



# भारतीय अन्तर्देशीय जलमार्ग प्राधिकरण

(पत्तन, पोत परिवहन और जलमार्ग मंत्रालय, भारत सरकार)

**INLAND WATERWAYS AUTHORITY OF INDIA**  
(Ministry of Ports, Shipping and Waterways, Govt. of India)

क्षेत्रीय कार्यालय : पी-७८, गार्डनरीच रोड, कोलकाता - ७०० ०४३ (प० बं०)

REGIONAL OFFICE : P-78, Garden Reach Road, Kolkata - 700 043 (W.B.)

दूरभाष : 2439 0393 / 5577 / 6055, फैक्स : 2439 5570



**SAGARMALA**  
PORT-LED PROSPERITY

E-mail : iwaical@yahoo.com  
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IWAI/ko-150MN28/1,2,3/2021 / 686

06.08.2024

To,

M/s A C Roy Shipbuilders Pvt. Ltd  
Diamond Heritiage Building,  
Kolkata-700001

Sub: Award of Work for "Dry Dock repair of TUG BURGE FLOTILLA UNIT (TUG RAMPRASAD BISMIL, DB KALPANA CHAWLA, DB APJ ABDUL KALAM) FOR THE YEAR 2024-25"-reg.

Ref: 1) E-procurement tender id. 2024\_IWAI\_814786\_1  
2) E-procurement bidder bid no- 3059329

Sir,

Kindly refer to e-tender no. 2024\_IWAI\_814786\_1 for Dry Dock repair of TUG BURGE FLOTILLA UNIT (TUG RAMPRASAD BISMIL, DB KALPANA CHAWLA, DB APJ ABDUL KALAM) during the year 2024-25, we are pleased to place a work order to M/s A C Roy Shipbuilders Pvt. Ltd. at a total cost of Rs. 46,77,818.00/- (Rupees Forty Four Lakh Seventy Seven Thousand Eight Hundred Eighteen Only) wherein Labour charges Rs. 38,38,818.00/- Excluding GST and cost of spares Rs 8,39,000.00/- (tentative) and excluding of GST as applicable, as per enclosed bill of quantity in accordance with the tender terms & conditions. Cost of spares on actual + 10 % basis to be paid subject to spares fitted and supplied within estimated cost. Incremental spare cost to be approved by Competent Authority.

The total cost of work shall be Rs. 46,77,818.00/- excluding of GST as applicable, as per item wise rate mentioned in the enclosed BOQ subject to variation of quantity of work actually executed and certified by the EIC. The above-mentioned total cost is inclusive of taxes, duties and other levies etc., excluding GST as specified in tender. The payment shall be made on submission of bill after certification of the E.I.C for the actual quantity executed. The work shall be completed within 120 (One Hundred Twenty) days from the date of placement of vessel in the yard. As per tender Technical and Special Conditions no.11 all statutory survey by surveyor of IWT, State Government shall be arranged by the contractor on behalf of the Authority and survey fees, third-party insurance and any other endorsement/documentation as claimed by the IWT surveyor will only be reimbursed by Authority.

As per tender clause no. 18 under technical specification and special conditions, the inspection of vessels during execution of repairing of IWAI vessels shall be carried out by IRS and arranged by the contractor on behalf of the Authority.

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The payment of IRS visits, plate stamping and testing during repairing of the vessels at yard shall be paid by the repairer. However, this amount shall be re-imbursed to the repairer on submission of proof of bill raised by the IRS and payment made by the repairer.

You are requested to deposit an amount Rs. 2,33,891/- (Rupees Two Lakh Thirty-Three Thousand Eight Hundred Ninety One Only) i.e., the 5% of the contract value of the work order either in the form of RTGS/ NEFT through scheduled / nationalized banks in the favor of "Inland Waterways Authority of India Fund" payable at Kolkata (or) in the form of irrevocable bank guarantee of any scheduled bank towards performance Guarantee within 10 days of the issue of this work order as per terms & conditions of the tender document. In addition to the above, a security deposit equivalent to 5% of the contract value (i.e. Rs. 2,33,891/- (Rupees Two Lakh Thirty-Three Thousand Eight Hundred Ninety One Only) will be deducted from RA bills as per Clause 4 of the General Conditions of Contract.

