

ENQUIRY

To

As mentioned below

Sir,

Sub: Port Department- Puducherry- Budgetary Enquiry for the work of "Minimal Dry Dock repair and maintenance work in Dredger 'Karaikal'- 2024" - Reg.

Please submit your lowest budgetary quote for the following job in a Sealed cover super scripted with "Name of work." on or before 12.11.2024.

No	Description of Items	Qty	Per	Amount
1	<u>Removal of spuds and Painting:</u> Removal of 2 spuds from the dredger and placing them on the floor for painting. The spuds should be placed over the wooden blocks to have a minimum clearance of 150mm. The wooden sleepers are to be brought by the contractor. The spuds should be reassembled on the dredger after completion of dry docking.	1 job	1 job	
2	<u>i) Dry-docking of Dredger:</u> Positioning and Placing the dredger over the cradle, hauling the cradle over the slipway by winch. Lifting the Dredger using Jacks and placing over the wooden supports provided underneath the dredger at suitable locations as per the design & drawing of the Dredger. Before commencement of the work, it is to be confirmed that the dredger is stable on the supports. The slipway facility shall be provided by the department. <u>ii) Un-docking of Dredger:</u> After completion of works, the Dredger to be un-docked safely from the slipway facility in to the water.	1 job	1 job	
3	<u>Underwater Hull cleaning:</u> Removal of Oyster marine growth in under water portions of the Dredger thoroughly using suitable machinery. After the removal of Oyster Marine growth, the under water portions are to be hydro blasted with fresh water at 200 Bar pressure using suitable Hydro Jet Machines.	1 job	1 job	
4	<u>Reconditioning of Cutter ladder assembly:</u> The Cutter ladder is to be lifted and placed over a firm support for inspection of underneath portions of cutter ladder. Removal of old angles, corroded M.S Plates of the			

	Cutter Ladder assembly at specified locations as detailed below by gas cutting to the required dimensions and replacing with new material. Cutting and welding to be done by engaging first class welders. <u>a) Crown supporting plates:</u> i) M.S Plate size: 1600 mm X 500 mm x 8 mm thick - -1 No ii) M.S Plate size: 400 mm X 350 mm x 8 mm thick - -5 Nos.	1 Job	1 Job	
	<u>b) Hanging Pulley brackets of bottom plates:</u> i) M.S Plate size: 1600 mm X 950 mm x 8 mm thick - -1 No ii) M.S Plate size: 760 mm X 550 mm x 8 mm thick - - 1 No	1 Job	1 Job	
	<u>c) Suction pipe support bracket plates:</u> i) M.S Plate size: 1500 mm X 500 mm x 10 mm thick - 6 Nos ii) M.S Flat size: 100 mm X 10 mm - 12 mtr long iii) M.S Flat size: 75 mm X 10 mm - 12 mtr long	1 Job	1 Job	
	<u>d) Replacement of Cutter ladder suction pipe reducer:</u> Removal of old Cutter ladder bottom suction pipe reducer from the assembly, Fabrication and replacement of suction pipe reducer size of 452 mm X 402 mm to a length of 750 mm. The Reducer to be provided with flange welded at one another end to be provided with loose flange. Each flange to be drilled with 16 Nos of holes for fixing 1" X 5" Bolts and Nuts with washers.	1 Job	1 Job	
	<u>e) Replacement of Unserviceable Non-Return Valve assembly:</u> Replacing the non working Suction gate valve by fabricating with pipe bend 45° dia ID -400 mm X length - 250 mm, flange -OD -520 mm, ID - 400 mm, No holes - 16 nos, Hole dia - 1", gasket, 1" x 4" Bolt, nut, washer - 16 sets.	1 Job	1 Job	
5.	<u>Replacement of damaged Swing Winch Sheave Assemblies:</u> Fabrication, supply and installing of 2 nos Swing pulley assembly. The brackets to be fabricated from 8 mm MS plates to the size of OD 430 mm x ID 50 mm . Fabrication of 2 nos centre pin to the size of OD 50 mm x length 120mm. Pulleys bottom guard pipe to the size of 1100 mm x 400mm x 8mm thick x 2 Nos x 2 sides.	1 Job	1 Job	
6.	<u>Strengthening of underneath Suction Mouth and Suction Pipe assembly:</u> Strengthen of the old Bell mouth, Suction pipe, convergent pipe, divergent pipe from underneath the cutter ladder. The suction pipes 'U'clamps to be replaced			

