

BOQ for Dry Dock repair of CSD Mahananda during the year 2009-10
L- 40.3 M, B - 7.0 M, Depth - 2.46 M, Draft - 1.2 M, GRT - 108 .

SL. NO	DESCRIPTION OF WORK	UNIT	QTY	RATE	AMOUNT
1	Docking & undocking charge	No.	1		
2	Dock hire charge	Days	30		
3	Mooring charge	Days	30		
4	Ultrasonic testing of under water hull plate & deck plate	Spot	150		
5	Cropping and renewal of MS plate of hull, Deck, frame, angle which ever detected defective / less than permissible thickness after inspection of IWT surveyor	Ton.	0.5		
6	Chipping, scrapping wire brushing & cleaning of under water hull plates from keel to LWL	Sqm	350		
7	Provision for painting of external shell from keel to LWL with one coat of red oxide primer followed by one coat of anti failing & one coat existing colour marine quality paint as per painting schedule	Sqm	320		
8	Provision for painting of external shell from LWL to Deck with one coat of zinc chromate primer followed by two coat of existing colour marine quality paint as per painting	Sqm	110		
9	Both spud are not holding the dredger during dredging same to be checked & rectified the defects including its assoseries as per directive of IWT Surveyor & E/I				
a)	Labour charges	No	2		
b)	Cost of spare (actual + 10 %)	No.	1		
10	Deck water pump and engine to be serviced				
a)	Labour charges	No.	1		
b)	Cost of spare (actual + 10 %)	No.	1		
11	Checking / Servicing / repairing of under water all lines & all valves & other fitted valves.				
a)	Labour charges	Job comp	1		
b)	Cost of spare (actual + 10 %)	No.	1		
12	Emergency Hydraulic pump Is not working. Motor, Pump, starter including Hy. Pipe lines to be checked and rectified the defects.				
a)	Labour charge	No	1		
b)	Cost of Spare (Actual + 10 % basis)	LS	1		
13	Main Engine water flushing pump to be serviced				
a)	Labour charge	No	2		
b)	Cost of Spare (Actual + 10 % basis)	LS	1		
14	Side railing are failing straightened and welded.	Comp Job	1		
15	Dredging pipe line davit stand is bended to be renewed the stand pipe and supporting pipe.	No	1		

16	CAT main engine model No. - 3508 DITA to be checked & starting problem & exhaust gas leaking from head manifold side same to be arrested rectified the defect as per norms				
a)	Labour charge	No	1		
b)	Cost of Spare (Actual + 10 % basis)	LS	1		
17	Ladder pulley, swing pulley & other fitment of all pulley & its related assoseries to be serviced.				
a)	Labour charge	Comp Job	1		
b)	Cost of Spare (Actual + 10 % basis)	LS	1		
18	Exhaust fan to be serviced				
a)	Labour charge	No	2		
b)	Cost of Spare (Actual + 10 % basis)	LS	1		
19	All tanks & build i.e., HSD tank, Hy oil tank etc. to be cleaned & all deck main hols rubber packing & rusted nut bolt also renewed including labour and materials.	Comp Job	1		
20	Horn is not working same to be repaired / renewed including labour and materials	Comp Job	1		
21	Checking / repairing / servicing (if required replacement of worn out parts) of entire electrical lines / electronic lines (AC / DC) distribution line, panel board, PCB, connected with hydraulic lines / pneumatic lines, switch & holders, tube light, nav				
a)	Labour charges	Comp Job	1		
b)	Cost of spare (actual + 10 %)	LS			
22	Wheel house AC to be serviced				
a)	Labour charge	No	1		
b)	Cost of Spare (Actual + 10 % basis)	LS	1		
23	Wheel house broken window glass to be renewed as per sized and sample including labour and materials	Comp job	1		
24	Dredge pump clutch operating start up unit speed monitoring devices type M 5.24 - is not working to be checked including sensor and electrical / Electronic line and rectified the defects				
a)	Labour charge	No	1		
b)	Cost of Spare (Actual + 10 % basis)	LS	1		
25	Fire extinguisher to be serviced, refitted and tested				
a)	Foam type - 9 lts	No	2		
b)	DCP - 5 kg	No	2		
26	Port side main engine make Cummins, model no. 53GF4, HP-52 to be serviced				
a)	Labour charge	No	1		
b)	Cost of Spare (Actual + 10 % basis)	LS	1		
27	Water supply line is damaged same to renewed and all fitment assoseries provided				
a)	Labour charge	No	1		

b)	Cost of Spare (Actual + 10 % basis)	LS	1		
28	Air Bottle Air is leaking to be arrested	No	1		
29	Entire Hydraulic line to be checked & Hy. Oil leaking in Hydraulic arrested including labour & material.	Comp Job	1		
30	Cutter teeth to be build up	Comp Job	1		
31	Sea chest, Mud box, strainer to be checked, repaired, cleaned and painted.	Comp Job	1		
	Total Amount				