In case of delay in completion of the repair work of the vessel and delivery thereafter, liquidated damages as per the Clause no. 35 will be applicable @ 1.5% per month of delay for delay of work to be computed on per day basis subject to a maximum 10% on the total value of the contract.

A list of the additional work which is considered necessary as per recommendation of the EIC and or those which are directed during the course of repairs for satisfactory completion of repairs and subsequent commissioning of vessel should be prepared jointly by EIC and contractor. Thereafter, contractor shall furnish quotation for those items of work for which rate would be derived from the agreement or afresh as the case may be in force along with extra time required for completion of all the additional work. The rate for the additional work shall be approved as provided in clause No. 12 of Technical & Special Conditions of contract and clause no. 16 of the General Condition of contract for execution.

The work executed all items of work attended and spare etc. supplied by the contractor shall have Guarantee period of minimum 12 months or manufacturer warrantee whichever is more from the date of delivery of the vessel after repair.

The work plan to be submitted within 7 days of issue of work order.

An agreement shall be entered between this Authority and Firm in the approved format within 12 days from the date of receipt of work order. You are requested to attend this office with 2 non-Judicial stamp papers of Rs 100/- each for signing of contract agreement and integrity.

It is requested to convey your acceptance for this work order by signing the copy of this letter immediately.

Enc.: As Stated,

Yours faithfully,



(R.K. Singh)  
DIRECTOR

Copy to:

1. Chief Engineer (Tech), IWAI, Noida.
2. Sr. A.O, IWAI, Kolkata

| BOQ FOR DRY DOCK REPAIR OF TUG BURGE FLOTILLA UNIT (TUG RAMPRASAD BISMIL, DB KALPANA CHAWLA, DB APJ ABDUL KALAM) FOR THE YEAR 2024-25 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |      |             |             |
|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|-------------|-------------|
| L - 23.3 M x B - 8.5 M X D -2.50 M                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |      |             |             |
| SL. NO                                                                                                                                | DESCRIPTION OF WORK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | UNIT      | QTY  | RATE(₹)     | AMOUNT(₹)   |
| 2.00                                                                                                                                  | Docking & undocking Dock hire charge and mooring charges as required for completion of repair works.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Comp. Job | 1    | 1,27,050.00 | 1,27,050.00 |
| 3.00                                                                                                                                  | Ultrasonic testing is to be done of hull, side plate & deck plate, super structure for measurement of thickness as per direction of Surveyor/EIC.                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Spot      | 300  | 66.00       | 19,800.00   |
| 4.00                                                                                                                                  | Wheel house (Aft) railing found bended, main deck railing ( Fwd/ S) , Aft ( S) found bended and same to be straightned and repaired and Cropping & renewal of underwater plate, deck plate, Ship side plate, side fender pipe, flat bar & other fitments is to be done as required as per direction of Surveyor/EIC.                                                                                                                                                                                                                                                                                           | Ton       | 1    | 1,32,048.00 | 1,32,048.00 |
| 5.00                                                                                                                                  | All sea chest, mud box, strainer etc. to be checked, repaired, cleaned and painted as per direction of EIC/Surveyor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Comp. Job | 1    | 23,100.00   | 23,100.00   |
| 6.00                                                                                                                                  | Fire & bilge pipe found leaking same to be repaired, and All main sea valves, OBD valves, sea water/ Bilge/GS line valves, to be overhauled, pressure tested and pipe lines to be clean and make operational & leak free as required as per direction of EIC/ Surveyor.                                                                                                                                                                                                                                                                                                                                        | Comp. Job | 1    | 34,650.00   | 34,650.00   |
| 7.00                                                                                                                                  | All line valves and pipe lines of Fresh water valves, HSD valves, LO valves, FO valves Hydraulic valves, fire line valves to be serviced / repair as per direction of EIC / surveyor.                                                                                                                                                                                                                                                                                                                                                                                                                          | Comp. Job | 1    | 78,750.00   | 78,750.00   |
| 8.00                                                                                                                                  | The entire ship side shell plate from LWL to main deck, deck plate, superstructure, bathroom, galley inside, anchor chain, anchor locker/compartament, engine room and outside along with other fitment etc, are to be proper cleaned, scrapped, wire brushed, chipped and painted by 3 coats of existing colour marine paint. (1 coat zinc chromate primer, followed by two coats of existing colour of marine paints). All pipe lines should be coloured as per marine colour code. After it name of vessel, dept. and logo to be made by fluorescent sticker as required as per direction of EIC/ Surveyor. | Sqm       | 1000 | 253.00      | 2,53,000.00 |
| 9.00                                                                                                                                  | Under water hull plate & side plate to be scraped & chipped & wire brushed from keel to LWL to remove fouling and old paints and painting of the same to be done by 3 coats as per painting scheme from keel to water level as per direction of Surveyor/ EIC.                                                                                                                                                                                                                                                                                                                                                 | Sq.m      | 350  | 264.00      | 92,400.00   |

