संख्या. पी-63013/172/02/2026/मोड–I/सी0सु0बल/2293-97

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

ब्लाक संख्या . 10,
सीजीओ काम्पलैक्स,
लोधी रोड, नई दिल्ली–03
दिनांक 28 अक्टूबर 2026

वरिष्ठ तकनीकी निदेशक
The Senior Technical Director
राष्ट्रीय सूचना–विज्ञान केन्द्र, नोर्थ ब्लाक,
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 विष्यान्तर्गत सूचित किया जाता है कि तकनीकी विशेषज्ञों के उप समूह द्वारा **"All Terrain Vehicles for Carrying Seating Capacity of 10-14 Personnel"** के गुणातमक आवश्यकता/परीक्षण निर्देशों के मसौदें का प्रारुप दिनांक 01 सितम्बर 2026 को आयोजित सभा के दौरान तैयार किया गया, जिसको इस आशय से प्रेषित किया जा रहा है कि उक्त उपकरण के गुणातमक आवश्यकता/परीक्षण निर्देश को गृह मंत्रालय की वैबसाईट पर 15 दिन के लिए अपलोड करने का श्रम करें।

संलग्नः उपरोक्तनुसार

(कपिल चाहर)
उप कमाण्डेंट (मोड)

प्रतिलिपि :-

1. SO (IT), North Block, MHA **(Through E-mail)** **(E-mail address:** soit@nic.in) : उपरोक्त उपकरण के गुणातमक आवश्यकता /परीक्षण निर्देशों के मसौदा को आपके सूचनार्थ एवं अग्रिम कार्यवाही हेतु प्रेषित किया जाता है।
2. IT Wing, FHQ BSF : उपरोक्त उपकरण के गुणातमक आवश्यकता/परीक्षण निर्देशों के मसौदे को सीमा सुरक्षा बल की वैबसाईट पर 15 दिन के लिए अपलोड करने का श्रम करें। आपसे अनुरोध है कि उक्त मसौदे को गृह मंत्रालय की वैबसाईट पर भी अपलोड करने हेतु निम्नलिखित पतों 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 (TPT Sec), FHQ BSF : For information w.r.t your ID Note 1468 dated 14 Oct 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)

संख्या. पी-63013/172/02/2026/मोड–I/सी0सु0बल/ दिनांक ___अक्टूबर 2026

विषय : **"All Terrain Vehicles for Carrying Seating Capacity of 10-14 Personnel" के गुणातमक आवश्यकता/परीक्षण निर्देशों पर हितधारकों/ निर्माताओं/ विक्रेताओं की टिप्पणी के लिए अनुरोध।**

"All Terrain Vehicles for Carrying Seating Capacity of 10-14 Personnel" के गुणातमक आवश्यकता और परीक्षण निर्देशों को परिशिष्ट 'ए' के रुप 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 अनुरुप 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 11 नवम्बर 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
ईमेलः– comdtord@bsf.nic.in

2. शीघ्र प्रतिक्रिया का अनुरोध किया जाता है।

कपिल चाहर 29/10/25

(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
(Email-comdtord@bsf.nic.in)

No. P-63013/172/02/2026/Mod-I/BSF/ Dated, the _ Oct' 2026

Subject : **Request for comments of stakeholders/OEM/Firms on QRs (Qualitative Requirements) & TDs (Trial Directives) of "All Terrain Vehicles for Carrying Seating Capacity of 10-14 Personnel"**

The draft QRs/TDs **"All Terrain Vehicles for Carrying Seating Capacity of 10-14 Personnel"** 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 11.11. 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.

28/10/26

(Kapil Chahar)
Dy. Commandant (Mod)

DRAFT QRs & TDs OF ALL TERRAIN VEHICLES FOR CARRYING /SEATING CAPACITY OF 10-14 PERSONNEL.

