

F/No-27/1357/2012/TPT/BSF/MHA/Prov-I 1379  
Bharat Sarkar/Government of India  
Griha Mantralaya/Ministry of Home Affairs  
PM Division/Prov.I Desk

26, Man Singh Road, Jaisalmer House  
New Delhi, Dated 10<sup>th</sup> July, 2015

To,

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

**Subject:** QRs and Trial Directive for Horse Float.

Sir,

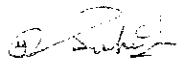
The QRs and Trial Directives in respect of Horse Float as per Annexure have been accepted by the Competent Authority in MHA.

2. The CAPFs concerned will be accountable for correctness of the QRs/Trial Directives

3. Henceforth, all the CAPFs should procure the above item required by them strictly as per the laid down Technical Specifications QRs.

Yours faithfully,

Encl: as above

  
(Manohar N. Sukole)

Under Secretary to the Govt. of India  
Tel: 23381278

Copy forwarded for necessary action to :-

✓ SO (IT), MHA : It is requested to host the QRs and Trial Directives (soft copy attached) on the MHA website (under the page of Organizational Set up- Police Modernization Division- Qualitative Requirement under Vehicle Equipments.



(Ritesh Kumar)  
Section Officer (Prov-II)

Copy to: DDG (Procurement) MHA.

RECOMMENDED QRS/SPECIFICATION OF HORSE FLOAT VEHICLE

INTRODUCTION

The BSF is deployed on the extreme borders of the country having varied roads/climatic conditions and hostile terrain. Most of these areas are rugged and difficult to negotiate. BSF is maintaining horse fleets for border equitation meets and various ceremonial parades at different parts of the country. In order to maintain proper vigil on the border with the help of horses, equitation meets and other ceremonial parades, the requirement of Horse Float Vehicles for the safe transportation of horses is felt one of the essential factors to accomplish the assigned tasks. But the available MT Fleet of BSF is not adequate to meet the requirement. Thus, in order to facilitate transportation of horses, the provision of Horse Float Vehicles is felt an essential requirement. Therefore, the BSF decided to include the Horse Float Vehicles in its MT Fleet.

(A) HORSE FLOAT - CHASSIS

<u>S/No</u>	<u>Specification</u>	<u>Recommended QRS</u>
<u>ENGINE</u>		
01.	Emission Norms	Bharat Stage-III or better and should meet C.M.R norms.
02.	Type	Water cooled, direct injection turbo charged, inter cooled diesel engine.
03.	Body Design	Should be designed with the carrying capacity of maximum 06 horses in 02 different compartments i.e. 03 in each compartment with a central escort compartment for monitoring horse while on move.
04.	Min. Engine Power	155 HP anywhere between 2400-2500 RPM
05.	Min. Torque	540 Nm at 1500-1600 RPM.
<u>CLUTCH</u>		
01.	Type	Single Plate, Dry Friction Type, preferably hydraulically operated.
<u>GEAR BOX</u>		
01.	Type	Synchromesh on all Forward Gears and Constant Mesh on Reverse Gear.
02.	Nos of Gears	Minimum 5 Forward and 1 Reverse or better.
<u>REAR AXLE</u>		
01.	Type	02 Nos (Minimum one live fully floating Axle shafts or better)

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**FRONT AXLE**

01.	Type	Extra Heavy Duty Forged I-Beam or better.
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**STEERING**

1.	Type	Power Steering.
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**BRAKES**

01.	Service Brakes	Dual Circuit Full Air S-Cam Brake System.
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02.	Parking Brakes	Spring Actuated parking brake acting on rear wheels with graduated hand brake valve or better.
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03.	Engire Exhaust Brake	Electro - Pneumatically operated and coupled with service brake or better.
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**FRAME**

01.	Type	Ladder type heavy duty frame with riveted/bolted cross members. Side members are of channel section.
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**SUSPENSION**

01.	Type	Semi Elliptical Leaf Springs at Front & Rear.
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02.	Shock Absorber	Hydraulic Double Acting Telescopic Type in front or better.
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**WHEELS & TYRES**