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |   |           |             |
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| 10.00 | Both thruster unit ( P& S) leakage observed from pressure switch same to be rectified and Overhauling, repair and maintenance of both side Dutch Thruster units type DA-0450, Power: 450/KW at 1900 rpm. Propeller 1200 mm diameter in Nozzle, Reduction ratio: 1:3.983, is to be done i.e. Propellers, gears, drives, seals, filters, solenoid switches, limit switches, v/v, high pressure lines, PCB controllers, pid controller, complete hydraulic system, joystick control from wheelhouse to be checked, cooler to be cleaned etc. as required to make the unit operational and leak free as per direction of EIC/Surveyor.                  |           |   |           |             |
| 10.01 | Labour charges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Comp. Job | 2 | 86,625.00 | 1,73,250.00 |
| 10.02 | Cost of spares (actual + 10%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |   |           | -           |
| 11.00 | Hand pump fore peak tank found non operational & handle found missing same to be repaired and Servicing/repair of pumps (Sea water, Fresh water, GS pump, Fuel oil transfer pump, Bilge/Fire pump & sewage pump, ) is to be done with renewal of required spares & also motors of these pumps to be done with checking of insulation, heat varnishing etc. with renewal of material as required as per direction of EIC/ Surveyor.                                                                                                                                                                                                                  |           |   |           |             |
| 11.01 | Labour charges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Comp. Job | 1 | 44,000.00 | 44,000.00   |
| 11.02 | Cost of spares and machining charges of shafts, bushes etc.(actual + 10%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |   |           |             |
| 12.00 | Sacrificial (Zinc) anodes to be renewed as per direction of EIC/ Surveyor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Nos.      | 8 | 4,400.00  | 35,200.00   |
| 13.00 | Engine room found with bilges , emergency bilge suction submerged in oil same to be Cleaning and painting of bilges with one coat primer and 2 coats of marine quality paints as per direction of EIC/Surveyor                                                                                                                                                                                                                                                                                                                                                                                                                                      | Comp. Job | 1 | 80,500.00 | 80,500.00   |
| 14.00 | VHF display light found non- bfunctional& screen reading not clearly visible, GPS found non- dunctional, W/house wiper (P/S) found mulfunctioning, NUC- 2 light found non-functional, Officers suite exhaust found mulfunctioning, engine room blower junction box found brken ( W/H deck), 5 nos fan oin crew ccomodation & master cabin found non-operational, galley chimney found non-operational, refrigerator not cooling properly, 2 nos light on crew mess room & galley found non-operational, all the others A.C /D.C electrical Line & equipment etc. to be checked and repaired. if required replaced as per direction of EIC/Surveyor. |           |   |           |             |
| 14.01 | Labour charges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Comp. Job | 1 | 55,020.00 | 55,020.00   |
| 14.02 | Cost of spares (actual + 10%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |   |           |             |