	with newly fabricated "U" clamps. All other materials required including labour and consumable such as Bolt, nuts and washer are at the contractor's cost.	1 Job	1 Job	
7.	<u>Servicing of following Motor and Pump assemblies:</u> i) Bilge motor and pump (3HP) - 1 no ii) General service motor and pump(3HP)- 1 no iii) Gland motor and pump (3HP)- 1 no iv) Dredge Pump Gland cooling motor and pump (7.5 HP) - 1 no v) Main Engine Sea water cooling pump -1 no vi) Auxiliary Engine Sea water cooling pump -1 no	1 job	1 job	
8	<u>Replacement/Servicing and Reconditioning of Water Pipelines and Valves:</u> a) Replacement of Steave Bearing cooling water line (Stainless steel water line) along with accessories. b) Servicing and Reconditioning of Sea water, Bilge, Gland cooling water M.S pipelines. b) Servicing and Reconditioning of the following Valves; i) Globe Valve 4" - 1 no ii) Globe Valve 3" (L Type) - 1 no iii) Globe Valve 2 1/2" - 4 nos iv) Globe Valve 2" - 21 nos v) Globe Valve 1 1/2" - 1 no vi) Globe Valve 1" - 2 nos vii) Gate Valve 2" - 4 nos viii) Gate Valve 1" - 3 nos ix) Ball Valve 1 1/2" - 2 nos x) Ball Valve 1" - 1 no xi) Hydrant Valve 63 mm - 1 no	1 job	1 job	
9.	<u>Carpentry works:</u> Carpentry works on wheel house wooden doors bottom planks.	1 Job	1 Job	
10.	<u>Repair and Reconditioning of Dredge Pump Discharge line (400 mm Dia):</u> i) Removal of old 400 mm dia, 90° Bend fitted at the rear end of the Dredge pump Discharge line and replacing it with newly fabricated 400 mm dia, 90° bend with Loose Flange at the one end and fixed flange welded at the other end. Each flange to be drilled with 16 Nos of Bolt holes for fixing 1" X 4" Bolts and Nuts with washers. ii) Removal of old 400 mm dia, Spool piece pipe fitted at the rear end of the Dredge pump Discharge line adjacent to 90° Bend and replacing it with newly fabricated Spool piece pipe of 400 mm dia X 500 mm length with Loose Flange at the one end and fixed flange welded at the other end. Each flange to be drilled with 16 Nos of Bolt holes for fixing 1" X 4" Bolts and Nuts with washers.	1 Job	1 Job	

11.	<u>Servicing of Hydraulic Pump, Valves and Pressure lines of the following systems:</u> i) Cutter Ladder operating system ii) Swing Winches operating system iii) Spud operating system iv) Replacement of Stainless Steel Needle Valves (1/2") fitted in in the Spud operating system - 2Nos. v) Servicing and replacement of spares in Spud Ram Hydraulic assembly. while servicing the Hydraulic system, damaged spares, Bearings, Seals and 'O' rings are to be replaced with new spares. Hydraulic oil cooler to be serviced. Solenoid valve and Blocks to be serviced.	1 Job	1 Job	
12.	<u>Repair and arresting of Oil leakage of Gear Box:</u> Dismantling of Gear Box coupled with Main Engine, replacement of damaged oil seal with new one, assembling of Gear Box and check for leakage.	1 Job	1 Job	
13.	<u>Cleaning and Painting of Dredger:</u> <u>(i) Cleaning:</u> Cleaning, scrapping and removal of existing old paints on the surface of structures, equipments of the dredger thoroughly with wire brush, electrically operated buffing machine and chipping hammer as the case may be as directed by the engineer-in-charge to ensure the metallic surface clean and dry. Tools, materials and labour are at the contractor's cost.	1 Job	1 Job	
	<u>(ii) Painting of Dredger:</u> Painting of different grades of paints on the different surfaces as instructed by the engineer-in-charge. Paints, tools, brushes and labour are at the contractor's cost. Applying two coats of Zinc rich Epoxy Primer, 1 Coat of Magnesium Iron Oxide (Intermediate) and 2 coats of Antifouling Marine grade paint on the underwater surfaces. Applying 2 coats of Polyurethane paint on the above water level surfaces. Equipment, Tools, materials and labour are at the contractor's cost.	1 Job	1 Job	
14	<u>Servicing 62.5 KVA Main Alternator.</u> Removal of 62.5 KVA, Kirloskar make Main Alternator coupled with the Auxillary Engine, Rewiring of Alternator Stator, replacement of rectifier unit and Automatic Volatage Regulator of Kirloskar make. Servicing, Installation and alignment with Auxiliary Engine Drive. Necessary spares, tools, materials and labour are at the contractor's cost.	1 Job	1 Job	
15	<u>Reconditioning of Cutter Crown assembly:</u> Removal of Cutter Crown assembly from the Cutter shaft, Reconditioning the Cutter ring, removal of old & damaged Cutter teeth from the cutter head, welding of			