S.No.	Parameter	QRs/Specification	Trial Directives	Result expected/ Desired	Remarks
1.	DESCRIPTION:				
i)	Capability	i) ATV capable to operate in all type terrain consisting of water logged, deep marshy, saline areas of Rann of Kutch, rugged cross country terrain and metalled road with full payload without being struck. ii) The ATV should also have amphibious capability.	The ATV shall be physically operated/ employed with full payload in the marshy, sandy, cross country, salty water logged terrain, water bodies/ channels areas.	The ATV should negotiate all type of terrains / water channels smoothly.	
ii)	Vehicle Configuration	Twin-module articulated chassis (AATV)	Speards vehicle weight over two tracked cabins to prevent sinking in deep snow.		
2.	GENERAL DATA				
i)	Seating Capacity	12-14 personnel; 2.5 to 3.5 Tons	Accommodates a full squad along with heavy winter gear, oxygen cylinders, and weapons.	The dimensions should accommodate all the persons comfortably.	
ii)	Payload			The ATV should be able to carry the specified load comfortably throughout the specified distance.	
iii)	Ground clearance	Minimum 500 mm	Board should physically measure ground clearance in fully laden condition.	The ground clearance should meet the minimum requirement of 500 mm.	
iv)	Ground pressure	<0.20 kg/cm2 (under 3 psi) using wide continuous tracks	Achieves ground pressure lower than a human footprint,		

S.No.	Parameter	QRs/Specification	Trial Directives	Result expected/ Desired	Remarks
			enabling movement over snow rather than bogging down.		
iv)	Drive Mode	All Wheel Drive (AWD)	Should be capable to operate with AWD mode	Check the OEM manual specification for the purpose and physically to operate the ATV in AWD mode and assess the feasibility.	
vi)	Weight	Less than 2800 Kg	Board should physically measure the weight.	It should meet the required parameter	
3.	**STRUCTURE**				
	Lower frame/ chassis	The lower frame/ chassis should be made of corrosion resistant metal or metal alloy, non-deteriorating material. Which can withstand the highly corrosive mud/water of Rann of Kutch and creek.	Certifications from accredited Lab shall be provided by the Firm. Board should check the certificate.	It should meet the required parameter	
4.	**BODY DESCRIPTION**				
i)	NOs OF SEATS	(Min) 10 and (min) 14 (including driver seat)	All seats shall be physically checked in number and comfort.	Seats Should meet the specified QRs and should be comfortable.	
ii)	DOORS	As per the design of the manufacturer facilitating easy entry and exit of troops with small Arms, Amn & equipment from all doors.	All the doors shall be physically checked by making persons equipped with small Arms, Amn & Equipment's to board and de-board from all the doors.	The person should be able to board and de-board easily from all the doors.	
iii)	Overhead covers	Permanent Saloon type cover/convertible top shall be	To be physically check for utility and condition.	It should meet the required parameter.	

S.No.	Parameter	QRs/Specification	Trial Directives	Result expected/ Desired	Remarks
		provided to protect the occupants from heat and dust/water etc. i.e. Hard Top and optional Soft Top			
iv)	Heat Insulation	Provision of heat insulation between the seating area and engine should be made.	While running the ATV, the heat should not be radiated on the occupants.	It should meet the QR.	
v)	Safety Arrangement	(i) Should have seat harness for both crew and passengers. (ii) Life jackets to be provided 01 per crew	To be physically check for utility and safety arrangement. Life jacket should meet the specification of international standards.	It should meet the QR/desired parameter.	
vi)	Heating, Ventilation, and Air conditioning (HVAC)	ATV should have HVAC.	While running ATV the heating, Ventilation and air conditioning should be checked for its utility. Firm to provide HVAC testing certificates from accredited Lab.	It should meet the desired parameter.	
5	**OPERATIONAL CHARACTERISTICS**				
i)	Speed range on metaled road (km/h)	Not less than 30 kmph	The ATV shall be physically driven on metaled road in fully laden condition.	It should meet the parameter.	
ii)	Cross country speed range (km/h)	Not less than 20 kmph	The ATV shall be physically driven in cross country /Marshy terrain in fully laden condition.	It should attain the speed of 20 (km/h).	
iii)	Sailing speed range/flotation (km/h) (in	Not less than 4 (km/h)	The ATV shall be physically taken into a deep water channel with full load and	While sailing, the ATV should attain the speed of 04 (km/h)	