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| 15.00 | Servicing of all quick closing valves and make operational with levelling indication mark of valves as required as per direction of Surveyor /EIC.                                                                                                                                                                                                                                                                                                                                                                              | Comp. Job | 1 | 10,500.00 | 10,500.00 |
| 16.00 | Anchor winch ammeter glass panek found damaged , on/off push button found damaged and same to to be make operational and all the others parts of winches to be check of gearbox, motor, brake shoe, control panel and gauges & meters, switches etc. and repair of the same to be done with renewal of spares. Twing winch (p) side remote control system found non-operational same to be rectified as required as per direction of EIC/ Surveyor.                                                                             |           |   |           |           |
| 16.01 | Labour charges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Comp. Job | 2 | 11,500.00 | 23,000.00 |
| 16.02 | Cost of spares (on Actual + 10 % basis )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |   |           |           |
| 17.00 | Main deck ( Fwd/ Aft) 2 nos. fire hose box found damaged with glass same to be rectified and other All Fire hydrant valves, nozzles, couplings, fire hose box (2nos.) etc. to be serviced/ renewed and have to make leak free operation and also Emergency fire pump hose pipe with all accessories, 3 nos. fire hydrant cap found missing, 1 no. fire hose found leaking same to be supplied and fitted with couplings as required as per direction of EIC /Surveyor.                                                          |           |   |           |           |
| 17.01 | Labour charges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Comp. Job | 1 | 4,400.00  | 4,400.00  |
| 17.02 | Cost of spares (actual + 10%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |   |           |           |
| 18.00 | D/G ( S) leakage observed from fresh water cooling line & self starting malfunctioning same to be rectified and Running routine maintenance has to be done of (S) side Genset engine (Make: Kirloskar oil engine, Model: 4R1040T ,) through renewal of all filters, coolants, lube oil, V- belts and checking and repairing of tapped clearance , sea water & fresh water pumps, self starter, Dynamo, electrical safety system etc. cleaning of all coolers & heat exchanger as required as per the direction of Surveyor/EIC. |           |   |           |           |
| 18.01 | Labour charges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Comp. Job | 1 | 26,400.00 | 26,400.00 |
| 18.02 | Cost of spares(actual + 10%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |   |           |           |

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| 19.00 | Complete overhauling of (p) side generator engine (make -Kirloskar oil engine, model no.4R1040T) is to be done as lube oil is leaking from crankshaft pully with checking and renewal of liner, piston, rings, valves, heads and other accessories along with calibration of fuel pump, injectors, cooling water pump, etc as shall be required. Cooler, cylinder head & inlet/outlet valves to be cleaned/checked, lapped tappet setting, silencer, checking of exhaust line and self-starter (alternator & dynamo) etc. with renewal of spares e.g. gauges, RPM meter, all type of filter, coupling, belt and hose pipe etc. mounted on. The necessary machining, electric, electronics work is also to be done as required to complete the entire works and make the engine operational as per direction of EIC/Surveyor. |           |   |           |           |
| 19.01 | Labour charges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Comp. Job | 1 | 46,000.00 | 46,000.00 |
| 19.02 | Cost of spares(actual + 10%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |   |           |           |
| 20.00 | The wood work in the officer suite cabin ceiling near Air conditioner (approx. area – 50x50 sq.cm), (P) (approx. area – 50x50 sq.cm) & (S) (approx. area – 100x100 sq.cm) side bulkhead plywood, crew cabin cupboard lock (7 nos.), crew mess room and master driver cabin panel found damaged , the same is to repaired with renewal of necessary wooden materials such as wooden base frame, plyboard, sunmica etc. as applicable as per site requirement & direction of EIC/ Surveyor.                                                                                                                                                                                                                                                                                                                                    |           |   |           |           |
| 20.01 | Labour charges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Comp. Job | 1 | 23,000.00 | 23,000.00 |
| 20.02 | Cost of spares(actual + 10%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |   |           |           |
| 21.00 | Wheel house (S) not closing properly and damagd at bottom, sme to be repair ,1 no.), Bridge deck officer room door ( 1 no.), lock (2 nos.), port side crew cabin entrance door (1 no.), crew cabon bulkhead panel ( P & S side), master driver cabin bathroom door frame wooden ply reported damaged, same to be repaired and renewed with existing wood and lock and requisite materials as required as per direction of EIC/ Surveyor.                                                                                                                                                                                                                                                                                                                                                                                     |           |   |           |           |
| 21.01 | Labour charges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Comp. Job | 1 | 11,000.00 | 11,000.00 |
| 21.02 | Cost of spares (actual + 10%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |   |           |           |

