

संख्या. पी-63013/235/01/2026/मोड-1/सी0सु0बल/ 2736-39

भारत सरकार, गृह मंत्रालय
महानिदेशालय सीमा सुरक्षा बल
(रसद निदेशालय: आधुनिकीकरण सैल)
(Email-comdtord@bsf.nic.in)
(Fax: 011-24367683)

ब्लाक संख्या . 10,
सीजीओ काम्पलैक्स,
लोधी रोड, नई दिल्ली-03
दिनांक 25 जून 2026

वरिष्ठ तकनीकी निदेशक

The Senior Technical Director
राष्ट्रीय सूचना-विज्ञान केन्द्र, नोर्थ ब्लॉक,
गृह मंत्रालय, नई दिल्ली
NIC, North Block, MHA
New Delhi
(द्वारा ई-मेल)

(ई-मेल पता : mpsugandhi@nic.in)

Sub: **Request for comments of stakeholders/OEM on draft QRs & TDs**

कृपया गृह मंत्रालय के पत्र संख्या IV-24011/12/2011-Prov-I(part)(CFN 3300890)-
1710 दिनांक 31st Aug 2015 के सन्दर्भ में।

2. उपरोक्त विषयान्तर्गत सूचित किया जाता है कि तकनीकी विशेषज्ञों के उप समूह द्वारा "Boat Ambulance for Riverine Areas" के गुणात्मक आवश्यकता/परीक्षण निर्देशों के मसौदों का प्रारूप दिनांक 12 जून 2026 को आयोजित सभा के दौरान तैयार किया गया, जिसको इस आशय से प्रेषित किया जा रहा है कि उक्त उपकरण के गुणात्मक आवश्यकता/परीक्षण निर्देश को गृह मंत्रालय की वेबसाइट पर 15 दिन के लिए अपलोड करने का श्रम करें।

संलग्न: उपरोक्तनुसार

कपिल चाहर
(कपिल चाहर)
25/06/26

उप कमाण्डेंट (मोड)

प्रतिलिपि :-

1. SO (IT), North Block, MHA : उपरोक्त उपकरण के गुणात्मक आवश्यकता /परीक्षण निर्देशों के मसौदा को आपके सूचनार्थ एवं अग्रिम कार्यवाही हेतु प्रेषित किया जाता है।
(Through E-mail)
(E-mail address: soit@nic.in)
2. IT Wing, FHQ BSF : उपरोक्त उपकरण के गुणात्मक आवश्यकता /परीक्षण निर्देशों के मसौदे को सीमा सुरक्षा बल की वेबसाइट पर 15 दिन के लिए अपलोड करने का श्रम करें। आपसे अनुरोध है कि उक्त मसौदे को गृह मंत्रालय की वेबसाइट पर भी अपलोड करने हेतु निम्नलिखित पता पर ई-मेल करने का श्रम करें:-
(a) Technical Director, NIC, North Block, MHA
(E-mail : mpsugandhi@nic.in)
(b) SO (IT), North Block, MHA
(E-mail : soit@nic.in)
3. Prov Dte (WW), BSF : For information w.r.t your UO No.842 dated 04 June 2026.
4. File.

भारत सरकार, गृह मंत्रालय
महानिदेशालय सीमा सुरक्षा बल
(रसद निदेशालय: आधुनिकीकरण सैल)
ब्लाक संख्या . 10, सीजीओ काम्पलैक्स, लोधी रोड, नई दिल्ली-03
(Email-comdtord@bsf.nic.in)
(Fax: 011-24367683)

संख्या. पी-63013/235/01/2026/मोड-1/सी0सु0बल/

दिनांक ___ जून 2026

विषय : “Boat Ambulance for Riverine Areas” के गुणात्मक आवश्यकता/परीक्षण निर्देशों पर हितधारकों/निर्माताओं/विक्रेताओं की टिप्पणी के लिए अनुरोध।

“Boat Ambulance for Riverine Areas” के गुणात्मक आवश्यकता और परीक्षण निर्देशों को परिशिष्ट 'ए' के रूप में संलग्न किया गया है। हितधारकों/निर्माताओं/विक्रेताओं से अनुरोध किया जाता है कि वे उस उत्पाद की विस्तृत एवं स्टीक जानकारी दें। साथ ही प्रत्येक पैरामीटर के अनुरूप अपने उत्पाद के सही विवरणों को प्रस्तुत करें। सिर्फ 'अनुपालना' या 'अनुपालना नहीं' वाली टिप्पणी स्वीकार नहीं की जाएगी।