S.No.	Parameter	QRs/Specification	Trial Directives	Result expected/ Desired	Remarks
	amphibious mode)		will be made to sail upto a distance of 05 KM.		
iv)	Amphibious capability	Fully amphibious without preparation	Necessary for crossing glacial melt rivers and high-altitude marshlands frequently encountered.		
iv)	Endurance (km)	Should be able to operate, upto minimum 150 KM without refueling on marshy area.	i) The fuel tank of the ATVs shall be filled completely and ATV will be driven on metaled road upto a distance of 50 KM. The full range shall be calculated taking into consideration the fuel consumed to cover a distance of 50 KM.	The ATV with full tank should be able to cover a distance of 150 KM without refueling.	
v)	Gradient	Should be capable to negotiate minimum 30 degree slope in forward and reverse gear with full pay load in all type of terrain.	The ATV shall be physically made to negotiate a slope of 30 degree in gradient. Certifications from accredited Lab or OEM certificate of conformance (CoC) shall be provided by the Firm.	It should negotiate the slope easily and it should meet the desired parameter.	
vi)	Side slope	Should be capable to negotiate minimum 15 degree.	The ATV shall be physically operated on terrain having side slope of minimum 15 degree upto 20 meter in one stretch. Certifications from accredited Lab or OEM certificate of conformance (CoC) shall be provided by	It should negotiate the slope easily and it should meet the desired parameter.	

S.No.	Parameter	QRs/Specification	Trial Directives	Result expected/ Desired	Remarks
			the Firm.		
vii)	Gradeability & Slope	Minimum 60% gradeability and 30% side slope	Required for safely climbing steep alpine ridges and traversing mountain sides without rolling over.		
viii)	Vertical obstacle	Should be capable to negotiate minimum 700 mm vertical obstruction of any type.	The ATV shall be physically made to cross any type vertical obstacle of minimum 700 mm.	It should cross the vertical obstacle easily.	
viii)	Trench crossing	Should be capable to negotiate minimum 1000 mm wide trench. The ATV shall be physically made to cross a horizontal trench of minimum 1000 mm.	It should cross the trench easily.	Should meet the desired parameter	
ix)	Operating temperature	Minimum (-) 05°C to Maximum (+) 50°C	Certifications from accredited lab or CoC by the firm with the declaration that vehicle performance will be satisfactory in the designated operating range.	It should meet the desired parameter/QR.	
x)	Towing Capacity	Minimum 2000 KG	To assess physically by towing light vehicle i.e. Bolero camper or equivalent light Veh having curb weight of approx. 2000 kg	Should be capable to tow minimum 2000 KG curb weight.	
xi)	Maintenance Interval	Lesser maintenance interval i.e. Minimum 250 Hrs or more	Should not have frequent service maintenance interval.	To check OEM operational and maintenance Manuals	
6.	Operating altitude	Up to 14500 ft with full payload	Firm to submit CoC with the declaration that vehicle	It should meet the specified QRs	

