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23 Aug 20

The Commandant
National Coast Guard
Headquarters National Coast Guard
Les Salines, Port Louis
Mauritius

**TRAINING ON POLLUTION RESPONSE EQUIPMENT TO
NATIONAL COAST GUARD, MAURITIUS**

1. Following NCG personnel have been trained on operating Pollution Response equipment as mentioned against each:-

<u>Sl</u>	<u>Equipment</u>	<u>Remarks</u>
(a)	Ocean boom (Hi- sprint) with power pack, accessories, Honda blower and anchors	Enclosure-I
(b)	Near shore boom with power pack, accessories and anchors	
(c)	River boom with portable inflator	
(d)	SS-50 Disc skimmer with power pack and accessories	
(e)	Heli skimmer harbor Demonstration	
(f)	Heli skimmer Sea training	
(f)	30 Ton flexible barge	

2. Maintenance Schedule of Pollution Response equipment for periodical maintenance enclosed herewith as appended below:-

<u>Sl</u>	<u>Equipment</u>	<u>Remarks</u>
(a)	Ocean boom (Hi- sprint)	Enclosure-II
(b)	Near shore boom	Enclosure-III
(c)	River boom	Enclosure-IV
(d)	SS-50 Disc skimmer	Enclosure-V
(e)	Heli skimmer	Enclosure-VI
(f)	30 Ton flexible barge	Enclosure-VII

3. Soft copy emailed at ccncg.mpf@govmu.org.

(Amitava Das)
Commandant
Officer-in-Charge

Encl: As above

HI-SPRINT BOOM

<u>SI</u>	<u>Name</u>	<u>Rank</u>	<u>Departmental No.</u>
(a)	DivyanandNundoo	PC	10178
(b)	BalooramAftaab	PC	6735
(c)	Aldin Mohammad Shahfawwaaz	PC	8894
(d)	FatadinMunthazam	PC	3757
(e)	Maurer Marcuse	PC	11420
(f)	Bechoo Arjun	PC	387
(g)	AuzizagaLogesh	PC	8622

NEAR SHORE BOOM

<u>SI</u>	<u>Name</u>	<u>Rank</u>	<u>Departmental No.</u>
(a)	DivyanandNundoo	PC	10178
(b)	BalooramAftaab	PC	6735
(c)	Aldin Mohammad Shahfawwaaz	PC	8894
(d)	DirgahSoobhiraj	PC	1447
(e)	FatadinMunthazam	PC	3757
(f)	Maurer Marcuse	PC	11420
(g)	Bechoo Arjun	PC	387

RIVER BOOM

<u>SI</u>	<u>Name</u>	<u>Rank</u>	<u>Departmental No.</u>
(a)	DivyanandNundoo	PC	10178
(b)	BalooramAftaab	PC	6735
(c)	Aldin Mohammad Shahfawwaaz	PC	8894
(d)	Bechoo Arjun	PC	387
(e)	JibrailNeamuth	PC	5732
(f)	TirthrajDewnundun	PC	3209
(g)	TishvineMootoo	PC	11427
(h)	Kenny Antoinette	PC	6625
(j)	DirgahSoobhiraj	PC	1447

HELI-SKIMMER HARBOR DEMONSTRATION

<u>SI</u>	<u>Name</u>	<u>Rank</u>	<u>Departmental No.</u>
(a)	Dhurmendra Singh Manuck	PC	7731
(b)	KarmaveerCanhye	PC	10435
(c)	Aldin Mohammad Shahfawwaaz	PC	8894
(d)	FatadinMunthazam	PC	3757
(e)	JibrailNeamuth	PC	5732
(f)	TirthrajDewnundun	PC	3209
(g)	TishvineMootoo	PC	11427
(h)	Kenny Antoinette	PC	6625
(j)	DayneswarLallman	PC	5240
(k)	Ivan JohnjyZephir	PC	10509
(l)	Rakesh Singh Omrawoo	PC	7001
(m)	Jean jodavidEdouard	PC	3634

HELI-SKIMMER SEA TRAINING

<u>SI</u>	<u>Name</u>	<u>Rank</u>	<u>Departmental No.</u>
(a)	Dhurmendra Singh Manuck	PC	7731
(b)	TishvineMootoo	PC	11427
(c)	DayneswarLallman	PC	5240
(d)	Ivan JohnjyZephir	PC	10509