- क्या आप मूल उपकरण निर्माता/विक्रेता हैं?
- यदि विक्रेता मूल उपकरण निर्माता का विवरण देता है।
- मूल उपकरण निर्माता से प्राधिकरण प्रमाण पत्र।
- उत्पाद की मूल सूची।
- उत्पाद ब्रोशर एवं साहित्य रचना का ब्यौरा

1. आवश्यक जानकारी/विवरण 09 जुलाई 2026 तक निम्नलिखित पते पर भेजे जा सकते हैं।

रसद निदेशालय, सीमा सुरक्षा बल
लेवल-8, ब्लाक-10,
केन्द्रीय कार्यालय परिसर, लोधी रोड,
नई दिल्ली-110003
ईमेल:- comdtord@bsf.nic.in

2. शीघ्र प्रतिक्रिया का अनुरोध किया जाता है।

कपिल चाहर
25/06/26

(कपिल चाहर)

उप कमाण्डेंट (आधुनिकीकरण)

Government of India
Ministry of Home Affairs
Directorate General Border Security Force
(Prov Dte: Mod Cell)
Block No.10, CGO Complex, Lodhi Road, New Delhi-03
(Fax: 011-24367683, Email-comdtord@bsf.nic.in)

No. P-63013/235/01/2026/Mod-I/BSF/

Dated, the __June' 2026

Subject : Request for comments of stakeholders/OEM/Firms on QRs (Qualitative Requirements) & TDs (Trial Directives) of "Boat Ambulance for Riverine Areas"

The draft QRs/TDs "Boat Ambulance for Riverine Areas" is attached as **Appendix-'A'**. The OEMs/Vendors are requested to forward information of the product, which they can offer and also forward correct specifications of their system against each parameter. Only complied or not complied remarks will not be accepted. The firms are also requested to furnish the following details:-

- Whether you are OEM/Vendor?
- If vendor details of OEM.
- Authorization certificate from OEM.
- Original catalogue of the product
- Brochure/Literature of the product

2. The required information/details may please be forwarded at the following addresses by 09.07.2026.

Directorate General BSF,
Level-8, Block No. 10,
CGO Complex, Lodhi Road,
New Delhi-110003
Email: comdtord@bsf.nic.in

3. An early response is requested.


(**Kapil Chahar**)
Dy. Commandant (Mod)

DRAFT QRs & TDs OF BOAT AMBULANCE FOR RIVERINE AREAS

S/No	QRs Parameter	QRs Specification	Trial directives	Remarks
01.	Overview	<p>The boat shall be designed to operate and maneuvered safely and effectively at specified speed with full complement in specified for inland water/rivers of WW Dhubri, WW Madhopur and WW Masimpur. The Boats shall be highly versatile, very stable & resistant to capsize. The boat shall offer good maneuverability and throttle response throughout its speed range and particularly when coming alongside or breaking away from an underway boat at its full load and complement. The boat shall have propulsion, power generation, lifesaving protection and other engineering and electrical systems to carry out safe and reliable operation to perform the following functions.</p> <p>a) Use to transport sick and injured patient with Basic life support equipment. b) Limited search & Rescue (SAR)</p>	To be physically checked during trial/Inspection	
02	Class	Boat ambulance shall be designed & constructed as per IRS rules class notation IW(-), HSLC, RS2, for operation within Inland Water Limits or equivalent for construction of boat for operation in inland water/river. Boat should have 'V' shape planning hull with optimum dead rise angle to meet the desired speed and stability requirements.	To be physically checked during trial/Inspection	
03	Capacity	Boat ambulance shall have a capacity of 06 people on board including patient, Nursing & Crew staff. The boat shall be fitted with two out board motors (OBMs) of sufficient Horse power to generate speed in environmental conditions mentioned below.	To be physically checked during trail/Inspection	
04	Environmental Condition	<p>The equipment and the machinery fitted on the boat ambulance should be suitable for marine applications and capable of satisfactory operation, under the following environmental conditions: -</p> <p>(a) Wind speed upto 30 knots (b) Ambient air temperature from zero to +55 °C. (c) Water temperature from 10 °C to 40 °C. (d) Max relative humidity of 90% at 32 °C.</p>	General	
05	General Features	The boat shall be designed to be operational and maneuvered safely and effectively at specified speed with full complement in specified for inland water/rivers of WW Dhubri, WW Madhopur and WW Masimpur.. The Boats shall be highly versatile, very stable & resistant to capsize. The boat shall offer	Check the criteria with classification society as per class requirement.	

