

**ESTIMATE FOR ANNUAL AFLOAT / DRY DOCK REPAIR OF SURVEY VESSEL S. L. MANDAKNI
UNDER PATNA SECTOR FOR THE YEAR 2012-13
(L-24.55m, B-5.5m, Depth- 2.6m,Draft-0.85m, GRT-92.00 Ton.)**

Sl. No.	DESCRIPTION OF WORK	UNIT	QTY	RATE	AMOUNT
1	Beaching , blocking, unblocking including dock hire / mooring charges as required to be done for repair of vessel.	comp.	comp.		
2	Ultrasonic testing to be made hull , deck plate and hull to LWL Ship side plate for thickness as per direction of IWT surveyor, Govt.of WB.	Spot	250		
3	Cropping & renewal of under water plate,deck plate , Ship side plate & other fitments after Ultrasonic testing & Inspection of IWT Surveyer to be recomanded , as per report of Ultrasonic test	ton	0.5		
4	Wheel steering (manual) & rudder indicator is not working ,same to be check & rectify the defect.	comp			
(a)	Labour charge	comp	1		
(b)	Cost of spare & machining (actual + 10%)	LS			
5	Kitchen wardrobe and almirah to be repaired including labour material as per direction of EIC.	RFT	40		
6	G.S. & Emergency pump to be sevised				
(a)	Labour charge	No.	4		
(b)	Cost of spare & machining (actual + 10%)	LS			
7	Sea chest, Mud Box, Stainer to be checked, repaired, cleaned and painted				
(a)	Labour charge	No.	1		
(b)	Cost of spare	LS			
8	Under water hull plate & side plate to be scrapped, wirebrushed and chipped from keel to LWL	Sqm	130		
9	Painting of under water hull plate & side plate to be done by 3- coats as per painting scheme from keel to water level after proper chipping, wire brushing and cleaning as required as per direction of EIC/Surveyor.	Sqm	130		
10	Painting of in side of hull plate,inner side plate, bilge & pipe lines to be done by 2- coats (Engine room,officer cabine,crew cabine after renewal of steel & pipe line) after proper chipping, wire brushing and cleaning as required as per painting scheme as per direction of EIC/Surveyor. Aprox.250X2=500 SQM	Sqm.	250		
11	Overhoulng including sencer, freash water pump,gauges etc of Port side Generator engine make SIMPSONS DIESEL ENGINE,model- S325 BHP-28, Sr.no. 57044(RUNNING 3201HRS).				
(a)	Labour charge	No.	1		
(b)	Cost of spare actual + 10%	LS			
12	Overhoulng including sencer, freash water pump,gauges etc of Stbd side Generator engine SIMPSONS DIESEL ENGINE,model- S217 BHP-19, Sr.no.8129 (RUNNING 71158 HRS).				

(a)	Labour charge	No.	1		
(b)	Cost of spare actual + 10%	LS			
13	Overhoulincluding AVR replacement of alternator 10 kva make Kirloskar electric comp ltd .				
(a)	Labour charge	No.	1		
(b)	Cost of spare actual + 10%	LS			
14	Supply of New Fire hose MMD APPROVED, length-30mtr.	No.	1		
15	Top overhouling including including fuel injectors & pump,heat exchanger,turbo charger,self starter Freash water pump etc. of Stbd side main engine make cummins, Model -N 743M as recomended by Authorised Repairer of Cummins .				
(a)	Labour charge	No.	1		
(b)	Workshop / machining charges	LS			
(c)	Cost of spare actual + 10%	LS			
16	Top overhouling including including fuel injectors & pump,heat exchanger,turbo charger,self starter Freash water pump etc. of Port side main engine make cummins, Model -N 743M as recomended by Authorised Repairer of Cummins .				
(a)	Labour charge	No.	1		
(b)	Workshop / machining charges	LS			
(c)	Cost of spare actual + 10%	LS			
17	Safty control& Alarm system of Both main engine & wheel house is not working.01 nos RPM meter of main engine is not working ,same to be rectify the defect				
(a)	Labour charge	comp	1		
(c)	Cost of spare actual + 10%	LS			
18	Abnormal sound of port side gear box model no. ZF 280-1 A ratio R 123 KW is noticed,same to be rectify the defect				
(a)	Labour charge	comp	1		
(c)	Cost of spare actual + 10%	LS			
19	Both side propeller,propeller shaft and it bushes is to be opened for finding out the clearness & checking of turness, buildup of bushes, etc repaired and fitted back in OE position as per drawing after fairing with same composition of Material / renewed the bushes if required as per direction of EIC/Surveyor.				
(a)	Labour charge	No.	2		
(b)	Machining charges	LS			
(c)	Cost of spare	LS			
20	Both rudder assembly to be dismantalled, rudder stock, shaft, bushes etc to be checked and if required same to be build up as per OE size (as per drawing) and fitted back in position as per direction of EIC/Surveyor.				
(a)	Labour charge	No.	2		
(b)	Machining charges	LS			
(c)	Cost of spare	LS			