SS-50 SKIMMER

<u>SI</u>	<u>Name</u>	<u>Rank</u>	<u>Departmental No.</u>
(a)	DivyanandNundoo	PC	10178
(b)	BalooramAftaab	PC	6735
(c)	Aldin Mohammad Shahfawwaaz	PC	8894
(d)	FatadinMunthazam	PC	3757
(e)	Maurer Marcuse	PC	11420
(f)	Bechoo Arjun	PC	387
(g)	AuzizagaLogesh	PC	8622

30 TON FLEXIBLE BARGE

<u>SI</u>	<u>Name</u>	<u>Rank</u>	<u>Departmental No.</u>
(a)	Dhurmendra Singh Manuck	PC	7731
(b)	KarmaveerCanhye	PC	10435
(c)	Aldin Mohammad Shahfawwaaz	PC	8894
(d)	FatadinMunthazam	PC	3757
(e)	JibrailNeamuth	PC	5732
(f)	TirthrajDewnundun	PC	3209
(g)	TishvineMootoo	PC	11427
(h)	Kenny Antoinette	PC	6625
(j)	DayneswarLallman	PC	5240
(k)	Ivan JohnjyZephir	PC	10509
(l)	Rakesh Singh Omrawoo	PC	7001
(m)	Jean jodavidEdouard	PC	3634

MAINTENACE SHEDULE
HI SPRINT BOOM WITH POWER PACK
(MAKE : VIKOMA INTERNATIONAL,
TYPE : SINGLE CYLINDER AIR COOLED FOUR STROKE DIESEL ENGINE)

<u>Periodicity</u>	<u>Routine Schedule</u>	<u>Routine Description</u>	<u>By Whom</u>
Weekly	W1	Check the Fuel Level in Tank	PRT/SS
	W2	Check lub Oil level in Sump	
	W3	Check the Freeness of Engine	
	W4	Check the leakages and stop the same if found	
	W5	Turn power pack Engine	
	W6	Clean the external Surface with detergent water and degrease to be free from foreign deposits	
	W7	Clean Hydraulic hoses and Quick release coupling	
Monthly	M1	Carryout pre check for starting	PRT/SS
	M2	Connect Hydraulic hose with boom reel. After	
	M3	starting operate the hydraulic motor to rotate	
	M4	the wheel for 10 min and check all parameters	
	M5	of engine	
	M6	Lubricate all control livers and linkages Check all electrical wiring and terminals for their proper tightness and safety Observe for any abnormal vibration and noise if any rectify them Check electrolyte level if the battery and charge the battery. Apply petroleum jelly on the terminals Start air inflation unit and inflate boom chambers up to 2 psi	
Quarterly	3M1	Carry out greasing of red core roller bearing	PRT/SS
	3M2	Check the condition of lub oil for presence of	
	3M3	any water content	
	3M4	Check external nut and bolt for tightness	
	3M5	Top up fuel and lub oil	
	3M6	Check the condition of pulley. Ensure they are free of grease and durt Check axial fan belt tension for any crack	
Half yearly	6M1	Clean Air filters	PRT/SS
	6M2	Change Engine oil of Air inflation unit	
	6M3	Change hydraulic oil if return filter contaminated	
	6M4	Ensure that all guards are firmly attached	
	6M5	Clean Engine oil filter and Lub oil filters	

Yearly	Y1	Check and adjust valve clearance	OEM
	Y2	Check and adjust de-compression setting	
	Y3	Renew oil filter element	
	Y4	Drain Sump and refill with oil of the correct type and specification	
	Y5	Clean fuel air vent	
	Y6	Teat and clean the fuel injector and fit a new washer	
	Y7	Remove the hand start assembly, clean and inspect the oil seal and bearing. Refit the assembly and lubricate	
	Y8	Clean carbon deposit from exhaust system	
	Y9	Clean carburetor of air inflation unit	
	Y10	Carry out load testing of lifting sling	
2 Yearly	2Y1	Renew air filter element	OEM
	2Y2	Drain fuel tank completely flush and clean it	
	2Y3	Renew flexible fuel hoses	
5 Yearly	5Y1	Carryout top overhauling of Engine and record all findings	OEM
10 Yearly	10Y1	Carryout Major overhauling of Engine	OEM

MAINTENACE SHEDULE
NEAR SHORE BOOM WITH POWER PACK
(MAKE : DESMI, DENMARK,

<u>Periodicity</u>	<u>Routine Schedule</u>	<u>Routine Description</u>	<u>By Whom</u>
After use	C1	Clean winder, power pack, blower and all accessories by fresh water with detergent. Dry it with soft cloth	PRT/SS
	C2	Grease all the joints and nuts and bolts	
Monthly	M1	Check all associated equipment i.e Lifting slings,	PRT/SS
	M2	straps, fixings are in good condition	
	M3	Check general condition of towing / mooring	
	M4	bridle, grease where ever necessary, replace if	
	M5	damaged.	
	M6	Clean external area of the boom reel, hydraulic hoses with detergent solution. Check hydraulic hoses for crack or damage Inflate buoys and leave it for 8 hours, check if found deflation has occurred, replace it Clean all quick release coupling while using anti corrosion oil, check the o ring is in place and fit the protective plugs	

