## F.No. 12/882/2011-P/BSF/WC/MHA-Prov-I 23 Bharat Sarkar/Government of India Griha Mantralaya/Ministry of Home Affairs PM Division

26, Man Singh Road, Jaisalmer House New Delhi, Dated December, 2015

0 1 JAN 2015

To.

DsG: AR (through LOAR), BSF, CISF, CRPF, ITBP, SSB, NSG & BPR&D.

Subject: QRs and Trial Directive for Top Covered FRP Speed Boat (Anaconda Boat) Fitted with Twin Four Stroke OBM.

The QRs and Trial Directives in respect of Top Covered FRP Speed Boat (Anaconda Boat) as per Annexure have been accepted by the Competent Authority in MHA.

- 2. The CAPFs concerned will be accountable for correctness of the QRs/Trial Directives.
- 3. Henceforth, all the CAPFs should procure the above item required by them strictly as per the laid down Technical Specifications/QRs.

Yours faithfully,

Encl: As above

(P.K. Srivastava)

Under Secretary to the Govt of India

Tel: 23381278

Copy forwarded for necessary action to :-

The Section Officer (IT), MHA: It is requested to host the QRs and Trial Directives (soft copy attached) on the MHA website (under the page of Organizational Set up- Police Modernization Division- Qualitative Requirement under Vehicle Equipments.

(R.K.)Soni) Section Officer (Prov-I)

Copy to: DDG (Procurement), MHA.

QUALITATIVE REQUIREMENT/TECHNICAL SPECIFICATION OF TOP COVERED FRF SPEED BOAT (ANACONDA BOAT)

FITTED WITH TWIN FOUR STROKE OBM

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_				pecific		( <u>(</u> )	h)	(g)		(e)	(d)	(c)	(b)	a (a)	enume	The To	General	S.No.
Drait [0.3 M (max)		5	_ength 7.5 M ± 0.5 M	Specifications/Parameters	Transom of FRP boat to be made rigid to be obtained.	Necessary manuals/ drawings/certificates to be a series of the protection up	The boat should be designed for operating in Sunderban delta/Inland water/Rivers of West Board	Top Covered boats are more reliable, safe and efficient. Their procurement will enhance the dominate of the control of the con	comfortable and can perform their duties efficiently.		The Top Covered Speed Boats shall he able to be a Knots.	The Top Covered Speed Boot shall	Intact and damaged stability, survivability standards may be specified as /ISO Joses.	The Boat is to be designed and built under IRS class approval with appropriate class not at the second seco	enumerated below :-	Covered Speed hoats		Specifications/Parameters

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Endurance/Fuel 05 hours at 20 knots speed with full pay load. Inbuilt fuel tank canacity as not card.
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Tank  Provision to keep 20 Ltr jerry can with suitable fitment for securing of jerry can.
Speed  The boat with 14 Person on Board (POB) shall give
remote control and steering system with suitable prefull load capacity should be achieved at 85% MCR of complete development. There should be sorrice for
Heavy duty 'D' type rubber fender all around the boat. Additional 04 Nos portable for deciding the second to the boat.
Deck
Buoyancy
9. Framing Internal stiffener with FRP frames filledth Discontinuous Coloured. Resin is to be type approved by class
ester resin/golooot boot
Reinforcement
IACs. Hull constructions process to be submitted to
Copotanti
5 Pay Load 12 + 2 Porson
Specifications/Parameters
rications/Parameters  ad 12 + 2 Person  uction Fiberglass reinforced plastic. Should be approved by the first of the control o

