

FORTNIGHTLY CHECK LIST OF CUTTER SUCTION DREDGER FOR MANNING, OPERATION & MAINTENANCE/ REPAIRING

Name of the Supervisor/Technical Assistant in charge of the vessel:

Name of the Contractor:

Date of Inspection/ checking & no. of the week:

Name of the dredging units:

1	Name of the Dredger	
2	Name of the Tug/MPT	
3	Name of the H.B	
4	Name of the Anchor Pontoon	
5	Total no. of dredging pipe line & its total length	
6	Total no. of dredging shore pipe line & its total length	
7	Total no. of anchors available & type with individual weight	
A	CUTTER SUCTION DREDGER----	PLACE OF DEPLOYMENT-----
1	Name of Dredge Master-	
2	Name of Dredge Control Operator-	
3	Name of Engine Driver-	

SI. NO.	GENERAL INFORMATION	YES	NO	IN CASE NO, SPECIFIED THE REASON	REMARKS
I	GERERAL MAINTENANCE				
1	Whether survey certificate is valid as per IV act.				
2	Whether Comprehensive Insurance of the dredger is valid.				
3	When last date dry-docking completed.				
SI. NO.	GENERAL INFORMATION	YES	NO	IN CASE NO, SPECIFIED THE REASON	REMARKS
4	Whether all the crews as supplied by the Contractor are having Competency certificate as per IV Act.				
5	Whether all the crews are presence for the responding period of one week.				
6	Whether all the crews are in dress code with safety shoes & helmet.				
7	Whether Deck log book is maintained up to date.				
8	Whether Engine log book is maintained up to date.				
9	Whether HSD sounding checked & balance found as per log book.				
10	Whether Lub. Oil sounding checked & balance found as per log book.				
11	Whether Hydraulic oil sounding checked & balance found as per log book.				
12	Whether Grease checked & balance found as per log book.				
13	Whether Lub. Oil grade being using is as per recommendation of manufacturer of the Engine.				
14	Whether Hydraulic Oil grade being using is as per recommendation of manufacturer of hydraulic device.				
15	Whether Grease grade being using is as per recommendation of manufacturer of grease pump & dredger.				

SI. NO.	GENERAL INFORMATION	YES	NO	IN CASE NO, SPECIFIED THE REASON	REMARKS
16	Whether Compressor Oil grade being using is as per recommendation of manufacturer.				
17	Whether general cleaning of all engines & machineries, piping's, floor, staircases, hand rails etc. are carried out every day & found maintained.				
18	Whether grounding take place during the fortnight. If so, please specify the reason and details of damages if happened.				
19	Whether appropriate balance of POL, store & other maintenance materials are available on board for emergent deployment of the dredger. In case no, please specify the reason with minimum balance available.				
20	Whether periodic inventory is checked with respect to handing over of the dredger. If so, please specify the loss & damages of items/ materials if any..				
II	LUB. OIL PUMP				
21	Whether all Lub. Oil Pump i.e. lub. Oil priming pumps of all engines, lub. Oil stands by pump & dredge lub. Oil pump are operational satisfactorily.				
III	BATTERY				
22	Whether battery is well maintained with respect to full charged, terminal, clamp & having full distilled water as required.				

SI. NO.	GENERAL INFORMATION	YES	NO	IN CASE NO, SPECIFIED THE REASON	REMARKS
23	Whether batteries are available as per requirement of the engines, navigation & other purpose.				
IV	BILGE				
24	Whether bilge is out & cleaned.				
25	Whether bilge pump is operational satisfactorily.				
26	Whether periodic servicing of bilge pump is carried out as required.				
27	Whether blast pump is operational satisfactorily.				
28	Whether periodic servicing of blast pump is carried out as required.				
V	GLAND PUMP				
29	Whether Gland pump is working properly with appropriate pressure of water.				
30	Whether Gland pump bearings are performing satisfactorily without water leakage.				
31	Whether Gland pump seal/ gland packing has been provided properly.				
VI	HEAT EXCHANGER				
32	Whether heat exchanger of Hy. Oil, Lub. Oil, gear Oil & Water have been cleaned at least once in a week Or there are any leakage from its seal or tubes.				
33	Whether box cooler of M.E & A.E are operational satisfactorily.				

