-Qualitative Requirement Specification under Equipment list).

2. DDG (Procurement), MHA

V.D.
19/9/16

(V. Devadas)

SO (Prov-I)

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QRs/SPECIFICATIONS OF HIT BOXES

S/No	Parameter	Specification
1.	Specification	<p>HIT box should be a ruggedized carrying case for all types of weapons, night vision devices, electronic devices, ammunition and other items for transportation by road, rail, commercial and military aircrafts (approved by ATA) so that products inside are not damaged.</p> <p>The HIT Box should have the capability to store weapon/equipment/electronic/optical surveillance gear/communication equipment/ other stores. (User organisation should define the dimensions and weight of the items to be carried in the box and total number of boxes while tendering).</p>
2.	Physical Characteristics	<p>(a) Material. Material used for the construction of HIT Box should be ROHS (Restriction of Hazardous Substances) Compliant. HIT Box should be made of ruggedised light weight military-grade, shock absorbent Polyolefin shell that reduces impact and steers shock away from the delicate equipment. Outer shell should flex to absorb and dissipate harmful impact, sparing the gear inside from the tortures of travel.</p> <p>(b) Dimensions. User organisation should specify the dimensions and total weight of the box as per the requirement in the tender with details of the items which need to be carried in the HIT box.</p> <p>(c) The material used should be anti-flaking and should not lose colour from long term outdoor usage.</p> <p>(d) The HIT Box should have proper latching and locking mechanism to prevent opening of the latches/locks in case of any impact or drop.</p> <p>(e) The Latches should be made of sturdy material, which is convenient to operate in field conditions with minimum efforts. Latches should be designed for replaceable in the field (1 set of spare latches to be provided with each box).</p> <p>(f) The HIT Boxes should be available in different colours like Black, Tan, Silver, Military Green or others depending on the requirement by the user. Box will carry embossed unit logo and name with picture on the box for identification as mentioned in the tender.</p> <p>(g) The HIT Box should have sturdy and foldable handles and wheels for easy carriage and mobility. Handles and wheels should be designed for replacement in the field (1 spare set to be provided with each box)</p> <p>(h) The HIT Box should have the provision for TSA (Transport Security Administration) USA standards for locking.</p>

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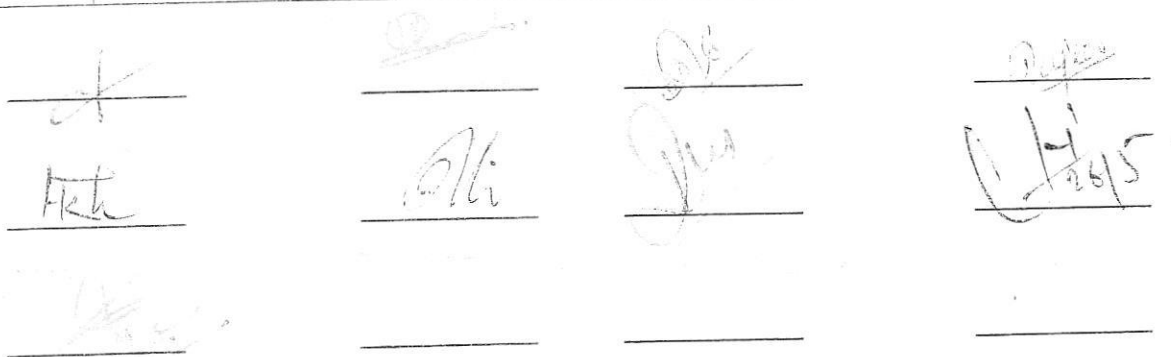
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QRs/SPECIFICATIONS OF HIT BOXES (Contd...)