M-3 M-4 M-10 MM-5 M-5 M-11

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•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	•	<u>poar</u>		Spec	
FRP repair Kit	Repair clamp  Total ( ) ::	Distress Flares	Distress signal box	Horn	Rescue quoit and line	Mooring Lines 32 Mtr	Oars 02 Nos with (rowing lock)	mtr long and 12mm dia, F et length ( aluminum make	raphinol apobor with on	A flush mounted GPS chart plotter having 8" display screen includes depth sounder facilitate to run with onboard battery.	Cushion on all seats	FRP plastic inbuilt first aid box with first aid kit.	Bollard - 03 Nos	Search light	Electrical Bilge pump	Navigation Light as applicable as per COLREG 1972	test certificate.	02 Nos Fire extinguisher ABC type (cease fire) of 1 kg coch with structure.	OBM Mounting arrangements	Cleats - 04 Nos	Boat Egpts to be supplied		Specifications/Parameters (41)	

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the repair of engine.  The repair of engine.	
28. <b>OBM</b> ORM shall be suited as per exploitation pattern as an average 360 hours per annum.	1
d with onboard spares for one year and B&D	
Spares (OBS and B & D)	1
Ø	
26 <b>Electrical power supply</b>	
Bilge pump – Electrical bilge nump bo	
•	-
22 Wind Scrop Woll at buoy with lifeline may be considered)	
• Life Jackets–14 Nos (or 14+2 extra may be considered.	
ipments as per SOI AS standard to be	
21 <b>Lifesaving Equipments</b> Lifesaving Equipments	
Canopy	
Screwdriver	
Socket and torque handle for spark plug removal Pliers	
Spare fuses	
Spark plug	
Fuel filter cable spins and to	
Emergency starting cord	
Specifications/Parameters	
-	

M-4 Jack M-5 M-11 M-11

М-8 STS, BSF, New Delhi (Naimuddin), DIG BPR&D (A Mandal), SO, SSB Water Wing Rajarhat (SB Ftr) (P Mukherjee), DO, (Kulees) Anand), AC, NDRF

(Lt Col Anil Singhroha), Assam Rifle

(Saffeel Singh), DC, CRPF

(Inspr/MM Shiv Shankar Gupta), ITBP

Water Wing Bhuj (Guj Ftr) (G B Pathak)At,

1 Singh)CISF

Co-opted M-11:

(Vijay Singh\_Rawat) AC-I, NSG

(Ravi Yadav,) Surveyor, I R S New Delhi

Approved/Not-approved

Border Security Force Director General

## TRIAL DIRECTIVE FOR CARRYING OUT TRIAL EVALUATION AS PER THE QRS OF TOP COVERED FRP SPEED BOAT (ANACONDA BOAT) FITTED WITH TWIN FOUR STROKE OBM

:			
S.No	Specification	Specifications/Parameters	Trial Directive/Procedure suggested for trial for Board of Officers
General	<u>a</u>		
The To	op Covered S	The Top Covered Speed boats are better suited for effective domination of riverine	
border	of South Ber	border of South Bengal Ftr for the reasons enumerated below :-	
(a)	The Boat	The Boat is to be designed and built under IRS class approval with	Check certificate issued by classification society
	appropriate		for compliance.
(b)	Intact and d	Intact and damaged stability, survivability standards may be specified as (ISO	Check certificate issued by Classification
	12217/as per Class).	er Class).	y for compliance to stability n
(c)	The Top Co	The Top Covered Speed Boat shall have the speed of 25 Knots.	
(d)	The Top Co	The Top Covered Speed Boats shall be able to carry 14 persons.	1
(e)	The Top Co	The Top Covered Speed boats shall be able to ply for longer duration (8 Hrs)	1
	at a stretch.		
( <del>f</del> )	The Top C	The Top Covered Speed Boat will provide protection from sun, rain, high	
	speed wind	speed wind to troops. Troops will be more comfortable and can perform their	
	duties efficiently	ently.	
(g)	Top Covere	Top Covered boats are more reliable, safe and efficient. Their procurement	
	will enhance	will enhance the domination efforts of sub units.	
( <u>h</u> )	The boat	The boat should be designed for operating in Sunderban delta/Inland	
	water/Rivers		
$\odot$	Necessary i	Necessary manuals/ drawings/certificates to be obtained.	ı
<u>(</u>	Transom of	Transom of FRP boat to be made rigid so as to fit the twin 4 stroke OBM.	1
Speci	Specifications/Parameters	ameters	
_	Length	$7.5\mathrm{M} \pm 0.5\mathrm{M}$	Check lines plan and general arrangement
2	Breadth	$2.5\mathrm{M} \pm 0.5\mathrm{M}$	ds and compare by physical
ω	Depth	1.0 M	
4	Draft	0.3 M (max)	
Sī	Pay Load	12 + 2 Person	To check with 14 persons sitting with all eqpts in