S/No	QRs Parameter	QRs Specification	Trial directives	Remarks
		good maneuverability and throttle response throughout its speed range and particularly when coming alongside or breaking away from an underway boat at its full load and complement. The boat shall have propulsion, power generation, lifesaving protection and other engineering and electrical systems to carry out safe and reliable operation meant for.		
06	Operating Profile	Engine Should be capable of annual exploitation of 600 Hours at upto max speed of 25 Knots	General	
07	Speed	(a) 25 knots with 04 POB including crew. (b) 20 knots at with 6 POB including patient at full load displacements.	To be checked during speed trial.	
08	Water state	Suitable for operation in inland water with wave height of 2 feet and adequate stability upto wave height of 4 feet.	To be checked during trial	
09.	Supervision during Construction	As the boats are being built as per class requirements, these would be inspected by the Classification Society. The Owner reserves the right to undertake additional inspections either directly or by third party. Boat builder would be required to provide all inspection facilities at yard premises to the inspecting team. Periodic reviews by the Owner would be conducted for ascertaining work progress by a team including technical member from user end.	Periodic check	
10	Dimension	Length of Hull Without appendages, OBM & bowsprit – 6.5 ± 0.2 mtrs. Breadth Overall Minimum - 2.5 mtrs Draft Mean draft not more than 0.4 mtr with full load. Boat should have optimum dead rise angle to meet the speed & stability criteria at Creek, Sea coast and inland water of India. Depth According to the Design.	To be physically checked during trial	
11	Hull	(a) The hull shall be constructed in accordance with classification society rules and shall be of single piece FRP/GRP mould with smooth mat finish scratch proof Gel coat outer finish in single mould. (b) Under deck includes longitudinal and transverse stiffeners and sub division bulkheads, with anti-flooding and damage control as per class requirements.	To be physically checked during trial	

S/No	QRs Parameter	QRs Specification	Trial directives	Remarks
		<p>(c) To have minimum draft for easy beaching and sail in shallow water. Bottom should be strengthened for this purpose.</p> <p>(d) FRP/Glass reinforcement plastic materials used in construction of the boat with comply with following standard: - Gel coat- IRS/IACS members approved. Vinyl ester Resin - IRS/IACS members approved. CSM'E' – IRS/IACS members approved.</p> <p>e) The hull should be strengthened to resist the slamming effect of the water waves as per sea state specified in QRs.</p> <p>f) The construction of the boat should be done in controlled temperature/humidity to gain the best lamination property.</p> <p>g) Under floor buoyancy as per class requirement.</p>		
12	Fender	<p>Boat shall have compact/good quality/ heavy duty rubber fender with suitable shape corresponding to the design all around the boat.</p> <p>04 Nos. pneumatic fender to be provided.</p>	To be physically checked during trial	
13	Accommodation /Cabin	<p>a. Spacious enough to accommodate of 06 pers including patients, nursing staff and crew and it should be air conditioned with adequate cooling for medical evacuation duties. Cabin should have 01 open able windows each for ports and STBD side.</p> <p>b. The cabin shall have adequate seating arrangement for 06 persons including crew, medical staff and patient.</p> <p>c. The accommodation shall have provision for 01 patient bed/stretchers with sufficient movement space for medical assistance during transit.</p> <p>d. Adequate space and mounting arrangement shall be provided for installation/storage of essential medical equipment.</p> <p>e. The cabin layout shall be ergonomically designed to ensure crew comfort, patient safety and ease of operation during prolonged journey.</p> <p>f. The cabin shall have proper ventilation, lighting and noise reduction arrangement for comfortable operation in all weather.</p> <p>g. Shock mitigating height adjustable seats for Helm's Master & Co-Driver, suitable hand grip shall be provided in front of co-driver.</p> <p>h. The area below deck forward of the helm provides a storage area, or could be used as a storage</p> <p>i. Provision of seat belt, hand-rails and toe grips.</p>	To be physically checked during trial	
14	Electrical	<p>(a) Power should be sufficient to charge the battery system.</p> <p>(b) Battery should be placed in the boxes suitability fixed.</p>	To be physically checked during trial	