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| 22.00 | Engine blower hatch opening ( P & S ) - 4 nso. rubber packing found hardned & damaged , E/R emergency exit hatch rubber packing found hardned, 4 nos. bottle screw of railing wire found missing, samme are to be repaired/ renewed and all others manhole covers, all window, all blower, outside doors, air vents & all hatches/ Tank covers with damaged rubber packing/ beading, nuts,bolts & studs same to be repaired/ renewed by good quality of rubber packing/ beading & SS fittings respectively as required as per direction of EIC/ Surveyor. |           |     |             |             |
| 22.01 | Labour charges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Comp. Job | 1   | 16,500.00   | 16,500.00   |
| 22.02 | Cost of spares (on Actual + 10 % basis )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |     |             |             |
| 23.00 | Engine room blower (P & S) making abnormal noise same to be repaired and all others blowers to be serviced and also Exhaust mushroom head flap handle 3 nos. found jammed same to be service and repair with renewal of spares as required as per direction of EIC/ Surveyor.                                                                                                                                                                                                                                                                             | Comp. Job | 1   | 46,000.00   | 46,000.00   |
| 24.00 | Supply & fitting of good quality PVC door of 1 no. bathroom as per sample with all fitting like door lock, handle etc. including labour and materials as required as per direction of EIC.                                                                                                                                                                                                                                                                                                                                                                | Nos.      | 1   | 10,175.00   | 10,175.00   |
| 25    | <b>DB KALPANA CHAWLA</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |     |             |             |
| 26.00 | Docking & undocking Dock hire charge and mooring charges as required for completion of repair works.                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Comp. Job | 1   | 3,08,700.00 | 3,08,700.00 |
| 27.00 | Ultrasonic testing is to be done of hull, side plate & deck plate, super structure for measurement of thickness as per direction of Surveyor/EIC.                                                                                                                                                                                                                                                                                                                                                                                                         | Spot      | 500 | 66.00       | 33,000.00   |
| 28.00 | Main deck Aft (S) guard rails found bended and broken, main deck forward ( P &S) guard rails found damaged same to be repaired and Cropping & renewal of underwater plate, deck plate, Ship side plate, side fender pipe, flat bar & other fitments is to be done as required as per direction of Surveyor/EIC.                                                                                                                                                                                                                                           | Ton       | 0.5 | 1,32,048.00 | 66,024.00   |
| 29.00 | All sea chest, mud box, strainer etc. to be checked, repaired, cleaned and painted as per direction of EIC/Surveyor.                                                                                                                                                                                                                                                                                                                                                                                                                                      | Comp. Job | 1   | 23,100.00   | 23,100.00   |
| 30.00 | Fire & bilge pipe found leaking same to be repaired, and All main sea valves, OBD valves, sea water/ Bilge/GS line valves, to be overhauled, pressure tested and pipe lines to be clean and make operational & leak free as required as per direction of EIC/ Surveyor.                                                                                                                                                                                                                                                                                   | Comp. Job | 1   | 34,650.00   | 34,650.00   |

