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| <p align="center">eProcurement System Government of India<br/> Created By: Lakshmi Kant Rajak<br/> Created Date/Time: 26-Feb-2022 05:09 PM<br/> Tender Title: DRYDOCK REPAIR OF MV RAJAGOPALACHARI FOR THE YEAR 2021-22<br/> Tender ID: 2022_IWAI_673085_1</p> |
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Tender Inviting Authority: DIRECTOR IWAI, KOLKATA

Name of Work: Dry Dock repair of MV Rajagopalachari during the year 2021-22

Contract No: IWAI/KOL/MN/20/1/2021

| SCHEDULE OF WORK / ITEM(S) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |       |                |                      |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------|----------------|----------------------|
| Sl.No                      | Description of Work / Item(s)                                                                                                                                                                                                                                                                                                                                                                                                                                    | No.of Qty | Units | Estimated Rate | GRSE LTD.(GSTN-NA)   |
|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |       |                | Rate Amount          |
| 1.00                       | Beaching , blocking, unblocking including dock hire / mooring charges for repair of vessel as required as per direction of EIC/ surveyor.(Approx. 60 days)                                                                                                                                                                                                                                                                                                       | 1.00      | Comp. |                | 900000.00 900000.00  |
| 2.00                       | Ultrasonic testing to be done of hull, deck plate & LWL ship side plate, etc for checking of thickness as per direction of IWT Surveyor / EIC.                                                                                                                                                                                                                                                                                                                   | 400.00    | Spot  |                | 107.50 43000.00      |
| 3.00                       | Cropping & renewal of under water, deck plate and pipes etc as required after ultrasonic testing & its report as per direction of IWT Surveyor/ EIC.                                                                                                                                                                                                                                                                                                             | 10.00     | ton   |                | 295625.00 2956250.00 |
| 4.00                       | Sea chest, Mud Box, Stainer to be checked (total 5 no.s), repaired along with materials, cleaned and painted as required as per direction of IWT Surveyor/ EIC.                                                                                                                                                                                                                                                                                                  | 1.00      | Comp. |                | 86000.00 86000.00    |
| 5.00                       | All Sea water valves (10 no.s) to be pressure tested and serviced / renewed as per direction of EIC / surveyor.                                                                                                                                                                                                                                                                                                                                                  | 1.00      | No.   |                | 86000.00 86000.00    |
| 6.00                       | All Fresh water valves, HSD valves, LO valves, Hydraulic valves, fire line valves to be serviced / renewed as per direction of EIC / surveyor.                                                                                                                                                                                                                                                                                                                   | 1.00      | Comp. |                | 91375.00 91375.00    |
| 7.00                       | Under water hull plate & side plate to be scrapped, chipped, wire brushed & cleaned from keel to LWL to remove fouling and paints and then Painting of hull plate & side plate to be done by 3 coat as per painting scheme from keel to water level as per direction of IWT Surveyor/ EIC.                                                                                                                                                                       | 550.00    | Sq.m. |                | 1827.50 1005125.00   |
| 8.00                       | For painting of above water level, ship side, deck, toilet, anchor chain compartments, engine rooms, store rooms, all compartments of the vessel to be scrapped, chipped, wire brushed and Painting of above water level surface , ship side, deck, toilet, anchor chain compartments, engine rooms, store rooms, all compartments of the vessel to be done by two coats of exisiting colour marine paint after application of one coat of zinc chromate primer. | 1600.00   | Sq.m. |                | 1075.00 1720000.00   |
| 9.00                       | Complete overhauling of HRP and control unit alongwith all accessories with renewal of spare parts as required as per direction of EIC/ surveyor.                                                                                                                                                                                                                                                                                                                |           |       |                |                      |
| 9.10                       | Labour charges                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.00      | No.   |                | 376250.00 752500.00  |
| 9.20                       | Cost of spares (actual + 10%)                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |       |                |                      |
| 10.00                      | D check of generator engine Make: Cummins, Model: 4 B3 9, 75 KVA, 440V is to be done with checking and renewal of liner, piston,rings,valves,heads and other accessories alongwith calibration of fuel pump , injectors, cooling water pump, etc as shall be required by authorised dealer. The necessary machining is also to be done as required to complete the entire works and make the generator operational as per direction of EIC/Surveyor.             |           |       |                |                      |
| 10.10                      | Labour charges                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.00      | No.   |                | 193500.00 387000.00  |
| 10.20                      | Cost of spares (actual + 10%)                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |       |                |                      |
| 11.00                      | D check of harbour generator engine Make: Lister, Type: TR 1, 15 KVA is to be done with checking and renewal of liner, piston,rings,valves,heads and other accessories alongwith calibration of fuel pump , injectors, cooling water pump, etc as shall be required by authorised dealer. The necessary machining is also to be done as required to complete the entire works and make the generator operational as per direction of EIC/Surveyor.               |           |       |                |                      |
| 11.10                      | Labour charges                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1.00      | No.   |                | 102125.00 102125.00  |
| 11.20                      | Cost of spares (actual + 10%)                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |       |                |                      |
| 12.00                      | All HSD service tank, HSD reserve tank, cargo tank and fresh water tank to be cleaned and painted, thereafter cementing in fresh water tank only as require as per direction of EIC/Surveyor.                                                                                                                                                                                                                                                                    |           |       |                |                      |

| L1 Amount  | L1 Vendor |
|------------|-----------|
| 900000.00  | GRSE LTD. |
| 43000.00   | GRSE LTD. |
| 2956250.00 | GRSE LTD. |
| 86000.00   | GRSE LTD. |
| 86000.00   | GRSE LTD. |
| 91375.00   | GRSE LTD. |
| 1005125.00 | GRSE LTD. |
| 1720000.00 | GRSE LTD. |