**BOQ for afloat repair CSD Yamuna during the year 2009-2010
L- 40 M, B - 10 M, Depth - 2.30 M, Draft - 1.2 M, GRT - 165 .**

SI. No	DESCRIPTION OF WORK	UNIT	QTY	RATE	AMOUNT
1	Both blower air filter to be renewed including labour and material	No.	4		
2	Fire extinguisher to be serviced, refilled and tested				
a)	Foam type - 9 ltrs	No.	4		
b)	DCP - 5 ltrs	No.	3		
c)	Water CO2 -9 ltrs	No.	2		
3	Fresh Water tank of Main Engine & Aux. Engine to be cleaned	No.	2		
4	Main Engine & Aux. Engine CAT Model No. - 3512 & 3412 safety unit is not working, same to be checked and rectified the defects including Alarm unit, sensor and engine all performance checked & all leakage are arrested etc.				
a)	Labour charges	No.	2		
b)	Cost of spare (Actual + 10%)	L.s	1		
5	Dredge pump pneumatic clutch and main engine pneumatic speed control are not engaging through switch in wheel house & engine room, same to be checked and rectified the defects.				
a)	Labour charges	No.	1		
b)	Cost of spare (Actual + 10%)	L.s	1		
6	Main Spud Hydraulic brake is not holding & releasing properly same to be checked and rectified the defects.				
a)	Labour charges	No.	1		
b)	Cost of spare (Actual + 10%)	L.s	1		
7	Cutter pressure meter-0-250 bar, wheel house, all measuring gauge & its switch i.e., dredging computer, deft meter, vacuum meter, discharge meter, winch swing switch spud career meter, talk back system spud carrier 0-250 bar, mixture density-1.2-0-1.2cum,h				
a)	Labour charges	Comp Job	1		
b)	Cost of spare (Actual + 10%)	L.s	1		
8	All Grease line & motor switch to be checked & cleaned and worn out parts to be renewed				
a)	Labour charges	Comp Job	1		
b)	Cost of spare (Actual + 10%)	L.s	1		
9	Routine maintenance of Harbor engine USA Cummins make Model - 4BT - 3.9 HP with safety unit control system.				
a)	Labour charges	No.	1		
b)	Cost of spare (Actual + 10%)	L.s	1		

10	Anchor swing pulley to be opened, clearness to be checked and if required build up the bush and pin and same to be fitted after repairing.				
a)	Labour charges	No.	7		
b)	Cost of spare (Actual + 10%)	L.s	1		
11	All electrical line its fitting AC/DC to be checked and rectified the defects				
a)	Labour charges	No.	1		
b)	Cost of spare (Actual + 10%)	L.s	1		
12	Compressor engine auto switch (30 bar cut & 20 bar start) to be renewed with labour & materials	No	2		
13	Dredge pump impeller pump shaft & bearing & cooling system to be opened & inspected and worn out parts to be replaced and fitted back, if required draw plate, impeller, and casing to be build up / renewed.				
a)	Labour charges	No	1		
b)	Cost of spare (Actual + 10%)	L.s	1		
17	Hydraulic oil is leaking in several joint, Hy. Pump etc in hy. Line to be to be checked and rectified the defects & all leakage are arrested etc..				
a)	Labour charges	Job	1		
b)	Cost of spare (Actual + 10%)	L.s	1		
18	Sal wood bench to be supplied size - 6' x 2.0'x 1.5'	No	2		
	Total				

BOQ for afloat repair of HSD Sone during the year 2009- 10
L- 27.50 M, B - 10 M, Depth - 2.80 M, Draft - 1.2 M, GRT - 185 .

SL.NO	DESCRIPTION OF WORK	UNIT	QTY	RATE	AMOUNT
1	Supply of salwood ladder size (18' x 1' x 2")	No.	1		
2	Fire extinguisher to be serviced refilled and tested.				
(a)	DCP - 5 Kg	No.	3		
(b)	Foam type 9 Lts	No.	4		
(c)	Water type CO ₂ 9 Lts	No.	3		
3	200 Lts Refrigerator to be serviced				
a)	Labour charges	No.	1		
b)	Cost of spare (Actual + 10%)	LS	1		
4	Toilet basin wooden base is damaged to be renewed	No.	1		
5	Gen set sea water pump to be supplied and fitted as per sample	No.	1		
	Supply of Rudder angle transmitter (feed back unit) PW 620 MLLD G90/1P65, FSG (Gear ratio - 40:1, 1) 2087 ohm / 3600 2) 2087ohm / 3600, OE Make (Type- HRP 210-50 AFT, Serial No. - 27300799-6, Power rating - 103 kw Input speed - 1800 rpm, Reduction rati	No.	1		
	Total				