

MAKE IN INDIA CAMPAIGN-Requirement of Marine Department in the next 3 to 5 years.

List of materials / instruments required by River Survey section under Marine Department over next 3-5 years under 'make in India' campaign

Sl. no.	Name of materials / instruments	Quantity
1	GPS receiver sets	12 Nos
2	Echosounder (single and Dual freq.)	03 nos. this year; 02 nos. next year
3	Hydrographic Laptops	13 Nos.
4	Hydrographic Software package	08 nos. Licences
5	"A0" Plotter	02 nos.
6	Automatic Electronic level	07 nos.
7	RTK positioning sets	02 sets.
8	Side scan sonar	01 no.
9	Anchor (stockless, around 1.1 to 1.2 tons)	1 no.
10	Marine Radars	2 nos.
11	Automatic Identification System (with interfacing capability with navigational software)	1 no.
12	Gyrocompass with 2 repeaters	1 no.
13	Intercom system with around 25 nodes	1 no.
14	Helmsman display (monitor)	2 nos.
15	LED Televisions for ship (32 inches)	5 nos.
16	Anchor cable	8 shackles
17	Heave compensator	1 no.

Engine Spares required for the next 3-5 years by Marine Department under Make In India Campaign for following macninaries port owned vessels:

Name of the vessel	Main Engine Specification	Aux Engine Specification	Miscellaneous items	Remarks.
Tug Gobindapur	Cummins India Ltd, KTA-1150, BHP-474 each engine, RPM-1800, No Of cylinder-6	Kirloskar Oil Engine Ltd RB66, BHP-77.2, RPM-1500		Heavy Duty Storage battery 25 Plates, 12 volt, 180 Amp -hr.
Tug Kalikata	Cummins India Ltd, KTA-1150, BHP-474 each	Ruston (2 nos) 67KVA/KW BHP-87 RPM-1500 No Of cyls-6		Heavy Duty Storage battery 25

	engine,RPM-1800,No Of cylinder-6			Plates,12 volt,180 Amp -hr.
Tug Kamal	Kirloskar MAN W8V BSLM BHP-480 Each Engine RPM-1200 No of cylinder-8	Ruston,6YD MK-II BHP-87 RPM-1500 No Of Cyl-6	Gear Box -Make- Kirloskar Pneumatic Co. Ltd.1000-20 Series,Sl No AA0008 & 0009	Heavy Duty Storage battery 25 Plates,12 volt,180 Amp -hr.
ML Sidho	Make- Kirloskar Cummins- N_743TM BHP-195 Each RPM-1800 No of cyls-6	Ruston-2VW BHP-22.3 RPM-1500	Alternators Make-M/s Kirloskar Hamorthy Type-KVA-16KW Volt 415 V	Heavy Duty Storage battery 25 Plates,12 volt,180 Amp -hr.
ML Kanho	Make- Kirloskar Cummins- N_743TM BHP-195 Each RPM-1800 No of cyls-6	Ruston-2VW BHP-22.3 RPM-1500	Alternators Make-M/s Kirloskar Hamorthy Type-KVA-16KW Volt 415 V	Heavy Duty Storage battery 25 Plates,12 volt,180 Amp -hr.
PL Gopal	Make-MWM TD 282 V12 BHP-455 each engine RPM-1800 No Of Cylinder-12	Simpson-Y-544 BHP-20 RPM-1500 No Of Cylinder-2		Heavy Duty Storage battery 25 Plates,12 volt,180 Amp -hr.
ML Mirmadan	Kirloskar Cummins NT 743M BHP-195 RPM-1800 No Of cylinder-06 nos.			Heavy Duty Storage battery 25 Plates,12 volt,180 Amp -hr.
DV Rabindra	WAETSILA Model-6L 20B	Cummins India Ltd,KT- 1150MG	1)Air COMPRESSOR SPERRE INDUSTRI A/S,Model-HL 2/77	Heavy Duty Storage

				battery 25 Plates, 12 volt, 180 Amp -hr.
			2) AC Compressor ACCEL Model-SMC 8-650	
MV Sarojini	Make- Cummins India Ltd, Model-KTA 2300M	Make- Cummins India Ltd, Model-NTA 855 MG	1) Schottel system, MaKE- SCHOTTEL GmbH & Co. Germany, Model-STP- 330	Heavy Duty Storage battery 25 Plates, 12 volt, 180 Amp -hr.
			2) AC compressor, Sabroe, SMC 104L	
			3) Domestic fw pump, Model-3110, BE pump	
			4) Domestic sw pump, Model-3110, BE pump	
P.L.Rupsa	2x Kirloskar Cummins Ltd, KTA- 2300M, BHP- 940 each engine, RPM- 1800 at 18 knots, No Of cylinder-6	2x Kirloskar Oil Engine Ltd Model: RB33, Power: 20 kw, 415v, 50 Hz		Heavy Duty Storage battery 25 Plates, 12 volt, 180 Amp -hr.
P.L.Hooghly	2x Kirloskar Cummins Ltd, KTA- 2300M, BHP- 940 each engine, RPM- 1800 at 18 knots, No Of cylinder-6	2x Kirloskar Oil Engine Ltd Model: RB33, Power: 20 kw, 415v, 50 Hz		Heavy Duty Storage battery 25 Plates, 12 volt, 180 Amp -hr.
P.V. Ma Ganga	2x Cummins India ltd, KTA 19M3,	2x Cummins India ltd, NTA 855 MG		Heavy Duty Storage

	660 BHP/447KW at 1800 RPM , No of Cylinders-6	(BCIII), 306 BHP/228KW at 1500 RPM , With stanford alternator		battery 25 Plates, 12 volt, 180 Amp -hr.
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Procurement projection for the next 3 to 5 years by Dredger & Despatch Section under Marine Department:

S.No.	Items	Quantity
1	Navigational Buoys	50 Nos.
2	40 mm riding chain open link half length	150 Nos.
3	40 mm riding chain open link full length	100 Nos.
4	42 mm riding chain stud link full length	30 Nos
5	Connecting shackles (D-6)	400 Nos
6	Side lug shackles (D-7)	180 Nos
7	Bending shackles (D-4)	80 Nos
8	Buoy Swivels	120 Nos.
9	Riding Chain swivels.	120 Nos
10	Light Vessel riding chain swivels	20 Nos.
11	Clinch pins (no.1)	120 Nos
12	Clinch pins (no.2)	2500 Nos.
13	Kent-ledges (Moorings/sinkers)	180 tons of assorted old chains.
14	Compact solar powered buoy lights (3 nautical miles)	50 Nos.
15	Spare Batteries for above lights	50 Nos.
16	Echo Sounder	1 No.
17	Radar	1 No.
18	AIS	1 No.
19	Binoculars.	3 Nos.

Procurement projection of Communication Equipment for the next 3 to 5 years by Marine Department:

Sl No.	Items	Quantity
1	ROIP VHF	02 nos.
2	Hand Held VHF (Walkie Talkie)	150 nos
3	VHF with DSC	02 nos.
4	AIS receiver - Class B	03 nos.
5	AIS Receiver- Class A	02 nos.