S/No	QRs Parameter	QRs Specification	Trial directives	Remarks
		(c) The marine application battery with sufficient power to start the OBM and operate the navigational lights and accessories. (d) 01 No Adequate DG set class approved required to be provided to operate the air condition and other electrical equipment's fitted in boat.		
15	Floor	Anti-Skid floor/deck and All surfaces shall be of minimum maintenance and easy to clean. The areas of floor/deck shall have adequate handholds where ever required.	To be physically checked during trial	
16	Life Saving and firefighting Equipment	(i) 04 Nos class approved Hazardous Duty Life Jackets required to be provided with boat. (ii) Life jackets -06 Nos SOLAS approved type. (iii) Life buoy with life line – 02 Nos SOLAS approved type. (iv) Fire extinguisher as per class approved.	To be physically checked during trial	
17	Engine	The boat shall be fitted with Twin Four Stroke Petrol Out Board Motors (OBM) reputed make not less than 90 HP each with suitable propeller. The boat shall be fitted with remote wheel with suitable hydraulic steering system, remote trimming and tilting arrangement for engine and throttle/gear controls, tachometers, engines hour-meters, engine water temperature gauges, battery meters, and boat speed indicator, oil temperature. Oil pressure meter etc. OBM should be of world reputed make/model with advanced technology. The OBM should install along with all meter and accessories as per the OEM specification and instructions as per the manual. The OBM should have service facility in India with establish network of dealer and service centre.	To be physically checked during trial	
18	Endurance	The Boat should have endurance of 04 Hrs of continuous operation without refueling at the speed of 20 -25 knots with full load (with 10 % reserve fuel)	To be physically checked during trial	
19	Fuel Tanks	Two below-floor high quality FRP/Plastic fuel tanks of capacity to meet the endurance with extra 10% reserve shall be fitted. Fuel tank shall be fitted centre of the boat with proper hatches having cleaning facility. A fuel gauge for each tank shall be fitted having display on the instrument panel. Each tank shall supply only to its own- side OBM, which shall provide separation and redundancy in the fuel supply in case of contamination, damage etc. However, a synchronization system shall be provided to allow both OBM to be run with either tank in emergency in case of one fuel tank supply chocked. Two 25 Ltrs UV-resistant polyethylene fuel tanks may be stowed in addition for emergency use along with the accessories. Proper vent to be provided for de-vaporization. Water separator and filter detachable and transparent OEM of OBM make to be installed (to drain the separated water time to time).	To be physically checked during trial	

S/No	QRs Parameter	QRs Specification	Trial directives	Remarks
20	Navigation/Communication-Approved Type	<p>a) Simple bracket-mounted magnetic compass shall be fitted to the instrument panel.</p> <p>b) Removable type bracket mounted hand held GPS system with Colour Display unit.</p> <p>c) Suitable place for installation of VHF set bracket for fitting to its antenna.</p> <p>d) Navigational light to be provided Port/STBD side, and to be placed at a position to prevent damage from stacking at jetty.</p> <p>e) One 150mm/100 W hand held search light to be provided and facilitated to connect by 5 meter cable from panel arrangement run by on board battery.</p>	To be physically checked during trial.	
21	Lifting/Lashing	Four lifting points at freeboard top (freeboard should be strengthened accordingly) with single lifting center shall be provided for quadruple quick-release sling to enable simple lifting by crane. Supplier shall ensure that normal deck cleats of stainless steel marine grade SS 316 or superior are provided, as well as two stainless steel towing lugs. The supplier shall provide cradle for the stowage of boats. Load test certificate of four point lifting arrangement should be provided.	To be physically checked during trial	
22	Boat Equipment	<p>a. Galvanized Grapnel anchor as per class approved with 18 mm PP rope having 50 mtr length with sufficient breaking strength.</p> <p>b. Boat hook having 8' length of teak wood/ aluminium with Galvanized hook at the end.</p> <p>c. Oars 02 Nos with rowing lock.</p> <p>d. Pneumatic fender 04 Nos</p> <p>e. Mooring Lines 20 Mtr length, size 16mm PP rope of sufficient strength – 02 Nos</p> <p>f. Mooring line 30 mtr length, size 12 mm PP rope of sufficient strength – 02 Nos.</p> <p>g. Hard bamboo 1.5 inch X 9 feet length. 02 Nos</p>	To be physically checked during trial, NABL accredited lab test report.	
23	On Board Spares	Supplier will provide on board spares required for 600 hours run operation of the OBM as per OEM recommendations. List of on board spares to be furnished by the supplier in the tender documents.	Check the criteria with OBM OEM manual.	
24	Bilging arrangement	Hand operated and electrical bilge pumps be provided as per class requirement.	Check the criteria with classification society as per class requirement.	
25	Bollard and cleats	(Properly strengthened according to the class notation requirement) Bollards-03 Nos, 01 Fwd and 02 Aft Cleats -04 Nos 02 Fwd & 02 Aft	Check the criteria with classification	