01.	Tyres	10.00 x 20 16 PR Radial.
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02.	Wheel Rims	Minimum 7.50 x 20
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03.	No. of Wheels	Minimum Front-2, Rear-8, Spare-1. (Total 11 Wheels)
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**FUEL TANK**

01.	Capacity	Fuel Tank capacity not less than 330 ltrs.
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**CABIN/Cowl**

01.	Type	Sleeper Cabin (Driver + Co-driver + 2 berth and standard seats with good cushioning for long distance travel) with provision for housing Generator Set and Cooler with ducting to supply cooled air in horse compartment between cabin and horse compartments.
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02.	Mild Steel Cabin	Cabin (Side & Top) - 18 gauge (Maximum) Cabin Floor - 12 gauge (Maximum)
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**ELECTRICAL SYSTEM**

01.	System Voltage	24 Volts.
02.	Alternator Capacity	35 Amps or more.
03.	Battery	2x12 Volts. 110Ah or above.
04.	Silent Generator 2.5 KVA. (Honda Yamaha Kirlosker/ Greaves Birla)	Should be provided in between Cabin & Horse compartment.
05.	Horse & Escort compartment should be compatible for receiving external electric power source. An additional 20 Mtrs Low Tension Wire should also be provided with sockets for this purpose.	

**CHASIS DIMENSIONS**

01.	Track Front Axle	1900 - 2100 mm
02.	Track Rear Axle	1800 - 2100 mm
03.	Width	Maximum 2440 mm
04.	Overall Length	Minimum 9000 mm
05.	Ground Clearance	Minimum 250 mm.
06.	Wheel base	Minimum 4825 mm.

**WEIGHTS (KGs)**


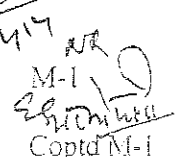
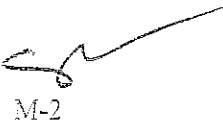


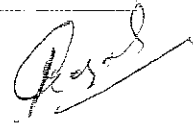
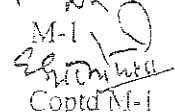
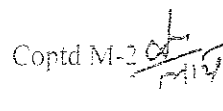
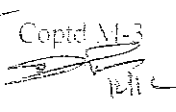


01.	Maximum Permissible rear axle weight	10000 Kgs.
02.	Maximum Permissible Front Axle Weight (FAW)	6000 Kgs
03.	Bare chassis kerb weight with cowl and spare wheel & tools	Maximum 6500 Kgs
04.	Maximum total weight (GVW)	25000 Kgs.

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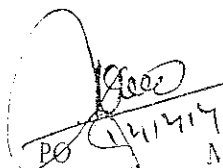


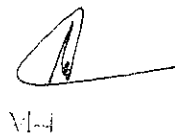


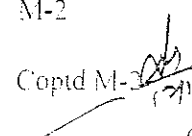
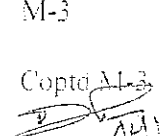
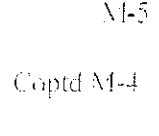