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| 752500.00 | GRSE LTD. |
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| 387000.00 | GRSE LTD. |
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| 102125.00 | GRSE LTD. |
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| 12.10 | Labour charges                                                                                                                                                                                                                                                                                              | 1.00    | Comp. |
| 12.20 | Cost of spares (actual + 10%)                                                                                                                                                                                                                                                                               |         |       |
| 13.00 | Entire electrical system including both AC, DC panels and emergency of wheel house, engine room, cargo hold, deck, blowers, vents, navigaiton lights, fans, lights, etc and its line to be checked and serviced/ repaired as required with renewal of required materials as per direction of EIC/ Surveyor. |         |       |
| 13.10 | Labour charges                                                                                                                                                                                                                                                                                              | 1.00    | Comp. |
| 13.20 | Cost of spares (actual + 10%)                                                                                                                                                                                                                                                                               |         |       |
| 14.00 | Servicing and repairing of bilge pump, fire pump, sea water pumps, fresh water pumps, Fuel oil pumps, Sewage pump, etc. as required as per direction of EIC/ Surveyor.                                                                                                                                      |         |       |
| 14.10 | Labour charges                                                                                                                                                                                                                                                                                              | 1.00    | Comp. |
| 14.20 | Cost of spares (actual + 10%)                                                                                                                                                                                                                                                                               |         |       |
| 15.00 | Entire toilet fittings ,valves,door & locker locks,basin, shower, taps, commode cover, flushing tank pipe,tank main hole nut & bolt, Washer etc to be checked, repaired/renewed as per direction of EIC/Surveyor.                                                                                           |         |       |
| 15.10 | Labour charges                                                                                                                                                                                                                                                                                              | 3.00    | No.   |
| 15.20 | Cost of spares (actual + 10%)                                                                                                                                                                                                                                                                               |         |       |
| 16.00 | Anchor winches to be serviced, anchor chains to be drawn out, calibrated, painted along with renewal of spares and operation of both to be shown as required as per direction of EIC/ Surveyor.                                                                                                             |         |       |
| 16.10 | Labour charges                                                                                                                                                                                                                                                                                              | 1.00    | Comp. |
| 16.20 | Cost of spares (actual + 10%)                                                                                                                                                                                                                                                                               |         |       |
| 17.00 | Cargo hold side doors operation(hoisting and lowering) are not functioned in smooth manner and securing cleats jammed. The same to be rectified with all accessories alongwith renewal of material/spare parts(winch etc.)as required to make operational as per direction of EIC/ Surveyor.                | 4.00    | No.   |
| 18.00 | Cargo hold bilge pumping out arrangement is out of order the same to be rectified as required as per direction of Surveyor/EIC.                                                                                                                                                                             | 1.00    | Comp. |
| 19.00 | All system pipe line are corroded and holed the same to be rectified with all accessories and strengthening of structure as required to make operational as per direction of EIC/ Surveyor.                                                                                                                 |         |       |
| 19.10 | Labour charges                                                                                                                                                                                                                                                                                              | 1000.00 | kg.   |
| 20.00 | Cleaning and painting of bilges with one coat primer and 2 coats of marine quality paints as per direction of EIC/Surveyor.                                                                                                                                                                                 | 1.00    | Comp. |
| 21.00 | Repair of the ramp including operating mechanism along with renewal of materials, spares as required for synchronised movement with safety as per direction of EIC/ Surveyor.                                                                                                                               |         |       |
| 21.10 | Labour charges                                                                                                                                                                                                                                                                                              | 1.00    | Comp. |
| 21.20 | Cost of spares (actual + 10%)                                                                                                                                                                                                                                                                               |         |       |
| 22.00 | Fire extinguisher to be hydraulic tested, refilled and made operational after renewal of accessories and refilling materials as required and as per direction of Surveyor/ EIC.                                                                                                                             |         |       |
| 22.10 | DCP-5 kg                                                                                                                                                                                                                                                                                                    | 7.00    | No.   |
| 22.20 | Mechanical foam AFFF -9 ltr                                                                                                                                                                                                                                                                                 | 4.00    | No.   |
| 22.30 | Liquid CO2 - 9 ltr                                                                                                                                                                                                                                                                                          | 6.00    | No.   |

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| 129000.00 | 129000.00 |
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| 241875.00 | 241875.00 |
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| 225750.00 | 225750.00 |
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| 21500.00  | 64500.00  |
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| 86000.50  | 86000.50  |
|           |           |
| 26875.00  | 107500.00 |
| 69875.00  | 69875.00  |
|           |           |
| 752.50    | 752500.00 |
| 247250.00 | 247250.00 |
|           |           |
| 129000.00 | 129000.00 |
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| 5912.50   | 41387.50  |
| 6987.50   | 27950.00  |
| 7847.50   | 47085.00  |

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| 129000.00 | GRSE LTD. |
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| 241875.00 | GRSE LTD. |
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| 225750.00 | GRSE LTD. |
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| 64500.00  | GRSE LTD. |
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| 86000.50  | GRSE LTD. |
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| 107500.00 | GRSE LTD. |
| 69875.00  | GRSE LTD. |
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| 752500.00 | GRSE LTD. |
| 247250.00 | GRSE LTD. |
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| 129000.00 | GRSE LTD. |
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| 41387.50  | GRSE LTD. |
| 27950.00  | GRSE LTD. |
| 47085.00  | GRSE LTD. |

Total in Figures

10299048.00

Lowest Amount Quoted BY: GRSE LTD.(10299048.00)