SI. NO.	GENERAL INFORMATION	YES	NO	IN CASE NO, SPECIFIED THE REASON	REMARKS
34	Whether periodic maintenance/ servicing of box coolers of M.E & A.E are carried out as required.				
VII	COMPRESSOR				
35	Whether cooling oil level in sump of Compressor engine is maintained as per requirement.				
36	Whether Air suction (Strainer) cleaned at least in a week.				
37	Whether any leakage in delivery line of Compressor.				
38	Whether all 3 nos. Air bottles are maintained as per requirement. Whether air leaks from valve.				
39	Whether all relive valve checked every day for removing the water before starting of the engine.				
40	Whether all valves of air bottles are working properly.				
41	Whether all gauges of the engine are in operational condition.				
42	Whether both motors of compressor are operational satisfactorily.				
43	Whether periodic servicing of both motors of compressor are carried out as required.				

SI. NO.	GENERAL INFORMATION	YES	NO	IN CASE NO, SPECIFIED THE REASON	REMARKS
VIII	HYDROPHORE				
44	Whether Hydrofore is working properly.				
45	Whether Hydrofore relief valve checked/ cleaned every couple of days.				
46	Whether water level in the tank of Hydrofore checked every day.				
47	Whether working pressure of Hydrofore checked every day (1.2 kg-4 kg).				
IX	HYDRAULIC MOTOR				
48	Whether hy. Motor is working properly and Hy. Oil level is up to mark as indicated.				
49	Whether hy. Motor pressure & hy. Oil temperature is within limitation (145 & 55 respectively)				
50	Whether hy. Pumps are operational satisfactorily.				
X	AUX. ENGINE				
52	Whether Aux. Engine is working satisfactorily.				
53	Whether lub. Oil level in the sump of Aux. Engine is up to mark as indicated in the deep stick.				

SI. NO.	GENERAL INFORMATION	YES	NO	IN CASE NO, SPECIFIED THE REASON	REMARKS
54	Whether lub. Oil pressure, lub. Oil temp. & cooling water temperature of Aux. Engine is within the limit as recommended by manufacturer.(4.5 kg, 80-85 & 80-95 respectively)				
55	Whether all filters alongwith lub. Oil has been changed as per service manual of the Aux. Engine.				
56	Whether all gauges of the engine are in operational.				
57	Whether all hoses including oil pipe etc. as fitted in the Aux. Engine are in operational condition.				
58	Whether overhauling/ repairing of the Aux. Engine carried out as per service manual.				
59	Whether self-starters of the engine is working satisfactorily.				
60	Whether periodic servicing of self-starters of the engine carried out as required.				
61	Whether dynamo/ battery chargers of the engine is working satisfactorily.				
62	Whether periodic servicing dynamo/ battery chargers of the engine carried out as required.				
63	Whether alternator of the engine is operational satisfactorily.				
64	Whether periodic servicing of the alternator of the engine carried out as required.				

SI. NO.	GENERAL INFORMATION	YES	NO	IN CASE NO, SPECIFIED THE REASON	REMARKS
65	Whether lub. Oil priming pump is working satisfactorily.				
66	Please check & state whether exhaust of the Aux. Engine as per service manual.				
67	Whether lub. Oil, fuel oil, coolant & water leaks from both Gen. set Engines.				
68	Whether other defects i.e engine misfires, vibration, unusual engine noises, sudden changes in engine operating temperature or pressure, increase in oil & lub. Oil consumption etc. are noticed during the operation & inspection.				
69	Whether excessive gases or smoke have been noticed from breather of the engines.				
70	Whether ensure before putting the generator on load that all power switches are in "off" mode on the switch board.				
71	Whether apart from the above, other periodic maintenance carried out as per service manual of the Aux. Engine.				
XI	EMERGENCY D.G.SET				
72	Whether emergency D.G. Engine is working satisfactorily.				
73	Whether lub. Oil level in the sump of emergency D.G Engine is up to mark as indicated in the deep stick.				
74	Whether lub. Oil pressure, lub. Oil temp. & cooling water temperature of emergency D.G. Engine is within the limit as recommended by manufacturer.				