**(B) HORSE FLOAT (COMPARTMENT)**

01.	Application	To transport Horses and related accessories.
02.	Cabin Mild Steel	Horse compartment top - 18 gauge (Max.) Horse compartment side - 14 gauge (Max.) Horse compartment floor - 08 gauge (Max) [Chequered MS Sheet].
03.	Nos of Compartments	03 Compartments. Compartment 1 & 3 for horses facing each other with minimum required space 2.25 Sq Mtrs per horse and central compartment No.2 for escort/attendees.
04.	Horse Compartment No.1 & 3 (Essential Features)	<ul style="list-style-type: none"> <li>a) Horse compartments having space for three horses each with aluminium grided windows for ventilation of size 3 feet x 1.5 feet on sides and 2 feet x 2 feet on the rear door. Total 10 Nos of windows.</li> <li>b) 02 Aluminium grided separator properly hinged to be fitted in each compartment to house the horses separately.</li> <li>c) Detachable rubber padding be provided in both side of horse separators to reduce body impact.</li> <li>d) Large stainless steel bowl be fitted below the horse head for continuous feeding/watering purpose during transit.</li> <li>e) Saddle type neck support for horse comfort</li> <li>f) Heavy duty rubberised padding behind horses to reduce impact of kicking by horses on the walls.</li> <li>g) Chequered sheet based with good reinforcement with heavy duty rubberised flooring.</li> <li>h) Gradient of the floor should be on the back side of the horse.</li> <li>j) Adequate drainages for each horse compartment.</li> <li>k) One exhaust fan in each compartment on sides and two exhaust fans at rear door.</li> </ul>
05.	Escort Compartment (Essential Features)	<ul style="list-style-type: none"> <li>a) Should provide 2 Tier berth to house 04 personnel with provision for secure space for keeping personal belongings.</li> <li>b) Escort compartment be separated from horse compartments by meshed partition wall and be fitted with one side door.</li> <li>c) Minimum size of window 2.5 feet x 2.5 feet with sliding glass window.</li> <li>d) Four fans, one exhaust fan and one mobile charging point to be fitted in escort compartment</li> </ul>

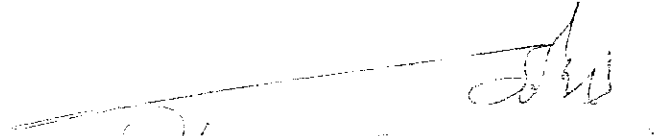
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06.	General Features	<ul style="list-style-type: none"> <li>a) Effective air flow (cross ventilation) in horse compartment.</li> <li>b) Washable interiors for easy cleaning of compartment excluding roof.</li> <li>c) All inner body finishing should be of highly antirust stainless steel and hard aluminium sheet wherever applicable.</li> <li>d) No pointed protruding sharp fittings and fixtures be used inside the horse compartment for horse safety.</li> <li>e) Entire body structure be anti rust galvanised coated.</li> <li>f) Should be Tubular box section structure construction.</li> </ul>
07.	Safety Features	<ul style="list-style-type: none"> <li>a) Alarm call bells at escort compartment for emergency contact with driver.</li> <li>b) See - through windows/grilled partition from driver's cabin to rear door.</li> <li>c) First aid box &amp; 2 Nos portable fire extinguishers ABC Dry powder of 2 Kgs at escort compartment i.e. compartment No.2.</li> <li>d) Warning sign with red light for horse wagon behind the vehicle.</li> <li>e) Height of vehicle should be in accordance of Para 4 of MV act.</li> <li>f) Each compartment should have temperature &amp; humidity gauges.</li> </ul>
08.	Ramp Design  Additional attachment, fittings and accessories.	<p>One each manually operated ramp for horse compartment 1 &amp; 3 should be designed in Anti Skid manner to load/unload the horse easily.</p> <ul style="list-style-type: none"> <li>a) 1 Nos grade SS PE Insulated water storage tank of 2 Nos (750 ltrs each) with capacity to store 1500 ltrs of water for horses during transit.</li> <li>b) Provision of iron grided carriage of size 1.5 feet with water proof bags to store feed/hay for the horses on the roof of the vehicle.</li> <li>c) Inbuilt water lifting pump (0.5 hp) to fetch the water to water storage tank.</li> <li>d) Every compartment should be well lit with tubelight/CFL.</li> </ul>
10.	Warranty	24 Months from the date of delivery.

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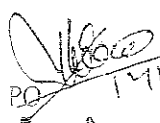
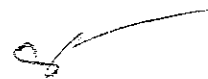


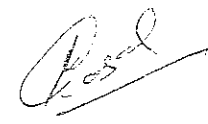
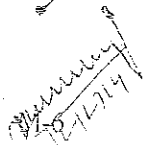
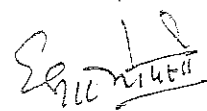
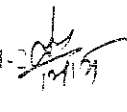