21	All Electrical / Electronic line & AC/DC fan navigation light , other fitment including engine related to be checked line, pannel board, sensor,battery charger,pannel board, and rectified the defects including Meggar test & DC light connection to be provided in kitchen & officer cabin toilet as per direction of EIC/Surveyor.				
(a)	Labour charge	Job comp	1		
(b)	Cost of spare (Actual + 10 %)	LS			
22	Main engine sea Water pump to be serviced.				
(a)	Labour charge	No.	2		
(b)	Cost of spare (Actual + 10 %)	LS			
23	HSD tank(Reaserv & Service) ,sewage tank to be cleaned	Comp.	1		
24	Entire Man hole covers & hatchs damaged rubber,nuts ,bolts & studes same to be checked, repaired/ renewed by good quality of rubber & ss fittngs including labour and materials as per direction of EIC / Surveyor.	comp. job	1		
25	All Main sea suction valve and sea line valves along with its entire pipe lines to checked, tested and serviced , repaired/ renewed including other fitment valve in entire ship.				
(a)	Labour charge	comp. job	comp. job		
(b)	Cost of spare actual + 10%	LS			
26	Fire extinguisher to be serviced refilled and tested and test certificate to be provided				
(a)	Mech.Foam type - 9 Ltrs	No.	5		
(b)	Water CO2 - 9/45 Ltrs	No.	1		
(c)	D.C.P.T. type - 5 Kg	No.	3		
27	Fire hydrant valve to be serviced				
(a)	Labour charge	No.	2		
(b)	Cost of spare actual + 10%	LS			
28	All bilges to be cleaned	Job	Comp.		
29	Ship side LWL to main deck, Main Deck, super structure, railing, bathroom and other fitting to be cleaned and painted by two coat of Marine quality existing colour paints including rudder,chain compartment & FWD hold	Sqm	550		
30	Sewage motor and pump is to be serviced				
(a)	Labour charge	No.	1		
(b)	Cost of spare actual + 10%	LS			
31	Anchor chain to be drawn out, cleaned and painted	LS			
32	Port side Main Engine Gear Oil Pressure meter to be checked, repaired/ renewed including labour and materials	No.	1		
33	Blower to be serviced				
(a)	Labour charge	No.	4		
(b)	Cost of spare(actual + 10%)	LS			
34	Search-light position to be changed as per E/I including labour and materials	No.	1		
35	Fog Horn to be renewed including labour and materials	No.	1		

36	Wiper is not working same to be checked, repaired/ renewed including labour and materials	No.	1		
37	Loud speaker is not working same to be checked, repaired/ renewed including labour and materials	No.	1		
38	Hinge of wooden almirah(Crew cabin) has reported damaged. Same to be renewed as reqd. as per direction of EIC.	NO	4		
39	Door lock & almirah of cabin to be repaire/renewed as per direction of EIC.	comp	1		
40	Discharge pipe of wash basin is not working properly. Same to be renewed with 2.5" dia. Pipe for proper discharging of water.	NO	2		
41	Telegraph shaft(Wheel house) to be renewed as required. As per direction of Surveyor/EIC.	NO	1		
42	Rubber of all hatch cover to be provided with existing dia. And good quality as reqd. as per direction of EIC/Surveyor.	NO	4		