

संख्या. पी-63013/46/2021/मोड-1/सीसुबल/4356-66

भारत सरकार, गृह मंत्रालय  
महानिदेशालय सीमा सुरक्षा बल  
(रसद निदेशालय: आधुनिकीकरण सैल)  
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ब्लाक संख्या . 10,  
सीजीओ काम्पलैक्स,  
लोधी रोड, नई दिल्ली-03

दिनांक 18 अक्टूबर 2021

सेवा में,

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

विषय: अनुमोदित गुणात्मक 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 गुणात्मक आवश्यकता/परीक्षण निर्देशों को आपकी अग्रिम कार्यवाही हेतु प्रेषित किया जाता है।

संलग्न : उपरोक्तनुसार

(टी0 आर0 मीणा) 18/10/2021

उप महानिरीक्षक (परिवहन/रसद)

प्रतिलिपि :-

1. तकनीकी निदेशक  
The 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)
  2. SO (IT), North Block, MHA  
(Through E-mail)  
(E-mail address: [soit@nic.in](mailto:soit@nic.in))
  3. तकनीकी विंग, सीमा सुरक्षा बल
  4. रसद निदेशालय-जल स्कंध अनुभाग
- : आपसे अनुरोध है कि उक्त उपकरणों के गुणात्मक आवश्यकता /परीक्षण निर्देशों को गृह मंत्रालय की वेबसाईट (पुलिस आधुनिकीकरण विभाग-गुणात्मक आवश्यकता) पर अपलोड करने का श्रम करें।
- : आपसे अनुरोध है कि उक्त उपकरणों के गुणात्मक आवश्यकता /परीक्षण निर्देशों को गृह मंत्रालय की वेबसाईट (पुलिस आधुनिकीकरण विभाग-गुणात्मक आवश्यकता) पर अपलोड करने का श्रम करें।
- : आपसे अनुरोध है कि उक्त उपकरण के गुणात्मक आवश्यकता /परीक्षण निर्देशों को सीमा सुरक्षा बल की वेबसाईट पर अपलोड करने का श्रम करें।
- : आपके पत्र संख्या 556 दिनांक 01 मार्च 2021 के सन्दर्भ में।

Appendix- 'A'

75 HP, FOUR STROKE OBM के गुणात्मक आवश्यकता एवं परीक्षण निर्देश

S.No.	Qualitative Requirement/Technical Specification	Trial Directive
1.	Engine capacity	Documents / certificate of manufacturer/ regulating authority to be checked physically.
2.	Number of cylinder	Visual check and inspection
3.	Stroke	Documents / certificate of manufacturer/ regulating authority to be checked physically.
4.	Total engines displacement	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.
5.	Engine Rpm	Check by RPM meter
6.	Fuel supply system	Check and operate practically. Visual inspection.
7.	Fuel	Check physically during water trial
8.	Lubrication	Check physically during water trial
9.	Alternator output	Check practically with ampere gauge.
10.	Weight	Check on physical measurement by weighing machine
11.	Starting system	Check by starting with key and visual inspection.
12.	Trim and tilt	Check and operate practically and visual inspection.
13.	Meter and Gauges	Check practically during water trial.
14.	Gear shift	Check practically during water trial