SI. NO.	GENERAL INFORMATION	YES	NO	IN CASE NO, SPECIFIED THE REASON	REMARKS
75	Whether all filters alongwith lub. Oil has been changed as per service manual of the emergency D.G. Engine.				
76	Whether all gauges of the engine are in operational.				
77	Whether all hoses including oil pipe etc. as fitted in the emergency D.G. Engine are in operational condition.				
78	Whether overhauling/ repairing of the emergency D.G. Engine carried out as per service manual.				
79	Whether self-starter of the engines is working satisfactorily.				
80	Whether periodic servicing of self-starter of the engine carried out as required.				
81	Whether dynamo/ battery chargers of the engine is working satisfactorily.				
82	Whether periodic servicing dynamo/ battery chargers of the engine carried out as required.				
83	Whether alternators of the engine is operational satisfactorily.				
84	Whether periodic servicing of the alternator of the engine carried out as required.				
85	Please check & state whether exhaust of the emergency D.G. Engine as per service manual.				

SI. NO.	GENERAL INFORMATION	YES	NO	IN CASE NO, SPECIFIED THE REASON	REMARKS
86	Whether lub. Oil, fuel oil, coolant & water leaks from both Gen. set Engines.				
87	Whether other defects i.e engine misfires, vibration, unusual engine noises, sudden changes in engine operating temperature or pressure, increase in oil & lub. Oil consumption etc. are noticed during the operation & inspection.				
88	Whether excessive gases or smoke have been noticed from breather of the engines.				
89	Whether ensure before putting the generator on load that all power switches are in "off" mode on the switch board.				
90	Whether apart from the above, other periodic maintenance carried out as per service manual of the emergency D.G. Engine .				
XII	MAIN ENGINE				
91	Whether Main Engine is working satisfactorily.				
92	Whether lub. Oil level in the sump of Main Engine is up to mark as indicated in the deep stick.				
93	Whether lub. Oil pressure, lub. Oil temp. & cooling water temperature of Main Engine is within the limit as recommended by manufacturer.(3.5-4 kg, 80-90 & 80-90 respectively)				
94	Whether all filters alongwith lub. Oil has been changed as per service manual of the Main Engine.				

Sl. NO.	GENERAL INFORMATION	YES	NO	IN CASE NO, SPECIFIED THE REASON	REMARKS
95	Whether air starter is working satisfactorily.				
96	Whether periodic servicing/ maintenance of air starter carried out as required.				
97	Whether all gauges of the engine are in operational condition.				
98	Whether all hoses including oil pipe etc. as fitted in the Main Engine are operational condition.				
99	Whether lub. Oil priming motor & pump are operational satisfactorily.				
100	Whether periodic servicing/ repairing are carried out as required.				
101	Whether overhauling/ repairing of the Main Engine carried out as per service manual.				
102	Please check & state whether exhaust of the Main Engine as per service manual.				
103	Whether lub. Oil, fuel oil, coolant & water leaks from both Gen. set Engines.				
104	Whether other defects i.e engine misfires, vibration, unusual engine noises, sudden changes in engine operating temperature or pressure, increase in oil & lub. Oil consumption etc. are noticed during the operation & inspection.				
105	Whether excessive gases or smoke have been noticed from breather of the engines.				

SI. NO.	GENERAL INFORMATION	YES	NO	IN CASE NO, SPECIFIED THE REASON	REMARKS
106	Whether engines run in idle mode for 3-5 minutes after completion of work to allow Lubricating oil and water to carry heat away from the combustion chamber, bearings, shafts etc.				
107	Whether apart from the above, other periodic maintenance carried out as per service manual of the Main Engine.				
XIII	GREASE PUMP				
108	Whether grease pump is working satisfactorily.				
109	Whether grease level is maintained properly in the grease pump.				
XIV	MISC. PUMPS				
110	Whether fresh water cooling pump, sea water cooling pump, sewage discharge pump, fuel oil transfer pump are operational satisfactorily.				
111	Whether periodic servicing of fresh water cooling pump, sea water cooling pump, sewage discharge pump, fuel oil transfer pump are carried out as required.				
112	Whether all the hand operated pumps are operational satisfactorily.				
113	Whether periodic servicing of all the hand operated pumps are carried out as required.				
114	Whether oily water separator is operation satisfactorily.				
115	Whether periodic servicing of oily water separator is carried out as required.				