M-9

M 8 W M-10 VOUS N-11

			12 Fi	11. De	10. Bu	9. Fr	8 Ma	7 Re	6 Cc	S. Sp
Speed	Engine :	Fender	Fittings	Deck	Buoyancy	Framing	Matrix	Reinforcement	Construction	Specifications/Parameters
The boat with 14 Person on Board (POB) shall give not less	with electric start, power trim and tilt, remote control and steering system with suitable propeller of reputed make. Rated speed of boat with full load capacity should be achieved at 85% MCR of the engine rating the same should be proven prior complete development. There should be service facilities available in India for maintenance of engine.	Heavy duty 'D' type rubber fender all around the boat.  Additional 04 Nos portable fenders to be provided on board.	All Marine grade aluminium alloy/ stainless steel Gr.316	Fiberglass reinforcement plastic. Material is to be class approved type.	P.U. Foam as per class requirement.	Internal stiffener with FRP frames filled with P.U. foam.	Isopthelic polyester resin/gelcoat boat grade integrally coloured. Resin is to be type approved by class.	Quality chopped strand mat & woven roving etc as per class approved drawings. Material is to be class approved type.	Fiberglass reinforced plastic. Should be approved by Indian Register Shipping or any other member of IACs. Hull constructions process to be submitted to class society for approval.	<sup>3</sup> arameters
Speed trials to be undertaken at full load with and	Trials to be undertaken as per class specifications.	cally clials tes	Obtained manufacturer test certificates of fittings from builder.	Check the design and construction as per drawings and obtain class approved certificate.	Check the design and construction as per drawings and obtain class approved certificate.	Check the design and construction as per drawings and obtain class approved certificate.	Check the design and construction as per drawings and obtain class approved certificate. Type approval certificate of material is to be submit by the builder.	Check the design and construction as per drawings and obtain class approved certificate. Type approval certificate of material is to be submitted by the builder.	Check the design and construction as per drawings and obtain class approved certificate. The inclining experiment, swamp test & stability check of the boat is to be carried out as per class requirement.	Trial Directive/Procedure suggested for trial for Isoard of Officers

Meyor M-8 Mins of M-M-3 M-9 M-10 Moderation M-11 Month

		4									-			19.		18.					17		16	S.No.	
PO: N-6	SSS	Rescue qu     Horn	O2 Nos Bo     Oars 02 N	15 kg Graphinel a sufficient strength.	A flush mo depth sour	Cushion on all seats	FRP plastic inbu	Search light	Electrical Bilge pump	Navigation	provision d	OBM Mour	• Cleats - 04	Boat Eqpts to be supplied	Fuel	Endurance/				COllection	Hull	Tank	Fresh water	Specifications/Parameters	
M-1 10 MU/ M-2 BW M-3 M-9 DE 1/8 M-4	signal box Flares	Rescue quoit and line	02 Nos Boat Hook having 12 feet length (aluninum make folding type) Oars 02 Nos with (rowing lock)	15 kg Graphinel anchor with 30 mtr long and 12mm dia, PP rope of sufficient strength.	A flush mounted GPS chart plotter having 8" display screen includes depth sounder facilitate to run with onboard battery.	n all seats	FRP plastic inbuilt first aid box with first aid kit		silge pump	Navigation Light as applicable as per COLREG 1972	oz nos rile extiliguishet ABC type (cease ille) of 1 kg each with stowing provision duly provided with pressure test certificate.		- 04 Nos	be supplied	capacity as per endurance requirement plus 20% reserve.	05 hours at 20 knots speed with full pay load. Inbuilt fuel tank	centre. The boat should be capable and extra strengthening to sustain the impact on hull.	provided for seating 12 people with enough leg space in the	ike the boa	be filled with polyurethane foam as per rule requirement to	'V' shape/semi planning to ply smoothly upto sea state-3	securing of jerry can.	Provision to keep 20 Ltr jerry can with suitable fitment for	s/Parameters	
M-10 MOMPS M-11	•										מטפווע איט ופטוויט.	OEM of the fitting or any other suitable certifying	as applicable for each fitting either from the	Check load test certificate or type test centricate	id recorded.	Endurance/Fuel trials to be undertaken as per				drawing and obtain class approved certificate.	Check the design and construction as per	of water.	To be physically checked by measured volume	Trial Directive/Procedure suggested for trial for Board of Officers	(%0)