S.No.	Qualitative Requirement/Technical Specification	Trial Directive
15.	Steering system Hydraulic steering system with 16 feet set of hose for 5.5 Mtr Boat.	Trial Directive Check practically during water trial
16.	Harness for engine parameter, Gear shift & accelerator cable Through remote control Suit to the Boat having length upto 6 Mtr & Cable length 15 feet.	Check practically during water trial
17.	Propeller Aluminium blade propeller, pitch suit to achieve 20 to 25 knots speed with the boat having length upto 06 mtr with 08 Person on Board (POB), with full load capacity at 85% Maximum Continuous Rating (MCR) of the engine.	Check practically during run trial on open river/sea water.
18.	Fuel tank Made of Plastic Fibre, 25 Ltrs capacity with 02 Mtr PVC/Nylon fuel line, primer valve, male & female adopter.	Check physically/visual inspection
19.	On board spare <ul style="list-style-type: none"> <li>a) Engine oil filter- 03 Nos</li> <li>b) Fuel filter- 06 Nos</li> <li>c) Air filter- 02 Nos</li> <li>d) Fuel line - 01 No</li> <li>e) Propeller -01 No</li> <li>f) Spark plug- 04 Nos</li> <li>g) Spark plug wrench – 01 No</li> <li>h) Water pump repair kit- 01 No</li> <li>i) Water pump impeller – 01 No</li> <li>j) Gear housing seal kit – 01 Set</li> <li>k) Gear oil drain screw washer -09 Nos</li> <li>l) Lubrication oil drain plug washer -03 Nos</li> <li>m) Thermostat -01 No</li> <li>n) Alternator belt-01 No (If alternator is belt driven)</li> <li>o) Sensor Air control valve- 01 No</li> <li>p) Throttle &amp; Gear shift cable -01 Set</li> <li>q) Hydraulic hose- 01 set for Hydraulic steering</li> <li>r) Fuses of all system complete - 02 sets</li> <li>s) Injector – 01 No</li> <li>t) Automatic Voltage Regulator (AVR)-01 Nos</li> <li>u) Pencil coil/Spark plug coil assembly-01 No</li> <li>v) Main relay - 01 No</li> <li>w) Stator solenoid/Relay-01 No</li> </ul>	To be checked physically by BOO.


  
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**90 HP, FOUR STROKE OBM के गुणवत्ता आवश्यकता एवं परीक्षण निर्देश**

S.No.	Qualitative Requirement/Technical Specification	Trial Directive
1.	Engine capacity	Documents / certificate of manufacturer/regulating authority to be checked physically.
2.	Number of cylinder	Visual check and inspection.
3.	Stroke	Documents / certificate of manufacturer/regulating authority to be checked physically.
4.	Total engines displacement	(i) To be physically measured in Creek water after loading the Boat with 2/8 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. (ii) To be physically measured in Creek water after loading the 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.
5.	Engine Rpm	Check by RPM meter
5.	Fuel supply system	Check and operate practically. Visual inspection.
7.	Fuel	Check physically during water trial
3.	Lubrication	Check physically during water trial
3.	Alternator output	Check practically with ampere gauge.

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**S.No. Qualitative Requirement/Technical Specification**

**Trial Directive**

	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 machine
11. 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 inspection.
13. Meter and Gauges	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.	Check practically during water trial.
14. Gear shift	Forward/Neutral/ Reverse (F.N.R.)	Check practically during water trial
15. Steering system	Hydraulic steering system with (a) 16 feet set of hose for 5.5 Mtr Boat. (b) 18 feet set of hose for 6.5 Mtr Boat	Check practically during water trial
16. Harness for engine parameter, Gear shift & accelerator cable	Through remote control Suit to the Boat having length upto 6.5 Mtr	Check practically during water trial
17. Propeller	Aluminium blade propeller, pitch suit to achieve 25 to 29 knots speed with twin engine for the boat having length upto 6.5 mtr with 08 Person on Board (POB), with full load capacity at 85% Maximum Continuous Rating (MCR) of the engine.	Check practically during run trial on open river/sea water.

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S.No.	Qualitative Requirement/Technical Specification	Trial Directive
18.	Fuel tank	Check physically/visual inspection
19.	On board spare  Made of Plastic Fibre, 25 Ltrs capacity with 02 Mtr PVC/Nylon fuel line, primer valve, male & female adopter.  a) Engine oil filter- 03 Nos 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 t) Automatic Voltage Regulator (AVR)-01 Nos u) Pencil coil/Spark plug coil assembly-01 No v) Main relay - 01 No	To be checked physically by BOO.


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S.No.	Qualitative Requirement/Technical Specification	Trial Directive
20.	<p>Drive Shaft</p> <p>w) Stator solenoid/Relay-01 No Long Shaft OBM is required.</p>	<p>Check physically/visual inspection.</p>

  
 (Dr. S L Thaosen), IPS  
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 (S C Yadav), DIG  
 SIW BSF

  
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Approved/Not approved

  
 (Director General)  
 Border Security Force