	new cutter teeth (65 nos) on the cutter head. Assembling of Cutter Crown assembly in position. All material and labour at contractor's cost.	1 Job	1 Job	
16	<u>Repair and Reconditioning of Blower Motor housing:</u> Removal of damaged Blower Motor housing, Fabrication and replacement of following: i) Vertical pipe: OD-700 mm X Height 1300 mm X 8 mm thick. ii) Top Hood: OD-1300 mm X 8 mm thgick, side: OD-1300 mm X 8 mm thick X height-500 mm. iii) Flange: OD - 800mm, ID - 700 mm, thick-10mm, no of holes - 20 nos, Hole dia - 12mm. iv) MS Rod dia 6mm x 6 meter - 1 no v) MS Mesh 1300 X 1300 X 3.15mm, 18sq.ft- 1No vi) M12 X 1.5" -40 set bolt, nut 2 washer, vii) M 8 X 1" -12sets bolt, nut 2 washer viii) Housing Door Bush hinges - 2 nos ix) Rubber Gasket OD - 800mm, ID - 700MM, thick-6mm, - 2 nos x) Motor fixing plate 300 x 300 x 8mm - 1 no	1 Job	1 Job	
17	<u>Replacement of Cutter Ladder and Swing Winch Wire ropes:</u> Removal of existing damaged Steel Wire ropes of Cutter Ladder and Swing Winch operation and replacing with following wire ropes of Usha Martin Make, 22 mm dia , 6X 36 construction, Right Hand outlay (RHO), ungalvanized having tensile strength of 1770 N/sq.mm. i) Swing Winch wire ropes: 22 mm Steel wire rope, 120 metres length both on Port and Starboard sides- 2 Nos ii) Cutter Ladder Wire rope: 22 mm Steel wire rope, 70 metres length on the Cutter ladder- 1 No iii) Spud Wire ropes: 22 mm Steel wire rope, 10 metres length both on Port and Starboard sides- 2 Nos	1 Job	1 Job	
18	<u>Renovation of Deck, Superstructure and store room area on Port and STBD sides and arresting leakages.</u> i) Deck - spud side - MS Plate - 2.4 mt x 7.5 mt x 6 mm - 1 no. ii) Deck - Winch side - 2.0 mt x 7.5 mt x 6 mm - 1 no. iii) Deck - Port side - MS Plate -11.1 mt x 2.0 mt x 6 mm - 1 no. iv) Deck - STBD side - MS Plate - 11.1 mt x 2.0 mt x 6 mm - 1 no. v) Deck - Manual Door - MS Plate -760 X 550 X 8 mm - 2 nos, wt - 55 kgs, SS M12 stud, cap nut - 36 sets. vi) Super structure Port side side plate MS Plate - 11.1 mt x 0.4 mm x 6 mm - 1 no. vii) Super structure STBD side side plate MS Plate - 11.1 mt x 0.4 mm x 6 mm - 1 no. viii) Store room - Port side - MS Plate - 6.0 mt x 2.25mt x 6 mm - 1 no.			

ix) Store room - STBD side MS Plate - 6.0 mt x 2.25mt x 6 mm - 1 no. x) Fabrication of Front Store room Hatch Port & STBD side: MS Plate - 620mm X 460mm X 8 mm x 4 sides - 2 nos, (460 x 2480 x 8 mm x 2 nos). xi) MS Plate - 650mm X 650mm X 8 mm Door - 2 nos. xii) MS Flat 25 X 6 mm x 6 meters. xiii) Arresting of leakages on two places in the STBD front Side Store room. xiv) Arresting of leakages on two places in the STBD Side Buoyancy tank.	1 Job	1 Job	
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TERMS AND CONDITIONS

1. The validity of the quote shall be 30 days.
2. Before quoting, the Dredger at the New Port may be inspected at any time during office hours for assessment of value.
3. The rate is to be quoted in the format as given in the Enquiry form above.
4. Quotation submitted should not specify any conditional/unconditional rebates.
5. The work shall be carried out as per the specifications and directions of Department Engineers.
6. No EMD need to be submitted along with the Budgetary quotation. However during the time of actual tender, EMD at the prescribed rate will have to be deposited.
7. The contractor/firm has to submit Performance guaranty for an amount equal to 5 % of the quoted amount, in the form of fixed deposit Receipt or Demand draft drawn in favour of Executive Engineer, Port Department, Puducherry, from a nationalized Bank, if the work is awarded to him during the actual tendering.
8. Deductions like Income Tax , GST @ 2%, Labour cess @ 1% and Security deposit @ 2.5 % of the total value of work will be deducted in each running bill , if the work is awarded to him, during the actual tendering.
9. No advance payment will be made.
10. Part payment will be made against the work completed, upon presentation of bills.
11. Taxes and duties, if any, are to be included in the quote itself.
12. Completion period of shall be 45 days from the date of issue of work Order and shall be strictly adhered to.
13. The undersigned reserves the right to accept or to reject any Quotation without assigning any reason thereof.
14. For any dispute or legal matter arising out in respect of this contract, the jurisdiction of the court shall be Puducherry only.

P. V. Arun
EXECUTIVE ENGINEER

Copy to : 1. The Director of Information Technology..... with request to host in the Government of Puducherry website.
2. Notice Board
3. Port Department Official website.