MAINTENACE SHEDULE
RIVER BOOM WITH AIR BLOWER
TYPE : SINGLE CYLINDER AIR COOLED TWO STROKE PETROL ENGINE)

<u>Periodicity</u>	<u>Routine Schedule</u>	<u>Routine Description</u>	<u>By Whom</u>
Weekly	W1	Check the Fuel Level in Tank	PRT/SS
	W2	Check lub Oil level in Sump	
	W3	Check the Freeness of Engine	
	W4	Check the leakages and stop the same if found	
	W5	Turn power pack Engine	
	W6	Clean the external Surface with detergent water and degrease to be free from foreign deposits	
Monthly	M1	Carryout pre check for starting	PRT/SS
	M2	Connect Hydraulic hose with boom reel. After	
	M3	starting operate the hydraulic motor to rotate	
	M4	the wheel for 10 min and check all parameters	
	M5	of engine	
	M6	Lubricate all control livers and linkages Check all electrical wiring and terminals for their proper tightness and safety Observe for any abnormal vibration and noise if any rectify them Check electrolyte level if the battery and charge the battery. Apply petroleum jelly on the terminals Start air inflation unit and inflate boom chambers up to 2 psi	
Quarterly	3M1	Carry out greasing of red core roller bearing	PRT/SS
	3M2	Check the condition of lub oil for presence of	
	3M3	any water content	
	3M4	Check external nut and bolt for tightness	
	3M5	Top up fuel and lub oil	
	3M6	Check the condition of pulley. Ensure they are free of grease and durt Check axial fan belt tension for any crack	
Half yearly	6M1	Clean Air filters	PRT/SS
	6M2	Change Engine oil of Air inflation unit	
	6M3	Change hydraulic oil if return filter contaminated	
	6M4	Ensure that all guards are firmly attached	
	6M5	Clean Engine oil filter and Lub oil filters	
Yearly	Y1	Check and adjust valve clearance	OEM
	Y2	Check and adjust de-compression setting	
	Y3	Renew oil filter element	

	Y4	Drain Sump and refill with oil of the correct type and specification	OEM
	Y5	Clean fuel air vent	
	Y6	Teat and clean the fuel injector and fit a new washer	
	Y7	Remove the hand start assembly, clean and inspect the oil seal and bearing. Refit the assembly and lubricate	
	Y8	Clean carbon deposit from exhaust system	
	Y9	Clean carburetor of air inflation unit	
	Y10	Carry out load testing of lifting sling	
2 Yearly	2Y1	Renew air filter element	OEM
	2Y2	Drain fuel tank completely flush and clean it	
	2Y3	Renew flexible fuel hoses	

MAINTENACE SHEDULE
SS-50 DISC SKIMMER
(MAKE : VIKOMA INTERNATIONAL)

<u>Periodicity</u>	<u>Routine Schedule</u>	<u>Routine Description</u>	<u>By Whom</u>
Weekly	W1	Check the Fuel Level in Tank	PRT/SS
	W2	Check lub Oil level in Sump	
	W3	Check the Freeness of Engine	
	W4	Check the leakages and stop the same if found	
	W5	Turn power pack Engine	
	W6	Clean the external Surface with detergent water and degrease to be free from foreign deposits	
Monthly	M1	Carryout pre check for starting	PRT/SS
	M2	Connect Hydraulic hose with boom reel. After	
	M3	starting operate the hydraulic motor to rotate	
	M4	the wheel for 10 min and check all parameters	
	M5	of engine	
	M6	Lubricate all control livers and linkages Check all electrical wiring and terminals for their proper tightness and safety Observe for any abnormal vibration and noise if any rectify them Check electrolyte level if the battery and charge the battery. Apply petroleum jelly on the terminals Start air inflation unit and inflate boom chambers up to 2 psi	
Quarterly	3M1	Carry out greasing of red core roller bearing	PRT/SS
	3M2	Check the condition of lub oil for presence of	
	3M3	any water content	
	3M4	Check external nut and bolt for tightness	
	3M5	Top up fuel and lub oil	
	3M6	Check the condition of pulley. Ensure they are free of grease and durt Check axial fan belt tension for any crack	
Half yearly	6M1	Clean Air filters	PRT/SS
	6M2	Change Engine oil of Air inflation unit	
	6M3	Change hydraulic oil if return filter contaminated	
	6M4	Ensure that all guards are firmly attached	
	6M5	Clean Engine oil filter and Lub oil filters	
Yearly	Y1	Check and adjust valve clearance	OEM
	Y2	Check and adjust de-compression setting	
	Y3	Renew oil filter element	
	Y4	Drain Sump and refill with oil of the correct type and specification	