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| 31.00 | Main deck after store room, forepeak store (P&S) hatch cover found rusted & subber packing found hardned & damaged and all the hatches, manhole covers packing to be checked and renewed as required as per direction of EIC/ Surveyor.                                                                                                                                                                                                                                                                            |           |      |           |             |
| 31.01 | Labour charges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Comp. Job | 1    | 16,500.00 | 16,500.00   |
| 31.02 | Cost of spares (on Actual + 10 % basis )                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |      |           | -           |
| 32.00 | The entire ship side shell plate from LWL to main deck, deck plate, anchor chain, anchor locker/compartment, etc, are to be proper cleaned, scrapped, wire brushed, chipped and painted by 3 coats of existing colour marine paint. (1 coat zinc chromate primer, followed by two coats of existing colour of marine paints). All pipe lines should be coloured as per marine colour code. After it name of vessel, dept. and logo to be made by fluoresent sticker as required as per direction of EIC/ Surveyor. | Sqm       | 1900 | 253.00    | 4,80,700.00 |
| 33.00 | Under water hull plate & side plate to be scraped & chipped & wire brushed from keel to LWL to remove fouling and old paints and painting of the same to be done by 3 coats as per painting scheme from keel to water level as per direction of Surveyor/ EIC.                                                                                                                                                                                                                                                     | Sq.m      | 950  | 264.00    | 2,50,800.00 |
| 34.00 | Crew accomodation plywood panel found broken on aft, port, and celling the same is to repaired with renewal of necessary wooden materials such as wooden base frame, plyboard, sunmica etc. as applicable as per site requirement & direction of EIC/ Surveyor.                                                                                                                                                                                                                                                    |           |      |           |             |
| 34.01 | Labour charges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Comp. Job | 1    | 23,000.00 | 23,000.00   |
| 34.02 | Cost of spares(actual + 10%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |      |           | -           |
| 35.00 | 2 nos. hand pump on forward Hand pump fore peak tank found on main deck and 2 nos. hand pump on aft main deck found non-operational and handle found missing same to be serviced/ repaired with renewal of required spares as required as per direction of EIC/ Surveyor.                                                                                                                                                                                                                                          |           |      |           |             |
| 35.01 | Labour charges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Comp. Job | 1    | 8,800.00  | 8,800.00    |
| 35.02 | Cost of spares and machining charges of shafts, bushes etc.(actual + 10%)                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |      |           |             |
| 36.00 | Sacrificial (Zinc) anodes to be renewed as per direction of EIC/ Surveyor.                                                                                                                                                                                                                                                                                                                                                                                                                                         | Nos.      | 16   | 4,400.00  | 70,400.00   |
| 37.00 | Cleaning and painting of bilges with one coat primer and 2 coats of marine quality paints as per direction of EIC/Surveyor                                                                                                                                                                                                                                                                                                                                                                                         | Comp. Job | 1    | 40,892.00 | 40,892.00   |
| 38.00 | Navigation panel found not connected with battery source, galley exhaust found non-operational and switch found missing same to be rectified/ repaired as required as per direction of EIC/ Surveyor.                                                                                                                                                                                                                                                                                                              |           |      |           |             |