S/No	Parameter	Specification
		(j) The Polyolefin HIT Boxes should have:- (i) Reinforced corners and edges for additional impact protection. (ii) Locks, which prevent lid separation after impact, and reduce stress on hardware. (iii) Moulded-in ribs and corrugations for secure, non-slip stacking, columnar strength, and added protection. (k) The identical HIT Box should be designed to stack over one another to prevent slippage and fall while stacking/transporting. (l) The HIT Boxes should have Shelf-Life of min 10 Years. (m) Foam design. The foam inside the box should be custom engineered multiple density cross linked foam. The foam should be custom cut so that it can provide space for each items mentioned by the user organisation to be transported in the box. Foam space will look like one single block of foam.
3.	Environmental conditions	<p>Water Proof. The HIT Box should be water proof and should comply to IP 67 Stds for water proofing. It should have Gasketed parting lines for splash resistance and tight seals.</p> <p>Weather Proof. Mil-Spec 810G Environmental Sealing on the HIT box.</p> <p>Shock proof. Mil-Spec 810G.</p> <p>Bump protection. HIT Box along with foam should be built for bump protection so that it is able to take the harmful impact while in transport.</p> <p>Vibration Test. The HIT Box should comply to Vibration test as per MIL-810G.</p> <p>Strength. Box design should facilitate stacking of the boxes one over another for transportation in Military Aircraft, additionally should be capable to take the load of min 300 Kgs.</p>



Four sets of horizontal lines with handwritten signatures or initials above and below them. The signatures are in various styles, including cursive and block letters. One signature on the right includes a date '1/14/15'.

QRs/SPECIFICATIONS OF HIT BOXES (Contd...)

S/No	Parameter	Specification
		<p><u>Operational Temperature.</u> The HIT Box should retain its specifications from -20° Celsius to +55° Celsius at 95% humidity.</p> <p><u>Storage temp.</u> The HIT Box should retain its specifications from -20° Celsius to +60° Celsius.</p>

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Lt Col Anil Singhania
AR

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[Signature]
(Harjinder Kumar)
DC Smt Bst

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Maj R Singh
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(RC Tayal)
DG, NSG
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TRIAL DIRECTIVES FOR HIT BOXES

Ser No	Parameter	Specification	Trial Directives
1.	Specification	<p>HIT box should be a ruggedized carrying case for all types of weapons, night vision devices, electronic devices, ammunition and other items for transportation by road, rail, commercial and military aircrafts (approved by ATA) so that products inside are not damaged.</p> <p>The HIT Box should have the capability to store weapon/equipment/electronic/optical surveillance gear/ communication equipment/ other stores. (User organisation should define the dimensions and weight of the items to be carried in the box and total number of boxes while tendering).</p>	<p>Supplier will submit 01 HIT box sample designed ergonomically to the weapon, night vision devices, electronic devices, ammunition and other items with proper cut-outs of Foam as desired by the user force in the tender to the board of officers.</p>
2.	Physical Characteristics	<p>(a) Material. Material used for the construction of HIT Box should be ROHS (Restriction of Hazardous Substances) Compliant. HIT Box should be made of ruggedised light weight military-grade, shock absorbent Polyolefin shell that reduces impact and steers shock away from the delicate equipment. Outer shell should flex to absorb and dissipate harmful impact, sparing the gear inside from the tortures of travel.</p> <p>(b) Dimensions. User organisation should specify the dimensions and total weight of the box as per the requirement in the tender with details of the items which need to be carried in the HIT box.</p>	<p>Certificate from a NABL/International Accredited Lab to be submitted by the vendor. BOO to check the authenticity of the same.</p> <p>To be physically checked by the BOO.</p>

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TRIAL DIRECTIVES FOR HIT BOXES (Contd...)

Ser No	Parameter	Specification	Trial Directives
		(c) The material used should be anti-flaking and should not lose colour from long term outdoor usage.	Certificate from a NABL/International Accredited Lab to be submitted by the vendor. BOO to verify the same.
		(d) The HIT Box should have proper latching and locking mechanism to prevent opening of the latches/locks in case of any impact or drop.	To be physically checked by the BOO.
		(e) The Latches should be made of Metal, preferably Stainless Steel which is convenient to operate in field conditions with minimum efforts. Latches should be designed for replaceable in the field (1 set of spare latches to be provided with each box).	Certificate from a NABL/International Accredited Lab to be submitted by the vendor. BOO to verify the same.
		(f) The HIT Boxes should be available in different colours like Black, Tan, Silver, Military Green or others depending on the requirement by the user. Box will carry embossed unit logo and name with picture on the box for identification as mentioned in the tender.	OEM to provide a cert with sample of HIT Box. BOO to verify the same.
		(g) The HIT Box should have sturdy and foldable handles and wheels for easy carriage and mobility. Handles and wheels should be designed for replacement in the field (1 spare set to be provided with each box)	To be physically checked by the BOO.
		(h) The HIT Box should have the provision for TSA (Transport Security Administration) USA standards for locking.	Certificate from a NABL/International Accredited Lab to be submitted by the vendor. BOO to verify the same.

