संख्या. पी-63013/46/2021/मोड-।/सीसुबल **/**43*56-66*

भारत सरकार, गृह मंत्रालय महानिदेशालय सीमा सुरक्षा बल

(रसद निदेशालय: आधुनिकीकरण सैल) (Email-comdtord@bsf.nic.in)

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ब्लाक संख्या . 10, सीजीओ काम्पलैक्स, लोधी रोड, नई दिल्ली–03

दिनांक 18 अक्टुबर 2021

सेवा में,

महानिदेशक:— आसाम राईफलस (through LOAR), केन्द्रीय ओद्यौगिक सुरक्षा बल, केन्द्रीय रिजर्व पुलिस बल, भारतीय तिब्बत बोर्डर पुलिस, सशस्त्र सीमा बल, राष्ट्रीय सुरक्षा गार्ड एवं पुलिस अनुसन्धान एवं विकास ब्योरो

विषयः अनुमोदित गुणातमक आवश्यकता / परीक्षण निर्देशों का प्रेषण

तकनीकी विशेषज्ञों के उप समूह द्वारा सूत्रीकरण किए एवं महानिदेशक सीमा सुरक्षा बल द्वारा अनुमोदित 75 HP & 90 HP 4 Stroke OBM गुणातमक आवश्यकता / परीक्षण निर्देशों को आपकी अग्रिम कार्यवाही हेतु प्रेषित किया जाता हैं।

संलान : उपरोक्तनुसार

प्रतिलिपि :-

तकनीकी निदेशक
 The Technical Director
 राष्ट्रीय सूचना–विज्ञान केन्द्र, नोर्थ ब्लाक,
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2. SO (IT), North Block, MHA (Through E-mail) (E-mail address: soit@nic.in)

3. तकनीकी विंग, सीमा सुरक्षा बल

4. रसद निदेशालय-जल स्कंध अनुभाग

(टी० आर० मीणा) है / । ०/०८ उप महानिरीक्षक (मुरिवहुन् / रसद)

आपसे अनुरोध है कि उक्त उपकरणों के गुणातमक आवश्यकता /परीक्षण निर्देशों को गृह मंत्रालय की वैबसाईट (पुलिस आधुनिकीकरण विभाग—गुणातमक आवश्यकता) पर अपलोड करने का श्रम करें।

: आपसे अनुरोध है कि उक्त उपकरणों के गुणातमक आवश्यकता /परीक्षण निर्देशों को गृह मंत्रालय की वैबसाईट (पुलिस आधुनिकीकरण विभाग—गुणातमक आवश्यकता) पर अपलोड करने का श्रम करें।

: आपसे अनुरोध है कि उक्त उपकरण के गुणातमक आवश्यकता /परीक्षण निर्देशों को सीमा सुरक्षा बल की वैबसाईट पर अपलोड करने का श्रम करें।

: आपके पत्र संख्या 556 दिनांक 01 मार्च 2021 के सन्दर्भ में।

Appendix- 'A'

13. Me	12. Tr		10. W		9. ————————————————————————————————————		7. FI	F	, Çî					No.	
Meter and Gauges	Trim and tilt	Starting system	Weight		Alternator output	Lubrication	Fuel	Fuel supply system	Engine Rpm	l otal engines displacement	Stroke	Number of cylinder	Engine capacity	uirement/T	
One set of digital meter for monitoring all parameters of the engine like RPM, speed, amperage, temperature, fuel consumption, warnings on high temperature and lack of lubrication.	Electric powered & Hydraulic assist.	Electric powered	Below 180 Kg	operate starter motor and provide backup for the search light, GPS and Navigational lights installed in the Boat for operational purpose.	06 Amps at Min RPM and 25 Amps at Max with charging capacity of 100 AHC to charge 12 volt secondary battery, to	Lubrication oil Indian type	Petrol Indian type	Electronic Fuel Injection	Not less than 4500 RPM	Adequate Cubic Capacity (CC) to attain following on Single Engine FRP Speed Boat having length- 5.5 Mtr, Draft-0.4 Mtr, Dry Weight-700 Kgs. (a) 20 knots with 8 POB.	Four stroke	4	75 HP		75 HP, FOUR STROKE OBM के गणातमक आतुष्टाकृता पत
Check practically during water trial.	Check and operate practically and visual inspection.	Check by starting with key and visual inspection.	Check on physical measurement by weighing machine		Check practically with ampere gauge.	Check physically during water trial	Check physically during water trial	Check and operate practically. Visual inspection.	Check by RPM meter	To be physically measured in Creek/river after loading Boat with 8 pers with all equipment's @ 80 Kgs per person during trial with the help of GPS and stop watch. Speed trials need to be undertaken with and against tide/current	Documents / certificate of manufacturer/ regulating authority to be checked physically.	Visual check and inspection	Documents / certificate of manufacturer/ regulating	Trial Directive	Thomas Private

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0.	ative Require	ment/Te	Qualitative Requirement/Technical Specification	Trial Directive
15. Steerin	Steering system		Hydraulic steering system with 16 feet set of hose for 5.5 Mtr Boat.	Check practically during water trial
Harness parameter.	for Gear	engine shift &		Check practically during water trial
accele	cable		feet.	
Propeller	ler		Aluminium blade propeller, pitch suit to achieve 20 to 25 knots speed with the boat having length upto 06 mtr with 08	Check practically during run trial on open river/sea
			Person on Board (POB), with full load capacity at 85% Maximum Continuous Pating (MCB) of the continuous	water.
Fuel tank	nk		Made of Plastic Fibre. 25 Ltrs capacity with 02 Mtr	Chack physically/visual inspection
			er valve, male & female adopte	Check physically/visual map contin
On boa	On board spare		a) Engine oil filter- 03 Nos	To be checked physically by BOO
			b) Fuel filter- 06 Nos	
			f) Spark plug- 04 Nos	
			g) Spark plug wrench – 01 No	
0			h) Water pump repair kit- 01 No	
			i) Water pump impeller – 01 No	
			K) Gear oil drain screw washer -09 Nos	
			n) Thermostat -01 No	
			o) Sensor Air control valve- 01 No	
			p) Throttle & Gear shift cable -01 Set	
			q) Hydraulic hose- 01 set for Hydraulic steering	
			r) Fuses of all system_complete - 02 sets	
4-				
			u) Pencil coil/Spark plug coil assembly 04 No	
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BPR&D