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| 38.01 | Labour charges                                                                                                                                                                                                                                                                                                                                                             | Comp. Job | 1   | 20,000.00   | 20,000.00   |
| 38.02 | Cost of spares (actual + 10%)                                                                                                                                                                                                                                                                                                                                              |           |     |             |             |
| 39.00 | DG (E/R) safety rotating guard ( for belt ) not provided same to be installed / secured including labour charge and material as required as per direction of EIC / Surveyor..                                                                                                                                                                                              | Comp. Job | 1   | 10,500.00   | 10,500.00   |
| 40.00 | DG exhaust bellow found leaking & exhaust lagging found missing, Anchor engine ( forward ) exhaust pipe found broken & exhaust lagging found missing same to be repaired/ rectified with lagging with glass wool & ducting with aluminium sheet, and water proofing of exhaust pipes from deck side & changing of damaged Nuts and bolts as per direction of EIC/Surveyor. |           |     |             |             |
| 40.01 | Labour charges                                                                                                                                                                                                                                                                                                                                                             | Comp. Job | 2   | 4,400.00    | 8,800.00    |
| 40.02 | Cost of spares (on Actual + 10 % basis )                                                                                                                                                                                                                                                                                                                                   |           |     |             |             |
| 41    | <b>DB APJ ABDUL KALAM</b>                                                                                                                                                                                                                                                                                                                                                  |           |     |             |             |
| 42.00 | Docking & undocking Dock hire charge and mooring charges as required for completion of repair works.                                                                                                                                                                                                                                                                       | Comp. Job | 1   | 3,08,700.00 | 3,08,700.00 |
| 43.00 | Ultrasonic testing is to be done of hull, side plate & deck plate, super structure for measurement of thickness as per direction of Surveyor/EIC.                                                                                                                                                                                                                          | Spot      | 500 | 66.00       | 33,000.00   |
| 44.00 | Main deck Aft (S) guard rails found bended and broken, main deck forward ( P &S) guard rails found damaged same to be repaired and Cropping & renewal of underwater plate, deck plate, Ship side plate, side fender pipe, flat bar & other fitments is to be done as required as per direction of Surveyor/EIC.                                                            | Ton       | 0.5 | 1,32,048.00 | 66,024.00   |
| 45.00 | All sea chest, mud box, strainer etc. to be checked, repaired, cleaned and painted as per direction of EIC/Surveyor.                                                                                                                                                                                                                                                       | Comp. Job | 1   | 23,100.00   | 23,100.00   |
| 46.00 | Fire & bilge pipe found leaking same to be repaired, and All main sea valves, OBD valves, sea water/ Bilge/GS line valves, to be overhauled, pressure tested and pipe lines to be clean and make operational & leak free as required as per direction of EIC/ Surveyor.                                                                                                    | Comp. Job | 1   | 34,650.00   | 34,650.00   |
| 47.00 | Main deck after store room, forepeak store (P& S) hatch cover found rusted & rubber packing found hardned & damaged and all the hatches, manhole covers packing to be checked and renewed as required as per direction of EIC/ Surveyor.                                                                                                                                   |           |     |             |             |
| 47.01 | Labour charges                                                                                                                                                                                                                                                                                                                                                             | Comp. Job | 1   | 16,500.00   | 16,500.00   |
| 47.02 | Cost of spares (on Actual + 10 % basis )                                                                                                                                                                                                                                                                                                                                   |           |     |             |             |