	Y5	Clean fuel air vent	OEM
	Y6	Teat and clean the fuel injector and fit a new washer	
	Y7	Remove the hand start assembly, clean and inspect the oil seal and bearing. Refit the assembly and lubricate	
	Y8	Clean carbon deposit from exhaust system	
	Y9	Clean carburetor of air inflation unit	
	Y10	Carry out load testing of lifting sling	
2 Yearly	2Y1	Renew air filter element	OEM
	2Y2	Drain fuel tank completely flush and clean it	
	2Y3	Renew flexible fuel hoses	

SS-50 POWER PACK
(MAKE : VIKOMA INTERNATIONAL)

<u>Periodicity</u>	<u>Routine Schedule</u>	<u>Routine Description</u>	<u>By Whom</u>
After use	A1	Clean the skimmer with fresh water and detergent	PRT/SS
	A2	Start the skimmer in fresh water with detergent	
	A3	Grease the plate wheel bearing	
	A4	Check float locking pin	
Weekly	W1	Lubricate the float bearing pin with the small quantity of grease	PRT/SS
	W2	Check disc for any damage	
	W3	Clean Quick release couplings, apply lubricants and protect with cover	
	W4	Clean the external surface	
Monthly	M1	Check all associated equipment i.e Lifting slings, straps, fixings are in good condition	PRT/SS
	M2		
	M3	Start up skimmer motor after establish hydraulic supply and make sure hydraulic couplings are properly connected	
	M4		
	M5	Fill water in suction chamber of delivery pump Check the function of the float and the operation of the delivery pump Clean hydraulic hoses externally	
	M6		
Quarterly	3M1	Wash the skimmer unit	PRT/SS
	3M2	Grease the top pump bearing, lubricate te float bearing with grease	
	3M3	Check disc for damage	
	3M4	Clean all quick release coupling while using anti corrosion oil, check the o ring is in place and fit the protective plugs	
Yearly	Y1	Inspect delivery pup operation in warming condition for cleaning any leakage of hydraulic oil	OEM

MAINTENACE SHEDULE
HELI-SKIMMER
(MAKE : KEPNER PLASTICS, USA)

<u>Periodicity</u>	<u>Routine Schedule</u>	<u>Routine Description</u>	<u>By Whom</u>
Daily	D1	Cleaning/ wiping of equipment/ associated system	PRT/SS
Weekly	W1	Starting of OBMs and interchanging control form the control panel	PRT/SS
Monthly	M1	Cleaning of OBM carburetor, spark plug and ignition coil	PRT/SS
	M2		
	M3	Charging of batteries and adding of electrolyte Checking of centrifugal pumps and engine sump level	
Quarterly	3M1	Complete cleaning of heli-skimmer system	PRT/SS
	3M2	Flushing of OBMs engine with lub oil	
	3M3	Cleaning of OBM strained Cleaning of fuel and lub oil filter of centrifugal pump prime mover	
Half yearly	6M1	Opening of two in number pump engines for checking tappet clearance flushing with lub oil and refitting	PRT/SS
	6M2		
	6M3	OBM engine oil flushing	
	6M4	Cleaning of spark plug and ignition coil	
	6M5	Checking of sea water pump and sacrificial anode of OBMs	
Yearly	Y1	Complete Overhauling of OBMs	OEM
	Y2	Completer overhauling of centrifugal pumps and engines	
	Y3	Carry out load testing of lifting sling	

MAINTENACE SHEDULE
30 TON BARGE
(MAKE : DUNLOP)

<u>Periodicity</u>	<u>Routine Schedule</u>	<u>Routine Description</u>	<u>By Whom</u>
Weekly	W1	Cleaning and dust up of the surface	PRT/SS
Monthly	M1	Remove any accumulation from marine growth and to inspect the external surface of the envelope for damage All other parts of the barge are to be examines	PRT/SS
	M2		
	M3		
Quarterly	3M1	Inflate the barge and check for any damage/ leakages	PRT/SS