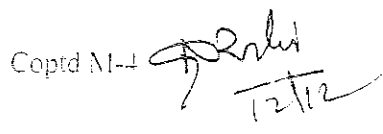
  
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OTHER RECOMMENDATIONS

- The firm should provide the following alongwith the Horse Compartment :-
- (a) Cleaning Kit (Flexible hose pipe 10 Mtrs length with nozzle. Brushes brooms of small, medium and big size).
  - (b) Standard vehicle carrying tool kit.
  - (c) Users Handbook in English and Hindi
  - (d) Literature on Preservation/Maintenance in Hindi and English
  - (e) Firm to give an undertaking that spares will be provided for 10 years as and when required by the users.
  - (f) Firm to provide list of Fast Moving Spares.
  - (g) ISI Make Fire Extinguishers Dry Powder ABC Type should be installed in both cabin and rear escort compartment.
  - (h) First Aid Box in the Compartment in addition to One provided in cabin.
  - (i) The manufacturer/fabricator of Horse Float should use only the reputed make of materials.
  - (j) Firm should give Two years warranty on Compartment irrespective of warranty of Prime Mover and workmanship.
  - (k) Manufacturer should provide construction details of Compartment alongwith structural design and relevant drawings.
  - (l) CCTV camera will be fitted with recording for 2 weeks. Monitoring will be provided in driver cabin and rear compartment.
  - (m) Rear compartment electrical wiring should be insulated fire proof and circuit breaker.
  - (n) All plumbing and piping should be made of stainless steel.
  - (o) Wash basin with tap and drainage facility to be fitted in escort compartment.

Recommendation : To meet specific requirements for transportation of horses in hilly areas, it is proposed that separate Board of Officers may be detailed for QRs-Specifications of Horse Floats for hilly region.

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**TRIAL DIRECTIVES FOR TRIAL OF HORSE FLOAT VEHICLE (CHASSIS AND COMPARTMENT)**

**APPENDIX-D**

Date of Trial \_\_\_\_\_  
 Time of Trial \_\_\_\_\_  
 Place of Trial \_\_\_\_\_  
 GR of Trial Area \_\_\_\_\_

Temperature \_\_\_\_\_  
 Altitude \_\_\_\_\_  
 Weather Condition \_\_\_\_\_  
 (Clear/Cloudy/Partially Cloudy/Hot and Humid/Rainy/Foggy and Windy)

S.N	Specification	Parameters	Procedure Suggested for Trial	Result expected/desired	Complied/Not Complied
(1)	(2)	(3)	(4)	(5)	(6)
(A) CHASSIS (PHYSICAL & OPERATIONAL SPECIFICATIONS)					
1.	Engine Emission Norms	Bharat Stage-III or better and should meet CMVR norms.	Engine emission norms should be checked and verified at local RTAs or any other Govt accredited agencies. As per OEM's certification about the engine type.	Should be as per QRs.	
2.	Engine Type	Water cooled, direct injection turbo charged, inter cooled diesel engine.	Extensive exercise for loading and unloading of horses should be carried out.	Should be checked. Owners manual.	
3.	Body Design	Should be designed with the carrying capacity of maximum 06 horses in 02 different compartments i.e. 03 in each compartment with a central escort compartment for monitoring horse while on move.		Should meet the parameters as per QRs.	
4.	Engine Power	155 HP anywhere between 2100-2500 RPM	As per OEM's certification about the engine.	Should be checked in Owners' Manual.	
5.	Min Torque	Minimum 540 Nm at 1500 RPM	As per OEM's certification about the engine.	-do-	
6.	Clutch	Single Plate, Dry Friction Type, preferably hydraulically operated.	Clutch should be applied after giving full payload.	-do-	
7.	Gear Box	Synchromesh on all Forward Gears and Constant Mesh on Reverse Gear. Minimum 5 Forward and 1 Reverse gear better.	All the front gears and rear reverse gear should be applied.	Should meet proper function.	