S/No	QRs Parameter	QRs Specification	Trial directives	Remarks
26	Fitting & Fixture	All fitting & fixtures including nut, bolt, screw etc. shall be of SS-316 grade unless other materials are suitable for a particular application as per BIS standards.	society as per class requirement. To be physically checked during trial	
27	Materials	<p>(a) Vinyl ester resin should be used for construction of hull should be approved by IRS/any other member of the International Association of Classification Society (IACS).</p> <p>(b) Glass Reinforced Plastic materials used in construction such as Chopped Standard Mat, Woven Roving etc. shall be IRS/IACS member approved.</p> <p>(c) Core materials approved by IRS/IACS member.</p> <p>(d) All SS Material used in the Deck or any other places should be Marine Grade of SS 316.</p> <p>(e) Toughened Glass Wind Screen-Approved Type to be provided wherever necessary in front & side of Helm man & Co-driver seat</p> <p>(f) The quality of materials should be ensured/certified by classification society at every stage of construction.</p> <p>(g) Required rain water drain plug in the Boat to flush out rain water from the Boat.</p>	Check the criteria with classification society as per class requirement. NABL accredited Lab test reports.	
28	Certificate	<p>The following Certificate and Documents shall be supplied at the time of bid.</p> <p>a) Classification Certificate as the construction of boat according to the class notation mentioned at Srl No.2 above issued by Classification Society Rules.</p> <p>b) GA drawing along with other plans approved/Noted by class.</p> <p>c) The certificate of materials used in the construction of boat by Classification Society.</p>	Check the criteria with classification society as per class requirement.	
29	Classification Regulations & Marks on Hull, Superstructure, Colour Scheme	<p>Classification Regulations</p> <p>Boat shall be designed, built and outfitted to comply with all the applicable provisions and requirements of the current International Rules and Regulations of Classification Society State approved Statutory authority.</p> <p>Marks on Hull, Superstructure</p> <p>The Boat name, ID No, user emblem, National Flag, Ambulance is to be affixed to both sides of the hull at super structure level. Size and location to be as approved by purchaser.</p> <p>Colour Scheme: The outer skin of the fiberglass hull is to be gelcotted with white colour glossy finish. To protect the surface of the boat, sealing the fiberglass beneath from the elements including water moisture and the sun's ultraviolet rays.</p>	Check the criteria with classification society as per class requirement.	

S/No	QRs Parameter	QRs Specification			Trial directives	Remarks
30	Patients Bed arrangement along with other accessories	i.	Patient Bed with accessories	01 No	To be physically checked during trial	
		ii.	Scoop stretcher	01 No.		
		iii.	Oxygen cylinder with regulator & Mask	01 Set		
		iv.	Suction apparatus electric	01 No		
		v.	Ambu bag	01 No		
		vi.	Suture set	01 No		
		vii.	Nebulizer machine	01 No		
		viii.	Splints set	01 No		
		ix.	Cervical collar	01 No		
		x.	Spinal stretcher	01 No		
		xi.	Dressing drum	01 No		
		xii.	Hand held Glucometer with strip	01 No		
		xiii.	Emergency medicines Tray	01 No		
		xiv.	Syringe Infusion pump	01 No		
		xv.	Sphygmomanometer	01 No		
		xvi.	Spine board	01 No.		
		xvii.	Oximeter	01 No.		
31	Document	Boat should be supplied with documentations/drawings, fitted equipment details and Boat data Book.			To be physically checked during trial	
32	Guarantee/ Warranty	The firm will have to provide 01 years guarantee/warranty for boat ambulance from the date of acceptance of consignee location in satisfactory condition. Guarantee & warranty services on site (BSF deployment locations) shall be provided by the OEM/authorized service agencies of respective machineries.				

S/No	QRs Parameter	QRs Specification	Trial directives	Remarks
		The Guaranty / Warrantee shall be comprehensive The company will provide all the consumable items including oil / lubricant, filters, batteries, spares of all machineries (Except fuel) for the period of guarantee / warrantee on free of cost.		

तकनीकी विशेषज्ञों के उप समूह द्वारा यह निश्चित किया गया है कि उक्त गुणात्मक आवश्यकता को अधिक बेहतर बनाने के लिए गृह मंत्रालय एवं सीमा सुरक्षा बल की वैबसाईट पर विक्रेताओं/फर्मों के सुझाव प्राप्त करने हेतु 15 दिनों के लिए अपलोड किया जाए।

नोट - सभी विक्रेताओं/फर्मों से निवेदन है कि अपने सुझावों के साथ निम्नलिखित कागजात संलग्न कर ई-मेल पता comdtord@bsf.nic.in पर भेजने का श्रम करें:-

1. उत्पाद की वास्तविक विवरण पुस्तिका।
2. उत्पाद की साहित्यिक रचना का ब्यौरा।
3. गुणात्मक आवश्यकताओं के उपर व्यापक टिप्पणीयों।

कपिल चौहर
(कपिल चौहर)

उप कमांडेण्ट (आधुनिकीकरण)