Sl. NO.	GENERAL INFORMATION	YES	NO	IN CASE NO, SPECIFIED THE REASON	REMARKS
116	Whether dirty oil pump is operational satisfactorily.				
117	Whether periodic servicing dirty oil pump is carried out as required.				
XV	DREDGE PUMP				
118	Whether dredge pump is working satisfactorily.				
119	Whether any leakages in dredge pump.				
120	Whether seal of the dredge pump is in satisfactorily condition.				
XVI	ANCHOR WINCH & OTHER ALLIED EQUIPMENTS OF MAIN DECK, WHEEL HOUSE				
121	Whether anchor winches are working satisfactorily.				
122	Whether greasing is done periodically in both side anchor winches.				
123	Whether greasing is done periodically in both side spud brackets & its pulleys.				
124	Whether both side spuds are working satisfactorily.				
125	Whether ladder hoisting winch is working satisfactorily.				
126	Whether greasing is done periodically in ladder hoisting winch.				
127	Whether spud tilting winch is working satisfactorily.				

Sl. NO.	GENERAL INFORMATION	YES	NO	IN CASE NO, SPECIFIED THE REASON	REMARKS
128	Whether greasing is done periodically in spud tilting winch.				
129	Whether hy. Booms (3 nos.) are working satisfactorily.				
130	Whether hoisting wires of the spuds are operation condition. In case of unserviceable, please specified accordingly.				
131	Whether all the hy. Hoses are operational satisfactorily. In case of leakage, specified accordingly.				
132	Whether necessary compound provided in both side anchor wires to protect from corrosion.				
133	Whether cutter teeth are in satisfactorily condition.				
134	Whether proper greasing work carried in all joints & pulleys in the cutter ladder.				
135	Whether cutter motor is working properly.				
136	Whether routine maintenance of cutter motor is carried out.				
137	Whether all the gauges are in operational in wheel house.				
138	Whether all the electrical line, panel board, tube lights, bulbs, sockets, switches etc. are operational satisfactorily.				

SI. NO.	GENERAL INFORMATION	YES	NO	IN CASE NO, SPECIFIED THE REASON	REMARKS
139	Whether all the D.C electrical line & its tube lights/ bulbs, switches etc. are operational satisfactorily.				
140	Whether all the navigational lights are operational satisfactorily.				
141	Whether all the ventilation systems are operational satisfactorily.				
142	Whether periodic servicing/ repairing of all the ventilation systems are carried out as required.				
143	Whether deck crane is operational satisfactorily.				
144	Whether periodic maintenance of deck crane is are carried out as required.				
145	Whether any abnormal corrosion of deck, side shell, engine room & other hold observed & if so action taken for arresting the same by painting or otherwise.				
146	Whether all the valves are operational satisfactorily.				
147	Whether cabin, cooking equipment's alongwith fitted items are in well maintained. If not, please specify the short fall if any.				
XVII	FFA & LSA				
148	Whether all the fire extinguishers have been tested & re-filled & valid up to date as per IV act.				
149	Whether fire hose alongwith spray/jet nozzles are available in the dredger.				

SI. NO.	GENERAL INFORMATION	YES	NO	IN CASE NO, SPECIFIED THE REASON	REMARKS
150	Whether fire pump is operational.				
151	Whether life buoy & life jackets are in operational condition. Please specify the no. of each item.				
152	Whether lifesaving boat is operational alongwith OBM.				
153	Whether history book of the dredger is maintained as per contract provision with respect to repair & maintenance work.				
154	Note:-General remark on the overall maintenance of the dredger & its operational status				

ENGINE DRIVER
(Name & Signature)

D C O
(Name & Signature)

DREDGE MASTER
(Name & Signature)

SUP(M) /TA(M)
(Name & Signature)

DIRECTOR
(Name & Signature)