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8.	Steering	Power Steering.	Power steering of the vehicle will be tested by manoeuvring the Prime Mover and compartment under full load on different geographic terrain conditions.	All operations of steering should be easy enough to steer the fully loaded vehicle.
9.	Service Brakes	Dual Circuit Full Air S-Cam Brake System.	Brake should be applied/checked both on flat and normal slope in fully loaded condition.	In addition to the normal braking, ABS properties must also be achieved.
10.	Parking Brakes	Spring Actuated parking brake acting on rear wheels with graduated hand brake valve or better.	Parking brakes should be applied when the vehicles is standby in fully loaded condition on normal slopes.	Proper parking of the vehicle should be achieved.
11.	Engine Exhaust Brake	Electro Pneumatically operated and coupled with service brake.	Engine exhaust brakes should be applied while the complete vehicle with full load is coming down a slope.	Engine exhaust brakes should be able to assist the service brakes.
12.	Suspension Type	Semi Elliptical Leaf Springs at Front & Rear.	It should be verified as per OEM's certification and visual/physical inspection.	As per Owners' Manual.
13.	Suspension Shock Absorber	Hydraulic Double Acting Telescopic Type in front or better.	It should be verified by OEM's certification and visual/physical inspection.	-do-
14.	Tyres	10.00 x 20 16 PR Radial.	It should be verified by OEM's certification and physical/visual inspection.	-do-
15.	Fuel Tank Capacity	Fuel Tank capacity not less than 330 ltrs.	Tank capacity should be checked by physical measurement (Filling it completely).	-do-
16.	Cabin	Standard Cabin (Driver + Co-driver 2 berth and standard seat with good cushioning for long distance travel).	On visit by BOO.	As per QRS.

*As per QRS.*  
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17.	Electrical Voltage	24 Volts Elect. Circuit.	As per Owner's Manual.	All the electrical fittings should work properly.
18.	Alternator Capacity	35 Amps or more.	As per OEM's certification.	All the electrical fittings should work properly.
19.		2x12 Volts. 110Ah or above.	As per OEM's certification.	As per Owners' Manual.
20.	Track Axle	1900 - 2100 mm		
21.	Track Axle Trailing	1800 - 2100 mm		
22.	Minimum Width	Maximum 2440 mm		
23.	Overall Length	Minimum 9000 mm	Length to be measured physically with the help of metering tape/measuring tools.	Should meet all the criteria as specified in QRS.
24.	Ground Clearance	Minimum 250 mm		
25.	Wheel base	Minimum 4825 mm		
26.	Max. Permissible rear bogie weight	19000 Kgs	To be checked as per OEM's certification.	Should meet all the criteria as specified in QRS.
27.	Max. Permissible Front Axle Weight (FAW)	6000 Kgs	To be checked as per OEM's certification.	Should meet all the criteria as specified in QRS.
28.	Bare chassis kerb weight with cover and spare wheel & tools	Max. 6500 Kgs	To be checked as per OEM's certification.	Should meet all the criteria as specified in QRS.
29.	Maximum total weight (GVW)	25000 Kgs.	To be checked as per OEM's certification.	Should meet all the criteria as specified in QRS.

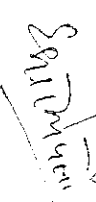
  
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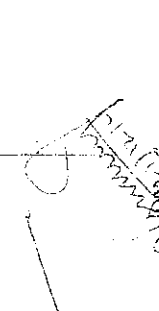
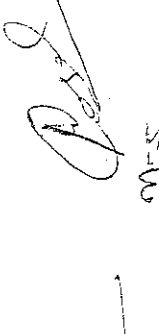
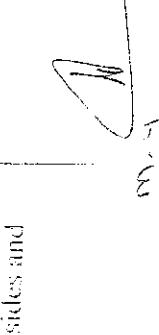
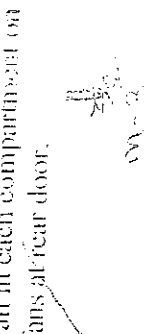
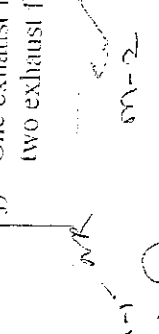


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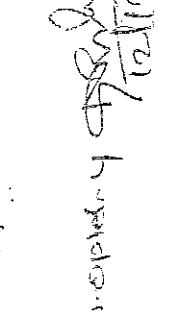