(Dr. M M Gosal), SSO

SIW BSF

(Găurav Drall), AC

以外proved/Not approved)

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Border Security Force (Director General)

S.No.	Oualitative Requirement/Technical Specification	90 HP, FOUR STROKE OBM क पुणातनक आवरवकता एवं परक्षिण निवदा Technical Specification	Trial Directive
-	Engine capacity	90 HP	Documents / certificate of manufacturer/
	,		regulating authority to be checked physically.
2.	Number of cylinder	4	Visual check and inspection.
3.	Stroke	Four stroke	Documents / certificate of manufacturer/
			regulating authority to be checked physically.
.+	Total engines displacement	Adequate Cubic Capacity (CC) to attain following on:-	(i) To be physically measured in Creek water after
		(i) Twin Engine FRP speed Boat having length- 6.5 Mtr,	loading the Boat with 2/8 pers with all
		Draft-0.4 Mtr, Dry Weight-1000 Kgs:-	equipment's @ 80 Kgs per person during trial
		(a) 35 Knots with 2 POB	with the help of GPS and stop watch. Speed trials
		(b) 29 Knots with 8 POB	need to be undertaken with and against
		(ii) Single Engine ERP Speed Boat having length- 5.5 Mtr	tide/current.
	~		(ii) To be physically measured in Creek water after
		(a) 20 knots with 8 POB.	@ 80 Kgs per person during trial with the help of
			GPS and stop watch. Speed trials need to be
			undertaken with and against tide/current.
	Engine Rpm	Not less than 5000 RPM	Check by RPM meter
	Fuel supply system	Electronic Fuel Injection	Check and operate practically. Visual inspection.
7.	Fuel	Petrol Indian type	Check physically during water trial
	Lubrication	Lubrication oil Indian type	Check physically during water trial
9	Alternator output	06 Amps at Min RPM and 25 Amps at Max with charging	Check practically with ampere gauge.
		capacity of 100 AHC to charge 12 volt secondary battery.	

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S.No.	Qualitative Requirement/Technical Specification	Technical Specification	Trial Directive
1	plan an electric 4	to operate starter motor and provide backup for the search	
		light, GPS and Navigational lights installed in the Boat for	
		operational purpose.	
10.	Weight	Below 180 Kg	Check on physical measurement by weighing
		en e	machine
is and	Starting system	Electric powered	Check by starting with key and visual inspection.
12.	Trim and tilt	Electric powered & Hydraulic assist.	Check and operate practically and visual
	STOCK		inspection.
13.	Meter and Gauges	One set of digital meter for monitoring all parameters of	Check practically during water trial.
	TO Production and	the engine like RPM, speed, amperage, temperature, fuel	
	alifera consul	consumption, warnings on high temperature and lack of	
	1746 \$6000	lubrication.	
4.	Gear shift	Forward/Neutral/ Reverse (F.N.R.)	Check practically during water trial
15.	Steering system	Hydraulic steering system with	Check practically during water trial
	17,000	(a) 16 feet set of hose for 5.5 Mtr Boat.	
	resolución de Pro-	(b) 18 feet set of hose for 6.5 Mtr Boat	
16.	Harness for engine	Through remote control	Check practically during water trial
	parameter, Gear shift &	Suit to the Boat having length upto 6.5 Mtr	(
	accelerator cable		
17.	Propeller	Aluminium blade propeller, pitch suit to achieve 25 to 29	Check practically during run trial on open
		knots speed with twin engine for the boat having length	C
	A.	upto 6.5 mtr with 08 Person on Board (POB), with full	
	400	load capacity at 85% Maximum Continuous Rating (MCR)	
		of the engine.	
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S.No.	-	Qualitative Requirement/Technical Specification	Trial Directive
18.	Fuel tank	Made of Plastic Fibre, 25 Ltrs capacity with 02 Mtr	Check physically/visual inspection
		PVC/Nylon fuel line, primer valve, male & female adopter.	
19.	On board spare	a) Engine oil filter- 03 Nos	To be checked physically by BOO.
		b) Fuel filter- 06 Nos	
		c) Air filter- 02 Nos	
		d) Fuel line - 01 No	
		e) Propeller -01 No	
		f) Spark plug- 04 Nos	
		g) Spark plug wrench – 01 No	
		h) Water pump repair kit- 01 No	
		i) Water pump impeller - 01 No	
		j) Gear housing seal kit - 01 Set	
	÷	k) Gear oil drain screw washer -09 Nos	
	*	l) Lubrication oil drain plug washer -03 Nos	
		m) Thermostat -01 No	
		n) Alternator belt-01 No (If alternator is belt driven)	
		o) Sensor Air control valve- 01 No	
		p) Throttle & Gear shift cable -01 Set	
		q) Hydraulic hose- 01 set for Hydraulic steering	
		r) Fuses of all system complete - 02 sets	
		s) Injector – 01 No	
4		t) Automatic Voltage Regulator (AVR)-01 Nos	
		u) Pencil coil/Spark plug coil assembly-01 No	
		v) Main relay - 01 No	
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(Approved/Not approved)

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