

संख्या. पी-63013/115HP/2020/मोड-1/सीसुबल 2(23-24
भारत सरकार, गृह मंत्रालय
महानिदेशालय सीमा सुरक्षा बल
(रसद निदेशालय: आधुनिकीकरण सैल)
(Email-comdtord@bsf.nic.in)
(Fax: 011-24367683)

ब्लाक संख्या . 10,
सीजीओ काम्प्लैक्स,
लोधी रोड, नई दिल्ली-03

दिनांक 19 जुलाई 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 115 HP 4 Stroke OBM गुणात्मक आवश्यकता/परीक्षण निर्देशों को आपकी अग्रिम कार्यवाही हेतु प्रेषित किया जाता है।

संलग्न : उपरोक्तनुसार

इन्द्र देव सिंह

(इन्द्र देव सिंह)

उप महानिरीक्षक (रसद)

प्रतिलिपि :-

1. तकनीकी निदेशक
The Technical Director
राष्ट्रीय सूचना-विज्ञान केन्द्र, नोर्थ ब्लाक,
गृह मंत्रालय, नई दिल्ली
NIC, North Block, MHA
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(द्वारा ई-मेल)
(ई-मेल पता : mpsugandhi@nic.in)
: 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।
2. SO (IT), North Block, MHA
(Through E-mail)
(E-mail address: soit@nic.in)
: 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।
3. तकनीकी विंग, सीमा सुरक्षा बल
: आपसे अनुरोध है कि उक्त उपकरण के गुणात्मक आवश्यकता /परीक्षण निर्देशों को सीमा सुरक्षा बल की वेबसाईट पर अपलोड करने का श्रम करें।
4. रसद निदेशालय-जल स्कंध अनुभाग
: आपके पत्र संख्या 779 दिनांक 18 मार्च 2020।

115 HP, FOUR STROKE OBM के गुणात्मक आवश्यकता एवं परीक्षण निर्देशों का प्राश्न

S.No.	Qualitative Requirement/Technical Specification	Trial Directive
1	Engine capacity 115 HP	Documents / certificate of manufacturer/regulating authority to be checked
2	Number of cylinder 4	visual check and inspection
3	Stroke Four stroke	Documents / certificate of manufacturer/regulating authority to be checked
4	weight 170 to 180 KG	Check on physical measurement by weighing machine
5	Gear case Standard Gear box with Air vent screw , drain screw and filling screw.	Check physically/visual inspection
6	Drive shaft XL shaft	Check physically/visual inspection
7	Total displacement engines Adequate Cubic Capacity (CC) to attain following on Twin Engine FRP Speed Boat having length- 6.5 Mtr, Draft-0.4 Mtr, Dry Weight-1800 Kgs. (a) 35 knots with 4 POB including crew. (b) 29 knots with 8 POB including crew.	To be physically measured in Creek Water after loading the boat with 4/8 pers with all equipment's @ 80 Kgs per person during sea trial with the help of GPS and stop watch. Speed trials need to be undertaken with and against tide/current.
8	Engine Rpm 5000 to 6000	Check by RPM meter
9	Annual exploitation Engine should capable to run 1000 hrs per year	Documents / certificate of manufacturer/dealer authority to be checked
10	Fuel system Computer controlled multiport electronic fuel injection (EFI)	Check and operate practically. Visual inspection
11	Fuel Petrol Indian type	Check during water trial
12	Exhaust system Through propeller	Check during water trial
13	Cooling system Water cooled with thermostat	Check during water trial
14	Alternator Type (Stator under fly wheel) Above 30 Amps at 5000 RPM with charging capacity of 100 AHC to charge 12 volt secondary battery, to operate starter motor and provide backup for the search light, GPS and Navigational lights installed in the Boat for operational purpose.	Check practically with ampere gauge
15	Starting system Electric powered	Check by starting with key and visual inspection

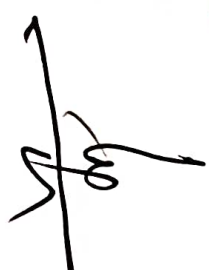




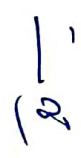










16	Trim and tilt	Electric powered trim control from remote control	Check and operate practically and visual inspection
17	Meter and Gauges	a) One digital meter for monitoring all parameters of the engine like RPM, amperage, temperature, fuel consumption, warnings on high temperature and lack of lubrication. b) Speedo meter	Check physically the function during water trial
18	Gear shift	Forward/Neutral/ Reverse (F.N.R.)	Check practically during water trial
19	Engine Gear shift & accelerator cable	Through remote control Suit to the Boat having length up to 6.5 mtr	Check practically during water trial
20	Propeller	Aluminium blade propeller, pitch suit to achieve 25 to 30 knots speed with twin engine, for the boat having length up to 6.5 mtr with 08 Person on Board (POB).	Check during trial run on open river/ sea water
21	Fuel tank	Made of Plastic Fibre. 25 Ltrs capacity 02 each (Service Tank)	Check physically/visual inspection
22	Guarantee/Warranty	OEM certified Guarantee/Warranty for 02 years	Documents / certificate of manufacturer/ dealer authority to be checked

23 On board spare

- a) Engine oil filter- 03 Nos
- b) Fuel filter- 06 Nos
- c) Fuel line - 01 No
- d) Propeller -01 No
- e) Spark plug- 04 Nos
- f) Spark plug wrench - 01 No
- g) Water pump repair kit- 01 No
- h) Water pump impeller kit - 01 No
- i) Gear housing seal kit - 01 Set
- j) Gear oil drain screw - 03 Nos
- k) Gear oil drain screw washer - 12 Nos
- l) Lubrication engine oil drain screw washer -03 Nos
- m) Lubrication engine oil drain plug - 01 No
- n) Thermostat -01 No
- o) Throttle & Gear shift cable -01 Set
- p) Fuses of all system complete - 02 sets
- q) Injector - 01 No
- r) Main relay - 01 No
- s) Stator solenoid/Relay-01 No
- t) Trim up relay- 01 No
- u) Trim down relay - 01 No
- v) Gearshift rod and camshift - 01 No
- w) Stator Assy (Under fly wheel) - 01 No
- x) Power tune (cleaner) - 01 bottle
- y) Water separating fuel filter kit with sensor - 01 No
- z) Seal cam shaft cover - 01 No
- aa) Gasket adopter plate/block - 01 No

To be checked physically by BOO.

ACCESSORIES REQUIRED FOR TWIN ENGINE APPLICATIONS

24 Steering system for twin engine speed boats.

Hydraulic steering system complete set alongwith the bar to join both OBMs. (Requirement 01 set for 02 OBMs)

Check simultaneous movement of both the OBM , left and right by applying steering wheel during open trial run on River/Sea water.

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25	Remote control system for twin engine speed boats to operate gear and accelerator cable.	Dual mount remote control system with harness assy (Requirement 01 kit for 02 OBMs)	Operate clutch / Throttle lever of both the OBM separately and check the operation during open trial run on River / Sea water
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 (S S Chahar), VSM
 ADG (Log) BSF



 (Rajeev Sinha)
 DIG, STS-1 BSF



 (K K Dhawan),
 Principal Surveyer, IRS



 (Maj Varun Bisht)
 NSG


 (Piyush Goyal)
 Jt. Asstt. Dir., DCPW


 (Rajneesh Garg), DC
 Water Wing, BSF


 (Sunil Kumar), AC
 CISF


 (Sub M/Tech Ashwani Jena),
 Assam Rifles


 (SI/Mech Sanjay)
 SSB

Approved/Not approved


 Director General
 Border Security Force