S.No.	Parameter	QRs/Specification	Trial Directives	Result expected/ Desired	Remarks
			performance will be satisfactory in the designated operating altitude.		
7.	**ENGINE**				
i)	Engine Output & Aspiration	300 to 350+ HP with enlarged turbocharger	Essential to force thin air into the engine block and overcome the 30-40% power loss in thin mountin air.		
ii)	Type	Gasoline/ diesel engine of any reputed make conforming to ARAI/BIS/BS/DIN/SAE or any other internationally recognized make.	OEM shall provide the authenticated certificate with regard to engine make, type and other vital engine parameters.	It should meet the specified QRs.	
iii)	Fuel/Lubricants	Diesel – compatible with BS-VI or higher norms.	The fuel tank of ATV shall be topped with diesel BS-VI or higher grade diesel and vehicle will be driven Minimum 50-60 km.	The vehicle should be able to operate smoothly.	
iii)	Brake Horse Power (BHP)	The engine should be able to generate adequate power to negotiate all types of terrains mentioned at Srl-1 (i) without being stuck with full payload specified at Srl-2 (ii)	OEM shall provide the certificate with regard to engine Horse Power.	It should meet the QRs	
iv)	Power to Weight Ratio	>33 HP/Ton (at sea level)	Provides critical power 'headroom' so the vehicle maintains at least 20HP/ton at altitudes of 15,000+ feet.	It should meet the QRs	

S.No.	Parameter	QRs/Specification	Trial Directives	Result expected/ Desired	Remarks
v)	Cold start capability	-30 degree C to -40 degree C with integrated block heaters	Ensures reliable engine ignition and operation during extreme high-altitude winter conditions.	It should meet the QRs	
8.	**TRANSMISSION**				
i)	Type of transmission	Should have Automatic/manual transmission with high, low, reverse, forward and neutral selector with transfer case or any other suitable means of power transmission to meet the speed requirement as per QRs under different load & road surface condition.	i) OEM to provide certificate regarding the transmission system of the ATV. The ATV shall also be run upto a distance of minimum 50 KM in all gears including reverse gear and also to be checked for smooth engagement and disengagement. ii) Transfer case shall be engaged & disengaged physically.	All the gears & transfer case should engage and dis-engage smoothly.	
ii)	Range & Environment Control	>150km range at 18,000 ft; Heated/Pressurized HVAC cabin	Guarantees operational reach in deep snow and ensures troop survival during blizzards.		
9	**STEERING SYSTEM**				
i)	Configuration	Steering-Skid Steering	To be checked physically by turning the ATV right and left while driving for smooth functioning.	It should be able to turn the ATV on desired side	
10	**TRACKS**				
i)	Type	(i) Tracked/Wheeled version	OEM to furnish the certificate	It should meet the required	

S.No.	Parameter	QRs/Specification	Trial Directives	Result expected/ Desired	Remarks
		made of rubber or any other improved composite material. (ii) Mud flaps should be provided.	regarding make and type and material used for the track.	QRs.	
ii)	Tyre	Tubeless self-inflating tyres and spare 01 per vehicle.	Should have tubeless tyre configuration	Check physically and should be as per OEM Manual	
11.	**SUSPENSION SYSTEM**				
i)	Type	Independent/hydraulic/air or suitable version suspension system to sustain the rigors of the operational area.	OEM shall provide certificate regarding the make and type of suspension system. The ATV shall be driven in all type of terrains to check the effectiveness of suspension system/shock-absorbers.	It should meet the QRs. The suspension system should be effective enough to sustain the rigors of the terrain.	
12	**ELECTRICAL SYSTEM**				
i)	Battery Feasibility	12 V or more. All the wire/fuses shall be water proof to avoid short circuiting and High I.P. ratings	OEM shall furnish certificate regarding electrical system. All the wires/fuses shall be physically checked for serviceability and effectiveness.	It should be 12 Volt. Should be in excellent condition. Check certificate/documents regarding IP grading	
13.	**FUEL TANK**				
	Capacity (Ltrs)	As per the design of the manufacturer commensurations the range	OEM to provide certificate.	It should meet the QRs.	
14.	**WATER EXPULSION SYSTEM**				
	Bilge pump	Provision of Bilge pumps (Manual/Electronically) should	The floor of the ATV shall be filled with water. The bilge	The bilge pump should be able to expel the water	