*Spam*  
*UTM*

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |      |           |             |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|-----------|-------------|
| 48.00 | The entire ship side shell plate from LWL to main deck, deck plate, anchor chain, anchor locker/compartment etc, are to be proper cleaned, scrapped, wire brushed, chipped and painted by 3 coats of existing colour marine paint. (1 coat zinc chromate primer, followed by two coats of existing colour of marine paints). All pipe lines should be coloured as per marine colour code. After it name of vessel, dept. and logo to be made by fluorescent sticker as required as per direction of EIC/ Surveyor. | Sqm       | 1930 | 253.00    | 4,88,290.00 |
| 49.00 | Under water hull plate & side plate to be scraped & chipped & wire brushed from keel to LWL to remove fouling and old paints and painting of the same to be done by 3 coats as per painting scheme from keel to water level as per direction of Surveyor/ EIC.                                                                                                                                                                                                                                                     | Sq.m      | 950  | 264.00    | 2,50,800.00 |
| 50.00 | Crew accomodation plywood panel found broken on aft, port, and celling the same is to repaired with renewal of necessary wooden materials such as wooden base frame, plyboard, sunmica etc. as applicable as per site requirement & direction of EIC/ Surveyor.                                                                                                                                                                                                                                                    |           |      |           |             |
| 50.01 | Labour charges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Comp. Job | 1    | 23,000.00 | 23,000.00   |
| 50.02 | Cost of spares(actual + 10%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |      |           |             |
| 51.00 | 2 nos. hand pump on forward Hand pump fore peak tank found on main deck and 2 nos. hand pump on aft main deck found non-operational and 4 nos handle found missing same to be serviced/ repaired with renewal of required spares as required as per direction of EIC/ Surveyor.                                                                                                                                                                                                                                    |           |      |           |             |
| 51.01 | Labour charges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Comp. Job | 1    | 8,800.00  | 8,800.00    |
| 51.02 | Cost of spares and machining charges of shafts, bushes etc.(actual + 10%)                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |      |           |             |
| 52.00 | Sacrificial (Zinc) anodes to be renewed as per direction of EIC/ Surveyor.                                                                                                                                                                                                                                                                                                                                                                                                                                         | Nos.      | 16   | 4,400.00  | 70,400.00   |
| 53.00 | Cleaning and painting of bilges with one coat primer and 2 coats of marine quality paints as per direction of EIC/Surveyor                                                                                                                                                                                                                                                                                                                                                                                         | Comp. Job | 1    | 40,892.00 | 40,892.00   |
| 54.00 | AC DC Navigational panel indicator lights found mulfuntioning, (S) navigational light found non-operational, panel found not connected with battery source, galley exhaust found non-operational and switch found missing same to be rectified/ repaired as required as per direction of EIC/ Surveyor.                                                                                                                                                                                                            |           |      |           |             |
| 54.01 | Labour charges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Comp. Job | 1    | 20,000.00 | 20,000.00   |
| 54.02 | Cost of spares (actual + 10%)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |      |           |             |

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|       |                                                                                                                                                                                                                                                                                                                                                                            |           |   |          |              |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---|----------|--------------|
| 55.00 | DG exhaust bellow found leaking & exhaust lagging found missing, Anchor engine ( forward ) exhaust pipe found broken & exhaust lagging found missing same to be repaired/ rectified with lagging with glass wool & ducting with aluminium sheet, and water proofing of exhaust pipes from deck side & changing of damaged Nuts and bolts as per direction of EIC/Surveyor. |           |   |          |              |
| 55.01 | Labour charges                                                                                                                                                                                                                                                                                                                                                             | Comp. Job | 2 | 4,400.00 | 8,800.00     |
| 55.02 | Cost of spares (on Actual + 10 % basis )                                                                                                                                                                                                                                                                                                                                   |           |   |          |              |
|       | LABOUR COST(Excluding GST)                                                                                                                                                                                                                                                                                                                                                 |           |   |          | 41,54,565.00 |
|       | Lower                                                                                                                                                                                                                                                                                                                                                                      |           |   | 7.60%    | 3,15,746.94  |
|       | Sub Total (in Rs.)                                                                                                                                                                                                                                                                                                                                                         |           |   |          | 38,38,818.00 |
|       | Cost of Tantative SPARES (in Rs.)                                                                                                                                                                                                                                                                                                                                          |           |   |          | 8,39,000.00  |
|       | GRAND TOTAL(Excluding GST) (in Rs.)                                                                                                                                                                                                                                                                                                                                        |           |   |          | 46,77,818.00 |

Rupees FourtySix Lakh SeventySeven Thousand Eight Hundred Eighteen Only  
(GST extra as applicable)

Waw  
Tm

24/7/2017  
DIRECTOR