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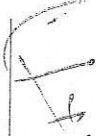



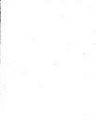
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TRIAL DIRECTIVES FOR HIT BOXES (Contd...)

Ser No	Parameter	Specification	Trial Directives
		(j) The Polyolefin HIT Boxes should have:-	
		(i) Reinforced corners and edges for additional impact protection.	To be physically checked by the BOO.
		(ii) Locks, which prevent lid separation after impact, and reduce stress on hardware.	To be physically checked by the BOO.
		(iii) Moulded-in ribs and corrugations for secure, non-slip stacking, columnar strength, and added protection.	To be physically checked by the BOO.
		(k) The identical HIT Box should be designed to stack over one another to prevent slippage and fall while stacking/transporting.	To be physically checked by the BOO.
		(l) The HIT Boxes should have Shelf-Life of min 10 Years.	OEM to provide a cert. BOO to verify the same.
		(m) Foam design. The foam inside the box should be custom engineered multiple density cross linked foam. The foam should be custom cut so that it can provide space for each items mentioned by the user organisation to be transported in the box. Foam space will look like one single block of foam.	To be physically checked by the BOO.

TRIAL DIRECTIVES FOR HIT BOXES (Contd...)

Ser No	Parameter	Specification	Trial Directives
3.	Environmental conditions	<p>Water Proof. The HIT Box should be water proof and should comply to IP 67 Stds for water proofing. It should have Gasketed parting lines for splash resistance and tight seals.</p> <p>Weather Proof. Mil-Spec 810G Environmental Sealing on the HIT box.</p> <p>Shock proof. Mil-Spec 810G.</p> <p>Bump protection. HIT Box along with foam should be built for bump protection so that it is able to take the harmful impact while in transport.</p> <p>Vibration Test. The HIT Box should comply to Vibration test as per MIL-810G.</p> <p>Strength. Box design should facilitate stacking of the boxes one over another for transportation in Military Aircraft, additionally should be capable to take the load of min 300 Kgs.</p>	<p>(i) Certificate from a NABL/International Accredited Lab to be submitted by the vendor separately for the relevant Stds. BOO to verify the same.</p> <p>(ii) The following tests will be conducted by the BOO:-</p> <p>(a) Drop Test. The HIT box will be dropped from a height of 2 mtr on concrete surface stored with an optical sight and defined laden weight (to be provided by the vendor), the equipment stored and the HIT Box should not suffer any damage.</p> <p>(b) Water Immersion Test. The HIT box will be immersed at 2 mtr depth in a water tank with an optical sight and defined laden weight (to be provided by the vendor), for a duration of 30 minutes, there should be no ingress of water in the HIT Box.</p>

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TRIAL DIRECTIVES FOR HIT BOXES (Contd..)

Ser No	Parameter	Specification	Trial Directives
		<p>Operational Temperature. The HIT Box should retain its specifications from -20° Celsius to +55° Celsius at 95% humidity.</p> <p>Storage temp. The HIT Box should retain its specifications from -20° Celsius to +60° Celsius.</p>	<p>(c) Strength Test. 300 Kg weight will be placed on top of the HIT box for 2 hrs, the HIT box should retain its physical parameters as original and should not suffer any damage.</p>

Le (C) Hit Singhania
HR

Ali
Proj R Shiva
The Curve, HR, India

DR. HANU MURARI
TEAM COORDINATOR

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(At/Under Dept)
Dr HRSP

Sanjay Kumar
Dr HRSP

Dr. H. S. G. S.
At/Under Dept
Dr HRSP

H. K. K. K.
(At/Under Dept)
Dr HRSP

APPROVED / NOT APPROVED

(RC Tayal)
DG, NSG