S.No.	Parameter	QRs/Specification	Trial Directives	Result expected/ Desired	Remarks
		be made for expulsion of water as an additional security feature while ATV operate in water logged terrain and amphibious mode.	pump shall be turned on.	quickly.	
15.	**INSTRUMENT PANEL**				
	INSTRUMENTS	Odometer, speedometer, oil temperature gauge, engine temperature gauge, running – hour meter, voltmeter, electric horn etc	All the instruments shall be physically checked for their accurate serviceability.	All the instruments should be in excellent functional condition.	
16.	**PAINTING**				
i)	Colour	As per the requirements of the user, capable to control corrosion, non-reflecting, powder coated on whole body including under carriage.	OEM shall provide a certificate with respect to corrosion and salt spray test , adhesion , Humidity test and thickness test for paint from Govt/NABL lab/ICAT. The painting (including undercarriage) shall be physically checked.	It should meet the QRs.	
17.	**DIMENSIONS**				
	Broad Dimensions	i) Length Not more than 4.5 meter ii) Width Not more than 3.0 Meter iii) Height Not more than 3.2 Mtr	Check physically by measuring it with metallic type.	Specification must be with in prescribed limit	
18.	**SERVICE LIFE :-**				
	Service Life	Minimum 06 Yrs with Warranty of Min 02 Yrs	OEM to provide certificate for service life &	Documents to be checked physically submitted by OEM.	

S.No.	Parameter	QRs/Specification	Trial Directives	Result expected/ Desired	Remarks
			warranty/guaranty period.		
19.	**SURVEILLANCE COMMUNICATION SYSTEM**				
i)	Surveillance Communication Equipment	i) GPS (of reputed make) ii) Surveillance cameras with 360° movement capability along with night vision facility. iii) Search light (Minimum 02 No) iv) VHF Communication system provision facility	All the instruments shall be physically checked for their accurate serviceability.	All the instruments should be in excellent functional condition.	
20.	**SERVICE MANUAL**				
i)	Documents related to Maintenance schedule	Complete maintenance schedule of all machineries and equipment to provided	Firm must provide the required documents	Check physically the all required documents	
21.	**SELF-RECOVERY CAPABILITY**				
i)	Self-recovery winch	i) Self recovery winches in the front and rear with a cable length of 25 meters, supplemented by an additional over 40 meter rope and D shackles. ii) Ground anchor and snatch block 1 per vehicle	ATV shall be physically tested for self-recovery winch, anchor and snatch block operation in muddy and slushy area.	The self-recovery winch mechanism, anchor and snatch block should be able to recover the vehicle.	
ii)	Roll over Protection system (ROPS)	ROPS should be capable to absorb and distributes the impact energies reducing the risk of injury or fatality in the event of a rollover accident.	OEM should provide CoC or certificate from ICAT or any other National/International certifying agency in respect of ROPS.	ROPS should be capable to prevent crushing injuries and fatalities in rollover accidents.	

S.No.	Parameter	QRs/Specification	Trial Directives	Result expected/ Desired	Remarks
22.	**TRAINING**				
	i) Training on Vehicle handing	Training on vehicle handing cross country road, marshy, sand areas, on recovery and extraction procedure etc. need to be imparted by firm.	Firm/Seller will have to impart the training on vehicle handling and maintenance part such condition will be part of the contract	On completion of training operator should be able to drive the vehicle in desired terrain and carry out required maintenance as per manual.	
	ii) Training on Vehicle maintenance	Training on routine, periodical and preventive maintenance must be imparted by firm.	Firm/Seller will have to impart the training on vehicle handling and maintenance part such condition will be part of the contract	On completion of training operator should be able to drive the vehicle in desired terrain and carry out required maintenance as per manual.	

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 दिन के लिए अपलोड किया जाए।

नोट – सभी विक्रताओं/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. गुणातमक आवश्यकताओं के उपर व्यापक टिप्पणीयॉ।

कपिल चाहर 28/10/16

(कपिल चाहर)
उप कमांडेण्ट
(आधुनिकीकरण)