	25		24.		23.	22					21			20							•								U.NO	2
• 12 years for Boat	Life period	power supply from on board battery/OBMs.	Bilge pump - Electrical bilge pump be supplied which will be run by		Buoyancy – P.U. Foam of 2.2 lbs/cft	Wind Screen - Walk through wind screen/window wiper.	<ul> <li>Life Buoys— 02 Nos (Life buoy with lifeline may be considered).</li> </ul>	<ul> <li>Life Jackets-14 Nos (or 14+2 extra may be considered.</li> </ul>		Following Life saving equipments as per SOLAS standard to be	Lifesaving Equipments	material to sustain against heavy wind and storm.	Hard top cover type canopy made of acrylic or suitable light weighted	Canopy	Suitable sockets for propeller removal.	Spare propeller, nyloc nut and special tab washer	Screwdriver	Pliers	Socket and torque handle for spark plug removal	Spare fuses	Spark plug	Fuel filter, cable snips and tie-wraps	Fuel lead, and fuel lead adaptor if required	Emergency starting cord	<ul> <li>Additional equipment required for the engine</li> </ul>	FRP repair Kit	Torch (with a signaling capability)	Repair clamp	Specifications/Parameters	
compliance.	Check certificate issued by classification society for	-		per	To be checked physically for quality of material as	To be checked physically for its functioning and			 y		i) Lay out all the SOLAS egpts, count and record	time of inspection.	the folding of canopy by physically doing it at the	To check the materials to ascertain its quality. Check															Trial Directive/Procedure suggested for trial for Board of Officers	

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(Naimuddin), DIG, (Kuleesh Anand), AC, NDRF, (Sanjeev singh), DC, CRPF	Drawing/Documents and Equipment Manual to be provided.	ould be provided by the			Additional features	OBM shall be supplied with special tools and documentations/drawings. PIL of equipment fitted required for carrying out the repair of engine.	OBM	exploitation		shall be drawn from on board OBMs rechargeable		Specifications/Parameters	
M-3: (Inspr/MM Shiv Shankar Gupta), ITBP	Check physically for working condition of all equipments.	Check physically for working condition of all equipments.	Physically check.	Physically Check as per class approved drawings			Check physically for working condition of	all spares.	Check physically for working condition of	all equipments.	Check physically for working condition of	Trial Directive/Procedure suggested for trial for Board of Officers	5

(Naimuddin), DIG, O'S (A.Mandal), SO, SSB

(Lt Col Anil Singhroha), Assam Rifle

M-6: (Inspr/Exec) (Sanjeev Singh), DC, CRPF an singh), CISF

M-10: (G B Pathak)AC, Water Wing Bhuj (Guj Ftr)

BPR&D

Water Wing Rajarhat (SB Ftr)

(P Mukherjee), DC,

(Dr M M Gosal), DSP,

(Inspr/MM Shiv Shankar Gupta), ITBP

(Vijay Singh Kawat) AC-I, NSG

Co-opted M-11: (Ravi Yadav,) Surveyor, I R S New Delhi

Approved/Not-approved

Director General
Border Security Force