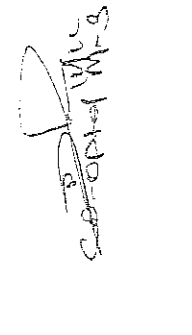
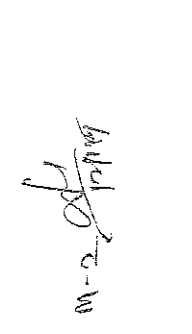
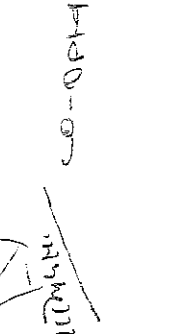
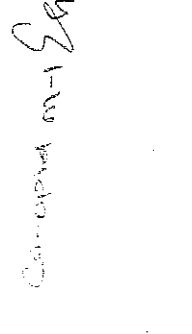



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**(B) COMPARTMENT (PHYSICAL & OPERATIONAL SPECIFICATIONS)**

01. Application	To transport Horses and related accessories.	To be physically checked by loading/unloading the horses & escort inside the compartments.	Horse Float should be able to facilitate easy loading, unloading and transportation of horses & escort.
02. Nos of Compartments	03 Compartments, Compartment 1 & 3 for horses facing each other with minimum required space 2.25 Sq Mtrs per horse and central compartment No.2 for escort/attendeess.	Should be physically checked and measured as per QRs.	
03. Horse Compartment No.1 & 3 (Essential Features)	<p>a) Horse compartments having space for three horses each with aluminium grided windows for ventilation of size 3 feet x 1.5 feet on sides and 2 feet x 2 feet on the rear door. Total 10 Nos of windows.</p> <p>b) 02 Aluminium grided separator properly hinged to be fitted in each compartment to house the horses separately.</p> <p>c) Detachable rubber padding be provided in both side of horse separators to reduce body impact.</p> <p>d) Large stainless steel bowl be fitted below the horse head for continuous feeding/watering purpose during transit.</p> <p>e) Saddle type neck support for horse comfort</p> <p>f) Heavy duty rubberised padding behind horses to reduce impact of kicking by horses on the walls.</p> <p>g) Chequered sheet based with good reinforcement with heavy duty rubberised flooring.</p> <p>h) Gradient of the floor should be on the back side of the horse.</p> <p>i) One exhaust fan in each compartment on sides and two exhaust fans at rear door.</p>	Should be physically checked during visit of BOO.	

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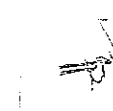



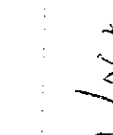



	<p>Dry powder of 2 Kgs at escort compartment i.e. compartment No.2.</p> <p>d) Warning sign with red light for horse wagon behind the vehicle.</p> <p>e) Height of vehicle should be in accordance of Para 4 of MV act.</p> <p>f) Each compartment should have temperature &amp; humidity gauges.</p>	
<p>08. Additional attachment, fittings and accessories.</p>	<p>a) Food grade SS PU Insulated water storage tanks - 02 Nos (750 ltrs each) with capacity to store 1500 Ltrs of water for horses during transit.</p> <p>b) Provision of iron gridded carriage of size 1.5 feet with water proof bags to store feed/hay for the horses on the roof of the vehicle.</p> <p>c) Inbuilt water lifting pump (0.5 hp) to fetch the water to water storage tank.</p>	<p>Should be checked with QRs by BOO.</p>


**09. CONCLUSION**

The Horse Float Vehicles are being procured by the BSF mainly to facilitate proper transportation of Horses and related accessories. Therefore, it is imperative that Horse Float vehicle fulfill all the parameters as mentioned in the trial directives, to draw benefits as per the capabilities to attain the objective of procurement. The Inspecting team will also satisfy themselves with the remaining physical parameters of all the general natures. Inspection by the BOO should be carried out while fabrication is under process as given below :-

- Ist Visit at the time of framing on chassis.
- IInd Visit at the time of placing/fitting body and cabin sheet.
- IIIrd Visit at the time of Body in white stage i.e. after fat treatment before painting.
- IVth visit at the time of final inspection and acceptance.

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Approved / Not Approved

  
 (D.K. PATHAK, IPS)  
 DG BSF